

APPENDIX A

DENSITY ANALYSIS FROM ISL

Neighbourhood	Census Area	Zoning	Current Units	Current Population	Maximum Units	Maximum Population	Gross Area Area	Gross Area Density	Units/ ha	People/ Unit	Gross Residential Area	Gross Residential Density	Net Residential Area	Net Residential Density
Countryside South	37N	RL	401	1,036	433	1,117	36.96	30.22	11.72	2.58	34.36	32.51	21.62	51.67
O'Brien Lake	--	RL	0	0	442	1,415	50.81	27.85	8.70	3.20	42.98	32.92	29.07	48.68
Royal Oaks	1AW	RL	246	620	388	978	40.06	24.41	9.69	2.52	36.71	26.64	30.04	32.56
Pinnacle Ridge	46.00	RL	93	212	211	481	18.55	25.93	11.37	2.28	15.54	30.95	9.53	50.47
Cumulative Average			740	1,868	1,474	3,991	146.38	27.26	10.07	2.71	129.59	30.80	90.26	44.22
Current Standard			247	623	369	998	36.60	27.10	10.37	2.65	32.40	30.76	22.57	45.84
								80				80		80
Crystal Lake Estates	30	RG	335	1,071	364	1,165	39.32	29.63	9.26		34.85	33.43	23.33	49.94
Country Club North	39N	RG	409	1,295	414	1,312	40.70	32.24	10.17		34.96	37.53	21.62	60.68
Mountview	6	RG	266	762	266	762	32.05	23.78	8.30		26.06	29.24	17.85	42.69
Patterson	27A/27W/40N	RG	847	2,590	847	2,590	95.15	27.22	8.90		74.95	34.56	48.34	53.58
Mission Heights	42	RG	339	1,075	358	1,135	36.77	30.87	9.74		33.50	33.88	22.51	50.42
Cumulative Average			2,196	6,793	2,249	6,964	243.99	28.54	9.22		204.32	34.08	133.85	52.11
Current Standard			439	1,359	450	1,393	48.80	28.75	9.28		40.86	33.73	26.73	51.46
								64				64		64
Country Club South	39S	RR	246	620	388	978	40.06	24.41			36.71	26.64	30.04	32.56
Avondale	3/4	RR	387	1,018	387	1,018	45.96	22.15			34.78	29.27	22.72	44.81
Cumulative Average			633	1,638	775	1,996	86.02	23.20			71.49	27.92	52.76	37.83
Current Standard			317	819	388	998	43.01	23.28			35.75	27.96	26.38	38.68
								32				32		32
Gateway	8W	RM	476	933	688	1,348	18.80	71.70			13.24	101.81	10.40	129.62
Highland Park	22A	RM	467	797	826	1,412	13.83	102.10			12.92	109.29	11.52	122.57
Cumulative Average			943	1,730	1,514	2,760	32.63	84.58			26.16	105.50	21.92	125.91
Current Standard			472	865	757	1,380	16.32	86.90			13.08	105.55	10.96	126.09
								118				118		118

Notes: Current: 2003 Census Data
Maximum: Total Capacity of Current Area based on current per unit density
Gross Area: Total Area less EIR
Gross Residential: Gross Area less MR, non-residential uses
Net Residential: Gross Residential less roads, PUL

APPENDIX B
INFLOW HYDROGRAPHS

INDUSTRIAL NORTH OF 132 AVE - EN0

Residential		Commercial		Industrial		Total		
Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	
0:00	0.6859	0.000	0:00	0.00	0.000	0:00	0.00	
1:00	0.4216	0.000	1:00	0.00	0.000	1:00	0.00	
2:00	0.2185	0.000	2:00	0.00	0.000	2:00	0.00	
3:00	0.1583	0.000	3:00	0.00	0.000	3:00	0.00	
4:00	0.1212	0.000	4:00	0.00	0.000	4:00	0.00	
5:00	0.1220	0.000	5:00	0.00	0.000	5:00	0.00	
6:00	0.1769	0.000	6:00	0.00	0.000	6:00	0.00	
7:00	0.4177	0.000	7:00	0.00	0.000	7:00	0.00	
8:00	0.8433	0.000	8:00	0.00	0.000	8:00	0.00	
9:00	1.3142	0.000	9:00	2.00	13.058	9:00	3.972	
10:00	1.7081	0.000	10:00	2.00	13.058	10:00	3.972	
11:00	1.8964	0.000	11:00	2.00	13.058	11:00	3.972	
12:00	1.7123	0.000	12:00	2.00	13.058	12:00	3.972	
13:00	1.5653	0.000	13:00	2.00	13.058	13:00	3.972	
14:00	1.2753	0.000	14:00	2.00	13.058	14:00	3.972	
15:00	1.1071	0.000	15:00	2.00	13.058	15:00	3.972	
16:00	1.0202	0.000	16:00	2.00	13.058	16:00	3.972	
17:00	1.1204	0.000	17:00	2.00	13.058	17:00	3.972	
18:00	1.2131	0.000	18:00	2.00	13.058	18:00	3.972	
19:00	1.3425	0.000	19:00	2.00	13.058	19:00	3.972	
20:00	1.3775	0.000	20:00	0.00	0.000	20:00	0.000	
21:00	1.5907	0.000	21:00	0.00	0.000	21:00	0.000	
22:00	1.4485	0.000	22:00	0.00	0.000	22:00	0.000	
23:00	1.1418	0.000	23:00	0.00	0.000	23:00	0.000	
Average Population		0.00	Average Area		56.4	Average Hydrograph		1.99
Generated Flows (l/s)		235 Lpd	Generated Flows (m ³ /ha/d)		3	Generated Flows (m ³ /ha/d)		12
New Area Gen Flow		275 Lpd	New Area Gen Flow		0	New Area Gen Flow		26

