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File: 2152

FUNCTIONAL SERVICING REPORT

576 RIDGE ROAD NORTH Town of Fort Erie November 2022

INTRODUCTION

This report is prepared to address the servicing needs for the proposed residential subdivision development located in the Ridgway Park neighbourhood of Town of Fort Erie. The project site is located at 576 Ridge Road North and known as Ridgeway Chrystal Beach Secondary School. The subject lands are located between west of Prospect Point Road north, east of Ridge Road north, south of Nigh Road, and north of Hazel Street.

The subject land has frontage along the Ridge Road north on the west side and Prospect Point Road north on the east side. The subject lands are surrounded by existing low-density residential units on north-west and south-west of the subject lands. The adjoining lands on the north-east and south-east portion is currently are vacant lands with potential to be developed as medium-high density residential in future as per the Ridgeway/Thunder Bay Secondary Plan of Town of Fort Erie (2019).

As per the draft plan of the subdivision, the subject lands will comprise of 49 lot of single-family residential units, a multiple family residential block, an apartment block with a total area of approximately 6.32 hectares. The site shall include associated asphalt road, concrete curb, catch basins, storm sewers, sanitary sewers, and watermain.

The objectives of this study are as follows:

- 1. Identify domestic and fire protection water service needs for the site;
- 2. Identify sanitary servicing needs for the site; and,
- 3. Identify stormwater management needs for the site.

WATER SERVICING

The following existing watermains are within close proximity to the proposed development site:

- 200mm dia. municipal watermain on the west side of Ridge Road north along west limit of the site;
- 150mm dia. municipal watermain on the east side of Prospect Point Road north along the east limit of the site;



For proposed 49 single family residential units on the east side of the subject lands, it is proposed to construct a 150mm diameter watermain through the site connecting to an existing 150mm diameter watermain on Prospect Point Road North to provide both domestic water supply and fire protection for the proposed development. There are two fire hydrants located on east side of the Prospect Point Road north along the east boundary of the site.

It is proposed to construct two separate 150mm diameter watermains through a multiple family residential block and an apartment block connected to an existing 200mm diameter watermain located on the west side of the Ridge Road north for the water servicing need of the proposed apartment block and multiple family residential block on the west side of the property. There is an existing fire hydrant located on the west side of the property and north of the existing school building.

It is proposed to construct additional municipal fire hydrants within the proposed development of single-family residential units, apartment block and multiple family residential block to provide adequate fire protection for the proposed units. The spacing and locations of the proposed fire hydrants will be determined through detailed design.

SANITARY SERVICING

There are existing 200mm diameter municipal sanitary sewers flowing northward located on the west side of Prospect point Road north and on the east side of the Ridge Road north.

For the proposed development of the single-family residential units along the east side of the site, it is proposed to construct a sanitary sewer to convey future sanitary flows from the subject lands. The proposed sanitary sewer will be connected to an existing 200mm diameter sanitary sewers located on the west side of the Prospect Point Road north. The total drainage area of the subject lands constitutes of the 49 single-family residential units is approximately 2.53 hectares. Assuming a population density of 35 ppha (per Town of Fort Erie Standards, 2016) for future low-density residential units, the future population of 70 persons for the subject site. From the preliminary analysis, it has been determined that the future sanitary flows from the proposed development will utilise approximately 8.9% of the available capacity of the existing downstream sanitary sewer. It is expected that this will be an acceptable addition to the current capacity of the existing sanitary sewer.

The proposed apartment block and multiple family residential block on the west side of the property will be serviced by two separate sanitary sewers and will be connected to an existing 200mm diameter sanitary sewer located on the east side of the Ridge Road north. The total drainage area for the apartment block is 1.06 ha and multiple family residential block is 2.08 ha. Assuming a population density of 80 ppha (per Town of Fort Erie Standards, 2016) for medium density residential block and 228 ppha (per Town of Fort Erie Standards, 2016) for high-density residential block proposed on the west side of the subject lands, the total future population will be 408 persons. A preliminary sewer analysis was carried out to determine the available



capacity in the existing sanitary sewers on Prospect Point Road north, Ridge Road north and Nigh Road. The future sanitary flow from the proposed high-density apartment block will utilise approximately 22.8% of available capacity of the existing sanitary sewer on the Ridge Road north. Additionally, future sanitary flows from the proposed medium density multiple family residential block will also use approximately 25.2% of available capacity of the existing sanitary sewer on the Ridge Road north downstream of the proposed apartment block. A preliminary sanitary sewer analysis with sanitary drainage area plan is attached in the appendix A for reference.

STORMWATER MANAGEMENT PLAN

As part of the site development for the proposed residential development, the following is a summary of the stormwater management plan.

It is proposed to develop the existing subject lands into single family residential lots, multiple family residential block and an apartment block. Currently, there is an existing school building and a race track with concrete surface is present on the subject lands. Figure 1 (Appendix B) shows the existing stormwater drainage areas and corresponding percentage imperviousness. The stormwater flows from the area A3 and A5 drains to Outlet A through a natural ditch located on the south of the Outlet A. While, the existing stormwater flows from the area A4 and A6 drains to Outlet A via a ditch located on the north of the Outlet A. Recently, as a part of the Royal Ridge subdivision development the north ditch has been replaced by a 600mm diameter by-pass storm sewer that has been designed to carry the existing stormwater flows up to 5 years from the areas A3, A4, A5 and A6 to Outlet A. The area A1 and A2 upstream of the subject land drains into the subject lands and hence considered for the quantity and quality controls. Following Table 1 shows the comparison of existing and future conditions of the subject land.

Table 1. Hydrological Parameters for Existing and Future Conditions								
Area No.	Area (ha)	% Imperviousness						
Existing Conditions								
A3	5.18	19.3						
A4	3.17	21.5						
	Future Conditions							
A12	3.88	55						
A13	0.85	57						
A14	0.23	10						
A15	2.08	65						
A16	2.26	57						

The proposed development will increase the overall imperviousness of the subject lands. Figure 2 (Appendix B) shows the future proposed stormwater drainage areas and corresponding increased percentage imperviousness. Therefore, it is required to control both quantity and quality of the future stormwater flows to the existing conditions from the subject lands.



It is proposed to construct a central Stormwater Management wet pond facility to provide both quality and quantity control of future stormwater flows from the subject lands (Area A12 & A15), external area A10, A11 located on the east of the subject lands and external area A13 and A14 located on the south-east portion of the site. The SWM facility is designed considering the potential future development on the external area A13 and land use on the areas A10 and A11.

To provide the required stormwater controls, the wet pond facility can provide enough storage volume to reduce the future stormwater flows to the existing allowable capacity of the existing 600mm diameter by-pass storm sewer for 5 year design storm event. The stormwater flows from the drainage area A16 will be uncontrolled and will be ouletting to the 600mm diameter by-pass storm sewer. The major overland flows from the drainage areas A10, A12, A13, A14 and A15 will follow the path shown in the Figure 3 (Appendix B) into the proposed wet pond facility and ultimately to the Outlet A. The major overland flows from the area A11 will follow the Prospect Point Road north, Nigh Road and will ultimately drain into the tributary of Beaver Creek located downstream of the Outlet A. Figure 2152-SCH (Appendix D) represents the schematic stormwater modelling A MIDUSS output file is attached with this report in Appendix D for reference.

Table 2. Impact of Wet Pond Facility on Peak Flows at Outlet A								
Dosign Storm	Peak Flow (L/s)							
Design Storm	Existing	Future with SWM	Change					
5 Year	689	222	-67.8 %					
100 Year	1307	508	-61.1 %					

As shows in above table 2, the proposed wet pond facility can adequately restrict the future flows to below existing levels to the Outlet A that is draining into tributary of the Beaver Creek for the 5 year and 100 year design storm events.

To provide stormwater quality improvements to MECP Enhanced levels (80% TSS removal), a wet pond facility servicing a total drainage area of approximately 17.28 hectares with an overall imperviousness of 40% will be required to provide a permanent pool volume of 1987 m³. The preliminary wet pond can provide approximately 2003 m³ of permanent pool storage. Therefore, there is adequate permanent pool volume to provide 80% TSS removal. Wet pond calculations can be found in Appendix C for reference.

Therefore, the proposed wet pond facility can provide the required stormwater quality and quantity controls in accordance with MECP guidelines.



CONCLUSIONS AND RECOMMENDATIONS

Therefore, based on the above comments and design calculations provided for this site, the following summarizes the servicing for this site.

- 1. The existing 150mm diameter watermain on Prospect Point Road north and 200mm diameter watermain on Ridge Road north the will have sufficient capacity to provide both domestic and fire protection water supply.
- 2. The existing 200mm diameter municipal sanitary sewer on Prospect Point Road north and 200mm diameter municipal sanitary sewer on Ridge Road north will have adequate capacity for the proposed residential development.
- 3. Stormwater quantity and erosion controls can be provided by the proposed wet pond facility to allowable conditions up to and including the 100 year design storm event.
- 4. Stormwater quality protection can be provided to MECP Enhanced Protection (80% TSS removal) by the proposed wet pond facility.

Based on the above information, there exists adequate municipal servicing for this development. We trust the above comments and enclosed calculations are satisfactory for approval. If you have any questions or require additional information, please do not hesitate to contact our office.

Yours very truly,

Prepared by:

K. J. Pocijapati

Keyur Prajapati, E.I.T., November 11, 2022 Encl.

Reviewed by:

Adam Keane, P.Eng.

APPENDICES

APPENDIX A

- Sanitary Sewer Calculations Sanitary Drainage area Plan (i) (ii)

UPPER CANADA CONSU	ULTANTS																
3-30 HANNOVER DRIVE	2																
ST.CATHARINES, ONTA	ARIO, L2W 1A	.3															
DESIGN FLOWS/DENSIT	FIES										SEWER DE	ESIGN					
RESIDENTIAL:	340	LITRES/PER	SON/DAY (AVERAGE DA	ILY FLOW)						PIPE ROUG	HNESS:	0.013	FOR M	IANNING'	S EQUATI	ON
INFILTRATION RATE:	0.18	L/ha (M.O.E	FLOW ALL	OWANCE IS BI	ETWEEN 0.10	0 & 0.28 L/ha)				PIPE SIZES: 1.016 IMPERIAL EQUIVALENT FACTO				FACTOR		
POPULATION / UNIT:	3	PERSONS P	ER UNIT								PERCENT	-ULL:		TOTA	l peak fi	LOW / CAP	ACITY
MUNICIPALITY:	TOWN OF F	ORT ERIE															
PROJECT :	576 RIDGE F	ROAD N			SANIT	ARY SEV	WERI	DESIG	NSHE	ЕТ							
PROJECT NO:	2152											1					
LOC	ATION	1	A	REA		1		AC		ATED PEAK	C FLOW			DESIG	N FLOW		
					Population	-		.		Infiltration	Total	Pipe	Pipe	Pipe	Full Flow	Full Flow	Check
Description	From		Increment	Accumulated	Density	Increment	Total	Peaking	Flow	Flow	Peak Flow	Length	Diameter	Slope	Velocity	Capacity	Percent
	М.Н	М.Н.	(ha)	(ha)	(ppha)			Factor	(L/s)	L/s	(L/s)	(m)	(mm)	(%)	(m/s)	(L/s)	Full
		2012.01.5	0.00	PR	ROSPECT PO	INT ROAD	- HAZE	L ST TO	NIGH R	OAD	0.54		200	0.00	0.7	01.07	2.494
PI	MH 216	MH 215	0.92	0.92	35.00	32	32	4.50	0.57	0.17	0.74		200	0.39	0.7	21.37	3.4%
P2	MH 215	MH 214	1.29	2.21	73.92	95	128	4.50	2.26	0.40	2.66		200	0.45	0.7	22.95	11.6%
	MH 214	MH 213	0.74	2.95	85.04	63	190	4.50	3.37	0.53	3.90		200	0.38	0.7	21.09	18.5%
AI (PROP. LOIS)	MII 012	MIL 010	2.53	5.48	35.00	89	279	4.50	4.94	0.99	5.93		200	0.40	0.7	21.64	27.4%
P4	MH 213	MH 212	3.65	9.13	35.00	128	407	4.50	7.20	1.64	8.85		200	0.40	0.7	21.64	40.9%
P5	MH 212	MH 211	1.22	10.35	35.00	43	521	4.50	7.96	1.80	9.82		200	0.50	0.7	24.19	40.6%
P0 D7	MH 211 MH 210	MH 210	1.48	11.85	48.01	12	521	4.50	9.23	2.15	11.30		200	0.57	0.8	23.83	44.0%
P7	MH 210	MH 209	0.95	12.70	55.00	33	554	4.50	9.81	2.30	12.11		200	0.49	0.7	25.95	50.5%
				NI	CH ROAD - F	PROSPECT	POINT	PD N TO	RIDCE	PD N						<u> </u>	
N1	MH 209	MH 208	0.86	13.62	35.00	30	584	4 50	10.34	2 45	12 79		200	1.60	13	43.28	29.6%
141	WIII 209	MII 200	0.80	15.02	35.00	50	504	4.50	10.54	2.43	12.79		200	1.00	1.5	45.20	27.070
					RIDGE RO	DAD N - HA	ZEL ST	TO NIG	H ROAD							-	
R1	MH 225	MH 224	1.73	1.73	35.00	61	61	4.50	1.07	0.31	1.38		200	0.81	0.9	30.79	4.5%
R2	MH 224	MH 223	1.96	3.69	35.00	69	129	4.50	2.29	0.66	2.95		200	0.52	0.8	24.67	12.0%
A2 (PROP APPT.)			1.06	4.75	228.00	242	371	4.50	6.57	0.86	7.42		200	0.39	0.7	21.37	34.7%
R3	MH 223	MH 222	0.94	5.69	35.00	33	404	4.50	7.15	1.02	8.17		200	0.39	0.7	21.37	38.3%
A3 (PROP MULTI FAM))		2.08	7.77	80.00	166	570	4.50	10.09	1.40	11.49		200	0.28	0.6	18.11	63.4%
R4	MH 222	MH 221	1.74	9.51	35.00	61	631	4.50	11.17	1.71	12.88		200	0.28	0.6	18.11	71.1%
R5	MH 221	MH 220	0.64	10.15	35.00	22	653	4.50	11.56	1.83	13.39		200	0.54	0.8	25.14	53.3%
R6	MH 220	MH 219	1.47	11.62	35.00	51	704	4.50	12.48	2.09	14.57		200	0.39	0.7	21.37	68.2%
R7	MH 219	MH 208	0.97	12.59	35.00	34	738	4.50	13.08	2.27	15.34		200	0.40	0.7	21.64	70.9%
				NIC	GH ROAD - P	ROSPECT I	POINT I	RD N TO	PUMPI	NG ST							
N2	MH 208	MH 207	1.71	27.92	35.00	60	1382	4.50	24.48	5.02	29.50		200	0.92	1.0	32.82	89.9%
N3	MH 207	MH 206	2.04	29.96	35.00	71	1454	4.50	25.74	5.39	31.14		200	1.59	1.3	43.15	72.2%
N4 + Royal Ridge	MH 206	MH 205	4.04	34.00	35.00	141	1595	4.50	28.25	6.12	34.37		250	0.36	0.7	37.22	92.3%
N5	MH 205	MH 204	0.63	34.63	35.00	22	1617	4.50	28.64	6.23	34.87		250	0.38	0.8	38.24	91.2%
N6	MH 204	MH 203	5.21	39.84	35.00	182	1800	4.45	31.48	7.17	38.65		250	0.31	0.7	34.54	111.9%
N7	MH 203	MH 202	1.30	41.14	35.00	46	1845	4.42	32.12	7.40	39.52	L	250	3.02	2.1	107.81	36.7%
N8	MH 202	MH 201	0.23	41.37	35.00	8	1853	4.42	32.23	7.45	39.68		300	0.27	0.7	52.42	75.7%
I	1	1	1	1				1	1	1	1	1	1	1	1	1	1



APPENDIX B

Figure 1 – Existing Storm Drainage Areas Figure 2 - Proposed Storm Drainage Areas Figure 3 – Proposed SWM Facility







APPENDIX C

(i) Proposed Wet Pond Facility Calculations

Upper Can	ada Consult	ants											
3-30 Hanne	over Drive												
St. Cathari	nes, ON, L2	W 1A3											
PROJECT	NAME:	576 RID	GE ROAD	Ν									
PROJECT	NO.:	2152											
					PROPOSE	ED WET PC)ND CAI	CULAT	IONS				
Quality Re	quirements			Qualit	y Orifice	(Outlet Weir	r	Overflow	/ Spillway	Ou	tflow Pipe Or	rifice
Drainag	ge Area (ha) =	17.28		Diameter (m) =	0.150	Perimeter Le	ength (m) =	0.60	Length (m) =	= 2.50	ļ	Diameter (m) =	= 0.450
Enhanc	ced (m3/ha) =	155		Cd =	0.63	Inlet Elev	ation $(m) =$	186.90	Slopes (X:1) =	= 3.00		Cd =	= 0.65
Perm Pool $(m3/ha) = 115$			Invert (m) =	186.30				Invert (m) =	= 187.50		Invert (m) =	= 186.30	
Perm Pool Vol $(m3) = 1,987$											Obvert (m) =	= 186.75	
Act	tive Vol (m3)	691			Pond	Drawdown T	ime Calcul	ation (MOI	E, 2003)		To	p of Pipe (m) =	= 186.85
25mm MC	JE Volume =	1,520			MOE Equa	tion 4.11 Draw	down Coef	ficient 'C2' =	= 1,986				
water	Level Elev. =	180.30	m		MOE Equa	tion 4.11 Draw	1 Drawdow	Ticient C3 =	= 2,393 - 247				
				Avorago	MO	E Equation 4.1	1 Diawuow	II I IIIle (II) -	- 24.1	Moy			
	Increment	Active	Surface	Surface	Increment	Permanent	Active	Onality	Ditch		Overflow	Total	Average
Elevation	Denth	Denth	Area	Area	Volume	Volume	Volume	Orifice	Inlet	Orifice	Spillway	Outflow	Discharge
210 (401011	(m)	(m)	(m2)	(m2)	(m3)	(m3)	(m3)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)
184.30		-2.00	249			0	· · · · · ·	· · · · ·				`	
	0.25			314	78								
184.55		-1.75	379			78							
	0.25			471	118								
184.80		-1.50	564			196							
	0.30			672	201								
185.10	0.20	-1.20	779	005	272	398							
185 40	0.30	0.00	1.022	905	272	660							
165.40	0.30	-0.90	1,052	1 172	351	009							
185 70	0.50	-0.60	1 311	1,172	551	1 021							
105.70	0.30	0.00	1,511	1.471	441	1,021							
186.00		-0.30	1,630	_,		1,462							
	0.30		,	1,803	541	,							
186.30		0.00	1,975			2,003							
186.30	0.00	0.00	2,413	0.510	01.4		0	0.000	0.000	0.000	0.000	0.000	0.011
106.60	0.30	0.00	2 0 1 2	2,712	814		014	0.000	0.000	0.051	0.000	0.000	0.011
186.60	0.20	0.30	3,012	2 2 2 2	095		814	0.022	0.000	0.051	0.000	0.022	0.029
186.00	0.30	0.60	2 550	3,282	985		1 708	0.025	0.000	0.251	0.000	0.025	0.028
180.90	0.30	0.00	3,332	3 833	1 150		1,798	0.055	0.000	0.231	0.000	0.055	0.124
187 20	0.30	0.90	4 115	5,855	1,150		2 948	0.044	0 168	0 355	0.000	0.212	0.124
107.20	0.30	0.90	7,115	4 466	1 340		2,740	0.044	0.100	0.555	0.000	0.212	0 323
187.50	0.50	1.20	4.817	4,400	1,540		4.288	0.052	0.475	0.434	0.000	0.434	0.525
10/100	0.30	1120	.,017	5,102	1,531		.,200	01002	01170	01101	0.000	01121	0.911
187.80		1.50	5,388	- , -	y		5,819	0.058	0.874	0.502	0.886	1.388	
Notes	1. Ouality (Orifice floy	w is the orifi	ice controlling for	r the 24 hour de	tention period a	and uses an	orifice form	ula.				
	2. Pipe Ori	fice flow is	s calcuated t	using an orifice fc	ormula on the pi	pe from the dite	ch inlet to th	ne outlet and	uses the total h	ead on the ori	fice.		
	3. Overflow	v Weir flov	w is calculat	ed using a trapez	ondial weir to c	onvey outflow	for less freq	uent storms	through the em	bankment witl	h an emergency	spillway.	
	4. Total Ou	tflow is ca	lculated by	adding the Overf	low Spillway w	ith the lowest o	of Quality O	rifice plus E	Jitch Inlet or Ma	ax Pipe Orific	e.	1 2	