INDUSTRIAL NORTH OF 132 AVE - EN1

Residential		Commercial		Industrial		Total		
Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	
0:00	0.6859	0.000	0:00	0.00	0.000	0:00	0.00	
1:00	0.4216	0.000	1:00	0.00	0.000	1:00	0.00	
2:00	0.2185	0.000	2:00	0.00	0.000	2:00	0.00	
3:00	0.1583	0.000	3:00	0.00	0.000	3:00	0.00	
4:00	0.1212	0.000	4:00	0.00	0.000	4:00	0.00	
5:00	0.1220	0.000	5:00	0.00	0.000	5:00	0.00	
6:00	0.1769	0.000	6:00	0.00	0.000	6:00	0.00	
7:00	0.4177	0.000	7:00	0.00	0.000	7:00	0.00	
8:00	0.8433	0.000	8:00	2.00	13.058	8:00	1.481	
9:00	1.3142	0.000	9:00	2.00	13.058	9:00	1.481	
10:00	1.7081	0.000	10:00	2.00	13.058	10:00	1.481	
11:00	1.8964	0.000	11:00	2.00	13.058	11:00	1.481	
12:00	1.7123	0.000	12:00	2.00	13.058	12:00	1.481	
13:00	1.5653	0.000	13:00	2.00	13.058	13:00	1.481	
14:00	1.2753	0.000	14:00	2.00	13.058	14:00	1.481	
15:00	1.1071	0.000	15:00	2.00	13.058	15:00	1.481	
16:00	1.0202	0.000	16:00	2.00	13.058	16:00	1.481	
17:00	1.1204	0.000	17:00	2.00	13.058	17:00	1.481	
18:00	1.2131	0.000	18:00	2.00	13.058	18:00	1.481	
19:00	1.3425	0.000	19:00	2.00	13.058	19:00	1.481	
20:00	1.3775	0.000	20:00	0.00	0.000	20:00	0.000	
21:00	1.5907	0.000	21:00	0.00	0.000	21:00	0.000	
22:00	1.4485	0.000	22:00	0.00	0.000	22:00	0.000	
23:00	1.1418	0.000	23:00	0.00	0.000	23:00	0.000	
Average Population		0.00	Average Area		56.4	Average Hydrograph		0.74
Generated Flows (l/s)		235 Lpd	Generated Flows (m ³ /ha/d)		3	Generated Flows (m ³ /ha/d)		3.2
New Area Gen Flow		275 Lpd	New Area Gen Flow		0	New Area Gen Flow		14.539

INDUSTRIAL NORTH OF 132 AVE - EN2

Residential				Industrial				Commercial				Total			
Time	Diurnal Factor	Hydrograph	Average	Time	Diurnal Factor	Hydrograph	Average	Time	Diurnal Factor	Hydrograph	Average	Time	Diurnal Factor	Hydrograph	Average
0:00	0.6859	0.000	6.91	0:00	0.00	0.000	6.91	0:00	0.00	0.000	6.91	0:00	0.00	0.000	6.91
1:00	0.4216	0.000	59.7	1:00	0.00	0.000	59.7	1:00	0.00	0.000	59.7	1:00	0.00	0.000	59.7
2:00	0.2185	0.000	3	2:00	0.00	0.000	3	2:00	0.00	0.000	3	2:00	0.00	0.000	3
3:00	0.1593	0.000	10	3:00	0.00	0.000	10	3:00	0.00	0.000	10	3:00	0.00	0.000	10
4:00	0.1212	0.000	3	4:00	0.00	0.000	3	4:00	0.00	0.000	3	4:00	0.00	0.000	3
5:00	0.1220	0.000	3	5:00	0.00	0.000	3	5:00	0.00	0.000	3	5:00	0.00	0.000	3
6:00	0.1769	0.000	3	6:00	0.00	0.000	3	6:00	0.00	0.000	3	6:00	0.00	0.000	3
7:00	0.4177	0.000	3	7:00	0.00	0.000	3	7:00	0.00	0.000	3	7:00	0.00	0.000	3
8:00	0.8433	0.000	3	8:00	2.00	13.819	3	8:00	2.00	13.819	3	8:00	2.00	13.819	3
9:00	1.3142	0.000	3	9:00	2.00	13.819	3	9:00	2.00	13.819	3	9:00	2.00	13.819	3
10:00	1.7081	0.000	3	10:00	2.00	13.819	3	10:00	2.00	13.819	3	10:00	2.00	13.819	3
11:00	1.8964	0.000	3	11:00	2.00	13.819	3	11:00	2.00	13.819	3	11:00	2.00	13.819	3
12:00	1.7123	0.000	3	12:00	2.00	13.819	3	12:00	2.00	13.819	3	12:00	2.00	13.819	3
13:00	1.5563	0.000	3	13:00	2.00	13.819	3	13:00	2.00	13.819	3	13:00	2.00	13.819	3
14:00	1.2753	0.000	3	14:00	2.00	13.819	3	14:00	2.00	13.819	3	14:00	2.00	13.819	3
15:00	1.1071	0.000	3	15:00	2.00	13.819	3	15:00	2.00	13.819	3	15:00	2.00	13.819	3
16:00	1.0202	0.000	3	16:00	2.00	13.819	3	16:00	2.00	13.819	3	16:00	2.00	13.819	3
17:00	1.1204	0.000	3	17:00	2.00	13.819	3	17:00	2.00	13.819	3	17:00	2.00	13.819	3
18:00	1.2131	0.000	3	18:00	2.00	13.819	3	18:00	2.00	13.819	3	18:00	2.00	13.819	3
19:00	1.3425	0.000	3	19:00	2.00	13.819	3	19:00	2.00	13.819	3	19:00	2.00	13.819	3
20:00	1.3775	0.000	3	20:00	0.00	0.000	3	20:00	0.00	0.000	3	20:00	0.00	0.000	3
21:00	1.5907	0.000	3	21:00	0.00	0.000	3	21:00	0.00	0.000	3	21:00	0.00	0.000	3
22:00	1.4485	0.000	3	22:00	0.00	0.000	3	22:00	0.00	0.000	3	22:00	0.00	0.000	3
23:00	1.1418	0.000	3	23:00	0.00	0.000	3	23:00	0.00	0.000	3	23:00	0.00	0.000	3
Average				Average				Average				Average			
Population				Population				Population				Population			
233				233				233				233			
Generated Flows (l/s)				Generated Flows (l/s)				Generated Flows (l/s)				Generated Flows (l/s)			
275				275				275				275			
New Area Gen Flow				New Area Gen Flow				New Area Gen Flow				New Area Gen Flow			
0				0				0				0			
Area				Area				Area				Area			
6.91				6.91				6.91				6.91			
Generated Flows (m³/day)				Generated Flows (m³/day)				Generated Flows (m³/day)				Generated Flows (m³/day)			
3				3				3				3			
New Area Gen Flow				New Area Gen Flow				New Area Gen Flow				New Area Gen Flow			
10				10				10				10			
Area				Area				Area				Area			
69.7				69.7				69.7				69.7			
Generated Flows (m³/day)				Generated Flows (m³/day)				Generated Flows (m³/day)				Generated Flows (m³/day)			
12				12				12				12			
New Area Gen Flow				New Area Gen Flow				New Area Gen Flow				New Area Gen Flow			
20				20				20				20			
Area				Area				Area				Area			
0.74				0.74				0.74				0.74			
Generated Flows (m³/day)				Generated Flows (m³/day)				Generated Flows (m³/day)				Generated Flows (m³/day)			
15.301				15.301				15.301				15.301			
New Area Gen Flow				New Area Gen Flow				New Area Gen Flow				New Area Gen Flow			
0.000				0.000				0.000				0.000			