APPENDIX D

(i) Schematic Stormwater Modelling (ii) MIDUSS output file



MIDUSS output – Existing Conditions

	Output Fil	e (4.7) EX.OUT	opened 2022-11-02 10:34
	Units use 24	a are defined by G = 144 10.000	are MAXDT MAXHYD & DTMIN values
	Licensee:	UPPER CANADA CONSUL	LTANTS
35	COMMENT		
	4 line	(s) of comment	
	BIDGEWAY	R MANAGEMENT PLAN	
	TOWN OF F	ORT ERIE	
	EXISTING	CONDITIONS	
35	COMMENT		
	3 line	(s) of comment	
	25mm STOR	MEVENT	
	*******	**	
2	STORM	1 01 1	The A. Colo Ibas F. Trinks and a
	512 000	Coefficient a	=User;4=Cdn1nr;5=Historic
	6.000	Constant b (mir	n)
	.800	Exponent c	
	. 450	Fraction to peak	2
	240.000	25 035 mm Total	l denth
3	IMPERVIOU	IS I	
	1	Option 1=SCS CN/C;	2=Horton; 3=Green-Ampt; 4=Repeat
	.015	Manning "n"	
	98.000	SCS Curve No or C	
	.518	Initial Abstraction	
4	CATCHMENT		
	1.000	ID No.ó 99999	
	5.960	Area in hectares	A.C.
	1.000	Gradient (%)	
	27.000	Per cent Impervious	3
	199.330	Length (IMPERV)	_
	.000	%Imp. with Zero Dpt	ch 2-Mantan - 2-Cusan Arnt - 4-Danast
	. 250	Manning "n"	z=Horton; 5=Green-Ampt; 4=Repeat
	74.000	SCS Curve No or C	
	.100	Ia/S Coefficient	
	8.924	Initial Abstraction	
	.1	.53 .000	.000 .000 c.m/s
	. 0	.805	.289 C perv/imperv/total
15	ADD RUNOF	Ϋ́F	
	.1	.53 .153	.000 .000 c.m/s
4	3.000	ID No. 6 99999	
	5.180	Area in hectares	
	185.830	Length (PERV) metre	35
	1 000	Gradient (%)	
	1.000		
	19.300	Per cent Impervious Length (IMPERV)	3
	19.300 185.830 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpt	s th
	19.300 19.300 185.830 .000 1	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpt Option 1=SCS CN/C;	s ch 2=Horton; 3=Green-Ampt; 4=Repeat
	19.300 19.300 185.830 .000 1 .250	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpt Option 1=SCS CN/C; Manning "n"	3 :h 2=Horton; 3=Green-Ampt; 4=Repeat
	1.000 19.300 185.830 .000 1 .250 74.000 .100	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpt Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient	s :h 2=Horton; 3=Green-Ampt; 4=Repeat
	19.300 185.830 .000 1 .250 74.000 .100 8.924	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpt Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction	s rh 2=Horton; 3=Green-Ampt; 4=Repeat N
	19.300 185.830 .000 1 .250 74.000 .100 8.924 1	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr;	s ch 2=Horton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv
	19.300 185.830 .000 1.250 74.000 .100 8.924 1 .00	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpt Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153	3 2=Horton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s
15	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 .0 .00 .0000 .000 .000 .000 .000 .000 .0000 .0000 .0000 .00	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpt Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 196 .153 198 .806 F	s 2=Horton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total
15	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .00 ADD RUNOF .00	Per cent Impervious Length (IMPERV) %Tmp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 996 .249	s 2=Horton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s
15	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 .0 ADD RUNOF .0 CATCEMENT 5.000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 96 .249	s ch 2=Horton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s
15 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 .0 .0 CATCIMMENT 5.000 .10	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 96 .249 ID No.6 99999 Dano in Doctron	s ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s
15 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .00 ADD RUNOF .00 CATCIMIENT 5.000 .710 68.800	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 96 .249 ID No.6 99999 Area in hectares Length (PERV) metre	s ch 2=Horton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s
15 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 .0 .0 CATCHMENT 5.000 .710 68.800 1.000	Per cent Impervious Length (IMPERV) %Tmp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 996 .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%)	s 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s
15 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 .0 ADD RUNOF .0 CATCHMENT 5.000 .710 68.800 1.000 29.900	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 96 .249 ID No.ć 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious	s ch 2=Horton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s
15 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 .0 .0 ADD RUNOF .0 CATCHMENT 5.000 .710 68.800 1.000 29.900 68.800 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 .806 F .249 ID No.ó 99999 Area in hectares Length (PERV) metro Gradient (%) Per cent Impervious Length (IMPERV)	s ch 2=Horton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s es
15 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 .0 .0 CATCIMENT 5.000 .710 68.800 1.000 29.900 68.800 .000 .1	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 96 .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CM/C:	s ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s ss sc ch 2=Rorton; 3=Green-Ampt; 4=Repeat
15 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .00 ADD RUNOF .00 CATCEMENT 5.000 .710 68.800 1.000 29.900 68.800 1.000 29.900 68.800 1.250	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 996 .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n"	s ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s ss ch 2=Horton; 3=Green-Ampt; 4=Repeat
15	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 ADD RUNOF 0 CATCHMENT 5.000 .710 68.800 1.000 29.900 68.800 .000 1.250 74.000 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 196 .153 198 .806 F 10 No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C	ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .225 C perv/imperv/total .000 .000 c.m/s es
15 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 .0 .0 ADD RUNNO .0 CATCHMENT 5.000 .710 68.800 1.000 29.900 68.800 .000 1 .250 74.000 .0 .0 .0 .0 .0 .0 .0 .0 .0	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 10 No.6 99999 Area in hectares Length (PERV) metro Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction	ch 2=Horton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s
15 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 .0 .0 CATCIMMENT 5.000 .710 68.800 .000 .1 .250 74.000 .1 .250 74.000 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 198 .806 F 96 .249 ID No.ó 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction	2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .000 .000 c.m/s .000 .000 c.m/s .235
15	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 .0 CATCEMENT 5.000 .00 .710 68.800 .000 1.000 29.900 68.800 .000 1.250 .0000 .000 .000 .000 .0000 .0000 .0000 .0000 .0000 .0000 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 996 .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249	s ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .225 C perv/imperv/total .000 .000 c.m/s ss ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s
15 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 ADD RUNOF 0 CATCHMENT 5.000 .710 68.800 .000 29.900 68.800 .000 1.000 29.900 68.800 .0000 .000 .000 .000 .000 .0000 .000 .000 .000 .000 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 196 .153 198 .806 F 996 .249 10 No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 198 .249 198 .797	<pre>s ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Roctanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .225 C perv/imperv/total .000 .000 c.m/s ss ss ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Roctanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .307 C perv/imperv/total </pre>
15 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 .0 ADD RUNNER 5.000 .710 68.800 .000 CATCHMENT 5.000 .710 68.800 .000 .710 68.800 .000 .710 68.800 .000 .710 68.800 .0000 .000 .000 .000 .0000 .0000 .0000 .0000 .0000 .0	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F .249 ID No.ó 99999 Area in hectares Length (PERV) metro Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 19 .249 19 .247	2=Rortanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s .000 .000 c.m/s
15 4 15 27	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 .0 .0 ADD RUNOF .00 CATCEMMENT 5.000 .710 68.800 .000 .100 68.800 .100 68.800 .100 68.800 .100 68.800 .100 68.800 .100 68.800 .100 68.800 .100 68.800 .100 68.800 .100 68.800 .100 68.800 .100 68.800 .100 .250 .000 .100 .250 .000 .100 .0000 .0000 .0000 .0000 .000 .0000 .0000 .000 .0000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 96 .249 ID No.ó 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 98 .797 F 19 .267 H DISPLAY	2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rortanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .000 .000 c.m/s 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=Green-Ampt; 4=Lin. Reserv .000 .000 c.m/s .000 .000 c.m/s
15 4 15 27	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 .0 ADD RUNOF 68.800 .000 1.000 29.900 68.800 .000 1.250 74.000 .000 1.250 74.000 .000 1.250 .0000 .000 .000 .000 .000 .000 .000 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 996 .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 98 .797 F 19 .267 H DISPLAY 65 Hyeto/Hydrograph	<pre>s s s s s s s s s s s s s s s s s s s</pre>
15 4 15 27	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 ADD RUNOF .710 68.800 .710 68.800 .710 68.800 .000 1.000 29.900 68.800 .000 1.000 29.900 68.800 .000 1.000 .0000 .000 .00000 .000000 .0000 .0000 .0000 .00000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 196 .153 198 .806 F 996 .249 10 No.6 99999 Area in hectares Length (PERV) metre Gradiant (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 98 .797 F 98 .267 H DISPLAY c of Hyeto/Hydrograph .7904515E+03 c.m	<pre>s ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .225 C perv/imperv/total .000 .000 c.m/s ss ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=Green-Ampt; 4=Lin. Reserv .000 .000 c.m/s .000 .000 c.m/s a chosen</pre>
15 4 15 27 9	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 .0 ADD RUNOF .0 .0 CATCHMENT 5.000 .710 68.800 .000 .710 68.800 .000 .250 74.000 .0000 .000 .000 .000 .0000 .000 .000 .0000 .000 .0000 .0000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 96 .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 98 .797 F 19 .267 H DISPLAY conduit Length	ch 2=Horton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s .000 .000 c.m/s .000 .000 c.m/s .307 C perv/imperv/total .000 .000 c.m/s .000 .000 c.m/s .000 .000 c.m/s
15 4 15 27 9	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 .00 ADD RUNOF .00 CATCHMENT 5.000 .710 68.800 .000 .100 8.924 1.00 29.900 68.800 .000 .100 8.924 .00 .000 .100 8.924 .00 .000 .100 8.924 .00 .000 .100 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 .806 F .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 .797 F 19 .267 HD DISLAY 5 of Hyeto/Hydrograpi .7904515E+03 c.m Conduit Length	ch 2=Horton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s .000 .000 c.m/s 2=Rorton; 3=Green-Ampt; 4=Repeat .2=Rorton; 3=Green-Ampt; 4=Lin. Reserv .000 .000 c.m/s .307 C perv/imperv/total .000 .000 c.m/s a chosen
15 4 15 27 9	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 .0 ADD RUNOF 5.000 .000 .100 68.800 .000 .000 1.250 74.000 .000 .000 MDD RUNOF 5.000 .000 MDD RUNOF 5.000 .000 MDD RUNOF 5.000 .000 .000 .000 .000 .000 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 996 .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 98 .797 F 19 .267 H DISPLAY conduit Length No Conduit Lefined Zero lag	ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .225 C perv/imperv/total .000 .000 c.m/s as ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=Green-Ampt; 4=Repeat .000 .000 c.m/s .307 C perv/imperv/total .000 .000 c.m/s a chosen
15 4 15 27 9	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 ADD RUNOF .0 CATCHMENT 5.000 .710 68.800 .000 .000 .000 .000 .000 .000 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 996 .249 1D No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 98 .797 F 19 .267 H DISPLAY of Hyeto/Hydrograph .7904515E+03 c.m Conduit Length No Conduit defined Zero lag Beta weighting fact	<pre>s ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .225 C perv/imperv/total .000 .000 c.m/s ss ss ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; C perv/imperv/total .000 .000 c.m/s a chosen cor </pre>
15 4 15 27 9	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 .0 ADD RUNOF .0 CATCHMENT 5.000 .710 68.800 .000 .710 68.800 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 96 .249 ID No.6 99999 Area in hectares Length (PERV) metro Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 98 .797 F 19 .267 H DISPLAY conduit Length No Conduit Length No Conduit defined Zero lag Beta weighting fact	cor cor cor cor cor cor cor cor
15 4 15 27 9	19.300 19.300 185.830 .000 1 .250 .000 .100 8.924 .00 ADD RUNOF .00 CATCHMENT 5.000 .710 68.800 .00 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 .797 F 19 .267 H DISPLAY i of Hyeto/Hydrograpi .7904515E+03 c.m Conduit Length No Conduit defined Zero lag Beta weighting fact Routing timestep No. of sub-reaches 19 .267	<pre>s ch 2=Horton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s es s ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=Green-Ampt; 4=Repeat .000 .000 c.m/s .307 C perv/imperv/total .000 .000 c.m/s a chosen cor .267 .000 c.m/s </pre>
15 4 15 27 9	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 ADD RUNOF 68.800 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 996 .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .267 H DISPLAY conduit Length No Conduit Length No Conduit Length No Conduit defined Zero Lag Beta weighting fact Routing timestep No. of sub-reaches 19 .267	<pre>s s s s s s s s s s s s s s s s s s s</pre>
15 4 15 27 9	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 ADD RUNOF .0 CATCHMENT 5.000 .710 68.800 .0000 .000 .000 .000 .000 .000 .000 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 996 .249 1D No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 98 .797 F 19 .267 H DISPLAY of Hyde/Hydrograph .7904515E+03 c.m Conduit Length No Conduit defined Zero lag Beta weighting fact Routing timestep No. of sub-reaches	<pre>s ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .225 C perv/imperv/total .000 .000 c.m/s s s ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s a chosen cor .267 .000 c.m/s </pre>
15 4 15 27 9 17	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 .00 ADD RUNOF .00 .00 CATCHMENT 5.000 .710 68.800 .000 .710 68.800 .0000 .000 .0000 .0000 .0000 .00000 .0000 .0000 .00000 .00000 .00000 .0000000 .00000000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 96 .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 98 .797 F 19 .247 W DISPLAY cof Hyeto/Hydrograph 5.7904515E+03 c.m Conduit Length No Conduit defined Zero lag Beta weighting fact Routing timestep No. of sub-reaches 19 .267 thom Node No. 19 .267	cor 2=Rotanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s .000 .000 c.m/s .000 .000 c.m/s .235 .235 .235 .235 .235 .235 .235 .235 .235 .235 .247 .267 .267 c.m/s
15 4 15 27 9 17 14	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 .00 ADD RUNNOF .00 CATCHMENT 5.000 .710 68.800 .001 29.900 68.800 .0000 .000 .000 .000 .000 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 96 .249 ID No.6 99999 Area in hectares Length (PERV) metro Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 19 .267 HD ISPLAY i flyeto/Hydrograpl .7904515E+03 c.m Conduit Length No Conduit defined Zero Lag Beta weighting fact Routing timestep No. of sub-reaches 19 .267 thon Node No. 19 .267 thon Node No.	A 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rortanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s .000 .000 c.m/s .307 C perv/imperv/total .000 .000 c.m/s .267 .000 c.m/s .267 .267 c.m/s
15 4 15 27 9 17 14 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .0 ADD RUNOF 68.800 .000 .710 68.800 .0000 .000 .0000 .0000 .0000 .0000 .0000 .0000 .0000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 996 .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .267 H DISPLAY sof Hyeto/Hydrograph .7904515E+03 c.m Conduit Length No conduit defined Zero Lag Beta weighting fact Routing timestep No. of sub-reaches 19 .267 tion Node No. 19 .267 to Compare the solution of the solution Sconduit Length No conduit defined Zero Lag Beta weighting fact Routing timestep No. of sub-reaches 19 .267 tion Node No.	<pre>s s s s s s s s s s s s s s s s s s s</pre>
15 4 15 27 9 17 14 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .00 ADD RUNOF .00 .710 68.800 .710 68.800 .710 68.800 .710 68.800 .710 68.800 .0000 .000 .000 .000 .000 .000	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 996 .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 98 .797 F 98 .797 F 19 .267 H DISPLAY of Hyeto/Hydrograph .7904515E+03 c.m Conduit Length No Conduit defined Zero lag Beta weighting fact Routing timestep No. of sub-reaches 19 .267 Holos D- 267 Holos Node No. 19 .267 Holos Node No. 19 .267 Holos Node No. 19 .267	<pre>s ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Roctanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s s s ch 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rorton; 3=Green-Ampt; 4=Repeat .000 .000 c.m/s .000 .000 c.m/s .000 .000 c.m/s .267 .000 c.m/s .267 .000 c.m/s .267 .267 c.m/s </pre>
15 4 15 27 9 17 14 4	19.300 19.300 185.830 .000 1 .250 74.000 .100 8.924 1 .00 ADD RUNOF .00 .710 68.800 .0000 .0000 .000 .000 .0000 .0000 .0000 .0000 .0000 .0	Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 96 .153 98 .806 F 96 .249 ID No.6 99999 Area in hectares Length (PERV) metre Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpi Option 1=SCS CN/C; Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstraction Option 1=Trianglr; 19 .249 19 .249 19 .247 H DISPLAY of Hyeto/Hydrograph sca Curve No. of sub-reaches 19 .267 thon Node No. 19 .267	A 2=Rorton; 3=Green-Ampt; 4=Repeat 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .000 c.m/s .235 C perv/imperv/total .000 .000 c.m/s .245 .000 .000 c.m/s .256 .257 .000 c.m/s .267 .000 c.m/s .267 .267 c.m/s

Per cent Impervious Length (IMPERV) %Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" SCS Curve No or C La(6 Coefficient 15.900 169.120 .000 .250 74.000 Ia/S Coefficient .100 8 924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 1 .064 .267 c.m/s C perv/imperv/total .000 .807 .267 .211 .098 ADD RUNOFF 15 .267 c.m/s .064 .064 .267 4 CATCHMENT ID No.ó 99999 4.000 3.170 Area in hectares 145.370 Length (PERV) metres Gradient (%) Per cent Impervious Length (IMPERV) 21.500 145.370 .000 %Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" 1 . 250 74.000 SCS Curve No or C .100 8.924 Ia/S Coefficient Initial Abstraction
 Option
 1=Trianglr;
 2=Rectanglr;
 3=SWM HYD;
 4=Lin. Reserv

 .064
 .064
 .267
 c.m/s

 .098
 .803
 .250
 C perv/imperv/total
 1 15 ADD RUNOFF .064 CATCHMENT .128 .267 .267 c.m/s 4 6.000 ID No.ó 99999 ID NO.O 99999 Area in hectares Length (PERV) metres .290 Gradient (%) Per cent Impervious Length (IMPERV) 1.000 41.200 43.970 %Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat .000 1 .250 Manning "n" SCS Curve No or C Ia/S Coefficient 74.000 .100 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 1 .012 .267 .267 c.m/s .128 .797 C perv/imperv/total .098 .386 ADD RUNOFF .012 15 .137 .267 .267 c.m/s 27 HYDROGRAPH DISPLAY 5 is # of Hyeto/Hydrograph chosen 5 Volume = .4530229E+03 c.m 9 ROUTE Conduit Length .000 .000 No Conduit defined Zero lag Beta weighting factor .000 .000 Routing timestep No. of sub-reaches .012 .137 .000 0 .137 .267 c.m/s 17 COMBINE Junction Node No. .012 .137 1 .137 .404 c.m/s CONFLUENCE 18 1 Junction Node No. .012 .404 .137 .000 c.m/s START 1=Zero; 2=Define 14 1 35 COMMENT 3 line(s) of comment 5-YEAR STORM EVENT 2 STORM 1=Chicago;2=Huff;3=User;4=Cdn1hr;5=Historic 747.930 Coefficient a 6.800 Constant b (min) .768 Exponent с Fraction to peak r Duration ó 240 min 40.415 mm Total depth . 400 180.000 IMPERVIOUS 3 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" 1 .015 98.000 SCS Curve No or C .100 Ia/S Coefficient Initial Abstraction 4 CATCHMENT 1.000 ID No.ó 99999 5.960 Area in hectares 199.330 Length (PERV) metres 1.000 Gradient (%) Per cent Impervious 199.330 Length (IMPERV) .000 %Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat 1 .250 Manning "n" SCS Curve No or C 74.000 Ia/S Coefficient .100 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 1 .137 .258 .000 .000 c.m/s C perv/imperv/total .868 .383 203 ADD RUNOFF .258 15 258 137 .000 c.m/s

4	CATCHMENT				
	3.000	ID No.o	99999 bootaroo		
	185.830	Length	(PERV) metro	es	
	1.000	Gradient	= (%)		
	19.300	Per cent	: Imperviou	s	
	185.830	Length	(IMPERV)		
	.000	Simp. Wi	escs cw/c.	2=Horton	· 3=Green-Ampt · 4=Penest
	.250	Manning	"n"	2-1101 001	, J-Green Ampe, 4-Repeat
	74.000	SCS Curv	ve No or C		
	.100	Ia/S Coe	efficient		
	8.924	Initial	Abstractio	n .	
	1	Option 1	L=Trianglr;	2=Rectan	glr; 3=SWM HYD; 4=Lin. Reserv
	.1	03	.258	331	.000 C.m/s C peru/imperu/total
15	ADD RUNOF	F			o pert, impert, codar
	.1	63	.421	.137	.000 c.m/s
4	CATCHMENT				
	5.000	ID No.o	99999 bootaroo		
	68 800	Length	(PERV) metro	89	
	1.000	Gradient	: (%)		
	29.900	Per cent	: Imperviou	s	
	68.800	Length	(IMPERV)		
	.000	%Imp. wi	th Zero Dp	th 2-Wenter	· 3-Crean Arnt · A-Danast
	250	Manning	"n"	Z=HOI LON	; 3=Green-Ampt; 4=Repeat
	74.000	SCS Curv	7e No or C		
	.100	Ia/S Coe	efficient		
	8.924	Initial	Abstraction	n	
	1	Option 1	I=Triangir;	2=Rectan	gIr; 3=SWM HYD; 4=Lin. Reserv
	.0	03	860	400	C perv/imperv/total
15	ADD RUNOF	F			o pert, impert, codar
	.0	35	.451	.137	.000 c.m/s
27	HYDROGRAP	H DISPLAY	[/*****		
	5 is #	of Hyeto	/Hydrograp	n chosen	
9	ROUTE =	.1/2010	55£+04 C.m		
-	.000	Conduit	Length		
	.000	No Condu	it defined		
	.000	Zero laç	J		
	.000	Beta wei	ghting fac	tor	
	.000	No of s	ub-reaches		
	Ŭ.0	35	.451	.451	.000 c.m/s
17	COMBINE				
	1 June	tion Node	No.		
14	.0	35	.451	.451	.451 c.m/s
14	1 1=Ze	ro: 2=Def	fine		
4	CATCHMENT				
	2.000	ID No.ó	99999		
	4.290	Area in	hectares		
	1 000	Length	(PERV) metro	es	
	15.900	Per cent	. (°) Imperviou	s	
	169.120	Length	(IMPERV)		
	.000	%Imp. wi	th Zero Dp	th	
	1	Option 1	L=SCS CN/C;	2=Horton	; 3=Green-Ampt; 4=Repeat
	.250	Manning	"n"		
	.100	Ia/S Coe	e no or c		
	8.924	Initial	Abstraction	n	
	1	Option 1	l=Trianglr;	2=Rectan	glr; 3=SWM HYD; 4=Lin. Reserv
	.1	12	.000	.451	.451 c.m/s C popu/impopu/total
15	ADD RUNOF	F	. 8 6 0	. 508	c perv/imperv/cocar
	.1	12	.112	.451	.451 c.m/s
4	CATCHMENT				
	4.000	ID No.ó	99999		
	3.170 145.370	Area in Length	(PERV) motor	~~	
	1.000	Dengen	(I DI(V) Meci		
		Gradient	: (%)	65	
	21.500	Gradient Per cent	: (%) : Imperviou:	s	
	21.500 145.370	Gradient Per cent Length	: (%) : Imperviou: (IMPERV)	s	
	21.500 145.370 .000	Gradient Per cent Length %Imp. wi	: (%) : Imperviou: (IMPERV) ith Zero Dp	s th 2-Worton	· 2-Croon-Ampt. 4-Ronart
	21.500 145.370 .000 1 .250	Gradient Per cent Length %Imp. wi Option 1 Manning	: (%) : Imperviou: (IMPERV) ith Zero Dp L=SCS CN/C; "n"	s th 2=Horton	; 3=Green-Ampt; 4=Repeat
	21.500 145.370 .000 1 .250 74.000	Gradient Per cent Length %Imp. wi Option I Manning SCS Curv	: (%) : Impervious (IMPERV) ith Zero Dp L=SCS CN/C; "n" ye No or C	s th 2=Horton	; 3=Green-Ampt; 4=Repeat
	21.500 145.370 .000 1 .250 74.000 .100	Gradient Per cent Length %Imp. wi Option 1 Manning SCS Curv Ia/S Coe	: (%) : Impervious (IMPERV) ith Zero Dp L=SCS CN/C; "n" ze No or C efficient	s th 2=Horton	; 3=Green-Ampt; 4=Repeat
	21.500 145.370 .000 1 .250 74.000 .100 8.924	Gradient Per cent Length %Imp. wi Option 1 Manning SCS Curv Ia/S Coe Initial	<pre>(%) Impervious Im</pre>	s th 2=Horton	; 3=Green-Ampt; 4=Repeat
	21.500 145.370 .000 1 .250 74.000 .100 8.924 1	Gradient Per cent Length %Imp. wi Option 1 Manning SCS Curv Ia/S Coe Initial Option 1	<pre>(%) Impervious Im</pre>	s th 2=Horton 2=Rectan	; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv
	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .1	Gradient Per cent Length %Imp. wi Option J Manning SCS Curv Ia/S Coe Initial Option J 10 03	<pre>: (%) : Impervious (IMPERV) ith Zero Dp L=SCS CN/C; "n" re No or C fficient Abstraction L=Trianglr; .112 .853</pre>	s th 2=Horton 2=Rectan .451 .343	; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C. perv/inperv/total
15	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .1 .2 ADD RUNOF	Gradient Per cent Length %Imp. wi Option 1 Manning SCS Curv Ia/S Coe Initial Option 1 10 03 F	<pre>: (%) : Imperviou: (IMPERV) ith Zero Dp L=SCS CN/C; "n" ve No or C afficient Abstraction L=Trianglr; .112 .853</pre>	s th 2=Horton 2=Rectan .451 .343	; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total
15	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .1 .2 ADD RUNOF .1	Gradient Per cent & Imp. wi Option 1 Manning SCS Curv Ia/S Coc Initial Option 1 10 03 F 10	<pre>: (%) : Impervious (IMPERV) ith Zero Dp =SCS CN/C; "n" ve No or C afficient Abstraction =Trianglr; .112 .853 .222</pre>	s 2=Horton 2=Rectan .451 .343	; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total .451 c.m/s
15	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .1 .2 ADD RUNOF .1 CATCEMENT 6.000	Gradient Per cent Length %Imp. wi Option 1 Manning SCS Curv Ia/S Coc Initial Option 1 10 03 F	<pre>2 (%) 2 (MPERV) (IMPERV) th Zero Dp =SCS CN/C; "n" re No or C afficient Abstraction =Trianglr; .112 .853 .222 aaaoo</pre>	s 2=Horton 2=Rectan .451 .343 .451	; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total .451 c.m/s
15	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .2 ADD RUNOF .1 CATCHMENT 6.000 .200	Gradient Per cent Length %Imp. wi Option 1 Manning SCS Curr Ia/S Coe Initial Option 1 10 03 F 10 ID No.ó	<pre>: (%) : Imperviou: (IMPERV) th Zero Dp =SCS CN/C; "n" re No or C afficient Abstraction =Trianglr; .112 .853 .222 99999 bectarcc</pre>	s th 2=Horton 2=Rectan .451 .343 .451	; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total .451 c.m/s
15 4	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .1 .2ADD RUNOF ADD RUNOF ADD RUNOF 4D00 .290 43.970	Gradient Per cent Length %Imp. wi Option J Manning SCS Curv Ia/S Coe Initial Option J 10 03 F 10 ID No.ó Area in Length	<pre>2 (%) 1 Imperviou: (IMPERV) th Zero Dpy =SCS CN/C; "n" escs CN/C; "n" abstraction =Trianglr; .112 .853 .222 99999 hectares (PERV) metric</pre>	s th 2=Horton 2=Rectan .451 .343 .451	; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total .451 c.m/s
15 4	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .1 .2 ADD RUNOF .1 CATCHMENT 6.000 .290 43.970 1.000	Gradient Per cent Length %Imp. wi Option 1 Manning SCS Curv Ia/S Coc Initial 00 03 F 10 ID No.ó Area in Length Gradient	<pre>c (%) c (M) c (MPERV) (IMPERV) th Zero Dp =SCS CN/C; "n" re No or C officient Abstraction L=Trianglr; .112 .853 .222 99999 hectares (%)</pre>	s th 2=Horton 2=Rectan .451 .343 .451	; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total .451 c.m/s
15	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .2 ADD RUNOF CATCHMENT 6.000 .290 43.970 1.000 41.200	Gradient Per cent Length %Imp. wi Option 1 Manning SCS Curr Initial Option 1 10 03 F 10 10 II No.66 Area in Length Gradient Per cent	<pre>2 (%) 2 (mperviou: (IMPERV) th Zero Dp: =SCS CN/C; "n" Abstraction =Trianglr; .112 .853 .222 99999 hectares (PERV) metric 2 (%) Imperviou: 1 (more viou: 2 (more viou: 2 (more viou: 2 (more viou: 3 (more viou: 3</pre>	s th 2=Horton 2=Rectan .451 .343 .451 es s	; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total .451 c.m/s
15 4	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .2 ADD RUNOF .1 CATCHMENT 6.000 .290 43.970 1.000 43.970	Gradient Per cent Length % Imp. wi Option J Manning SCS Curv Ia/S Coc Initial Option J 10 03 F 10 ID No.6 Area in Length Gradient Per cent Length	<pre>2 (%) 1 Imperviou: (IMPERV) th Zero Dp =SCS CN/C; "n" e No or C sfficient Abstraction =Trianglr; .112 .853 .222 99999 hectares (PERV) metric 1 Imperviou: (IMPERV)</pre>	s th 2=Horton 2=Rectan .451 .343 .451 es	; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total .451 c.m/s
15 4	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .1 .2 ADD RUNOF .1 CATCHMENT 6.000 .290 43.970 1.000 43.970 .000	Gradient Per cent Length %Imp. wi Option 1 Manning SCS Curr Ia/S Coc Initial Option 1 0 3 F 10 ID No.ó Area in Length Gradient Per cent Length %Imp. wi Option 2 Content %Imp. wi	<pre>2 (%) 2 (mperviou: (IMPERV) th Zero Dp =SCS CN/C; "n" ro C officient Abstraction =Trianglr; .112 .853 .222 99999 hectares (%) 2 Imperviou: (MPERV) th Zero Dp =SCS CN/C;</pre>	s th 2=Horton n 2=Rectan .451 .343 .451 es s th 2=Horton	; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total .451 c.m/s : 3=Green-Ampt: 4=Percet
15 4	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .1 .2 ADD RUNOF .1 CATCHMENT 6.000 .290 43.970 1.000 41.200 43.970 .000 1 .250	Gradient Per cent Length %Imp. wi Option J 10 03 TIA/S Coc Initial Option J 10 03 TD No.ć Area in Length Gradient Per cent Length %Imp. wi Option J Mo.é	<pre>c (%) c (MPERV) c (MPERV) (IMPERV) th Zero Dp =SCS CN/C; "n" re No or C fficient Abstraction L=Trianglr; .112 .853 .222 99999 hettares (PERV) metric (%) c Imperviou: (IMPERV) th Zero Dp =SCS CN/C; "n"</pre>	s th 2=Horton 2=Rectan .451 .343 .451 es s th 2=Horton	<pre>; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s .451 c.m/s ; 3=Green-Ampt; 4=Repeat</pre>
15	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .2 ADD RUNOF .1 CATCEMENT 6.000 .290 43.970 1.000 41.200 43.970 .250 74.000	Gradient Per cent Length Manning SCS Curv Initial Option 1 10 03 F 10 ID No.ó Area in Length Gradient Per cent Length Gradient Strey for Strey for Strey for Continent Strey for Strey for Continent Strey for Strey for	<pre>2 (%) 2 (mperviou (IMPERV) th Zero Dp =SCS CN/C; "n" Abstraction =Trianglr; .112 .853 .222 99999 hectares (PERV) metro c (%) c Imperviou (IMPERV) th Zero Dp =SCS CN/C; "n" e No or C</pre>	s th 2=Horton 2=Rectan .451 .343 .451 es s th 2=Horton	<pre>; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total .451 c.m/s ; 3=Green-Ampt; 4=Repeat</pre>
15	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .1 CATCHMENT 6.000 .290 43.970 1.000 41.200 43.970 .000 1 .250 74.000 .100	Gradient Per cent Length Voption J Manning SCS Curv Ia/S Coc Initial Option J 10 03 F 10 ID No.6 Area in Length Gradient Per cent Length Voption J Gradient Per cent Length SCS Curv I.D No.6 Area in Length Of Coc Scatter Manning SCS Curv I.A/S Coc	<pre>2 (%) 2 (mperviou: (IMPERV) th Zero Dp =SCS CN/C; "n" Pre No or C afficient Abstractio: =Trianglr; .112 .853 .222 99999 hectares (PERV) metr: 2 (%) 2 Imperviou: (IMPERV) th Zero Dp =SCS CN/C; "n" re No or C afficient</pre>	s th 2=Horton .451 .343 .451 .451 es s th 2=Horton	; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total .451 c.m/s ; 3=Green-Ampt; 4=Repeat
15 4	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .1 CATCHMENT .1 CATCHMENT .1 CATCHMENT .1 CATCHMENT .1 .290 43.970 .000 43.970 .250 74.000 .250 .100 .250 .250 .100 .250 .100 .250 .250 .100 .250 .250 .100 .250 .100 .250 .100 .250 .100 .250 .100 .250 .100 .250 .100 .250 .100 .250 .100 .250 .100 .250 .100 .250 .100 .250 .100 .250 .100 .250 .100 .000 .250 .000 .250 .000 .000 .250 .000 .000 .250 .000 .000 .250 .000 .000 .250 .000 .000 .250 .000 .000 .250 .000 .000 .250 .0000 .000 .000 .000 .000 .000 .000 .000 .000	Gradient Per cent Length %Imp. wi Option J Manning SCS Curr Ia/S Coc Initial Option J 10 03 F 10 ID No.ó Area in Length Gradient Per cent Length %Imp. wi Option J Manning SCS Curr I Length %Imp. wi	<pre>(%) (IMPERV) (IMPERV) (IMPERV) th Zero Dp(=SCS CN/C; "n" re No or C fficient Abstraction =Trianglr; .112 .853 .222 99999 hectares (%) ZMPERV) metric (%) TMPErViou th Zero Dp =SCS CN/C; "n" re No or C fficient Abstraction </pre>	s th 2=Horton .451 .343 .451 es s th 2=Horton	<pre>; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total .451 c.m/s ; 3=Green-Ampt; 4=Repeat</pre>
15 4	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .1 CATCEMMENT 6.000 .290 43.970 1.000 41.200 41.200 1.000 1.250 74.000 1.250 74.000 1.250 74.000 1.250 74.000 1.250 74.000 1.250 74.000 1.250 1.250 74.000 1.250	Gradient Per cent Length %Imp. wi Option J 10 03 TD No.ć Area in Length Gradient Per cent Length %Imp. wi Option J 10 03 TD No.ć Area in Length Gradient Per cent Length SCS Curr Ia/S Coc Initial Option J 21	<pre>2 (%) 2 (modeling) 2 (m</pre>	s th 2=Horton .451 .343 .451 es s th 2=Horton n 2=Rectan 451	<pre>; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s .451 c.m/s ; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv 451 c.m/s</pre>
15 4	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .2 ADD RUNOF .1 .2 ADD RUNOF .1 .2 ADD RUNOF .2 .0 .2 .0 .2 .0 .2 .0 .2 .0 .2 .0 .2 .0 .2 .0 .2 .0 .2 .0 .2 .0 .2 .2 .0 .2 .0 .2 .2 .2 .0 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	Gradient Per cent Length Voption J Manning SCS Curv In/S Corv Initial Option J 10 03 F ID No.6 Area in Length Gradient Per cent Length Varea in SCS Curv In 10 03 F 10 No.6 Area in Length Varea in Cratient Per cent Langth J Manning SCS Curv In In SCS Curv In Scs Curv In 10 03 F 10 No.6 Area in Length Cratient Per cent Length J Manning SCS Curv In 10 03 CS Curv In 10 03 CS Curv In 10 03 CS Curv In 10 Coption J 10 03 CS Curv In 10 Coption J 10 Coption J 20 Coption Coption J 20 Coption J 20 Coption J 20 Coption J 20 Coption J 20 Coption J 20 Coption Coption J 20 Coption J 20	<pre>2 (%) 2 (mperviou (IMPERV) th Zero Dp =SCS CN/C; "n" Abstraction =Trianglr; .112 .853 .222 99999 hectares (PERV) metro: 2 (%) th Zero Dp =SCS CN/C; "n" re No or C sfficient Abstraction =Trianglr; .222 .223 .224 .224 .225 .255</pre>	s th 2=Horton .451 .343 .451 es s th 2=Horton n 2=Rectan .451 .474	<pre>; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s c perv/imperv/total .451 c.m/s ; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total</pre>
15 4 15	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .1 CATCHMENT 6.000 .290 43.970 1.000 41.200 43.970 .000 1.000 43.970 .000 1.250 74.000 .100 8.924 1 .250 74.000 .220 .200 .220 .200 .200 .200 .200	Gradient Per cent Length %Imp. wi Option J Manning SCS Curr Ia/S Coc Initial Option J 10 03 F 10 ID No.6 Area in Length Gradient Per cent Length %Imp. wi Option J Manning SCS Curr Ia/S Coc Initial Option J Manning F SCS Curr Ia/S Coc Initial Option J Manning SCS Curr Ia/S Coc Initial Option J Manning SCS Curr Ia/S Coc Initial Manning SCS Curr Ia/S Coc Initial Manning SCS Curr Ia/S Coc Initial Manning SCS Curr Ia/S Coc Initial Option J Manning SCS Curr Ia/S Coc Initial Manning SCS Curr Ia/S Coc Initial Manning SCS Curr Ia/S Coc Initial Manning SCS Curr Ia/S Coc Initial SC Soc Initial Manning SCS Curr Ia/S Coc Initial Manning SCS Curr Ia/S Coc Initial Manning SCS Curr Ia/S Coc Initial SC Soc Initial SC Soc Inital SC So	<pre>2 (%) 2 (mperviou: (IMPERV) th Zero Dp =SCS CN/C; "n" Abstraction =Trianglr; .112 .853 .222 99999 hectares (PERV) metric 2 (%) 2 Imperviou: (IMPERV) th Zero Dp =SCS CN/C; "n" re No or C officient Abstraction =Trianglr; .222 .861</pre>	s th 2=Horton .451 .451 .451 .451 es s th 2=Horton n .451 .474	<pre>; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s c perv/imperv/total .451 c.m/s ; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total</pre>
15 4 15	21.500 145.370 .000 1 .250 74.000 .100 8.924 1 .1 .2 ADD RUNOF .1 CATCHMENT .1 CATCHMENT .1 CATCHMENT .1 CATCHMENT .1 .290 43.970 .290 43.970 .000 .250 .000 .250 .100 .250 .000 .000 .250 .0000 .0000 .000 .000 .000 .000 .000 .000 .0000 .000	Gradient Per cent Length %Imp. wi Option J Manning SCS Curr Ia/S Coc Initial Option J 10 03 F 10 ID No.ó Area in Length %Imp. wi Option J %Imp. wi Option J %Imp. wi Option J %Imp. wi Option J %Imp. wi Option J 21 03 F F	<pre>(%) : (IMPERV) (IMPERV) th Zero Dp/ =SCS CN/C; "n" cfficient Abstraction =Trianglr; .112 .853 .222 99999 hectares (%) cImperviou: (MPERV) th Zero Dp/ =SCS CN/C; "n" re No or C sfficient Abstraction =Trianglr; .222 .861 .238</pre>	s th 2=Horton .451 .343 .451 .451 es s th 2=Horton n 2=Rectan .451 .474 .451	<pre>; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total .451 c.m/s ; 3=Green-Ampt; 4=Repeat glr; 3=SWM HYD; 4=Lin. Reserv .451 c.m/s C perv/imperv/total .451 c.m/s</pre>

is # of Hyeto/Hydrograph chosen Volume = .1028298E+04 c.m 5 9 ROUTE Conduit Length .000 No Conduit defined Beta weighting fac .000 Routing timestep 0 No. of sub-reaches .021 .238 COMBINE Zero lag Beta weighting factor 000 .238 .451 c.m/s 17 1 Junction Node No. .238 .238 .689 c.m/s .021 CONFLUENCE 18 Junction Node No. .689 .238 .000 c.m/s .021 14 START 1=Zero; 2=Define COMMENT 35 line(s) of comment 3 100-YEAR STORM EVENT ****** 2 STORM 1 1=Chicago:2=Huff:3=User:4=Cdn1hr:5=Historic Coefficient a Constant b Exponent c 1083.550 (min) 6.618 .735 Fraction to peak r Duration ó 240 min . 450 240.000 75.636 mm Total depth 3 IMPERVIOUS Option 1=SCS CN/C: 2=Horton: 3=Green-Ampt: 4=Repeat 1 .015 Manning "n" SCS Curve No or C 98.000 .100 Ia/S Coefficient Initial Abstraction CATCHMENT 4 ID No.ó 99999 1.000 Area in hectares Length (PERV) metres 5.960 199.330 1 000 Gradient (%) Per cent Impervious 27.000 199.330 Length (IMPERV) .000 Simp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat 1 . 250 Manning "n" SCS Curve No or C Ia/S Coefficient 74.000 .100 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 c.m/s C perv/imperv/total .000 .469 .238 .377 .910 .521 ADD RUNOFF .469 15 .469 .238 .000 c.m/s 4 CATCHMENT ID No.ó 99999 3.000 5.180 Area in hectares 185.830 1.000 19.300 Length (PERV) metres Gradient (%) Per cent Impervious Length (IMPERV) 185.830 Sengui (INFERV) %Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" SCS Curve No or C .000 1 . 250 74.000 Ia/S Coefficient Initial Abstraction 100 8.924 Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 1 .311 .377 .469 .238 .000 c.m/s C perv/imperv/total 15 ADD RUNOFF .311 CATCHMENT .780 .238 .000 c.m/s 4 5.000 ID No.6 99999 .710 Area in hectares Length (PERV) metres 1.000 29.900 Gradient (%) Per cent Impervious 68.800 Length (IMPERV) Simp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat .000 1 . 250 Manning "n" SCS Curve No or C Ia/S Coefficient 74.000 .100 8 924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .068 .780 .238 .000 c.m/s C perv/imperv/total .377 .916 .538 ADD RUNOFF .068 15 .841 .000 c.m/s .238 HYDROGRAPH DISPLAY 5 is # of Hyeto/Hydrograph chosen Volume = .4513936E+04 c.m 27 9 ROUTE Conduit Length .000 .000 No Conduit defined .000 Zero lag Beta weighting factor .000 .000 Routing timestep No. of sub-reaches 0 .068 .841 .841 .000 c.m/s 17 COMBINE Junction Node No. 1 .068 .841 .841 .841 c.m/s 14 START 1 1=Zero; 2=Define

4	CATCHMENT	
	2.000	ID No.ó 99999
	4.290	Area in hectares
	169.120	Length (PERV) metres
	1.000	Gradient (%)
	15.900	Per cent Impervious
	169.120	Length (IMPERV)
	.000	%Imp. with Zero Dpth
	1	Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
	. 250	Manning "n"
	74.000	SCS Curve No or C
	.100	Ia/S Coefficient
	8.924	Initial Abstraction
	1	Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv
	. 22	25 .000 .841 .841 c.m/s
	. 31	77 .910 .462 C perv/imperv/total
15	ADD RUNOFI	2
	. 22	25 .225 .841 .841 c.m/s
4	CATCHMENT	
	4.000	ID No.ó 99999
	3.170	Area in hectares
	145.370	Length (PERV) metres
	1.000	Gradient (%)
	21.500	Per cent Impervious
	145.370	Length (IMPERV)
	.000	%Imp. with Zero Dpth
	1	Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
	. 250	Manning "n"
	74.000	SCS Curve No or C
	.100	Ia/S Coefficient
	8.924	Initial Abstraction
	1	Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv
	. 21	10 .225 .841 .841 c.m/s
	. 31	77 .914 .493 C perv/imperv/total
15	ADD RUNOFI	7
	. 21	10 .434 .841 .841 c.m/s

		6.000	ID No.	.ó 99999					
		.290	Area i	in hectares					
		43.970	Length	n (PERV) me	tres				
		1.000	Gradie	ent (%)					
		41.200	Per ce	ent Impervi	ous				
		43.970	Length	h (IMPERV)					
		.000	%Imp.	with Zero	Dpth				
		1	Optior	n 1=SCS CN/	C; 2=Horto	on; 3=Gree	an-Ampt; 4=	-Repeat	
Repeat		.250	Mannir	ng "n"					
		74.000	SCS Cu	irve No or	с				
		.100	Ia/S C	Coefficient	:				
		8.924	Initia	al Abstract	ion				
		1	Optior	n 1=Triangl	r; 2=Recta	anglr; 3=S	WM HYD; 4=	Lin. R	eserv
Lin. Reserv			.039	.434	.841	.841	c.m/s		
			376	.913	.598	C perv/	'imperv/to	cal	
al	15	ADD RUNC	FF						
			039	.466	.841	.841	c.m/s		
	27	HYDROGRA	APH DISPI	LAY					
		5 is	# of Hye	eto/Hydrogr	aph chosen	1			
		Volume	= .2810	0979E+04 c.	m				
	9	ROUTE							
		.000	Condui	it Length					
		.000	No Cor	nduit defin	led				
		.000	Zero 1	Lag					
		.000	Beta w	weighting f	actor				
		.000	Routir	ng timestep)				
Repeat		0	No. of	f sub-reach	les				
			039	.466	.466	.841	c.m/s		
	17	COMBINE							
		1 Jur	action No	ode No.					
			039	.466	.466	1.307	c.m/s		
Lin. Reserv	18	CONFLUEN	ICE						
		1 Jur	action No	ode No.					
al			039	1.307	.466	.000	c.m/s		
	20	MANUAL							

4 CATCHMENT

MIDUSS output – Future Conditions

	Output 1	File (4.7)) FUT.OUT	open	ed 2022-11-02 10:43	
	0nits us 24	144 :	erined by G 10.000	are M	AXDT MAXHYD & DTMIN valu	es
	License	e: UPPER (CANADA CONS	ULTANTS		
35	COMMENT 4 lin	ne(s) of (comment			
	STORMWA	TER MANAGI	EMENT PLAN			
	RIDGEWAY	HIGHSCH	DOL			
	TOWN OF FUTURE (FORT ERIS	≤ S WITHOUT S	WM		
35	COMMENT					
	3 lin	ne(s) of (comment			
	25mm ST	ORM EVENT				
_	******	****				
2	STORM 1	1=Chica	ago:2=Huff:	3=User:4	=Cdn1hr:5=Historic	
	512.000	Coeffic	cient a	,-		
	6.000	Constan	ntb (m	uin)		
	. 800	Fractio	nt c on to peak	r		
	240.000	Duratio	on ó 240 m	in		
2	TMDEDUT	25.035 I	nm Tota	l depth		
5	1	Option	1=SCS CN/C	; 2=Hort	on; 3=Green-Ampt; 4=Repe	at
	.015	Manning	g "n"			
	98.000	SCS Cui Ta/S Cu	rve No or C Defficient			
	.518	Initia	l Abstracti	on		
4	CATCHMEN	NT TO No.	- 00000			
	6.540	Area in	hectares			
	208.820	Length	(PERV) met	res		
	1.000	Gradie:	nt (%) nt Impervio	110		
	208.820	Length	(IMPERV)	43		
	.000	%Imp. v	with Zero D	pth		
	1 . 250	Option	1=SCS CN/C מ"ת"	; 2=Hort	on; 3=Green-Ampt; 4=Repe	at
	74.000	SCS Cu	rve No or C			
	.100	Ia/S Co	pefficient			
	0.924	Option	1=Trianglr	; 2=Rect	anglr; 3=SWM HYD; 4=Lin.	Reserv
		.167	.000	.000	.000 c.m/s	
15	ADD BUN	. 098 דדר	.804	.289	C perv/imperv/total	
10	122 1010	.167	.167	.000	.000 c.m/s	
9	ROUTE					
	.000	No Condui	t Length duit define	d		
	.000	Zero la	ag	-		
	.000	Beta we	eighting fa	ctor		
	.000	No. of	g timestep sub-reache	s		
		.167	.167	.167	.000 c.m/s	
17	COMBINE	nation No.	de No			
		.167	.167	.167	.167 c.m/s	
14	START					
4	CATCHMEN	vero; z=De MT	erine			
	11.000	ID No.	5 99999			
	3.630	Area in	hectares			
	1.000	Gradie	(FERV) met nt (%)	ies		
	17.000	Per cer	nt Impervio	us		
	.000	%Imp. v	(IMPERV) with Zero D	pth		
	1	Option	1=SCS CN/C	; 2=Hort	on; 3=Green-Ampt; 4=Repe	at
	. 250	Manning	y "n"			
	.100	Ia/S Cu	rve no or c pefficient			
	8.924	Initia	l Abstracti	on		
	1	Option 058	1=Trianglr	; 2=Rect	anglr; 3=SWM HYD; 4=Lin.	Reserv
		. 098	.805	.219	C perv/imperv/total	
15	ADD RUNG	OFF				
9	ROUTE	.058	.058	.167	.167 C.m/s	
	.000	Condui	t Length			
	.000	No Cond	duit define	d		
	.000	Beta we	ag eighting fa	ctor		
	.000	Routing	g timestep			
	0	No. of 058	sub-reache	s 058	167 c m/s	
17	COMBINE					
	1 Ju	nction No	de No.	050		
18	CONFLUE	. 058 NCE	.058	.058	.225 C.m/s	
	1 Ju	nction No	de No.			
٩	BUILLE	. 058	.225	.058	.000 c.m/s	
9	.000	Condui	t Length			
	.000	No Cond	duit define	d		
	.000	Zero la Beta wa	ag aighting fa	ctor		
	.000	Routing	g timestep			
	0	No. of	sub-reache	s	000/-	
17	COMBINE	. 058	.225	.225	.000 C.m/s	
	1 Jui	nction Noo	de No.			
14	START	. 058	.225	.225	.225 c.m/s	