RESIDENTIAL NORTH OF 146 AVE - EN5

Time	Diurnal Factor	Hydrograph	Industrial	Time	Diurnal Factor	Hydrograph	School	Time	Diurnal Factor	Hydrograph	Total Hydrograph
0:00	0.6959	4.185		0:00	0.00	0.00		0:00	0.00	0.00	4.185
1:00	0.4216	2.523		1:00	0.00	0.00		1:00	0.00	0.00	2.523
2:00	0.2185	1.308		2:00	0.00	0.00		2:00	0.00	0.00	1.308
3:00	0.1583	0.953		3:00	0.00	0.00		3:00	0.00	0.00	0.953
4:00	0.1212	0.726		4:00	0.00	0.00		4:00	0.00	0.00	0.726
5:00	0.1220	0.730		5:00	0.00	0.00		5:00	0.00	0.00	0.730
6:00	0.1769	1.059		6:00	0.00	0.00		6:00	0.00	0.00	1.059
7:00	0.4177	2.500		7:00	0.00	0.00		7:00	0.00	0.00	2.500
8:00	0.8433	5.047		8:00	0.00	0.00		8:00	0.00	0.00	5.047
9:00	1.3142	7.855		9:00	0.00	0.00		9:00	0.00	0.00	7.855
10:00	1.7081	10.223		10:00	0.00	0.00		10:00	0.00	0.00	10.223
11:00	1.8984	11.350		11:00	0.00	0.00		11:00	0.00	0.00	11.350
12:00	1.7723	10.249		12:00	0.00	0.00		12:00	0.00	0.00	10.249
13:00	1.5553	9.308		13:00	0.00	0.00		13:00	0.00	0.00	9.308
14:00	1.2753	7.633		14:00	0.00	0.00		14:00	0.00	0.00	7.633
15:00	1.1071	6.626		15:00	0.00	0.00		15:00	0.00	0.00	6.626
16:00	1.0202	6.106		16:00	0.00	0.00		16:00	0.00	0.00	6.106
17:00	1.1204	6.706		17:00	0.00	0.00		17:00	0.00	0.00	6.706
18:00	1.2131	7.261		18:00	0.00	0.00		18:00	0.00	0.00	7.261
19:00	1.3425	8.035		19:00	0.00	0.00		19:00	0.00	0.00	8.035
20:00	1.3775	8.244		20:00	0.00	0.00		20:00	0.00	0.00	8.244
21:00	1.5807	9.520		21:00	0.00	0.00		21:00	0.00	0.00	9.520
22:00	1.4485	8.670		22:00	0.00	0.00		22:00	0.00	0.00	8.670
23:00	1.1418	6.834		23:00	0.00	0.00		23:00	0.00	0.00	6.834
Average Population		5.89	Average Area			0.00	Average Area			0.00	13.387
Area SF	1880.4		Area MF	0							13.387
Generated Flows (l/s)	233 Lp/d		Generated Flows (m ³ /ha/d)	3			Generated Flows (m ³ /ha/d)	12			13.387
New Area Gen Flow	275 Lp/d		New Area Gen Flow	10			New Area Gen Flow	20			13.387