1=Zero; 2=Define 1 4 CATCHMENT 14.000 ID No.ó 99999 .230 Area in hectares 39.080 Length (PERV) metres 1.000 Gradient (%) 10.000 Per cent Impervious Length (IMPERV) 39.080 Length (LMPERV) % Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" SCS Curve No or C .000 1 250 74.000 .100 Ia/S Coefficient Initial Abstraction
Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 8.924 1 .000 .002 .225 .225 c.m/s C perv/imperv/total .098 .168 15 ADD RUNOFF .002 .002 .225 .225 c.m/s CATCHMENT 4 ID No.ó 99999 13.000 .860 75.910 Area in hectares Length (PERV) metres 1.000 Gradient (%) 57.000 75.910 Per cent Impervious Length (IMPERV) Mun, with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" SCS Curve No or C Ia/S Coefficient .000 1 .250 74.000 .100 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .044 .002 .225 .225 c.m/s C perv/imperv/total .098 .794 .495 15 ADD RUNOFF .225 c.m/s .044 .046 .225 9 ROUTE .000 Conduit Length No Conduit defined Zero lag Beta weighting factor .000 000 .000 Routing timestep No. of sub-reaches 0 .044 .046 .225 c.m/s .046 17 COMBINE 1 Junction Node No. .044 .046 .046 .271 c.m/s 18 CONFLUENCE Junction Node No. 1 .271 .000 c.m/s .044 .046 4 CATCHMENT 12.000 ID No.ó 99999 3.930 Area in hectares 161.880 Length (PERV) metres Gradient (%) 1.000 55.000 Per cent Impervious Per cent Impervious Length (IMPERV) %Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" SCS Curve No or C Ia/S Coefficient 162.090 .000 1 .250 74.000 .100 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 1 .271 .046 .201 .000 c.m/s C perv/imperv/total .098 .806 .488 15 ADD RUNOFF .046 .201 .472 .000 c.m/s 9 ROUTE Conduit Length .000 .000 No Conduit defined Zero lag .000 Beta weighting factor .000 Routing timestep No. of sub-reaches 0 . 472 .201 .472 .000 c.m/s COMBINE 17 1 Junction Node No. .201 .472 .472 .472 c.m/s START 14 -1=Zero; 2=Define 1 4 CATCHMENT ID No.ó 99999 15.000 2.080 Area in hectares 117.640 1.000 Length (PERV) metres Gradient (%) Per cent Impervious Length (IMPERV) 65.000 117.640 Length (IMPERV) %Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" .000 1 . 250 SCS Curve No or C 74.000 .100 Ia/S Coefficient 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 1 .126 .000 .472 .472 c.m/s C perv/imperv/total .098 15 ADD RUNOFF .126 .126 .472 .472 c.m/s 9 ROUTE .000 Conduit Length .000 No Conduit defined .000 Zero lag Beta weighting factor 000

	.000	Routing No. of	f timestep sub-reaches			
	. 1:	26	.126	.126	.472 c.m/s	
17	COMBINE 1 Junct	tion Nod	e No			
	.1	26	.126	.126	.598 c.m/s	
18	CONFLUENCE	I tion Nod				
	.12	26	.598	.126	.000 c.m/s	
27	HYDROGRAPH	H DISPLA	Y (The day of the second			
	5 1S # Volume =	of Hyet .15455	0/Hydrograph 99E+04 c.m	chosen		
4	CATCHMENT					
	16.000	ID No.ć	999999 bectares			
	122.660	Length	(PERV) metre	s		
	1.000	Gradien	it (%)			
	122.660	Length	(IMPERV)	5		
	.000	%Imp. w	ith Zero Dpt	h		
	.250	Manning	I=SCS CN/C; r"n"	2=Horton	n; 3=Green-Ampt; 4=Repeat	
	74.000	SCS Cur	ve No or C			
	.100	Ia/S Co Initial	efficient Abstraction	1		
	1	Option	1=Trianglr;	2=Rectar	nglr; 3=SWM HYD; 4=Lin. Reserv	,
	.1:	20 98	.598	.126	.000 c.m/s C.pery/impery/total	
15	ADD RUNOF	F	.750	.490	c perv/imperv/cocar	
27	. 12	20	.718	.126	.000 c.m/s	
21	5 is #	of Hyet	:o/Hydrograph	h chosen		
	Volume =	.18263	44E+04 c.m			
14	START 1 1=Ze:	ro; 2=De	fine			
35	COMMENT					
	3 line ********	(s) of c **	comment			
	5-YEAR STO	ORM EVEN	т			
2	**************************************	**				
-	1	1=Chica	igo;2=Huff;3=	User;4=0	Cdn1hr;5=Historic	
	747.930	Constan	ient a			
	.768	Exponen	it c	-,		
	.400	Fractic	n to peak r	-		
	100.000	40.415 m	m Total	depth		
3	IMPERVIOU:	S	1-808 CN/C	2-Horton	- 2-Croon-Ampt: A-Popost	
	.015	Manning	1=SCS CN/C; ["n"	2=HOFCO	n; 5=Green-Ampt; 4=Repeat	
	98.000	SCS Cur	ve No or C			
	.100	Ia/S Co Initial	efficient Abstraction	1		
4	CATCHMENT			-		
	10.000	ID No.ć	99999 bestares			
	208.820	Length	(PERV) metre	s		
	1.000	Gradien	it (%)			
	208.820	Length	(IMPERV)	•		
	.000	%Imp. w	ith Zero Dpt	h 2-Wenter	· 2-Cusan Amatic A-Denset	
	.250	Manning	I=SCS CN/C; ["n"	2=Horton	h; 3=Green-Ampt; 4=Repeat	
	74.000	SCS Cur	ve No or C			
	8.924	Initial	Abstraction	1		
	1	Option	1=Trianglr;	2=Rectar	nglr; 3=SWM HYD; 4=Lin. Reserv	,
	. 2	53 03	.869	. 383	C perv/imperv/total	
15	ADD RUNOF	F				
9	ROUTE	53	.283	.120	.000 C.m/s	
	.000	Conduit	Length			
	.000	No Cond Zero la	uit defined			
	.000	Beta we	ighting fact	or		
	.000	Routing No. of	f timestep sub-reaches			
	. 21	83	.283	.283	.000 c.m/s	
17	COMBINE 1 Junci	tion Nod	e No			
	.21	83	.283	.283	.283 c.m/s	
14	START	ro: 2=De	fine			
4	CATCHMENT	10, 2-26	line			
	11.000	ID No.ć	99999			
	155.620	Length	(PERV) metre	s		
	1.000	Gradien	it (%)			
	17.000	Per cen Length	(IMPERV)	3		
	. 000	%Imp. w	ith Zero Dpt	:h		
	1 .250	Option Manning	1=SCS CN/C; "n"	2=Horton	n; 3=Green-Ampt; 4=Repeat	
	74.000	SCS Cur	ve No or C			
	.100	Ia/S Co Initial	efficient Abstraction			
	1	Option	1=Trianglr;	2=Rectar	nglr; 3=SWM HYD; 4=Lin. Reserv	,
	.10	01 03	.000	.283	.283 c.m/s	
15	ADD RUNOF	F	.0.0	. 514	<pre>> perv/imperv/total</pre>	
•	.10	01	.101	.283	.283 c.m/s	
9	.000	Conduit	Length			
	.000	No Cond	luit defined			
	.000	Zero ia	ug .			

	.000	Beta weighting fa	actor		
	.000	Routing timestep			
	0	No. of sub-reache	101	000 (
17	COMPINE	.101	.101	.283 c.m/s	
17	1 June	ction Node No.			
	.1	.101	.101	.384 c.m/s	
18	CONFLUENC	CE			
	1 June	ction Node No.			
•	.1	.384	.101	.000 c.m/s	
9	000	Conduit Length			
	.000	No Conduit define	ad		
	.000	Zero lag			
	.000	Beta weighting fa	actor		
	.000	Routing timestep			
	0	NO. OI SUD-reache	384	000 c m/s	
17	COMBINE		.504	.000 C.m/s	
	1 Juno	ction Node No.			
	.1	LO1 .384	.384	.384 c.m/s	
14	START				
4		ero; 2=Define			
-	14.000	ID No.ó 99999			
	.230	Area in hectares			
	39.080	Length (PERV) met	res		
	1.000	Gradient (%)			
	39 080	Per cent Impervic	ous		
	.000	%Imp. with Zero I	opth		
	1	Option 1=SCS CN/C	; 2=Horte	on; 3=Green-Ampt; 4=Repeat	
	.250	Manning "n"			
	74.000	SCS Curve No or C	2		
	.100	Ia/S Coefficient	~		
	1	Option 1=Triangl	; 2=Recta	anglr; 3=SWM HYD; 4=Lin. Res	erv
	. (.000	.384	.384 c.m/s	
	.2	.862	.269	C perv/imperv/total	
15	ADD RUNOR	7F		/	
4	CATCHMENT	J04 .004 r	.384	.384 C.m/s	
-	13.000	ID No.ó 99999			
	.860	Area in hectares			
	75.910	Length (PERV) met	res		
	1.000	Gradient (%)			
	57.000	Per cent Impervic	ous		
	.000	%Imp. with Zero I	oth		
	1	Option 1=SCS CN/C	; 2=Horte	on; 3=Green-Ampt; 4=Repeat	
	.250	Manning "n"			
	74.000	SCS Curve No or C	2		
	. 100	Ia/S Coefficient			
	// 7/ H		~n		
	1	Option 1=Triangl	lon ; 2=Recta	anglr; 3=SWM HYD; 4=Lin. Res	erv
	1	Option 1=Trianglr 078 .004	on ; 2=Recta .384	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s	erv
	1 .(Option 1=Trianglr 078 .004 203 .862	on ; 2=Recta .384 .579	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total	erv
15	1 .(ADD RUNOI	Option 1=Trianglr 078 .004 203 .862 FF	.384 .579	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total 284 c.m/s	erv
15	1 .(ADD RUNOI .(BOUTE	Option 1=Triagla 078 .004 203 .862 FF	.384 .384 .579 .384	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s	erv
15 9	1 .(ADD RUNOF .(ROUTE .000	Option 1=Trianglr Option 1=Trianglr 078 .004 203 .862 FF 078 .082 Conduit Length	.on ; 2=Recta .384 .579 .384	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s	erv
15 9	1 	Option 1=Trianglr Option 1=Trianglr 178 .004 203 .862 FF 078 .082 Conduit Length No Conduit define	on ; 2=Recta .384 .579 .384	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s	erv
15 9	1 ADD RUNOI .000 .000 .000	Option 1=Triangli 778 .004 203 .862 FF 078 .082 Conduit Length No Conduit define Zero lag	Lon ; 2=Recta .384 .579 .384 ad	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s	erv
15 9	1	Conduit Length No Conduit Length No Conduit Length No Conduit define Zero Lag Beta weighting fe Pouting timesten	on ; 2=Rect: .384 .579 .384 ed	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s	erv
15 9	1 ADD RUNOE .000 .000 .000 .000 .000 .000 .000 .000 .000 .000	Conduit Length No Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache	on ; 2=Rect: .384 .579 .384 ed actor	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s	erv
15 9	1 . (0 .2 ADD RUNOP . 000 . 000 . 000 . 000 . 000 . 000 . 000 . 000	Conduit length No Conduit define Zero lag Beta weighting fi No. of sub-reach No. 082	on ; 2=Rect: .384 .579 .384 ed actor .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s	erv
15 9 17	ADD RUNO 	Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache 078 .082	.on ;; 2=Recta .384 .579 .384 ad actor es .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s	erv
15 9 17	ADD RUNO ADD RUNO (ROUTE 000 000 000 000 000 000 000 000 000 0	Conduit Length No Conduit Length No Conduit define Zero lag Beta weighting fe Routing timestep No. of sub-reache No. of sub-reache	.on ;; 2=Recta .384 .579 .384 .384 ad actor .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s	erv
15 9 17	ADD RUNOI 	Option 1=Triangl 0ption 1=Triangl 178 .004 203 .862 27F 178 .082 Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reached 178 .082 Stion Node No. 178 .082 Stion Node No.	.on ; 2=Recti .384 .579 .384 ad actor .082 .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s	erv
15 9 17 18	ADD RUNNO ADD RUNNO .0000 .000 .000 .0000 .000 .000 .000 .000 .000 .000 .000	Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache No Sonde No. 178 .082 Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache No. 082 Conduit define Sub-reache No. 082 Etion Node No.	.on ;; 2=Rect: .384 .579 .384 ad actor .082 .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s	erv
15 9 17 18	ADD RUNOI ADD RUNOI .0000 .000 .000 .0000 .000 .000 .000 .0000 .000 .000 .000	Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache 078 .082 Stion Node No. 078 .082 Stion Node No. 078 .458	.on ;; 2=Recti .384 .579 .384 ad actor .082 .082 .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s	erv
15 9 17 18 4	ADD RUNOI ADD RUNOI .0000 .000 .000 .0000 .000 .000 .000 .0000 .000 .000 .000	Conduit Length No Conduit Length No Conduit define Zero lag Beta weighting fr Routing timestep No. of sub-reache No. of sub-reache No. 082 tion Node No. 078 .082 Etion Node No. 778 .458	.on ; 2=Rect: , 384 .579 .384 .384 .082 .082 .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s	erv
15 9 17 18 4	ADD RUNOI ADD RUNOI 	Coption 1=Triangl Option 1=Triangl 778 .004 203 .862 277 .082 Conduit Length No Conduit define Zero lag Beta weighting fe Routing timestep No. of sub-reache 778 .082 Ction Node No. 778 .082 Ction Node No. 778 .458 ID No.6 99999 Araa in bectarco	on ; 2=Rect: .384 .579 .384 ad actor as .082 .082 .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s	erv
15 9 17 18 4	ADD RUNNO ADD RUNNO 	Conduit Length 078 .004 203 .862 FF .862 Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache 078 .082 Ction Node No. 078 .082 Eton Node No. 078 .458 D No.6 99999 Area in hectares Length (PERV) met	.on ; 2=Rect: , 384 .579 .384 .384 .082 .082 .082 .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s	erv
15 9 17 18 4	ADD RUNNO ADD RUNNO COUTE .0000 .000 .000 .0000 .000 .000 .000 .000 .000 .000	Conduit length 078 .004 203 .862 77 .862 78 .082 Conduit length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache 078 .082 Stion Node No. 078 .082 Stion Node No. 078 .458 7 ID No.6 99999 Area in hectares Length (PERV) met Gradient (%)	.on ; 2=Rect: , 384 .579 .384 ad .082 .082 .082 .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s	erv
15 9 17 18 4	ADD RUNOI ADD RUNOI .0000 .000 .000 .000 .000 .000 .000 .000	Conduit length 0ption 1=Triangl1 0ption 1=Triangl1 0ption 1=Triangl1 004 005 005 005 005 005 005 005	.on ; 2=Rect: ; 2=Rect: .384 .579 .384 .384 .082 .082 .082 .082 .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s	erv
15 9 17 18 4	ADD RUNNO ADD RUNNO 	Conduit length Option 1=Triangli 778 .004 203 .862 FF .862 FF .862 Conduit length No Conduit define Zero lag Beta weighting fe Routing timestep No. of sub-reache 778 .082 Stion Node No. 778 .082 Stion Node No. 778 .458 ID No.6 99999 Area in hectares Length (IMEERV) 8 Ter Impervit Length (IMEERV)	.on ; 2=Rect: , 384 .579 .384 .384 .384 .384 .082 .082 .082 .082 .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s	erv
15 9 17 18 4	ADD RUNNO ADD RUNNO COUTE .000	Conduit Length Option 1=Triangli 778 .004 203 .862 FF .862 Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache 78 .082 ction Node No. 78 .082 Ction Node No. 78 .458 T D No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervic Length (IMPERV)	.on ; 2=Rect: , 384 .579 .384 .384 .082 .082 .082 .082 .082 .082 .082 .082 .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s	erv
15 9 17 18 4	ADD RUNNO ADD RUNNO 	Conduit length Option 1=Triangli 778 .004 203 .862 FF .862 Conduit Length No Conduit define Zero lag Beta weighting fr Routing timestep No. of sub-reache 078 .082 Stion Node No. 078 .082 Stion Node No. 078 .082 Stion Node No. 078 .458 F ID No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervic Length (IMPERV) met Scalingth (IMPERV) met Scal	.on ; 2=Rect: , 384 .579 .384 .384 .082 .082 .082 .082 .082 .082 .082 .082 .082 .082 .082 .082	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s	erv
15 9 17 18 4	ADD RUNOI ADD RUNOI .000	Conduit length 0ption 1=Triangl1 0ption 1=Triangl1 0ption 1=Triangl1 0ption 1=Triangl1 002 Conduit Length No Conduit define Zero 1ag Beta weighting ff Routing timestep No. of sub-reached 078 .082 078 .082 ction Node No. 078 .082 ction Node No. 078 .458 1D No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervic Length (IMPERV) %Imp. with Zero I Option 1=SCS CN/C Manning "n" SCS Curve No or C	.on ; 2=Rect: ; 2=Rect: ; 384 .579 .384 .384 .082 .084 .082 .084 .084 .082 .082 .082 .082 .082 .082 .082 .082 .082 .082 .082 .082 .082 .082 .082 .082 .082 .082 .082 .084 .0	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s	erv
15 9 17 18 4	ADD RUNNO ADD RUNNO 	Contin 1=Triangli Option 1=Triangli 203 .062 FF .082 Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache 78 .082 Stion Node No. 78 .082 Stion Node No. 78 .082 Etion Node No. 78 .458 ID No.6 99999 Area in hectares Length (IMPERV) %Imp. with Zero I Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient	.on ; 2=Rect: , 384 .579 .384 .384 .384 .384 .082 .082 .082 	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .458 c.m/s .000 c.m/s	erv
15 9 17 18 4	ADD RUNNO ADD RUNNO COMPLIANCE .0000 .000 .000 .000 .000 .000	Contini 1=Triangli Option 1=Triangli 778 .004 203 .862 FF .862 Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache 78 .082 ction Node No. 78 .082 ction Node No. 78 .082 E Stion Node No. 78 .458 T No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervic Length (IMPERV) % Imp. with Zero I Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti	.on ; 2=Rect: , 384 .579 .384 .084 .082 .092	anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s	erv
15 9 17 18 4	ADD RUNNO ADD RUNNO .0000 .000 .000 .000 .000 .000 .000 .000	Conduit length Option 1=Triangli Difference in the second Conduit length No Conduit define Zero lag Beta weighting fr Routing timestep No. of sub-reached No. of sub-reached Sub-reached No. of sub-reached No. of sub	.on ; 2=Rect: , 384 .579 .384 .384 .082	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s</pre>	erv
15 9 17 18 4	ADD RUNNO ADD RUNNO ADD RUNNO .0000 .000 .000 .000 .000 .000 .0	Contin 1=Triangli Option 1=Triangli 778 .004 203 .862 7F .862 7F .862 7F .862 7F .862 7F .862 778 .082 778 .082 78 .082 78 .082 78 .082 78 .082 78 .082 78 .082 78 .082 798 .458 79 10 No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervic Length (IMPERV) %Imp. with Zero I Option 1=SCS CN/C Manning "n" SCS Curve No or C Is/S Coefficient Initial Abstracti Option 1=Triangli 41 .458 203 .858	.on ; 2=Rect: , 384 .579 .384 .384 .082 .084 .082	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s</pre>	erv
15 9 17 18 4	ADD RUNNOI ADD RUNNOI 	Conduit length Option 1=Triangli 778 .004 203 .862 FF Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache 778 .082 Conduit define 282 282 283 284 285 285 293 Area in hectares Length (IMPERV) % Imp. with Zero I Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=Triangli 341 .458 203 .858 FF	.on ; 2=Rect: , 384 .579 .384 .384 .384 .384 .082	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s on; 3=Green-Ampt; 4=Repeat anglr; 3=SWM HYD; 4=Lin. Res .000 c.m/s C perv/imperv/total</pre>	erv
15 9 17 18 4	ADD RUNNOI ADD RUNNOI .0000 .000 .000 .0000 .000 .000 .000 .000 .000 .000	Conduit length Option 1=Triangli 778 .004 203 .862 FF .082 Conduit length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache 78 .082 ction Node No. 78 .082 ction Node No. 78 .082 Ction Node No. 78 .082 E Stion Node No. 78 .458 T DNo.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervic Length (IMPERV) % Imp. with Zero I Option 1=SCS CN/C Manning "n" SCS Curve No or Of Ia/S Coefficient Initial Abstracti Option 1=Triangli 341 .458 341 .799	.on ; 2=Rect: , 384 .579 .384 .384 .082	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s on; 3=Green-Ampt; 4=Repeat anglr; 3=SWM HYD; 4=Lin. Res .000 c.m/s C perv/imperv/total .000 c.m/s</pre>	erv
15 9 17 18 4 15 9	ADD RUNNOI ADD RUNNOI .0000 .000 .000 .000 .000 .000 .000 .000 .000 .000	Conduit Length Conduit Length No Conduit define Zero lag Beta weighting fr Routing timestep No. of sub-reached No. of sub-reached Sub-reached No. of sub-reached No. of sub-reac	.on ; 2=Rect: , 384 .579 .384 .384 .082	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s on; 3=Green-Ampt; 4=Repeat anglr; 3=SWM HYD; 4=Lin. Res .000 c.m/s C perv/imperv/total .000 c.m/s</pre>	erv
15 9 17 18 4 15 9	ADD RUNNO ADD RUNNO ADD RUNNO .0000 .0000 .000 .000 .000 .000	Conduit Length Conduit length No Conduit define Zero lag Beta weighting fr No Conduit define Zero lag Beta weighting fr Beta weighting fr No. of sub-reache No. of sub-reache ID No.6 99999 Area in hectares Length (PERV) met Scatter No or I (IMPERV) %Imp. with Zero I Option 1=SCS CN/C Manning "n" SCS Curve No or I (IMPERV) SCS Curve No or I (IMPERV) SCS Curve No or SCS Curve No or	.on ; 2=Rect: , 384 .579 .384 .384 .082	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s on; 3=Green-Ampt; 4=Repeat anglr; 3=SWM HYD; 4=Lin. Res .000 c.m/s C perv/imperv/total .000 c.m/s</pre>	erv
15 9 17 18 4 15 9	ADD RUNNOI ADD RUNNOI .000	Conduit Length Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache Routing timestep No. of sub-reache No B .082 Etion Node No. 178 .082 Etion Node No. 178 .082 Etion Node No. 178 .082 Etion Node No. 178 .458 D No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervic Length (IMFERV) % Imp. with Zero I Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=SCS 201 .458 203 .858 FF S41 .799 Conduit Length No Conduit Length No Conduit Length	.on ; 2=Rect; , 384 .579 .384 .384 .082	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s on; 3=Green-Ampt; 4=Repeat anglr; 3=SWM HYD; 4=Lin. Res .000 c.m/s C perv/imperv/total .000 c.m/s</pre>	erv
15 9 17 18 4 15 9	ADD RUNNOI ADD RUNNOI .000	Conduit Length Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache No. of sub-reache No. of sub-reache No. of sub-reache Sub-reache No. of sub-reache No. of sub-reache Sub-reache No. of sub-reache No. of sub-reache No. of sub-reache No. of sub-reache Sub-reache No. of sub-reache No. of sub-reache Sub-reache No. of sub-reache Sub-reache No. of sub-reache Sub-reache No. of sub-reache Sub-reache No. of sub-reache Sub-r	.on ; 2=Rect: , 384 .579 .384 .384 .082	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s on; 3=Green-Ampt; 4=Repeat anglr; 3=SWM HYD; 4=Lin. Res .000 c.m/s C perv/imperv/total .000 c.m/s</pre>	erv
15 9 17 18 4 15 9	ADD RUNNOI ADD RUNNOI .000	Conduit Length No Conduit Length No Conduit define Zero lag Beta weighting fr Routing timestep No. of sub-reache No. of sub-reache Sub-reache No. of sub-reache No. of sub-reache Sub-reache No. of sub-reache No. Sub-reache	.on ; 2=Rect: , 384 .579 .384 .384 .6d .082	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s on; 3=Green-Ampt; 4=Repeat anglr; 3=SWM HYD; 4=Lin. Res .000 c.m/s C perv/imperv/total .000 c.m/s</pre>	erv
15 9 17 18 4 15 9	ADD RUNNOI ADD RUNNOI .000	Conduit Length Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reach Noton Node No. 082 Stion Node No. 09999 Area in hectares Length (IMPERV) % Imp. with Zero I 075 Stion Stion Stion Stioner Stion Stioner 14/5 Stion Stioner Stion Stioner St	.on ; 2=Rect; , 384 .579 .384 .384 .384 .384 .082	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s on; 3=Green-Ampt; 4=Repeat anglr; 3=SWM HYD; 4=Lin. Res .000 c.m/s C perv/imperv/total .000 c.m/s</pre>	erv
15 9 17 18 4 15 9	ADD RUNNOI ADD RUNNOI .0000 .000 .000 .000 .000 .000 .000 .000	Conduit Length Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache No. of sub-reache No. of sub-reache Conduit define Conduit define Conduit Length No. of Sub-reache No. of Sub-reache Second Second Second Second Conduit Length No Conduit Length No Conduit Length No Conduit Length No Conduit Length No Conduit Length No Conduit Length No. of sub-reache Second	.on ; 2=Rect; , 384 .579 .384 .082	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s on; 3=Green-Ampt; 4=Repeat anglr; 3=SWM HYD; 4=Lin. Res .000 c.m/s C perv/imperv/total .000 c.m/s .000 c.m/s</pre>	erv
15 9 17 18 4 15 9	ADD RUNNOI ADD RUNNOI .0000 .000 .000 .000 .000 .000 .000 .000	Conduit Length No Conduit define Zero lag Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache No Conduit define Zero lag Beta weighting fa No Conduit define Conduit define Cradient (%) Per cent Impervic Length (PERV) met Gradient (%) Per cent Impervic Length (PERV) met Gradient (%) Per cent Impervic Length (IMPERV) %Imp. with Zero I Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=Trianglr Sd1 .458 Conduit Length No Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache Stion Node No.	.on ; 2=Rect: , 384 .579 .384 .384 .082 .084 .082	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s on; 3=Green-Ampt; 4=Repeat anglr; 3=SWM HYD; 4=Lin. Res .000 c.m/s C perv/imperv/total .000 c.m/s .000 c.m/s</pre>	erv
15 9 17 18 4 15 9	ADD RUNNO ADD RUNNO ADD RUNNO ADD RUNNO .0000 .000 .000 .000 .00	Conduit length Conduit length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reach No Conduit define Zero lag Beta weighting fa Beta weighting fa No. of sub-reach No. of sub-reach SCS Curve No or O I ASC Sofficient Initial Abstracti Option 1=Triangli SC3	.on ; 2=Rect: , 384 .579 .384 .6d .082 .099 .799	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s .000 c.m/s con; 3=Green-Ampt; 4=Repeat anglr; 3=SWM HYD; 4=Lin. Res .000 c.m/s C perv/imperv/total .000 c.m/s .000 c.m/s .000 c.m/s</pre>	erv
15 9 17 18 4 15 9 17 14	ADD RUNNOI ADD RUNNOI ADD RUNNOI .0000 .000 .000 .000 .000 .000	Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reach No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reach No Conduit define Conduit define No Conduit define Conduit define Conduit (IMPERV) Ner cent Impervice Length (IMPERV) Ner cent Impervice Length (IMPERV) Nump. with Zero I Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=SCS CN/C Manning 1=Triangli 341 .799 Conduit Length No Conduit Length No Conduit Length No Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reach 341 .799	.on ; 2=Rect; , 384 .579 .384 .384 .384 .384 .082 .099 	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s on; 3=Green-Ampt; 4=Repeat anglr; 3=SWM HYD; 4=Lin. Res .000 c.m/s C perv/imperv/total .000 c.m/s .000 c.m/s .799 c.m/s</pre>	erv
15 9 17 18 4 15 9 17 17	ADD RUNNOI ADD RUNNOI 	Conduit Length No Conduit define Zero lag Beta weighting fr Routing timestep No. of sub-reache Conduit define Zero lag Beta weighting fr Routing timestep No. of sub-reache No. of sub-reache No. of sub-reache Conduit define Zero lag Etion Node No. No. 082 Conduit Node No. No. 082 Conduit Node No. No. 082 Conduit Node No. No. 099999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervic Length (IMPERV) % Imp. with Zero I Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=SCS CN/C Manning timestep No. of sub-reache Stion Node No. 341 .799 Conduit Length No. 2=Define C	.on ; 2=Rect; , 384 .579 .384 .384 .082 .099 .799	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s .000 c.m/s c perv/imperv/total .000 c.m/s .000 c.m/s .000 c.m/s .000 c.m/s .000 c.m/s</pre>	erv
15 9 17 18 4 15 9 17 14 4	ADD RUNNOI ADD RUNNOI .0000 .000 .000 .000 .000 .000 .000 .000	Conduit length Conduit length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache No. of sub-reache No. of sub-reache Cradient (%) Per cent Impervit Length (PERV) met Gradient (%) Per cent Impervit Length (PERV) met Gradient (%) Per cent Impervit Length (IMPERV) %Imp. with Zero I Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=Trianglr Sd1 .458 Conduit Length No Conduit define Zero lag Beta weighting fa Routing timestep No. of sub-reache Sd1 .799 ction Node No. Sd1 .799 ction Node No. Sd1 .799 ction Node No. Sd1 .799 Conduit Sereche State	.on ; 2=Rect: , 384 .579 .384 .384 .082 .099 .799	<pre>anglr; 3=SWM HYD; 4=Lin. Res .384 c.m/s C perv/imperv/total .384 c.m/s .384 c.m/s .458 c.m/s .000 c.m/s on; 3=Green-Ampt; 4=Repeat anglr; 3=SWM HYD; 4=Lin. Res .000 c.m/s C perv/imperv/total .000 c.m/s .000 c.m/s .799 c.m/s</pre>	erv