RESIDENTIAL NORTH OF 116 AVE - EN5

Time	Diurnal Factor	Hydrograph	Industrial	Time	Diurnal Factor	Hydrograph	School	Time	Diurnal Factor	Hydrograph	Total Hydrograph
0:00	0.6959	5.404		0:00	0.00	0.00		0:00	0.00	0.00	5.404
1:00	0.4216	3.274		1:00	0.00	0.00		1:00	0.00	0.00	3.274
2:00	0.2185	1.697		2:00	0.00	0.00		2:00	0.00	0.00	1.697
3:00	0.1583	1.237		3:00	0.00	0.00		3:00	0.00	0.00	1.237
4:00	0.1212	0.941		4:00	0.00	0.00		4:00	0.00	0.00	0.941
5:00	0.1220	0.847		5:00	0.00	0.00		5:00	0.00	0.00	0.847
6:00	0.1769	1.374		6:00	0.00	0.00		6:00	0.00	0.00	1.374
7:00	0.4177	3.244		7:00	0.00	0.00		7:00	0.00	0.00	3.244
8:00	0.8433	6.549		8:00	0.00	0.00		8:00	0.00	0.00	6.549
9:00	1.3142	10.205		9:00	0.00	0.00		9:00	0.00	0.00	10.205
10:00	1.7081	13.264		10:00	0.00	0.00		10:00	0.00	0.00	13.264
11:00	1.8984	14.727		11:00	0.00	0.00		11:00	0.00	0.00	14.727
12:00	1.7723	13.297		12:00	0.00	0.00		12:00	0.00	0.00	13.297
13:00	1.5553	12.077		13:00	0.00	0.00		13:00	0.00	0.00	12.077
14:00	1.2753	9.904		14:00	0.00	0.00		14:00	0.00	0.00	9.904
15:00	1.1071	8.597		15:00	0.00	0.00		15:00	0.00	0.00	8.597
16:00	1.0202	7.923		16:00	0.00	0.00		16:00	0.00	0.00	7.923
17:00	1.1204	8.701		17:00	0.00	0.00		17:00	0.00	0.00	8.701
18:00	1.2131	9.420		18:00	0.00	0.00		18:00	0.00	0.00	9.420
19:00	1.3425	10.425		19:00	0.00	0.00		19:00	0.00	0.00	10.425
20:00	1.3775	10.697		20:00	0.00	0.00		20:00	0.00	0.00	10.697
21:00	1.5907	12.352		21:00	0.00	0.00		21:00	0.00	0.00	12.352
22:00	1.4485	11.249		22:00	0.00	0.00		22:00	0.00	0.00	11.249
23:00	1.1418	8.667		23:00	0.00	0.00		23:00	0.00	0.00	8.667
Average Population		7.77	Average Area			0.00	Average Area			0.00	14.812
Area SF	2187.6		Area MF	54.69							14.812
Generated Flows (l/s)	233 Lp/d		Generated Flows (m ³ /ha/d)	3			Generated Flows (m ³ /ha/d)	12			14.812
New Area Gen Flow	275 Lp/d		New Area Gen Flow	10			New Area Gen Flow	20			14.812

RESIDENTIAL NORTH OF 100 AVE - WOODGROVE - EN7

Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Total Hydrograph		
0:00	0.6959	1.108	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	1.108		
1:00	0.4216	0.671	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	0.671		
2:00	0.2185	0.348	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	0.348		
3:00	0.1593	0.253	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	0.253		
4:00	0.1212	0.193	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	0.193		
5:00	0.1220	0.194	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	0.194		
6:00	0.1769	0.282	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	0.282		
7:00	0.4177	0.665	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	0.665		
8:00	0.8433	1.342	8:00	0.00	0.000	8:00	0.00	0.000	8:00	0.00	0.000	0.8433		
9:00	1.3142	2.091	9:00	0.00	0.000	9:00	0.00	0.000	9:00	0.00	0.000	1.3142		
10:00	1.7709	2.718	10:00	0.00	0.000	10:00	0.00	0.000	10:00	0.00	0.000	1.7709		
11:00	1.8964	3.018	11:00	0.00	0.000	11:00	0.00	0.000	11:00	0.00	0.000	1.8964		
12:00	1.7123	2.725	12:00	0.00	0.000	12:00	0.00	0.000	12:00	0.00	0.000	1.7123		
13:00	1.5553	2.475	13:00	0.00	0.000	13:00	0.00	0.000	13:00	0.00	0.000	1.5553		
14:00	1.2753	2.030	14:00	0.00	0.000	14:00	0.00	0.000	14:00	0.00	0.000	1.2753		
15:00	1.1071	1.762	15:00	0.00	0.000	15:00	0.00	0.000	15:00	0.00	0.000	1.1071		
16:00	1.0202	1.824	16:00	0.00	0.000	16:00	0.00	0.000	16:00	0.00	0.000	1.0202		
17:00	1.3204	1.783	17:00	0.00	0.000	17:00	0.00	0.000	17:00	0.00	0.000	1.3204		
18:00	1.2131	1.931	18:00	0.00	0.000	18:00	0.00	0.000	18:00	0.00	0.000	1.2131		
19:00	1.3425	2.137	19:00	0.00	0.000	19:00	0.00	0.000	19:00	0.00	0.000	1.3425		
20:00	1.3775	2.192	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	1.3775		
21:00	1.5907	2.531	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	1.5907		
22:00	1.4485	2.305	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	1.4485		
23:00	1.1418	1.817	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	1.1418		
Average Population		1.59	Average Area		1.04	Average Population		1.80	Average Area		0.00	Qpeak	5.101	
Area SF		500.0	Area MF		4.5	Generated Flows (m ³ /d)		1.2	Generated Flows (m ³ /d)		12	New Area Gain Flows		28
Area MF		0	Area MF		0	Generated Flows (m ³ /d)		3	Generated Flows (m ³ /d)		3	New Area Gain Flows		10
Generated Flows (m ³ /d)		233	Generated Flows (m ³ /d)		28	Generated Flows (m ³ /d)		3	Generated Flows (m ³ /d)		3	New Area Gain Flows		10
New Area Gain Flows		273	New Area Gain Flows		28	New Area Gain Flows		10	New Area Gain Flows		10	New Area Gain Flows		28

RESIDENTIAL NORTH OF 100 AVE - WOODGROVE - EN8

Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Total Hydrograph		
0:00	0.6959	3.439	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	3.439		
1:00	0.4216	2.083	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	2.083		
2:00	0.2185	1.090	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	1.090		
3:00	0.1593	0.787	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	0.787		
4:00	0.1212	0.599	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	0.599		
5:00	0.1220	0.603	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	0.603		
6:00	0.1769	0.874	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	0.874		
7:00	0.4177	2.054	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	2.054		
8:00	0.8433	4.167	8:00	0.00	0.000	8:00	0.00	0.000	8:00	0.00	0.000	4.167		
9:00	1.3142	6.493	9:00	0.00	0.000	9:00	0.00	0.000	9:00	0.00	0.000	6.493		
10:00	1.7709	8.439	10:00	0.00	0.000	10:00	0.00	0.000	10:00	0.00	0.000	8.439		
11:00	1.8964	9.370	11:00	0.00	0.000	11:00	0.00	0.000	11:00	0.00	0.000	9.370		
12:00	1.7123	8.460	12:00	0.00	0.000	12:00	0.00	0.000	12:00	0.00	0.000	8.460		
13:00	1.5553	7.684	13:00	0.00	0.000	13:00	0.00	0.000	13:00	0.00	0.000	7.684		
14:00	1.2753	6.301	14:00	0.00	0.000	14:00	0.00	0.000	14:00	0.00	0.000	6.301		
15:00	1.1071	5.470	15:00	0.00	0.000	15:00	0.00	0.000	15:00	0.00	0.000	5.470		
16:00	1.0202	5.041	16:00	0.00	0.000	16:00	0.00	0.000	16:00	0.00	0.000	5.041		
17:00	1.204	5.536	17:00	0.00	0.000	17:00	0.00	0.000	17:00	0.00	0.000	5.536		
18:00	1.2131	5.984	18:00	0.00	0.000	18:00	0.00	0.000	18:00	0.00	0.000	5.984		
19:00	1.3425	6.633	19:00	0.00	0.000	19:00	0.00	0.000	19:00	0.00	0.000	6.633		
20:00	1.3775	6.805	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	6.805		
21:00	1.5907	7.859	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	7.859		
22:00	1.4485	7.157	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	7.157		
23:00	1.1418	5.642	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	5.642		
Average Population		4.94	Average Area		0.00	Average Population		1.80	Average Area		6.3	Qpeak	13.162	
Area SF		1280	Area MF		32	Generated Flows (m ³ /d)		1.2	Generated Flows (m ³ /d)		12	New Area Gain Flows		28
Area MF		272.32	Area MF		2.3	Generated Flows (m ³ /d)		3	Generated Flows (m ³ /d)		3	New Area Gain Flows		10
Generated Flows (m ³ /d)		233	Generated Flows (m ³ /d)		28	Generated Flows (m ³ /d)		3	Generated Flows (m ³ /d)		3	New Area Gain Flows		10
New Area Gain Flows		273	New Area Gain Flows		28	New Area Gain Flows		10	New Area Gain Flows		10	New Area Gain Flows		28

RESIDENTIAL NORTH OF 100 AVE - T&E MHP - EN9

Time	Diurnal Factor	Hydrograph	Industrial	Commercial	Time	Diurnal Factor	Hydrograph	Hydrograph	Total Hydrograph
0:00	0.0559	2.592	0.000	0.000	0:00	0.00	0.000	0.000	2.592
1:00	0.4216	1.570	0.000	0.000	1:00	0.00	0.000	0.000	1.570
2:00	0.2185	0.814	0.000	0.000	2:00	0.00	0.000	0.000	0.814
3:00	0.1583	0.593	0.000	0.000	3:00	0.00	0.000	0.000	0.593
4:00	0.1212	0.451	0.000	0.000	4:00	0.00	0.000	0.000	0.451
5:00	0.1220	0.454	0.000	0.000	5:00	0.00	0.000	0.000	0.454
6:00	0.1769	0.659	0.000	0.000	6:00	0.00	0.000	0.000	0.659
7:00	0.4177	1.566	0.000	0.000	7:00	0.00	0.000	0.000	1.566
8:00	0.8433	3.140	0.000	0.000	8:00	0.00	0.000	0.000	3.140
9:00	1.3142	4.894	0.000	0.000	9:00	0.00	0.000	0.000	4.894
10:00	1.7061	6.361	0.000	0.000	10:00	0.00	0.000	0.000	6.361
11:00	1.8964	7.062	0.000	0.000	11:00	0.00	0.000	0.000	7.062
12:00	1.7123	6.377	0.000	0.000	12:00	0.00	0.000	0.000	6.377
13:00	1.5553	5.792	0.000	0.000	13:00	0.00	0.000	0.000	5.792
14:00	1.2753	4.749	0.000	0.000	14:00	0.00	0.000	0.000	4.749
15:00	1.1071	4.123	0.000	0.000	15:00	0.00	0.000	0.000	4.123
16:00	1.0202	3.789	0.000	0.000	16:00	0.00	0.000	0.000	3.789
17:00	1.1204	4.172	0.000	0.000	17:00	0.00	0.000	0.000	4.172
18:00	1.2131	4.516	0.000	0.000	18:00	0.00	0.000	0.000	4.516
19:00	1.3425	4.986	0.000	0.000	19:00	0.00	0.000	0.000	4.986
20:00	1.3775	5.130	0.000	0.000	20:00	0.00	0.000	0.000	5.130
21:00	1.5907	5.924	0.000	0.000	21:00	0.00	0.000	0.000	5.924
22:00	1.4485	5.384	0.000	0.000	22:00	0.00	0.000	0.000	5.384
23:00	1.1418	4.252	0.000	0.000	23:00	0.00	0.000	0.000	4.252
Average Population		3.72	Average Area	0.00			Average Area	0.00	Qpeak
Area SF	1170	1170.0	Area	0.0			Area	0.0	7.062
Area MF	0	23.4							
Generated Flows (lit)	233 Lpd		Generated Flows (m ³ /hr/d)				Generated Flows (m ³ /hr/d)		
New Area Gen Flows	27.5 Lpd		New Area Gen Flows				New Area Gen Flows		