117.640 Length (PERV) metres 1.000 Gradient (%) 65.000 Per cent Impervious Length (IMPERV) 117.640 Simp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat .000 1 . 250 Manning "n" 74.000 SCS Curve No or C Ia/S Coefficient Initial Abstraction 100 8.924 Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv . 206 .000 .799 .627 .799 c.m/s C perv/imperv/total . 203 15 ADD RUNOFF .206 .206 .799 .799 c.m/s 9 ROUTE .000 Conduit Length No Conduit defined Zero lag Beta weighting factor Routing timestep .000 .000 000 .000 No .206 COMBINE 0 No. of sub-reaches .206 .206 .799 c.m/s 17 1 Junction Node No. .206 .206 CONFLUENCE .206 1.005 c.m/s 18 1 Junction Node No. .206 1.005 HYDROGRAPH DISPLAY .206 .000 c.m/s 27 is # of Hyeto/Hydrograph chosen Volume = .3117600E+04 c.m CATCHMENT 4 16.000 2.260 ID No.ó 99999 Area in hectares Length (PERV) metres Gradient (%) Per cent Impervious 122.660 1.000 122.660 Length (IMPERV) .000 %Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat 250 Manning "n" SCS Curve No or C 74.000 .100 Ia/S Coefficient 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 1 1.005 .206 .198 .000 c.m/s .573 C perv/imperv/total .203 .852 15 ADD RUNOFF .198 1.203 .206 .000 c.m/s 27 HYDROGRAPH DISPLAY 5 is # of Hyeto/Hydrograph chosen Volume = .3641094E+04 c.m 5 14 START 1=Zero; 2=Define 1 35 COMMENT 3 line(s) of comment 100-YEAR STORM EVENT 2 STORM 1=Chicago; 2=Huff; 3=User; 4=Cdn1hr; 5=Historic 1083.550 Coefficient a Constant b (min) 6 618 .735 Exponent c Fraction to peak r Duration ó 240 min 75.636 mm Total d 450 240.000 Total depth IMPERVIOUS 3 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" 1 .015 98.000 SCS Curve No or C .100 Ia/S Coefficient Initial Abstraction 4 CATCHMENT 10.000 ID No.ó 99999 6.540 Area in hectares 208.820 Length (PERV) metres 1.000 Gradient (%) Per cent Impervious Length (IMPERV) 208 820 %Imp. with Zero Dpth .000 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat 1 Manning "n" SCS Curve No or C 250 74.000 100 Ta/S Coefficient 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 1 .000 .206 .000 c.m/s C perv/imperv/total 514 . 377 ADD RUNOFF 15 .514 206 .514 .000 c.m/s ROUTE Conduit Length .000 No Conduit defined Zero lag Beta weighting factor 000 .000 .000 Routing timestep .000 0 No. of sub-reaches .514 .514 .514 .000 c.m/s 17 COMBINE 1 Junction Node No. . 514 .514 514 514 c m/s START 14 1=Zero; 2=Define L 1-22-CATCHMENT 1 000 ID No.ó 99999 4 11.000

3.630 Area in hectares 155.620 Length (PERV) metres 1.000 17.000 Gradient (%) Per cent Impervious 155.620 Length (IMPERV) Simp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat .000 . 250 Manning "n" SCS Curve No or C Ia/S Coefficient 74.000 .100 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .201 .000 .514 c.m/s C perv/imperv/total .514 .377 .913 .468 ADD RUNOFF 15 .201 .514 .514 c.m/s .201 9 ROUTE Conduit Length .000 .000 No Conduit defined .000 Zero lag Beta weighting factor .000 Routing timestep No. of sub-reaches 0 .201 .201 .201 .514 c.m/s 35 COMMENT MAJOR FLOWS ABOVE 5-YEAR SURCHARGE OVERLAND A11 TO OUTLET 12 DIVERT U/S Node No.ó 99999 50 .101 Threshold Discharge 6 Max. Outflow reqd. Qmax & Vol.Diverted = .116 .085 c.m/s 210.3 c.m No flow diverted .201 COMBINE .201 116 .514 c.m/s 17 Junction Node No. 1 .201 CONFLUENCE .201 .630 c.m/s .116 18 Junction Node No. .201.630 1 .201 .116 .000 c.m/s 9 ROUTE Conduit Length 000 No Conduit defined .000 Zero lag Beta weighting factor .000 000 .000 Routing timestep 0 No. of sub-reaches . 630 .201 630 .000 c.m/s COMBINE 17 1 Junction Node No. . 630 .630 c.m/s .201 .630 14 START 1=Zero; 2=Define 1 CATCHMENT 14.000 ID No.6 99999 4 .230 Area in hectares Length (PERV) metres 39.080 1.000 Gradient (%) Per cent Impervious Length (IMPERV) 10.000 39.080 %Imp. with Zero Dpth .000 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat . 250 Manning "n" SCS Curve No or C 74 000 Ia/S Coefficient .100 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .017 .000 .630 .630 c.m/s .377 .911 .430 C perv/imperv/total C perv/imperv/total 15 ADD RUNOFF .017 .017 . 630 .630 c.m/s 4 CATCHMENT ID No.ó 99999 13.000 .860 Area in hectares 75.910 Length (PERV) metres 1.000 Gradient (%) Per cent Impervious 75.910 Length (IMPERV) Length (IMPERV) % Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" SCS Curve No or C .000 250 74.000 .100 Ia/S Coefficient Ditial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 8.924 1 .017 .915 .630 146 630 c m/s .630 C.m/s C perv/imperv/total .376 ADD RUNOFF 15 .146 .157 .630 .630 c.m/s ROUTE 9 Conduit Length .000 No Conduit defined Zero lag .000 .000 Beta weighting factor .000 . 000 Routing timestep No. of sub-reaches 0 .146 .157 157 .630 c.m/s COMBINE 17 1 Junction Node No. .146 .157 .157 .762 c.m/s 18 CONFLUENCE Junction Node No. 1 146 .762 157 000 c m/s .140 .762 CATCHMENT 12.000 ID No.ó 99999 3.930 Amor in busi Area in hectares Length (PERV) metres 3 930 161.880

	1.000	Gradie	ent (%)			
	55.000	Per ce	ent Impervi	ous		
	161.880	Length	n (IMPERV)			
	.000	%Imp.	with Zero	Dpth		
	1	Option	n 1=SCS CN/	C; 2=Horto	n; 3=Green-Ampt; 4=Repe	at
	. 250	Mannir	ıg "n"			
	74.000	SCS Ci	irve No or	с		
	.100	Ia/S (Coefficient	:		
	8.924	Initia	al Abstract	ion		
	1	Option	n 1=Triangl	r; 2=Recta	nglr; 3=SWM HYD; 4=Lin.	Reserv
		.567	. 762	.157	.000 c.m/s	
		.377	.912	.671	C perv/imperv/total	
12	ADD RUP	IOFF EC7	1 220	1 5 7	000/-	
٩	DOUTE	. 567	1.329	.157	.000 C.m/S	
9	ROUTE	Conduc	t Tenath			
	.000	No. Con	duit dofin	ad		
	.000	No coi		leu		
	.000	Beta	ay waighting f	actor		
	000	Boutir	a timester			
		No. of	sub-reach	es		
	-	.567	1.329	1.329	.000 c.m/s	
17	COMBINE					
	1 Ju	nction No	de No.			
		.567	1.329	1.329	1.329 c.m/s	
14	START					
	1 1=	Zero; 2=1	Oefine			
4	CATCHME	INT				
	15.000	ID No.	ó 99999			
	2.080	Area i	n hectares			
	117.640	Length	n (PERV) me	tres		
	1.000	Gradie	ent (%)			
	65.000	Per ce	ent Impervi	ous		
	117.640	Length	h (IMPERV)			
	.000	%Imp.	with Zero	Dpth		
	1	Option	n 1=SCS CN/	C; 2=Horto	n; 3=Green-Ampt; 4=Repe	at
	.250	Mannir	ng "n"			
	74.000	SCS Ci	irve No or	с		
	.100	Ia/S (Coefficient	:		
	8.924	Initia	al Abstract	ion		
	1	Option	1 1=Triangl	r; 2=Recta	nglr; 3=SWM HYD; 4=Lin.	Reserv
		.370	.000	1.329	1.329 c.m/s	
		.377	.916	.728	C perv/imperv/total	
15	ADD RUN	IOFF.	270	1 200	1 200 /	
•	DOUTE	.370	.370	1.329	1.329 C.m/s	
9	ROUTE	Conduc	t Tenath			
	.000	No. Con	duit dofin	ad		
	.000	No Cor	auit aeiin	lea		
	.000	Beta	ay waighting f	actor		
	.000	Boutir	a timester	actor		
	.000	No of	eub-reach	, 		
	v	370	370	370	1 329 c m/s	
17	COMBINE				21020 01	
	1 Ju	nction No	de No.			
		.370	.370	.370	1.663 c.m/s	
18	CONFLUE	INCE			···· · ·	
	1 Ju	nction No	de No.			
		. 370	1.663	.370	.000 c.m/s	
27	HYDROGE	APH DISPI	AY			
	5 is	# of Hye	to/Hydrogr	aph choser		
	Volume	= .7310	400E+04 c.	m		

	4	CATCHMENT					
		16.000	ID No.ó 99999				
		2.260	Area in hectar	es			
		122.660	Length (PERV)	metres			
		1.000	Gradient (%)				
		57.000	Per cent Imper	vious			
		122.660	Length (IMPERV	7)			
		.000	%Imp. with Zer	o Dpth			
		1	Option 1=SCS C	N/C; 2=Horto	on; 3=Gree	en-Ampt; 4=Repe	at
v		.250	Manning "n"				
		74.000	SCS Curve No c	or C			
		.100	Ia/S Coefficie	int			
		8.924	Initial Abstra	ction			
		1	Option 1=Trian	glr; 2=Recta	anglr; 3=8	SWM HYD; 4=Lin.	Reserv
		. 35	1.663	.370	.000	c.m/s	
		. 3'	.917	. 684	C perv/	/imperv/total	
	15	ADD RUNOFI					
	~ -	. 35	1.989	. 370	.000	c.m/s	
	27	HYDROGRAPH	I DISPLAY				
		5 1S #	of Hyeto/Hydro	graph chosen	1		
	•	volume =	.84803516+04	C.m			
	9	ROUTE	a				
		.000	Conduit Length	السمط			
		.000	No conduit dei	inea			
		.000	Zero ray	factor			
		.000	Beca werghting				
		.000	No of sub-rea	chee			
		Зі	1 989	1 989	000	0 m/s	
	17	COMBINE	1.505	1.505		C. 11/ 3	
		4 Junci	ion Node No.				
		. 35	1.989	1.989	1.989	c.m/s	
	14	START					
		1 1=Zer	co; 2=Define				
	35	COMMENT					
		1 line	s) of comment				
		MAJOR OVER	RLAND FLOWS FRO	M A11 TO OUT	LET		
	22	FILE HYDRO	GRAPH				
		1 1=RE2	D: 2=WRITE				
		12 DIV00	050.100	is Filenam	ne		
v		1 1=0ve	erland: 2=Inflc	w: 3=Outflow	7: 4=Temp	'ary	
		.08	.000	1.989	1.989	c.m/s	
	15	ADD RUNOFI					
	•	.08	.085	1.989	1.989	c.m/s	
	9	ROUTE	a				
		.000	Conduit Length	1 1			
		.000	No Conduit dei	ined			
		.000	Zero lag				
		.000	Beta weighting	Tactor			
		.000	No of sub-roo	ep			
		0	NO. OI SUD-IEa	095	1 090	a m/a	
	17	COMBINE	.005	.005	1.909	C.11/5	
		4 Junci	ion Node No				
		. 08	.085	.085	2.074	c.m/s	
	18	CONFLUENCE	1				
		4 Junci	ion Node No.				
		. 08	2.074	.085	.000	c.m/s	
	27	HYDROGRAPH	DISPLAY				
		5 is#	of Hyeto/Hydro	graph chosen	ı		
		Volume =	.8689200E+04	c.m			
	20	MANUAL					

MIDUSS output – Future Conditions with SWM

	Output Fi	le (4.7)	SWM.OUT	opened	2022-11-02 10:36	
	Units use 24	144 10	.000	are MAX	U DT MAXHYD & DTMIN val	lues
	Licensee:	UPPER CA	NADA CONSUL	LTANTS		
35	COMMENT 4 line	(e) of or	mment			
	STORMWATE	ER MANAGEM	IENT PLAN			
	RIDGEWAY	HIGHSCHOO	DL			
	TOWN OF E	ORT ERIE				
35	COMMENT	TIONS				
	3 line	a(s) of co	mment			
	*********	**				
	25mm STOP	M EVENT				
2	STORM					
	1	1=Chicag	jo;2=Huff;3=	=User;4=C	dn1hr;5=Historic	
	512.000	Constant	lent a b (min	•)		
	. 800	Exponent	: C (1111	,		
	. 450	Fraction	to peak i	r		
	240.000	Duration	nó 240 min Total	l donth		
3	IMPERVIOU	25.055 mm JS	i iocai	depth		
	1	Option 1	=SCS CN/C;	2=Horton	; 3=Green-Ampt; 4=Rep	peat
	.015	Manning	"n"			
	98.000	Ta/S Corv	fficient			
	.518	Initial	Abstraction	n		
4	CATCHMENT	2				
	10.000	ID No.o	99999 bootaroo			
	208.820	Length ((PERV) metre	es		
	1.000	Gradient	: (%)			
	27.000	Per cent	: Impervious	в		
	.000	%Imp. wi	th Zero Do	th		
	1	Option 1	=SCS CN/C;	2=Horton	; 3=Green-Ampt; 4=Rep	peat
	. 250	Manning	"n"			
	.100	Ia/S Corv	fficient			
	8.924	Initial	Abstraction	n		
	1	Option 1	=Trianglr;	2=Rectan	glr; 3=SWM HYD; 4=Lin	1. Reserv
	.1	.67	.000	.000	.000 c.m/s	
15	ADD RUNOE	rf F	. 804	.209	c perv/imperv/cocar	
	.1	67	.167	.000	.000 c.m/s	
9	ROUTE	C	Tanath			
	.000	No Condu	it defined			
	.000	Zero laç	J			
	.000	Beta wei	ghting fact	tor		
	.000	Routing No of f	timestep			
	.1	167	.167	.167	.000 c.m/s	
17	COMBINE					
	1 June 1	tion Node	NO. 167	167	167 c m/s	
14	START		.107	.107	.107 C.m/3	
	1 1=Ze	ero; 2=Def	line			
4	CATCHMENT	! TD No ó	99999			
	3.630	Area in	hectares			
	155.620	Length ((PERV) metre	es		
	1.000	Gradient	: (%) 	_		
	155.620	Length ((IMPERV)	5		
	.000	%Imp. wi	th Zero Dp	th		
	1	Option 1	=SCS CN/C;	2=Horton	; 3=Green-Ampt; 4=Rep	peat
	.250	SCS Cury	"n" re Noor C			
	.100	Ia/S Coe	fficient			
	8.924	Initial	Abstraction	n		_
	1	Option 1	.=Trianglr; 000	2=Rectan 167	glr; 3=SWM HYD; 4=Lir 167 c m/s	1. Reserv
	.0	98	.805	.219	C perv/imperv/total	
15	ADD RUNOR	Γ F				
٩	. C	158	.058	.167	.167 c.m/s	
9	.000	Conduit	Length			
	.000	No Condu	it defined			
	.000	Zero lag	J shtire foot			
	.000	Routing	timestep	LOF		
	0	No. of s	ub-reaches			
1.7	. 0)58	.058	.058	.167 c.m/s	
17	COMBINE 1 Junc	tion Node	No.			
	. ()58	.058	.058	.225 c.m/s	
18	CONFLUENC	E				
	1 June	tion Node	NO.	059	000 a m/a	
9	ROUTE	50	.225	.058	.000 C.m/S	
	.000	Conduit	Length			
	.000	No Condu	it defined			
	.000	Lero Lag Beta wei	ahting fact	tor		
	.000	Routing	timestep			
	0	No. of s	ub-reaches	0.05	000 (
17	. C	158	. 225	.225	.000 c.m/s	
	1 Juno	tion Node	No.			
14	. ()58	.225	.225	.225 c.m/s	
1 °	SIART					