RESIDENTIAL NORTH OF 100 AVE - CRYSTAL LANDING - EN10

Time	Diurnal Factor	Hydrograph	Industrial	Commercial	Time	Diurnal Factor	Hydrograph	Hydrograph	Total Hydrograph
0:00	0.0959	2.123	0.000	0.000	0:00	0.00	0.000	0.000	2.123
1:00	0.4216	1.286	0.000	0.000	1:00	0.00	0.000	0.000	1.286
2:00	0.2185	0.667	0.000	0.000	2:00	0.00	0.000	0.000	0.667
3:00	0.1583	0.486	0.000	0.000	3:00	0.00	0.000	0.000	0.486
4:00	0.1212	0.370	0.000	0.000	4:00	0.00	0.000	0.000	0.370
5:00	0.1220	0.372	0.000	0.000	5:00	0.00	0.000	0.000	0.372
6:00	0.1769	0.540	0.000	0.000	6:00	0.00	0.000	0.000	0.540
7:00	0.4177	1.274	0.000	0.000	7:00	0.00	0.000	0.000	1.274
8:00	0.8433	2.572	0.000	0.000	8:00	0.00	0.000	0.000	2.572
9:00	1.3142	4.009	0.000	0.000	9:00	0.00	0.000	0.000	4.009
10:00	1.7061	5.210	0.000	0.000	10:00	0.00	0.000	0.000	5.210
11:00	1.8964	5.785	0.000	0.000	11:00	0.00	0.000	0.000	5.785
12:00	1.7123	5.223	0.000	0.000	12:00	0.00	0.000	0.000	5.223
13:00	1.5553	4.744	0.000	0.000	13:00	0.00	0.000	0.000	4.744
14:00	1.2753	3.890	0.000	0.000	14:00	0.00	0.000	0.000	3.890
15:00	1.1071	3.377	0.000	0.000	15:00	0.00	0.000	0.000	3.377
16:00	1.0202	3.112	0.000	0.000	16:00	0.00	0.000	0.000	3.112
17:00	1.1204	3.418	0.000	0.000	17:00	0.00	0.000	0.000	3.418
18:00	1.2131	3.700	0.000	0.000	18:00	0.00	0.000	0.000	3.700
19:00	1.3425	4.065	0.000	0.000	19:00	0.00	0.000	0.000	4.065
20:00	1.3775	4.202	0.000	0.000	20:00	0.00	0.000	0.000	4.202
21:00	1.5907	4.852	0.000	0.000	21:00	0.00	0.000	0.000	4.852
22:00	1.4485	4.419	0.000	0.000	22:00	0.00	0.000	0.000	4.419
23:00	1.1418	3.483	0.000	0.000	23:00	0.00	0.000	0.000	3.483
Average Population		3.05	Average Area	0.00			Average Area	0.00	Qpeak
Area SF	600	958	Area	0.0			Area	0.0	5.785
Area MF	208.384	1.76							
Generated Flows (lit)	233 Lpd		Generated Flows (m ³ /hr/d)				Generated Flows (m ³ /hr/d)		
New Area Gen Flows	27.5 Lpd		New Area Gen Flows				New Area Gen Flows		

RESIDENTIAL NORTH OF 100 AVE - CRYSTAL LANDING - E1

Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Total Hydrograph
0:00	0.6659	2.468	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	2.468
1:00	0.4216	1.495	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	1.495
2:00	0.2185	0.725	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	0.725
3:00	0.1593	0.565	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	0.565
4:00	0.1212	0.430	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	0.430
5:00	0.1220	0.433	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	0.433
6:00	0.1769	0.627	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	0.627
7:00	0.4177	1.462	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	1.462
8:00	0.8433	2.681	8:00	0.00	0.000	8:00	0.00	0.000	8:00	0.00	0.000	8:00	0.00	0.000	2.681
9:00	1.3142	4.681	9:00	0.00	0.000	9:00	0.00	0.000	9:00	0.00	0.000	9:00	0.00	0.000	4.681
10:00	1.7081	6.058	10:00	0.00	0.000	10:00	0.00	0.000	10:00	0.00	0.000	10:00	0.00	0.000	6.058
11:00	1.8984	6.728	11:00	0.00	0.000	11:00	0.00	0.000	11:00	0.00	0.000	11:00	0.00	0.000	6.728
12:00	1.7123	6.073	12:00	0.00	0.000	12:00	0.00	0.000	12:00	0.00	0.000	12:00	0.00	0.000	6.073
13:00	1.5553	5.518	13:00	0.00	0.000	13:00	0.00	0.000	13:00	0.00	0.000	13:00	0.00	0.000	5.518
14:00	1.2753	4.523	14:00	0.00	0.000	14:00	0.00	0.000	14:00	0.00	0.000	14:00	0.00	0.000	4.523
15:00	1.1071	3.927	15:00	0.00	0.000	15:00	0.00	0.000	15:00	0.00	0.000	15:00	0.00	0.000	3.927
16:00	1.0202	3.616	16:00	0.00	0.000	16:00	0.00	0.000	16:00	0.00	0.000	16:00	0.00	0.000	3.616
17:00	1.1204	3.874	17:00	0.00	0.000	17:00	0.00	0.000	17:00	0.00	0.000	17:00	0.00	0.000	3.874
18:00	1.2151	4.302	18:00	0.00	0.000	18:00	0.00	0.000	18:00	0.00	0.000	18:00	0.00	0.000	4.302
19:00	1.3425	4.761	19:00	0.00	0.000	19:00	0.00	0.000	19:00	0.00	0.000	19:00	0.00	0.000	4.761
20:00	1.3775	4.885	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	4.885
21:00	1.3967	5.041	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	5.041
22:00	1.4465	5.137	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	5.137
23:00	1.1418	4.050	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	4.050
Average Population		3.55	Average Area		0.00	Average Area		0.00	Average Area		0.00	Average Area		0.00	Qpeak
Area SF	680	1114	Area SF	17	0.0	Area SF	17	0.0	Area SF	17	0.0	Area SF	17	0.0	6.728
Area MF	34.928	2.95	Area MF	3	0.0	Area MF	3	0.0	Area MF	3	0.0	Area MF	3	0.0	
Generated Flows (US)	233	233	Generated Flows (m ³ /hr/d)	3	3	Generated Flows (m ³ /hr/d)	3	3	Generated Flows (m ³ /hr/d)	3	3	Generated Flows (m ³ /hr/d)	3	3	12
New Area Gen Flow	276	276	New Area Gen Flow	10	10	New Area Gen Flow	10	10	New Area Gen Flow	10	10	New Area Gen Flow	10	10	30

RESIDENTIAL NORTH OF 68 AVE - COBBLESTONE/MHP (COUNTY) - E2

Time	Diurnal Factor	Hydrograph	Industrial	Time	Diurnal Factor	Hydrograph	Commercial	Time	Diurnal Factor	Hydrograph	Total
0:00	0.6959	3.938	0.00	0:00	0.00	0.000	0.000	0:00	0.00	0.000	3.938
1:00	0.4216	2.986	0.00	1:00	0.00	0.000	0.000	1:00	0.00	0.000	2.986
2:00	0.2185	1.237	0.00	2:00	0.00	0.000	0.000	2:00	0.00	0.000	1.237
3:00	0.1593	0.901	0.00	3:00	0.00	0.000	0.000	3:00	0.00	0.000	0.901
4:00	0.1220	0.686	0.00	4:00	0.00	0.000	0.000	4:00	0.00	0.000	0.686
5:00	0.1220	0.686	0.00	5:00	0.00	0.000	0.000	5:00	0.00	0.000	0.686
6:00	0.1769	1.001	0.00	6:00	0.00	0.000	0.000	6:00	0.00	0.000	1.001
7:00	0.4177	2.364	0.00	7:00	0.00	0.000	0.000	7:00	0.00	0.000	2.364
8:00	0.8433	4.772	0.00	8:00	0.00	0.000	0.000	8:00	0.00	0.000	4.772
9:00	1.3142	7.437	0.00	9:00	2.00	0.000	0.000	9:00	2.00	0.000	7.437
10:00	1.7081	9.656	0.00	10:00	2.00	0.000	0.000	10:00	2.00	0.000	9.656
11:00	1.8984	10.732	0.00	11:00	2.00	0.000	0.000	11:00	2.00	0.000	10.732
12:00	1.7123	9.680	0.00	12:00	2.00	0.000	0.000	12:00	2.00	0.000	9.680
13:00	1.5553	8.801	0.00	13:00	2.00	0.000	0.000	13:00	2.00	0.000	8.801
14:00	1.2753	7.217	0.00	14:00	2.00	0.000	0.000	14:00	2.00	0.000	7.217
15:00	1.1071	6.265	0.00	15:00	2.00	0.000	0.000	15:00	2.00	0.000	6.265
16:00	1.0202	5.774	0.00	16:00	2.00	0.000	0.000	16:00	2.00	0.000	5.774
17:00	1.2904	6.341	0.00	17:00	2.00	0.000	0.000	17:00	2.00	0.000	6.341
18:00	1.3131	6.865	0.00	18:00	2.00	0.000	0.000	18:00	2.00	0.000	6.865
19:00	1.3425	7.597	0.00	19:00	2.00	0.000	0.000	19:00	2.00	0.000	7.597
20:00	1.3775	7.795	0.00	20:00	0.00	0.000	0.000	20:00	0.00	0.000	7.795
21:00	1.5007	8.093	0.00	21:00	0.00	0.000	0.000	21:00	0.00	0.000	8.093
22:00	1.4485	8.187	0.00	22:00	0.00	0.000	0.000	22:00	0.00	0.000	8.187
23:00	1.1418	6.462	0.00	23:00	0.00	0.000	0.000	23:00	0.00	0.000	6.462
Average Population		5.66	Average Area			0.00	Average Area				Qpeak
		1778.0				0.0					10.732
Generated Flows (l/s)	Area SF	568	Generated Flows (m ³ /hr/d)	Area SF	568	1778.0	Generated Flows (m ³ /hr/d)	Area SF	568	1778.0	10.732
New Area Gen Flows	Area MF	1190	New Area Gen Flows	Area MF	1190	23.8	New Area Gen Flows	Area MF	1190	23.8	23.8

RESIDENTIAL NORTH OF 68 AVE - COBBLESTONE /MHP (COUNTY) - E3

Time	Diurnal Factor	Hydrograph	Industrial	Time	Diurnal Factor	Hydrograph	Commercial	Time	Diurnal Factor	Hydrograph	Total
0:00	0.6959	4.759	0.00	0:00	0.00	0.000	0.000	0:00	0.00	0.000	4.759
1:00	0.4216	2.983	0.00	1:00	0.00	0.000	0.000	1:00	0.00	0.000	2.983
2:00	0.2185	1.494	0.00	2:00	0.00	0.000	0.000	2:00	0.00	0.000	1.494
3:00	0.1593	1.089	0.00	3:00	0.00	0.000	0.000	3:00	0.00	0.000	1.089
4:00	0.1212	0.828	0.00	4:00	0.00	0.000	0.000	4:00	0.00	0.000	0.828
5:00	0.1220	0.834	0.00	5:00	0.00	0.000	0.000	5:00	0.00	0.000	0.834
6:00	0.1769	1.210	0.00	6:00	0.00	0.000	0.000	6:00	0.00	0.000	1.210
7:00	0.4177	2.855	0.00	7:00	0.00	0.000	0.000	7:00	0.00	0.000	2.855
8:00	0.8453	5.766	0.00	8:00	2.00	0.000	0.000	8:00	2.00	0.000	5.766
9:00	1.3142	8.986	0.00	9:00	2.00	0.000	0.000	9:00	2.00	0.000	8.986
10:00	1.7081	11.650	0.00	10:00	2.00	0.000	0.000	10:00	2.00	0.000	11.650
11:00	1.8984	12.987	0.00	11:00	2.00	0.000	0.000	11:00	2.00	0.000	12.987
12:00	1.7123	11.709	0.00	12:00	2.00	0.000	0.000	12:00	2.00	0.000	11.709
13:00	1.5553	10.633	0.00	13:00	2.00	0.000	0.000	13:00	2.00	0.000	10.633
14:00	1.2753	8.720	0.00	14:00	2.00	0.000	0.000	14:00	2.00	0.000	8.720
15:00	1.1071	7.570	0.00	15:00	2.00	0.000	0.000	15:00	2.00	0.000	7.570
16:00	1.0202	6.976	0.00	16:00	2.00	0.000	0.000	16:00	2.00	0.000	6.976
17:00	1.2904	7.891	0.00	17:00	2.00	0.000	0.000	17:00	2.00	0.000	7.891
18:00	1.3131	8.285	0.00	18:00	2.00	0.000	0.000	18:00	2.00	0.000	8.285
19:00	1.3425	9.180	0.00	19:00	0.00	0.000	0.000	19:00	0.00	0.000	9.180
20:00	1.3775	9.419	0.00	20:00	0.00	0.000	0.000	20:00	0.00	0.000	9.419
21:00	1.5007	10.877	0.00	21:00	0.00	0.000	0.000	21:00	0.00	0.000	10.877
22:00	1.4485	9.905	0.00	22:00	0.00	0.000	0.000	22:00	0.00	0.000	9.905
23:00	1.1418	7.808	0.00	23:00	0.00	0.000	0.000	23:00	0.00	0.000	7.808
Average Population		6.84	Average Area			0.00	Average Area				Qpeak
		2148.3				0.0					15.061
Generated Flows (l/s)	Area SF	684	Generated Flows (m ³ /hr/d)	Area SF	684	2148.3	Generated Flows (m ³ /hr/d)	Area SF	684	2148.3	15.061
New Area Gen Flows	Area MF	1368	New Area Gen Flows	Area MF	1368	28.8	New Area Gen Flows	Area MF	1368	28.8	28.8