1=Zero; 2=Define 1 4 CATCHMENT 14.000 ID No.ó 99999 .230 Area in hectares 39.080 Length (PERV) metres 1.000 Gradient (%) 10.000 Per cent Impervious Length (IMPERV) 39.080 Length (LMPEKV) % Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" SCS Curve No or C .000 1 250 74.000 .100 Ia/S Coefficient Initial Abstraction
Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 8.924 1 .000 .002 .225 .225 c.m/s C perv/imperv/total .098 .168 15 ADD RUNOFF .002 .002 .225 .225 c.m/s CATCHMENT 4 ID No.ó 99999 13.000 .860 75.910 Area in hectares Length (PERV) metres 1.000 Gradient (%) 57.000 75.910 Per cent Impervious Length (IMPERV) SImp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" .000 1 .250 SCS Curve No or C Ia/S Coefficient 74.000 .100 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .044 .002 .225 .225 c.m/s C perv/imperv/total .098 .794 .495 15 ADD RUNOFF .225 c.m/s .044 .046 .225 9 ROUTE .000 Conduit Length No Conduit defined Zero lag Beta weighting factor .000 000 .000 Routing timestep No. of sub-reaches 0 .044 .046 .225 c.m/s .046 17 COMBINE 1 Junction Node No. .044 .046 .046 .271 c.m/s 18 CONFLUENCE Junction Node No. 1 .271 .000 c.m/s .044 .046 4 CATCHMENT 12.000 ID No.ó 99999 3.930 Area in hectares 161.880 Length (PERV) metres Gradient (%) 1.000 55.000 Per cent Impervious 162.090 Length (IMPERV) %Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat .000 1 .250 Manning "n" SCS Curve No or C Ia/S Coefficient 74.000 .100 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 1 .046 .201 .271 .000 c.m/s C perv/imperv/total .098 .806 .488 15 ADD RUNOFF .201 .472 .046 .000 c.m/s 9 ROUTE Conduit Length .000 .000 No Conduit defined Zero lag .000 Beta weighting factor .000 Routing timestep No. of sub-reaches 0 .472 .201 .472 .000 c.m/s COMBINE 17 1 Junction Node No. .201 .472 .472 .472 c.m/s START 14 -1=Zero; 2=Define 1 4 CATCHMENT ID No.ó 99999 15.000 2.080 Area in hectares 117.640 1.000 Length (PERV) metres Gradient (%) 65.000 Per cent Impervious Length (IMPERV) 117.640 Length (IMPERV) %Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" .000 1 . 250 SCS Curve No or C 74.000 .100 Ia/S Coefficient 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 1 .126 .000 .472 .551 .472 c.m/s C perv/imperv/total .098 15 ADD RUNOFF .126 .126 .472 .472 c.m/s 9 ROUTE .000 Conduit Length .000 No Conduit defined .000 Zero lag Beta weighting factor 000

.000 Routing timestep NO. of sub-rea .126 .126 COMBINE No. of sub-reaches .126 .472 c.m/s 17 Junction Node No. .126 .126 126 .598 c.m/s CONFLUENCE 18 Junction Node No. _____NORE NODE NO. ______S98 .126 HYDROGRAPH DISPLAY 5 is # of Hyeto/Hydrograph chosen Volume = .1545599E+04 c.m POND .000 c.m/s 27 5 10 POND POND 6 Depth - Discharge - Volume sets 186.300 .000 .0 .000 .0 814.0 186.600 186.900 .0350 1798.0 187.200 .212 2948.0 187.500 4288.0
 187.500
 .434
 4200.0

 187.800
 1.388
 5819.0

 Peak Outflow
 .026 c.m/s

 Maximum Depth
 186.702 metres

 Maximum Storage
 1150. c.m

 .126
 .598
 .000 c.m/s NEXT LINK 16 .126 CATCHMENT .026 .026 .000 c.m/s 4 16 000 ID No.ó 99999 2.260 Area in hectares Length (PERV) metres Gradient (%) Per cent Impervious Length (IMPERV) 1.000 57.000 122.660 %Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat .000 . 250 Manning "n" SCS Curve No or C Ia/S Coefficient 74.000 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .120 .026 .000 c.m/s .496 C perv/imperv/total .026 098 ADD RUNOFF .120 15 .000 c.m/s .026 .134 27 HYDROGRAPH DISPLAY 5 is # of Hyeto/Hydrograph chosen Volume = .1230932E+04 c.m 14 START 1=Zero; 2=Define COMMENT 35 3 line(s) of comment ********* 5-YEAR STORM EVENT 2 STORM l=Chicago;2=Huff;3=User;4=Cdnlhr;5=Historic Coefficient a Constant b (min) 1 747.930 6.800 .768 Exponent c Fraction to peak r Duration ó 240 min 400 180.000 40.415 mm Total depth 3 IMPERVIOUS Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat 1 .015 Manning "n" SCS Curve No or C 98.000 .100 Ia/S Coefficient Initial Abstraction CATCHMENT 10.000 6.540 TD No 6 99999 Area in hectares 208.820 Length (PERV) metres Gradient (%) Per cent Impervious 1.000 27.000 208.820 Length (IMPERV) %Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat .000 1 .250 Manning "n" SCS Curve No or C 74.000 .100 Ia/S Coefficient 8 924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 1 .000 .026 .869 .383 .283 .000 c.m/s C perv/imperv/total .203 ADD RUNOFF 15 .283 283 026 000 c m/s ROUTE 9 Conduit Length .000 No Conduit defined Zero lag Beta weighting factor 000 . 000 .000 Routing timestep No. of sub-reaches .000 0 .283 COMBINE .283 .283 .000 c.m/s 17 Junction Node No. .283 .283 1 .283 .283 c.m/s START 14 1 1=Zero; 2=Define 4 CATCHMENT 11.000 ID No.ó 99999 3.630 Area in hectares 155 620 Length (PERV) metres 1.000 Gradient (%) Per cent Impervious Length (IMPERV) %Imp. with Zero Dpth 155.620 .000

Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat .250 Manning "n" SCS Curve No or C Ia/S Coefficient 74.000 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 1 .000 .283 .101 .283 c.m/s C perv/imperv/total .203 15 ADD RUNOFF .101 .101 .283 .283 c.m/s 9 ROUTE Conduit Length .000 .000 No Conduit defined Zero lag Beta weighting factor .000 .000 .000 Routing timestep 0 No. of sub-reaches .101 COMBINE .101 .101 .283 c.m/s 17 Junction Node No. 1 .101 .101 .101 .384 c.m/s 18 CONFLUENCE Junction Node No. 1 .101 .384 .101 .000 c.m/s 9 ROUTE .000 Conduit Length .000 No Conduit defined 000 Zero lag Beta weighting factor .000 .000 Routing timestep No. of sub-reaches .101 .384 0 .384 .000 c.m/s COMBINE 17 Junction Node No. .101 .384 1 .384 .384 c.m/s 14 START 1=Zero; 2=Define CATCHMENT 4 14.000 ID No.ó 99999 Area in hectares 39.080 Length (PERV) metres 1 000 Gradient (%) Per cent Impervious 10.000 39.080 Length (IMPERV) .000 Simp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat .250 Manning "n" SCS Curve No or C Ia/S Coefficient 74.000 .100 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .000 .384 .384 c.m/s .862 .269 C perv/imperv/total .004 .203 15 ADD RUNOFF .004 .004 .384 .384 c.m/s CATCHMENT 4 13.000 ID No.ó 99999 .860 Area in hectares 75.910 Length (PERV) metres 1.000 57.000 Gradient (%) Per cent Impervious Length (IMPERV) 75.910 Simp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat Manning "n" .000 1 250 74.000 SCS Curve No or C 100 Ia/S Coefficient 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv 1 .384 c.m/s C perv/imperv/total .004 .384 .579 078 .203 15 ADD RUNOFF .078 .082 .384 .384 c.m/s 9 ROUTE .000 Conduit Length .000 No Conduit defined .000 Zero lag Beta weighting factor .000 Routing timestep .000 No. of sub-reaches 0 .078 .082 082 384 c m/s 17 COMBINE 1 Junction Node No. .082 .078 082 .458 c.m/s CONFLUENCE 18 Junction Node No. 1 .458 .082 .078 .000 c.m/s CATCHMENT 4 12.000 ID No.ó 99999 Area in hectares Length (PERV) metres 3.930 161.880 1.000 Gradient (%) Per cent Impervious Length (IMPERV) 161.880 .000 %Imp. with Zero Dpth Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat .250 Manning "n" SCS Curve No or C Ia/S Coefficient 74.000 .100 8.924 Initial Abstraction Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv .341 .458 .082 .000 c.m/s .563 C perv/imperv/total 203 15 ADD RUNOFF .799 .082 .000 c.m/s .341 9 ROUTE Conduit Length

	.000	No Conduit define Zero lag	d		
	.000	Beta weighting fa	ctor		
	.000	Routing timestep	q		
		341 .799	.799	.000 c.m/s	
17	COMBINE	ation Node No			
		341 .799	.799	.799 c.m/s	
14	START	oro: 2-Dofina			
4	CATCHMEN	T			
	15.000	ID No.ó 99999			
	2.080 117.640	Area in nectares Length (PERV) met	res		
	1.000	Gradient (%)			
	65.000 117.640	Per cent Impervio Length (IMPERV)	us		
	.000	%Imp. with Zero D	pth		
	1 250	Option 1=SCS CN/C Manning "n"	; 2=Horto	n; 3=Green-Ampt; 4=Repeat	
	74.000	SCS Curve No or C			
	.100	Ia/S Coefficient	07		
	1	Option 1=Trianglr	; 2=Recta	nglr; 3=SWM HYD; 4=Lin. Re	eserv
		206 .000	.799	.799 c.m/s	
15	ADD RUNC	203 .854 FF	. 02 /	C perv/imperv/total	
•		206 .206	.799	.799 c.m/s	
9	.000	Conduit Length			
	.000	No Conduit define	d		
	.000	Beta weighting fa	ctor		
	.000	Routing timestep			
		206 .206	s .206	.799 c.m/s	
17	COMBINE	- the second second			
	I Jun	206 .206	.206	1.005 c.m/s	
18	CONFLUEN	CE			
	1 Jun	206 1.005	.206	.000 c.m/s	
27	HYDROGRA	PH DISPLAY			
	5 1S Volume	<pre># of Hyeto/Hydrograj = .3117600E+04 c.m</pre>	pn cnosen		
10	POND				
	6 Depth - 186.300	.000	sets .0		
	186.600	.0220 8	14.0		
	186.900 187.200	.0350 17	98.0 48.0		
	197 500				
	187.500	.434 42	88.0		
	187.800 187.800 Peak Out	.434 42 1.388 58 flow = .103	88.0 19.0 c.m/s		
	187.800 187.800 Peak Out Maximum	.434 42 1.388 58 flow = .103 Depth = 187.015	88.0 19.0 c.m/s metres		
	187.800 187.800 Peak Out Maximum Maximum	.434 42 1.388 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005	88.0 19.0 c.m/s metres c.m .103	.000 c.m/s	
16	187.800 187.800 Peak Out Maximum Maximum NEXT LIN	.434 42 1.388 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 103	88.0 19.0 c.m/s metres c.m .103	.000 c.m/s	
16	187.300 187.800 Peak Out Maximum Maximum	.434 42 1.388 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T	88.0 19.0 c.m/s metres c.m .103 .103	.000 c.m/s .000 c.m/s	
16 4	187.380 187.800 Peak Out Maximum Maximum	.434 42 1.388 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in bectares	88.0 19.0 c.m/s metres c.m .103 .103	.000 c.m/s .000 c.m/s	
16 4	187.380 187.800 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 122.660	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.6 99999 Area in hectares Length (PERV) met	88.0 19.0 c.m/s metres c.m .103 .103 res	.000 c.m/s .000 c.m/s	
16 4	187.380 187.880 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 122.660 1.000 57.000	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio	88.0 19.0 c.m/s metres c.m .103 .103 res	.000 c.m/s .000 c.m/s	
16 4	187.500 187.800 Peak Out Maximum Maximum Maximum CATCHMEN 16.000 2.260 122.660 1.000 57.000 122.660	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV)	88.0 19.0 c.m/s metres c.m .103 .103 res	.000 c.m/s .000 c.m/s	
16 4	187,300 187,800 Peak Out Maximum Maximum NEXT LIN CATCHEEN 16,000 2.260 1.22,660 1.22,	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) %Imp. with Zero D Ontion L=SCS CM/C	88.0 19.0 c.m/s metres c.m .103 .103 res us pth · 2=Horto	.000 c.m/s .000 c.m/s n. 3=Green-Ampt: 4=Beneat	
16	187.300 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 122.660 1.000 57.000 122.660 1.000 57.000 122.661 1.000 122.651 1.0000 1.0000 1.00000 1.0000 1.0000 1.	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) % Imp. with Zero D Option 1=SCS CN/C Manning "n"	88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat	
16 4	187.300 Peak Out Maximum Maximum CATCHMEN 16.000 2.260 122.660 1.000 57.000 122.660 .000 122.660 .000 122.660 .000 122.660 .000 122.660 .0000 .000 .000 .000	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Imperior Length (IMPERV) %Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat	
16 4	187.300 Peak Out Maximum Maximum CATCHMEN 16.000 2.260 122.660 1.000 57.000 122.660 1.000 57.000 122.660 1.000 57.000 122.660 1.000 57.000 122.660 1.000 57.000 1.250 74.000 8.924	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) %Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti	<pre>88.0 19.0 c.m/s metres c.m .103 .103 .103 res us pth ; 2=Horto on</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat	
16 4	187.300 Peak Out Maximum Maximum NEXT LIN NEXT LIN CATCHMEN 16.000 2.260 122.660 1.000 57.000 122.660 1.000 57.000 122.660 1.000 57.000 122.660 1.000 57.000 122.660 1.000 57.000 122.660 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.00000 1.00000 1.000000	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio %Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=Trianglr 198 103	<pre>88.0 19.0 c.m/s metres c.m .103 .103 .103 res us pth ; 2=Horto on ; 2=Recta 103</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re	eserv
16	187.300 187.800 Peak Out Maximum Maximum NEXT LIN NEXT LIN CATCHMEN 16.000 2.260 122.660 1.000 57.000 122.660 1.000 57.000 122.660 1.000 57.000 122.660 1.000 57.000 122.660 1.000 57.000 122.660 1.000 1.000 1.250 74.000 1.000 1.000 1.250 74.000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.00000 1.0000 1.0000 1.0000 1.00000 1.0000 1	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio %Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=Trianglr 198 .103 203 .852	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on .103 .573</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total	sserv
16 4	187.800 187.800 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 122.660 1.000 122.660 1.000 122.660 1.000 122.660 1.000 122.660 1.000 1.250 74.000 1.000 8.924 1 ADD RUNO	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) %Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=Trianglr 198 .103 203 .852 FF 198 .222	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Recta .03 .573 .103</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s	sserv
16 4 15 27	187.800 187.800 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 122.660 120.600 120.600 120.600 100 100 100 100 100 100 100	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) %Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=Trianglr 198 .103 203 .852 FF 198 .222 PH DISPLAY	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Recta .03 .573 .103</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s	bserv
16 4 15 27	187.800 187.800 Peak Out Maximum NEXT LIN CATCHMEN 16.000 2.2660 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.600 100 100 100 100 100 100 100	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) %Imp. with Zero D Option 1=SCS CM/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=Trianglr 198 .103 203 .852 FF 198 .222 PH DISPLAY # of Hyeto/Hydrograg = .2544995±40 c.m	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on ; 2=Recta .103 .573 .103 ph chosen</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s	sserv
16 4 15 27 14	187.500 187.800 Peak Out Maximum Maximum CATCHMEN 16.000 2.2660 122.660 122.660 .000 122.660 .000 122.660 .000 122.660 .000 122.660 .000 122.660 .000 122.660 .000 122.660 .000 122.660 .000 .250 74.000 .100 8.924 1 ADD RUNC YOLUNC	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) %Imp. with Zero D Option 1=SCS CM/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=Trianglr 198 .103 203 .852 FF 198 .222 PH DISPLAY # of Hyeto/Hydrogra; = .2544999E+04 c.m	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on ; 2=Recta .103 .573 .103 ph chosen</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s	SSETV
16 4 15 27 14 35	187.500 187.800 Peak Out Maximum Maximum CATCHMEN 16.000 2.260 122.660 122.660 .000 122.660 .000 122.660 .000 122.660 .000 122.660 .000 122.600 .000 122.600 .000 122.600 .000 .250 74.000 .100 8.924 1 ADD RUNG 	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) % Imp. with Zero D Option 1=SCS CM/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=Sriaglr 198 .103 203 .852 FF 198 .222 PH DISPLAY # of Hyeto/Hydrogra; = .2544999±04 c.m	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on ; 2=Recta .103 .573 .103 ph chosen</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s	SSETV
16 4 15 27 14 35	187.500 187.800 Peak Out Maximum Maximum CATCHMEN 16.000 2.260 1.000 2.260 1.000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 0000 0000 0000 0000 0000 0000 0000	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) % Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=Trianglr 198 .103 203 .852 FF 198 .222 PH DISPLAY # of Hyeto/Hydrograft = .2544999E+04 c.m	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on ; 2=Recta .103 .573 .103 ph chosen</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s	SSETV
16 4 15 27 14 35	187.500 187.800 Peak Out Maximum Maximum CATCHMENT 16.000 2.260 1.000 57.000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 0000 000 0000 0000 0000 0000 0000	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) % Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=SCS N/C Manning 'n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=Trianglr 198 .103 203 .852 FF 198 .222 PH DISPLAY # of Hyeto/Hydrograf = .2544999E+04 c.m ero; 2=Define e(s) of comment *****	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on .103 .573 .103 ph chosen</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s	9995.
16 4 15 27 14 35	187.500 187.800 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 122.660 1.000 57.000 1.000 57.000 1.255 57.000 1.000 57.000 1.000 57.000 1.000 57.000 1.000 57.000 1.000 57.000 1.000 57.000 1.000 57.000 1.000 5.000 5.0000 5.0000 5.0000 5.0000 5.0000 5.0000 5.0000 5.0000 5.0000 5.0000 5.0000 5.00000 5.0000 5.0000 5.0000 5.00000 5.0000000	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (PERV) met Gradient (%) Per cent Impervio Length (PERV) met Gradient (%) Per cent Impervio Length (DERV) % Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=Trianglr 198 .103 203 .852 FF 198 .222 PH DISPLA¥ # of Hyeto/Hydrogra; = .2544999E+04 c.m ero; 2=Define e(s) of comment *****	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on ; 2=Recta .103 .573 .103 ph chosen</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s	DSETV
16 4 15 27 14 35 2	187.500 187.800 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 122.660 1000 122.660 122.660 1000 122.660 1000 122.660 1000 122.660 1000 1000 122.660 1000 1000 122.600 1000 122.660 1000	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (PERV) met Gradient (%) Per cent Impervio Length (PERV) met Gradient (%) Per cent Impervio Length (DERV) % Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=Trianglr 198 .103 203 .852 FF 198 .222 PH DISPLAY # of Hyeto/Hydrogra; = .2544999E+04 c.m ero; 2=Define e(s) of comment ***** 1=Chicago;2=Huff;	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on ; 2=Recta .103 .573 .103 ph chosen</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s	DSETV
16 4 15 27 14 35 2	187.500 187.800 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.661 122.67 100 8.924 1 .000 8.924 1 .000 .000 .000 1.250 74.000 .000 1.250 74.000 .000 1.250 74.000 .000 1.250 74.000 .000 1.250 74.000 .000 1.250 74.000 .000 1.250 74.000 .000 1.250 74.000 .0000 .000 .000 .000 .000 .000 .000 .000 .000	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) % Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=Trianglr 198 .103 203 .852 FF 198 .222 PH DISPLAY # of Hyeto/Hydrogra; = .2544999E+04 c.m ero; 2=Define e(s) of comment ****** 1=Chicago;2=Huff; Coefficient a	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on ; 2=Recta .103 .573 .103 ph chosen 3=User;4= </pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s Cdnlhr;5=Historic	bserv
16 4 15 27 14 35 2	187.300 187.800 Peak Out Maximum Maximum Aximum CATCHMEN 16.000 2.260 122.660 1.000 122.660 1.000 122.660 1.000 122.660 1.000 122.660 1.000 122.660 1.000 122.660 1.000 1.000 8.924 1 HYDROGRA 5 is Volume START 1 l=z COMMENT 3 lin ******** 100-YEAR 1100-YEAR 11	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) % Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=Trianglr 198 .103 203 .852 FF 198 .222 PH DISPLAY # of Hyeto/Hydrogra; = .2544999E+04 c.m ero; 2=Define e(s) of comment ***** 1=Chicago;2=Huff; Coefficient a Constant b (m Exponent c	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on ; 2=Horto on .103 .573 .103 ph chosen 3=User;4= in)</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s Cdnlhr;5=Historic	sserv
16 4 15 27 14 35 2	187.500 187.800 Peak Out Maximum Maximum CATCHMEN 16.000 2.260 122.660 1000 8.924 1 HYDROGRA 5 is Volume START 1 == COMMENT 3 lin ******* 100-YEAR ******* 100-YEAR ******* 100-YEAR ******* 100-YEAR *******	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) met Gradient (%) Per cent Impervio Length (IMPERV) % Imp. with Zero D Option 1=SCS CM/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=Trianglr 198 .103 203 .852 FF 198 .222 PH DISPLAY # of Hyeto/Hydrogra; = .2544999E+04 c.m ero; 2=Define e(s) of comment ***** 1=Chicago;2=Huff; Coefficient a Constant b (m Exponent c Fraction to peak	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on ; 2=Recta .103 .573 .103 ph chosen 3=User;4= in) r</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s Cdnlhr;5=Historic	SSETV
16 4 15 27 14 35 2	187.500 187.800 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.600 100 8.924 1 ADD RUNC HYDROGRENT 1 1=Z COMMENT 3 1in 1.00-YEAR ******* 100-YEAR ******* 100-YEAR ******* 100-YEAR *******	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) % Imp. with Zero D Option 1=SCS CM/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=Trianglr 198 .103 203 .852 FF 198 .222 PH DISPLAY # of Hyeto/Hydrogra; = .2544999E+04 c.m ero; 2=Define e(s) of comment ***** 1=Chicago;2=Huff; Coefficient a Constant b (m Exponent c Fraction to peak Duration ó 240 m 75.636 mm Tota	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on ; 2=Recta .103 .573 .103 ph chosen 3=User;4= in) r in l depth</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat ng1r; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s Cdn1hr;5=Historic	BSETV
16 4 15 27 14 35 2	187.500 187.800 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.600 100 8.924 1 1 1 1 1 1 1 1 1 1 1 1 1	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) % Imp. with Zero D Option 1=SCS CM/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti- Option 1=STianglr 198 .103 203 .852 FF 198 .222 PH DISPLAY # of Hyeto/Hydrogra; = .2544999E+04 c.m ero; 2=Define e(s) of comment ***** STORM EVENT ***** 1=Chicago;2=Huff; Coefficient a Constant b (m Exponent c Fraction to peak Duration ó 240 m T5.636 mm Tota	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on ; 2=Recta .103 .573 .103 ph chosen 3=User;4= in) r in l depth c.c.</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat ng1r; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s Cdn1hr;5=Historic	sserv
16 4 15 27 14 35 2 3	187.500 187.800 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 122.660 122.660 122.660 122.660 122.660 122.660 122.660 122.600 100 100 100 100 100 100 100	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) % Imp. with Zero D Option 1=SCS CM/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=SCS CM/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=SCS CM/C Manning : 203 .852 FF 198 .222 FH DISPLAY # of Hyeto/Hydrogra; = .2544999E+04 c.m ero; 2=Define e(s) of comment ***** 1=Chicago;2=Huff; Coefficient a Constant b (m Exponent c Fraction to peak Duration ó 240 m 75.636 mm Tota US Option 1=SCS CM/C Manning "n"	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on ; 2=Recta .103 .573 .103 ph chosen 3=User;4= in) r in l depth ; 2=Horto</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Rd .000 c.m/s C perv/imperv/total .000 c.m/s Cdnlhr;5=Historic n; 3=Green-Ampt; 4=Repeat	sserv
16 4 15 27 14 35 2 3	187.500 187.800 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 122.660 1.000 1.0000 1.00000 1.00000 1.00000 1.00000 1.000000 1.000000 1.000000	.434 42 1.386 58 flow = .103 Storage = 2240. 206 1.005 K 206 1.005 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) % Imp. with Zero D Option 1=SCS CM/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=Trianglr 198 .103 203 .852 FF 198 .222 PH DISPLAY # of Hyeto/Hydrogra; = .2544999±04 c.m ero; 2=Define e(s) of comment ***** 1=Chicago;2=Huff; Coefficient a Constant b (m Exponent c Fraction to peak Duration ó 240 m 75.636 mm Tota US Option 1=SCS CM/C Manning "n" SCS Curve No or C SCS Curve No or C	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on .103 .103 ph chosen 3=User;4= in) r in l depth ; 2=Horto</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s Cdnlhr;5=Historic n; 3=Green-Ampt; 4=Repeat	BSETV
16 4 15 27 14 35 2 3	187.800 187.800 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 122.660 1.000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 122.660 000 00 015 98.000 100 015 98.000 100 015 98.000 001 001 001 001 000 015 0000 0000 0000 0000 0000 0000 0000 	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) % Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=SCS CN/C Manning "n" strate to the second e(s) of comment ****** 1=Chicago;2=Huff; Coefficient a Constant b (m Exponent c Fraction to peak Duration ó 240 m 75.636 mm Tota US Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on .103 .573 .103 ph chosen 3=User;4= in) r in l depth ; 2=Horto on</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s Cdn1hr;5=Historic n; 3=Green-Ampt; 4=Repeat	sserv
16 4 15 27 14 35 2 3 3	187.800 187.800 Peak Out Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 1.000 57.000 122.660 .000 122.660 .000 122.660 .100 8.924 1 .250 74.000 .100 8.924 1 .250 74.000 .100 8.924 1 .250 74.000 .100 8.924 1 .250 .250 74.000 .100 8.924 1 .250 .250 .250 .250 .250 .000 .100 8.924 .11 .250 .250 .100 .100 .250 .100	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) % Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. Option 1=Trianglr 198 .103 203 .852 FF 198 .222 PH DISPLAY # of Hyeto/Hydrograg = .2544999E+04 c.m ero; 2=Define e(s) of comment ***** 1=Chicago;2=Huff; Coefficient a Constant b (m Exponent c Fraction to peak Duration ó 240 m 75.636 mm Tota US Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti. T	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on .103 .103 ph chosen 3=User;4= in) r in l depth ; 2=Horto on</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s Cdnlhr;5=Historic n; 3=Green-Ampt; 4=Repeat	DSGIV
16 4 15 27 14 35 2 3 3	187.800 Peak Out Maximum Maximum Maximum NEXT LIN CATCHMEN 16.000 2.260 1.000 57.000 122.660 1.000 57.000 122.660 1.000 57.000 122.660 1.000 57.000 122.660 1.000 57.000 12.660 1.000 5.100 1.000 5.18 CATCHMEN 1.0000 5.18 CATCHMEN 1.0000 5.18 CATCHMEN 1.0000 5.18 CATCHMEN 1.0000 5.18 CATCHMEN 1.0000 5.0000 5.18 CATCHMEN 1.0000 5.0000 5.18 CATCHMEN 1.0000 5.0000 5.00000 5.18 CATCHMEN 1.0000 5.00000 5.18 CATCHMEN 1.0000 5.00000 5.000000 5.0000000 5.18 CATCHMEN 5.000000000000000000000000000000000000	.434 42 1.386 58 flow = .103 Depth = 187.015 Storage = 2240. 206 1.005 K 206 .103 T ID No.ó 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (DERV) % Imp. with Zero D Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient 198 .222 PH DISPLAY # of Hyeto/Hydrograg = .2544999E+04 c.m ero; 2=Define e(s) of comment ***** 1=Chicago;2=Huff; Coefficient a Constant b (m Exponent c Fraction to 2e40 Duration ó 240 Option 1=SCS CN/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti T ID No.ó 99999 Area in hectares	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on .103 .103 ph chosen 3=User;4= in) r in l depth ; 2=Horto on on</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s Cdnlhr;5=Historic	9995TV
16 4 15 27 14 35 2 3 3	187.800 187.800 Peak Out Maximum Maximum Maximum CATCHMEN 16.000 2.260 122.660 1.000 57.000 122.660 100 8.924 1 ADD RUNO HYDROGRA 5 is Volume Volume START 1 1=z COMMENT 3 lin ******* 100-YEAR 1100-YEAR 100-YEAR	.434 42 1.386 58 flow = .103 Depth = 187.035 Storage = 2240. 206 1.005 K 206 .103 T ID No.6 99999 Area in hectares Length (PERV) met Gradient (%) Per cent Impervio Length (IMPERV) %Imp. with Zero D; Option 1=SCS CM/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti Option 1=SCS CM/C Manning "n" SCS Curve No or C Ia/S Coefficient 198 .103 203 .852 FF .222 PH DISPLAY # of Hyeto/Hydrogra; = .2544999E+04 c.m e(s) of comment ***** 1=Chicago;2=Huff; Coefficient a Constant b (m Exponent c Fraction to peak Duration ó 240 m 75.636 mm Tota US Option 1=SCS CM/C Manning "n" SCS Curve No or C Ia/S Coefficient Initial Abstracti T ID No.6 99999 Area in hectares Length (PERV) met	<pre>88.0 19.0 c.m/s metres c.m .103 .103 res us pth ; 2=Horto on ; 2=Recta .103 .573 .103 ph chosen 3=User;4= in) r in 1 depth ; 2=Horto on res</pre>	.000 c.m/s .000 c.m/s n; 3=Green-Ampt; 4=Repeat nglr; 3=SWM HYD; 4=Lin. Re .000 c.m/s C perv/imperv/total .000 c.m/s Cdnlhr;5=Historic	358FTV

	27 000	Per cent	Imperizione		
	208.820	Length (IMPERV)		
	.000	%Imp. wi	th Zero Dpt	h	
	1	Option 1	=SCS CN/C;	2=Horton;	3=Green-Ampt; 4=Repeat
	.250	Manning	"n"		
	74.000	SCS Curv	e No or C		
	. 100	Ia/S Coe	fficient Abstraction		
	1	Option 1	=Trianglr;	2=Rectangl	r: 3=SWM HYD: 4=Lin. Reserv
	. 5	14	.000	.103	.000 c.m/s
	. 3	77	.912	.522 C	perv/imperv/total
15	ADD RUNOF	F			
	.5	14	.514	.103	.000 c.m/s
9	ROUTE				
	.000	Conduit	Length		
	.000	Zero lag	it derined		
	000	Beta wei	abting fact	or	
	.000	Routing	timestep		
	0	No. of s	ub-reaches		
	. 5	14	.514	.514	.000 c.m/s
17	COMBINE				
	.5	14	.514	.514	.514 c.m/s
14	START				
	1 1=Ze:	ro; 2=Def	ine		
4	CATCHMENT				
	11.000	ID No.ó	99999		
	3.630	Area in	hectares		
	1 000	Length ((%) metre	S	
	17 000	Per cent	(*) Tmpervious		
	155.620	Length (IMPERV)		
	.000	%Imp. wi	th Zero Dpt	h	
	1	Option 1	=SCS CN/C;	2=Horton;	3=Green-Ampt; 4=Repeat
	.250	Manning	"n"		
	74.000	SCS Curv	e No or C		
	.100	Ia/S Coe	fficient		
	8.924	Initial	Abstraction		
	1	Option 1	=Trianglr;	2=Rectang1	r; 3=SWM HYD; 4=Lin. Reserv
	.2	77	913	468 0	.514 C.M/S
15	ADD RUNOF	,, F	.915	.400 0	perv/imperv/cocar
	.2	01	.201	.514	.514 c.m/s
9	ROUTE				
	.000	Conduit	Length		
	.000	No Condu	it defined		
	.000	Zero Lag			
	.000	Beta Wel	ghting fact	or	
	.000	No of s	ub-reaches		
	.2	01	.201	.201	.514 c.m/s
35	COMMENT				
	1 line	(s) of co	mment		
	1 line MAJOR FLO	(s) of co WS ABOVE	mment 5-YEAR SURC	HARGE OVER	LAND A11 TO OUTLET
12	1 line MAJOR FLO DIVERT	(s) of co WS ABOVE	mment 5-YEAR SURC	HARGE OVER	LAND A11 TO OUTLET
12	1 line MAJOR FLO DIVERT 50	(s) of co NS ABOVE U/S Node	mment 5-YEAR SURC No.ó 99999	HARGE OVER	LAND All TO OUTLET
12	1 line MAJOR FLO DIVERT 50 .101 116	(s) of co NS ABOVE U/S Node Threshol Max Out	mment 5-YEAR SURC No.ó 99999 d Discharge flow regd	HARGE OVER	LAND All TO OUTLET
12	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Di	mment 5-YEAR SURC No.ó 99999 d Discharge flow reqd. verted =	HARGE OVER .085 c.	LAND All TO OUTLET m/s 210.3 c.m
12	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f.	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver	mment 5-YEAR SURC No.ó 99999 d Discharge flow reqd. verted = ted	HARGE OVER .085 c.	LAND All TO OUTLET m/s 210.3 c.m
12	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f. .2	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver	mment 5-YEAR SURC d Discharge flow reqd. verted = ted .201	HARGE OVER .085 c. .116	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s
12	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f .2 COMBINE	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver D1	mment 5-YEAR SURC No.ó 99999 d Discharge flow reqd. verted = ted .201	HARGE OVER .085 c. .116	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s
12	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f .2 COMBINE 1 Junc 2	<pre>(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver D1 tion Node 01</pre>	mment 5-YEAR SURC No.ó 99999 d Discharge flow reqd. verted = ted .201 No. 201	HARGE OVER .085 c. .116	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s
12 17 18	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f .2 COMBINE 1 Junc .2 CONFLUENC	<pre>(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver D1 tion Node D1 s</pre>	mment 5-YEAR SURC No.ó 99999 d Discharge flow reqd. verted = ted .201 No. .201	HARGE OVER .085 c. .116 .116	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s
12 17 18	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f .2 COMBINE 1 Junc 1 Junc 1 Junc	<pre>(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver D1 tion Node D1 E tion Node</pre>	nmment 5-YEAR SURC No.ó 999999 d Discharge flow reqd. verted = ted .201 No. .201 No.	HARGE OVER .085 c. .116 .116	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s
12 17 18	1 line MAJOR FLAT 50.01 .116 Qmax No f .2 COMBINE 1 Junc .2 CONFLUENC 1 JUNC .2	<pre>(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver D1 tion Node D1 E tion Node D1</pre>	mment 5-YEAR SURC No.6 99999 d Discharge flow reqd tlow reqd .201 No. .201 No. .630	HARGE OVER .085 c. .116 .116 .116	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s
12 17 18 9	1 line MAJOR FIO DIVERT 50 .101 .116 Qmax No f .2 COMBINE 1 Junc .2 CONFLUENC 1 JUNC 2 ROUTE	<pre>(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver D1 tion Node D1 E tion Node D1</pre>	mment 5-YEAR SURC No.6 99999 d Discharge flow reqd. verted = ted .201 No. .201 No. .630	HARGE OVER .085 c. .116 .116 .116	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s
12 17 18 9	1 line MAJOR FA 50 .101 .116 Qmax No f .2 COMBINE COMBINE CONFLUENC 1 JUNC 2 CONFLUENC 1 JUNC 2 CONFLUENC 1 JUNC	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver Di tion Node Di tion Node Di Conduit	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .630 Length	HARGE OVER .085 c. .116 .116 .116	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s
12 17 18 9	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f .2 COMBINE 1 JUNC 2 CONFLUENC 1 JUNC 1 JUNC 2 ROUTE .000 .000	(s) of co wS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver Di tion Node Di S tion Node Di Conduit No Condu	mment 5-YEAR SURC No.6 99999 d Discharge flow reqd. verted = ted .201 No. .201 No. .630 Length it defined	HARGE OVER .085 c. .116 .116 .116	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s
12 17 18 9	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f .22 COMBINE 1 JUNC CONFLUENC 1 JUNC 2 CONFLUENC 1 JUNC 2 CONFLUENC 1 JUNC 000 .000 .000	(s) of co wS ABOVE U/S Node Threshol Max. Out \$ vol.Di low diver D1 tion Node D1 S tion Node D1 Conduit No Condu Zero lag Reta woi	mment 5-YEAR SURC No.6 99999 d Discharge flow reqd. verted = ted .201 No. .201 No. .630 Length it defined	HARGE OVER .085 c. .116 .116 .116	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s
12 17 18 9	1 line MAJOR FLA DIVERT 50 .101 .116 Qmax No f .2 COMFINE CONFLUENC CONFLUENC CONFLUENC CONFUENC 1 JUNC .2 ROUTE .000 .000 .000 .000	(s) of co wS ABOVE U/S Node Threshol law diver bion Node bi conduit No Conduit Zero lag Beta wei Routing	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .630 Length it defined ghting fact timestep	HARGE OVER .085 c. .116 .116 .116 or	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s
12 17 18 9	1 line MAJOR FLO DIVERT 50 .101 .116 @max No f .2 COMBINE 1 JUNC 2 CONFLUENC 1 JUNC 1 JUNC 2 ROUTE .000 .000 .000 .000 0	(s) of co wS ABOVE U/S Node Threshol Max. Out & Vol.Di Low diver D1 tion Node D1 Conduit No Condu Zero lag Beta wei Routing No. of s	mment 5-YEAR SURC No.6 999999 d Discharge flow reqd. verted = ted .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches	HARGE OVER .085 c. .116 .116 .116 or	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s
12 17 18 9	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f. .22 COMBINE 1 JUNC 2 CONFLUENC 1 JUNC 1 JUNC 2 CONFLUENC 1 JUNC 0.000 .000 .000 .000 .000 .000 .000	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Do low diver Di tion Node Di Conduit No Condu Zero lag Beta wei Routing No. of s Di	mment 5-YEAR SURC No.6 99999 d Discharge flow reqd. verted = ted .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630	HARGE OVER .085 c. .116 .116 .116 .116 or .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s
12 17 18 9	1 line MAJOR FIO DIVERT 50 .101 .116 Qmax No f .2 COMBINE 1 Junc .2 COMBINE 1 Junc .2 CONFLUENC 1 JUNC .000 .000 .000 .000 .000 .000 .000 .0	(s) of co ws ABOVE U/S Node Threshol & vol.Di low diver Di tion Node Di Conduit No Conduit Zero lag Beta wei Routing No. of s Di	mment 5-YEAR SURC No.6 99999 d Discharge flow reqd. verted = ted .201 No. .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630	HARGE OVER .085 c. .116 .116 .116 or .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s
12 17 18 9	1 line MAJOR F1 50 .101 .116 Qmax No f .2 COMBINE 1 Junc .2 CONFLUE .000 .000 .000 .000 .000 .000 .000 .0	(s) of co wS ABOVE U/S Node Threshol law diver D1 tion Node D1 Conduit No Conduit No Conduit Zero lag Beta wei Routing No. of s D1 tion Node	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630	HARGE OVER .085 c. .116 .116 .116 or .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .000 c.m/s
12 17 18 9	1 line MAJOR FLO DIVERT 50 .101 .116 	(s) of co WS ABOVE U/S Node Threshol Nax. Out & Vol.Do low diver Di tion Node Di Conduit No Conduit Zero lag Beta wei Routing No. of s Di tion Node Di tion Node Di	mment 5-YEAR SURC No.6 99999 d Discharge flow reqd. verted = ted .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630	HARGE OVER .085 c. .116 .116 .116 .116 or .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s
12 17 18 9 17 14	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f. .2 COMBINE 1 JUNC .000 .000 .000 .000 .000 .000 .000 .0	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver Di tion Node Di Conduit No Conduit No Conduit No Conduit No Conduit Even lag Beta wei Routing No. of s Di tion Node Di co; 2=Def	mment 5-YEAR SURC No.6 99999 d Discharge flow reqd. verted = ted .201 No. .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FJA JUVERT 50 .101 .116 Qmax No f .2 COMBINE 1 Junc .2 COMFILUENC 1 JUNC .000 .000 .000 .000 .000 .000 .000 .0	(s) of co wS ABOVE U/S Node Threshol Max. Out & vol.Di low diver Di tion Node Di Conduit No Conduit Zero lag Beta wei Routing No. of s Di tion Node Di conduit No Conduit zero lag beta wei routing No. of s Di	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630	HARGE OVER .085 c. .116 .116 .116 .116 or .630 .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 @max No f .2 COMEINE 1 JUNC 2 COMEINE 1 JUNC .2 ROUTE .000 .000 .000 .000 .000 .000 .000 .0	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.pb low diver Dl tion Node Dl Conduit No Conduit Zero lag Beta wei Routing No. of s Dl tion Node Dl tion Node Dl tion Node Dl En Routing No. of s Dl To S 2=Def ID No.ó	mment 5-YEAR SURC No.6 99999 d Discharge d Discharge ted 201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630 ine 99999	HARGE OVER .085 c. .116 .116 .116 or .630 .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f. .2 COMBINE 1 JUNC 2 COMFLUENC 1 JUNC .000 .000 .000 .000 .000 .000 .000 .0	<pre>(s) of co ws ABOVE U/S Node Threshol Max. Out & Vol.Di low diver D1 tion Node D1 Conduit No Conduit No Conduit Routing No. of s D1 tion Node D1 co; 2=Def ID No.ó Area in</pre>	mment 5-YEAR SURC No.6 99999 d Discharge flow reqd. verted = ted .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 ine 99999 hoctares	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .000 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FIO DIVERT 50 .101 .116 Qmax No f .2 COMBINE 1 Junc .2 COMBINE 1 JUNC .000 .000 .000 .000 .000 .000 .000 .0	(s) of co ws ABOVE U/S Node Threshol (a vol.Di low diver bi tion Node Di Conduit No Conduit No Conduit Zero lag Beta wei Routing No. of s Di tion Node Di To No. co fund Zero lag Beta wei Fout of s Di Di Di Di No. co Autor Di No. co Autor Di Di No. co Autor Di No. co Autor Di Di No. co Autor Di No. co Di Di Di Di No. co Di Di Di Di Di Di Di Di Di Di Di Di Di	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630 ine 99999 hectares PERV) metre	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f 20 COMEINE 1 JUNC 2 COMFLUENC 1 JUNC 2 ROUTE .20 ROUTE .000 .000 .000 .000 .000 .000 .000 .0	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.poi low diver bl tion Node D1 Conduit No Conduit Zero lag Beta wei No. of s D1 tion Node D1 tion Node D1 tion Node D1 tion Node D1 tion Node D1 To Soft Area in Length (Gradient Per cont Per cont Soft Conduit No. of s D1 Conduit No. of s D1 D1 Conduit No. of s D1 D1 Conduit Conduit No. of s D1 Conduit No. of s D1 Conduit No. of s D1 Conduit Conduit No. of s D1 Conduit Cond	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630 ine 99999 hectares PERV) metre (%)	HARGE OVER .085 c. .116 .116 .116 or .630 .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f. .2 COMBINE 1 JUNC 2 COMFLUENC 1 JUNC .2 ROUTE .000 .000 .000 .000 .000 .000 .000 .0	(s) of co WS ABOVE WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver D1 tion Node D1 Conduit No Conduit No Conduit Routing No. of s D1 tion Node D1 co; 2=Def ID No.ó Area in Length (Gradient Per cent Length (mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 ine 99999 hectares PERV) metre (%) Impervious	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 s	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f. .2 COMBINE 1 Junc .2 COMBINE 1 JUNC .000 .000 .000 .000 .000 .000 .000 .0	(s) of co ws ABOVE U/S Node Threshol Max. Out & vol.Di low diver Di tion Node Di Conduit No Conduit Zero lag Beta wei Routing No. of s Di Lion Node Di Di Conduit I No Conduit Zero lag Beta wei Routing No. of s Di Lon.ó Area in Length (Gradient Per cent (Simo, wi	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .201 No. .630 Jength it defined ghting fact timestep ub-reaches .630 No. .630 No. .630 No. .630 Inne 99999 hectares PERV) metre (%) Impervious IMPERV)	HARGE OVER .085 c. .116 .116 .116 .630 .630 s	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f 2 COMBINE 1 JUNC 2 COMBINE 1 JUNC 2 CONFLUENC 1 JUNC 2 CONFLUENC 1 JUNC 2 COMBINE 1 JUNC 2 COMBINE 1 LICE 2 COMBINE 1 LICE 2 COMBINE 2 COMBINE 1 LICE 2 COMBINE 1 LICE 2 COMBINE 2 COMBINE 1 LICE 2 COMBINE 1 LICE 2 COMBINE 2 COMBINE 1 LICE 2 COMBINE 2 COMBINE 2 COMBINE 2 COMBINE 2 COMBINE 2 COMBINE 2 COMBINE 2 COMBINE 2 COMBINE 2 COMBINE 2 COMBINE 2 COMBINE 2 COMBINE 2 COMBINE COMBINE 2 COMBINE COMBINE 2 COMBINE COMBINE COMBINE 2 COMBINE 2 COMBINE	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Do low diver bl tion Node Dl Conduit No Condu Zero lag Beta wei No. of s Dl tion Node Dl tion Node Dl tion Node Dl to No. d Sab Conduit Routing No. of s Dl Londo Length (Gradient Per cent Length (% SIMP. Wi Option 1	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .630 Length it defined dhting fact timestep ub-reaches .630 No. .630 ine 99999 hectares PERV) metre (%) Impervious IMPERV) th Zero Dpt =SCS CN/C;	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 s h 2=Horton;	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 ComBINE 1 Junc 2 COMBINE 1 JUNC 2 CONFLUENC 1 JUNC .2 ROUTE .000 .000 .000 .000 .000 .000 .000 .0	(s) of co WS ABOVE WS ABOVE U/S Node Threshol Max. Out & Vol.01 low diver D1 tion Node D1 Conduit No Conduit Too Conduit Routing No. of s D1 tion Node D1 tion	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630 ine 99999 hectares PERV) metre (%) Impervious Impervious the Zero Dpt =SCS CN/C; "n"	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 s h 2=Horton;	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f .2 COMBINE 1 Junc CONFLUENC 1 JUNC .000 .000 .000 .000 .000 .000 .000 .0	(s) of co WS ABOVE WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver Di tion Node Di Conduit Eton Node Di Conduit Zero lag Beta wei Routing No. condu Zero lag Beta wei Routing No. of s Di ID No.ć Area in Length (Gradient Per cent Length (Wimp. wi Option 1 Manning SCS Curv	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .630 length it defined ghting fact timestep ub-reaches .630 No. .630 No. .630 ine 99999 hectares PERV) metre (%) IMpervious IMpervious IMPErV) th Zero Dpt =SCS CN/C; "n" e No or C	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 s h 2=Horton;	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f 2 COMBINE 1 JUNC 2 CONFLUENC 1 JUNC 2 CONFLUENC 1 JUNC 2 CONFLUENC 1 JUNC 2 COMBINE 1 JUNC 2 COMBINE 1 L=2e CATCEMENT 1 4.000 .200 39.080 1.000 10.000 39.080 1.000 1.250 74.000 .100	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Do low diver bl tion Node Dl Conduit No Condu Zero lag Beta wei No. of s Dl tion Node Dl tion Node Dl tion Node Dl to Schult Routing No. of s Dl tho Node Dl tho Schult Schut	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630 ine 99999 hectares PERV) metre (%) IMPERV) th Zero Dpt =SCS CN/C; "n"	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 s h 2=Horton;	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 ComBINE 1 Junc 2 COMBINE 1 JUNC 2 CONFLUENC 1 JUNC 1 JUNC 2 COMFLUENC 1 JUNC 2 COMFLUENC 1 JUNC 1 JUNC 2 COMBINE 1 JUNC 2 COMBINE 2 COMBINE 1 JUNC 2 COMBINE 1 JUNC 2 COMBINE	(s) of co WS ABOVE WS ABOVE U/S Node Threshol Nax. Out & Vol.01 low diver D1 tion Node D1 Conduit No Conduit Ton Node D1 Conduit Routing No. of s D1 tion Node D1 tion Node D1 tion Node D1 co; 2=Def ID No.ô Area in Length (Sradient Per cent Length (% Imp. wi Option 1 Manning SCS Curv Ia/S Coe Initial	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630 ine 99999 hectares PERV) metre V(%) Impervious Impervious Impervious the Zero Dpt =SCS CN/C; "n" e No or C C fiscient Abstraction	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 s h 2=Horton;	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .000 c.m/s .630 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FIO DIVERT 50 .101 .116 Qmax No f. .2 COMBINE 1 Junc .000 .000 .000 .000 .000 .000 .000 .0	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver Di tion Node Di Conduit Co	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .630 length it defined ghting fact timestep ub-reaches .630 No. .630 ine 99999 hectares PERV) metre (%) IMpervious IMpervious IMPERV) th Zero Dpt =SCS CN/C; "n" e No or C fficient Abstraction	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 .630 s h 2=Horton; 2=Rectangl	LAND All TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s .630 c.m/s 3=Green-Ampt; 4=Repeat r; 3=SWM HYD; 4=Lin. Reserv
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f 2. COMBINE 1 JUNC 2. CONFLUENC 1 JUNC 2. ROUTE .200 .000 .000 .000 .000 .000 .000 .00	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Do low diver bl tion Node Dl Conduit No Condu Zero lag Beta wei Routing No. of s Dl tion Node Dl tion Node Dl tion Node Dl to Scruting No. of s Dl tion Node Dl ID No.ó Area in Length (Gradient Per cent Length (Strup, wi Option 1 Manning SCS Curv In/SCS Curv In/	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .630 Jength it defined ghting fact timestep ub-reaches .630 No. .630 IMPERV) th Zero Dpt #Zero Dpt Hartaction J. .630 IMPERVI No Retre .630 IMPERVI .630 .757 .7777 .7777 .7777 .7777 .7777 .7777 .7777 .7777 .7777 .7777 .7777 .7777 .7777 .77777 .77777 .77777 .77777 .77777777	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 s h 2=Horton; 2=Rectangl .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .000 c.m/s .630 c.m/s 3=Green-Ampt; 4=Repeat r; 3=SWM HYD; 4=Lin. Reserv .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 COMBINE 1 JUNC 2 COMBINE 1 JUNC 2 CONFLUENC 1 JUNC 2 CONFLUENC 1 JUNC 2 COMFINE 1 JUNC 2 COMFINE COMFINE COMFINE COMFINE COMFINE COMFINE COMFINE C	(s) of co WS ABOVE WS ABOVE U/S Node Threshol Max. Out & Vol.Do low diver Dl tion Node Dl Conduit To Conduit To Conduit Routing No. of s Dl tion Node Dl tion Node Dl tion Node Dl to Conduit Routing No. of s Dl tion Node Dl tion Node Dl tion Node Dl TD No.ó Area in Length (Sradient (%Imp. wi Option 1 Manning SCS Curv Ia/S Corv Initial Option 1 77 75	<pre>mment 5-YEAR SURC No.6 99999 d Discharge flow reqd. verted = ted .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630 ine 99999 hectares PERV) metre (%) Impervious Impervious th Zero Dpt =SCS CN/C; "n" e No or C fficient Abstraction =Trianglr; .000 .911</pre>	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 s h 2=Horton; 2=Rectangl .630 .430 c	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .000 c.m/s .630 c.m/s 3=Green-Ampt; 4=Repeat r; 3=SWM HYD; 4=Lin. Reserv .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f .2 COMBINE 1 Junc COMBINE 1 JUNC 2 ROUTE 000 .000 .000 .000 .000 .000 .000	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver Di tion Node Di Conduit No Conduit Conduit No Conduit Conduit No Conduit Etion Node Di Reta wei Beta wei Di To No Conduit Conduit No Conduit To No Conduit Conduit No Conduit No Conduit Di Conduit No Conduit Scotta Di Di Conduit No Conduit No Conduit No Conduit Conduit No Conduit Di C	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .201 No. .630 ine 99999 hectares PERV) metre (%) Impervious Impervious IMPERV) th Zero Dpt =SCS CN/C; "n" e No or C fficient Abstraction =Trianglr; .000 .311 .017	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 .630 s h 2=Horton; 2=Rectangl .630 .430 c .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .000 c.m/s .630 c.m/s 3=Green-Ampt; 4=Repeat r; 3=SWM HYD; 4=Lin. Reserv .630 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f 2000 .001 .000 .000 .000 .000 .000 .000	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Do low diver bl tion Node Dl Conduit No Condu Zero lag Beta wei Routing No. of s Dl tion Node Dl tion Node Dl tion Node Dl too; 2=Def ID No.ó Area in Length (Gradient Per cent Length (% SIMP. Wi Option 1 Manning SCS Curv In/SCS Curv In/S	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .201 No. .630 Jungth it defined ghting fact timestep ub-reaches .630 No. .630 .77 .77 .77 .000 .911 .017	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 s h 2=Horton; 2=Rectangl .630 .430 C .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .000 c.m/s .630 c.m/s 3=Green-Ampt; 4=Repeat r; 3=SWM HYD; 4=Lin. Reserv .630 c.m/s perv/imperv/total .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 COMBINE 1 JUNC 2 COMBINE 1 JUNC 2 CONFLUENC 1 JUNC .2 ROUTE .2 ROUTE .2 ROUTE .2 ROUTE .2 CONFLUENC 1 JUNC .2 COMBINE 1 JUNC .2 COMBINE 1 JUNC .200 .000 .000 .000 .000 .000 .000 .00	(s) of co WS ABOVE U/S Node Threshol Max. Out & Vol.Do low diver Dl tion Node Dl Conduit No Conduit Etion Node Dl Conduit No Conduit Routing No. of s Dl tion Node Dl tion Node Dl tion Node Dl tion Node Dl TD No.ô Area in Length (Strain 1 Per cent Length (Strain 1 SCS Curv Ia/S Curv Ia/S Corv Infi Nanning SCS Curv Ia/S Curv Ia/S Corv Infi ID No.ô	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630 ine 99999 hectares PERV) metre (%) Impervious Impervious th Zero Dpt =SCS CN/C; "n" e No or C fficient Abstraction =Trianglr; .000 .911 .017 99999	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 s h 2=Horton; 2=Rectangl .630 .430 c .630	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .000 c.m/s .630 c.m/s 3=Green-Ampt; 4=Repeat r; 3=SWM HYD; 4=Lin. Reserv .630 c.m/s erv/imperv/total .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50. .101 .116 Qmax No f. .2 COMBINE 1 JUNC 1 JUNC 2. CONFLUENC 1 JUNC 1 JUNC 2. ROUTE .000 .000 .000 .000 .000 .000 .000 .0	<pre>(s) of co %S ABOVE WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver D1 tion Node D1 Conduit No Conduit No Conduit No Conduit No Conduit Routing No. of s D1 tion Node D1 co; 2=Def TD No.ó Area in Length (Gradient Per cent Length (%Imp. wi Option 1 Manning SCS Curv Ia/S Coe Initial Option 1 77 F ID No.ó Area in I7</pre>	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630 ine 99999 hectares PERV) metre (%) Impervious IMPERV) th Zero Dpt =SCS CN/C; "n" e No or C fficient Abstraction =Trianglr; .000 .911 .017 99999 hectares	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 s h 2=Horton; 2=Rectangl .630 .630 c.	LAND All TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s .630 c.m/s 3=Green-Ampt; 4=Repeat r; 3=SWM HYD; 4=Lin. Reserv .630 c.m/s .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f 2. COMBINE 1 JUNC 1 JUNC 1 JUNC 1 JUNC 2. ROUTE .000 .000 .000 .000 .000 .000 .000 .0	(s) of co NS ABOVE U/S Node Threshol Max. Out & Vol.Do low diver bl tion Node Dl Conduit No Condu Zero lag Beta wei Routing No. of s Dl tion Node Dl tion Node Dl tion Node Dl tion Node Dl tion Node Dl TD No.ó Area in Length (SCS Curv I Aron 1 Manning SCS Curv I Aron 1 Manning TO No.ó Area in Length (SCS Curv I Aron 1 Manning SCS Curv I Aron 1 Mannin Aron 1 Mannin Aro	<pre>mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .201 No. .201 No. .630 dhing fact timestep ub-reaches .630 No. .730 No. .630 NO. .630 NO. .630 NO. .630 NO. .630 NO.630 NO. .630 NO.</pre>	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 .630 s h 2=Horton; 2=Rectangl .630 c. .630 c. .630 c. .630 s	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s .630 c.m/s 3=Green-Ampt; 4=Repeat r; 3=SWM HYD; 4=Lin. Reserv .630 c.m/s perv/imperv/total .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 ComBINE 1 JUNC 2 COMBINE 1 JUNC 2 CONFLUENC 1 JUNC 2 ROUTE .2 ROUTE .2 ROUTE .2 ROUTE .2 CONFLUENC 1 JUNC .2 COMBINE 1 JUNC .2 COMBINE 1 JUNC .200 .000 .000 .000 .000 .000 .000 .00	(s) of co WS ABOVE U/S Node Threshol Max. Out & VOI.DO low diver Dl tion Node Dl Conduit No Conduit Etion Node Dl Conduit No Conduit Evant Routing No. of s Dl tion Node Dl tion Node Dl tion Node Dl tion Node Dl tion Node Dl TD No.ô Area in Length (Gradient Per cent Length (STMP, WI Option 1 I Manning SCS Curv Ia/S Corv II TO No.ô Area in Length (Gradient Contine 1 Contine 1 Strangent Contine 1 Strangent SCS Curv Ia/S Contine 1 Strangent SCS Curv Ia/S Contine 1 Contine 1 Contine 1 Conti	<pre>mment 5-YEAR SURC No.6 99999 d Discharge flow reqd. verted = ted .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630 ine 99999 hectares PERV) metre (%) Impervious Impervious eSCS CN/C; "n" e No or C fficient Abstraction =Trianglr; .000 .911 .017 99999 hectares PERV) metre (%) Impervious PERV) metre (%) Impervious PERV) metre (%) Impervious PERV) metre SCS CN/C; "n" e No or C fficient Abstraction =Trianglr; .000 .911 .017 99999 hectares PERV) metre (%) Impervious PERV) metre (%) Impervious PERV Impervious</pre>	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 s h 2=Horton; 2=Rectangl .630 .430 c .630 s	LAND A11 TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .000 c.m/s .630 c.m/s 3=Green-Ampt; 4=Repeat r; 3=SWM HYD; 4=Lin. Reserv .630 c.m/s perv/imperv/total .630 c.m/s
12 17 18 9 17 14 4	1 line MAJOR FLO DIVERT 50 .101 .116 Qmax No f. .2 COMBINE 1 JUNC 1 JUNC 2 CONFLUENC 1 JUNC 2 ROUTE 2 CONFLUENC 1 JUNC 1 JUNC 1 JUNC 1 JUNC 2 START 1 1=Ze CATCHMENT 14.000 .200 39.080 1.000 10.000 10.000 10.000 11.250 74.000 10.000 10.000 10.000 11.250 74.000 10.000 10.000 10.000 11.250 74.000 10.000 11.250 74.000 11.000 57.000 75.910	<pre>(s) of co %S ABOVE WS ABOVE U/S Node Threshol Max. Out & Vol.Di low diver D1 tion Node D1 Conduit No Conduit No Cond</pre>	mment 5-YEAR SURC No.6 99999 flow reqd. verted = ted .201 No. .201 No. .201 No. .630 Length it defined ghting fact timestep ub-reaches .630 No. .630 ine 99999 hectares PERV) metre (%) Impervious IMPERV) th Zero Dpt =SCS CN/C; "n" e No or C fficient Abstraction =Trianglr; .000 .911 .017 99999 hectares PERV) metre (%) Impervious Impervious Mostraction =Trianglr; .000 .911 .017 99999 hectares PERV) metre (%) Impervious Impervious .017	HARGE OVER .085 c. .116 .116 .116 .116 .630 .630 .630 s h 2=Horton; 2=Rectangl .630 .630 c. .6	LAND All TO OUTLET m/s 210.3 c.m .514 c.m/s .630 c.m/s .000 c.m/s .630 c.m/s 3=Green-Ampt; 4=Repeat r; 3=SWM HYD; 4=Lin. Reserv .630 c.m/s .630 c.m/s

	1	Option	1=SCS CN/	C; 2=Horto	on; 3=Green-Ampt; 4	4=Repeat
	.250	Mannin	g "n"			
	74.000	SCS Cu	rve No or	с		
	.100	Ia/S C	oefficient	t		
	8.924	Initia	1 Abstract	tion		
	1	Option	1=Triangl	Lr; 2=Recta	anglr; 3=SWM HYD; 4	4=Lin. Reserv
		.146	.017	. 630	.630 c.m/s	
		.376	.915	. 684	C perv/imperv/to	otal
15	ADD RUN	NOFF				
		.146	.157	. 630	.630 c.m/s	
9	ROUTE					
	. 000	Condui	t Length			
	. 000	No Con	duit defir	ned		
	.000	Zero 1	aα			
	000	Beta w	eighting f	Factor		
	000	Poutin	a timester			
		No of	eub-reach			
	v	146	157	157	630 c m/s	
17	COMBINE	.140	.157	.157	.050 C.m/S	
1,	1 7	nation No	do No			
	1 00	146	157	157	762 0	
10	CONFILIE	NCE	.157	.157		
10	1 7	snce metion No	de Ne			
	1 50	146	de NO.	157	000/-	
	~~~~~	.140	. / 62	.157	.000 8.10/8	
4	CATCHME	SNT				
	12.000	ID NO.	0 99999			
	3.930	Area 1	n hectares	3		
	161.880	Length	(PERV) me	etres		
	1.000	Gradie	nt (%)			
	55.000	Per ce	nt Impervi	lous		
	161.880	Length	(IMPERV)			
	.000	%Imp.	with Zero	Dpth		
	1	Option	1=SCS CN/	C; 2=Horto	on; 3=Green-Ampt; 4	4=Repeat
	.250	Mannin	g "n"			
	74.000	SCS Cu	rve No or	с		
	.100	Ia/S C	oefficient	t		
	8.924	Initia	1 Abstract	tion		
	1	Option	1=Triangl	lr; 2=Recta	anglr; 3=SWM HYD; 4	4=Lin. Reserv
		.567	.762	.157	.000 c.m/s	
		. 377	.912	.671	C perv/imperv/to	otal
15	ADD RUN	NOFF				
		.567	1.329	.157	.000 c.m/s	
9	ROUTE					
	.000	Condui	t Length			
	.000	No Con	duit defir	ned		
	.000	Zero l	ag			
	.000	Beta w	eighting f	factor		
	.000	Routin	g timester	<b>&gt;</b>		
	0	No. of	sub-reach	nes		
		.567	1.329	1.329	.000 c.m/s	
17	COMBINE	5				
	1 Ju	nction No	de No.			
		.567	1.329	1.329	1.329 c.m/s	
14	START					
	1 1=	=Zero; 2=D	efine			
4	CATCHME	ENT				
	15.000	ID No.	ó 99999			
	2.080	Area i	n hectares	3		
	117.640	Length	(PERV) me	etres		
	1.000	Gradie	nt (%)			
	65.000	Per ce	nt Impervi	ious		
	117.640	Length	(IMPERV)			
	.000	%Imp.	with Zero	Doth		
	1	Option	1=SCS CN/	C: 2=Horto	on; 3=Green-Ampt; 4	4=Repeat
	. 250	Mannin	σ "n"		, <b>.</b> . ,	
	74.000	SCS Cu	rve No or	с		
	.100	Ia/S C	oefficient	5		
	8.924	Initia	1 Abstract	ion		
	1	Option	1=Triang	r: 2=Recta	anglr: 3=SWM HYD: 4	=Lin. Reserv
		.370	.000	1.329	1.329 c.m/s	
		.377	.916	.728	C perv/imperv/to	otal
15	ADD RUN	NOFF			- F,F,	
		370	370	1 329	1 329 c m/s	
9	ROUTE			1.020		
-	000	Conduct	t Length			
	.000	No. Con	duit dofir	ad		
		Zero 1	ag			
		Bete	~y eighting 4	Factor		
		Deta W	cagnering 1			
	000	Routin	a timeetar	1		
	.000	Routin	g timester			
	. 000 0	Routin No. of 370	g timester sub-react	nes 370	1 329 c m/c	
17	. 000 0	Routin No. of .370	g timester sub-reach .370	nes .370	1.329 c.m/s	
17	.000 0 COMBINE	Routin No. of .370 E	g timester sub-reach .370 de No	nes .370	1.329 c.m/s	
17	.000 0 COMBINE 1 Ju	Routin No. of .370 E Inction No .370	g timester sub-reach .370 de No. .370	.370	1.329 c.m/s	

18	CONFLUENCE			
	1 Junction Node No.			
	370 1 663	370	000 c m/s	
27	HYDROCRAPH DISPLAY		1000 0111,0	
	5 is # of Husto/Hus	rograph choo		
	5 18 # 01 Hyeto/Hye	rograph chos	en	
	VOLUME = ./310400E+0	4 C.m		
10	POND			
	6 Depth - Discharge - N	olume sets		
	186.300 .000	.0		
	186.600 .0220	814.0		
	186.900 .0350	1798.0		
	187 200 212	2948 0		
	197 500 434	1200 0		
	107.000 1.200	4200.0 E010.0		
	187.800 1.388	5619.0		
	Peak Outflow =	.389 c.m/s		
	Maximum Depth = 18	7.439 metres		
	Maximum Storage =	4016. c.m		
	.370 1.663	. 389	.000 c.m/s	
16	NEXT LINK			
	370 389	389	000 c m/s	
4	CATCHMENT		1000 0111,0	
-	16 000 TD No 6 0000	•		
	16.000 ID NO.0 9999	9		
	2.260 Area in hect	ares		
	122.660 Length (PERV	) metres		
	1.000 Gradient (%)			
	57.000 Per cent Imp	ervious		
	122,660 Length (IMPE	RV)		
	000 %Tmp with 5	ero Doth		
	I Option I=SCS	CN/C; Z=Hor	ton; 3=Green-Ampt;	4=Repeat
	.250 Manning "n"			
	74.000 SCS Curve No	or C		
	.100 Ia/S Coeffic	ient		
	8.924 Initial Abst	raction		
	1 Option 1=Tri	anglr: 2=Rec	tanglr: 3=SWM HYD:	4=Lin. Reserv
	352 380	389	000 c m/s	
	377 015	694	C norm/import/t	oto]
1 5		.004	C perv/imperv/c	otai
15	ADD RONOFF			
	.352 .440	. 389	.000 c.m/s	
27	HYDROGRAPH DISPLAY			
	5 is # of Hyeto/Hyd	rograph chos	en	
	Volume = .7157760E+0	4 c.m		
9	ROUTE			
	000 Conduit Lend	th		
	000 No Conduit o	ofined		
	.000 No conduit c	ermed		
	.000 Zero iag	<b>.</b> .		
	.000 Beta weighti	ng factor		
	.000 Routing time	step		
	0 No. of sub-r	eaches		
	.352 .440	.440	.000 c.m/s	
17	COMBINE			
	A Junction Node No.			
	2E2 440	440	110	
	.352 .440	.440	.440 C.m/s	
14	START			
	1 1=Zero; 2=Define			
35	COMMENT			
	1 line(s) of commer	t		
	MAJOR OVERLAND FLOWS F	ROM A11 TO O	UTLET	
22	FILE HYDROGRAPH			
~~				
	I I=READ: Z=WRITE			
	12 D1V00050.100	is Filen	ame	
	1 1=Overland: 2=Inf	low: 3=Outfl	ow: 4=Temp'ary	
	.085 .000	.440	.440 c.m/s	
15	ADD RUNOFF			
	085 085	440	440 c m/s	
a	ROUTE			
2	000 Conduit Ione	+ <b>L</b>		
	.000 Conduit Leng			
	.000 No Conduit o	erined		
	.000 Zero lag			
	.000 Beta weighti	ng factor		
	.000 Routing time	step		
	0 No. of sub-	eaches		
	085 095	0.85	440 0 m/s	
17	.005 .005	.005	.440 C.m/S	
т/	COMBINE			
	4 Junction Node No.			
	.085 .085	.085	.508 c.m/s	
18	CONFLUENCE			
	4 Junction Node No.			
	.085 508	.085	.000 c.m/s	
27	HYDROGRAPH DISPLAY			
- '	5 is # of most /*···	rograph -t -	22	
	5 1S # OI Hyeto/Hye	rograph chos	811	
	volume = ./366/99E+0	4 C.M		
20	MANUAL			