RESIDENTIAL NORTH OF 68 AVE - CREEKSIDE / COUNTY - E4

Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Total Hydrograph
0:00	0.6859	3.461	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	3.461
1:00	0.4216	2.087	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	2.087
2:00	0.2185	1.087	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	1.087
3:00	0.1593	0.762	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	0.762
4:00	0.1212	0.603	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	0.603
5:00	0.1220	0.607	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	0.607
6:00	0.1769	0.860	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	0.860
7:00	0.4177	2.077	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	2.077
8:00	0.8433	4.194	8:00	2.00	0.000	8:00	2.00	0.000	8:00	2.00	0.000	6.194
9:00	1.3142	6.535	9:00	2.00	0.000	9:00	2.00	0.000	9:00	2.00	0.000	8.535
10:00	1.7081	8.484	10:00	2.00	0.000	10:00	2.00	0.000	10:00	2.00	0.000	10.577
11:00	1.8964	9.431	11:00	2.00	0.000	11:00	2.00	0.000	11:00	2.00	0.000	11.514
12:00	1.7123	8.515	12:00	2.00	0.000	12:00	2.00	0.000	12:00	2.00	0.000	10.589
13:00	1.5853	7.734	13:00	2.00	0.000	13:00	2.00	0.000	13:00	2.00	0.000	10.589
14:00	1.2753	6.342	14:00	2.00	0.000	14:00	2.00	0.000	14:00	2.00	0.000	9.817
15:00	1.1071	5.506	15:00	2.00	0.000	15:00	2.00	0.000	15:00	2.00	0.000	8.425
16:00	1.0202	5.074	16:00	2.00	0.000	16:00	2.00	0.000	16:00	2.00	0.000	7.588
17:00	1.1204	5.074	17:00	2.00	0.000	17:00	2.00	0.000	17:00	2.00	0.000	7.189
18:00	1.2131	6.033	18:00	2.00	0.000	18:00	2.00	0.000	18:00	2.00	0.000	7.856
19:00	1.3425	6.676	19:00	2.00	0.000	19:00	2.00	0.000	19:00	2.00	0.000	8.116
20:00	1.3775	6.850	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	8.160
21:00	1.5807	7.810	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	7.810
22:00	1.4485	7.203	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	7.203
23:00	1.1418	5.678	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	5.678
Average Population		4.87	Average Area		0.00	Average Area		0.00	Average Area		0.00	Qpeak
Area SF		1582.4	Area SF		0.0	Area SF		0.0	Area SF		0.0	11.514
Area MF		39.05	Area MF		0	Area MF		0	Area MF		0	4.5
Generated Flows (l/s)		233.0	Generated Flows (m ³ /d)		3	Generated Flows (m ³ /d)		12	Generated Flows (m ³ /d)		12	
New Area Gen Flow		275.0	New Area Gen Flow		0	New Area Gen Flow		0	New Area Gen Flow		0	

RESIDENTIAL NORTH OF 68 AVE - CREEKSIDE / COUNTY - E5

Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Total Hydrograph
0:00	0.6859	3.402	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	3.402
1:00	0.4216	2.081	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	2.081
2:00	0.2185	1.088	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	1.088
3:00	0.1593	0.779	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	0.779
4:00	0.1212	0.583	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	0.583
5:00	0.1220	0.586	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	0.586
6:00	0.1769	0.865	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	0.865
7:00	0.4177	2.042	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	2.042
8:00	0.8433	4.123	8:00	2.00	0.000	8:00	2.00	0.000	8:00	2.00	0.000	4.123
9:00	1.3142	6.425	9:00	2.00	0.000	9:00	2.00	0.000	9:00	2.00	0.000	6.425
10:00	1.7081	8.351	10:00	2.00	0.000	10:00	2.00	0.000	10:00	2.00	0.000	8.351
11:00	1.8984	9.271	11:00	2.00	0.000	11:00	2.00	0.000	11:00	2.00	0.000	9.271
12:00	1.7123	8.371	12:00	2.00	0.000	12:00	2.00	0.000	12:00	2.00	0.000	8.371
13:00	1.5653	7.603	13:00	2.00	0.000	13:00	2.00	0.000	13:00	2.00	0.000	7.603
14:00	1.2753	6.235	14:00	2.00	0.000	14:00	2.00	0.000	14:00	2.00	0.000	6.235
15:00	1.1071	5.413	15:00	2.00	0.000	15:00	2.00	0.000	15:00	2.00	0.000	5.413
16:00	1.0202	4.988	16:00	2.00	0.000	16:00	2.00	0.000	16:00	2.00	0.000	4.988
17:00	1.204	5.478	17:00	2.00	0.000	17:00	2.00	0.000	17:00	2.00	0.000	5.478
18:00	1.2131	5.831	18:00	2.00	0.000	18:00	2.00	0.000	18:00	2.00	0.000	5.831
19:00	1.3425	6.563	19:00	2.00	0.000	19:00	2.00	0.000	19:00	2.00	0.000	6.563
20:00	1.3775	6.734	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	6.734
21:00	1.5907	7.777	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	7.777
22:00	1.4485	7.082	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	7.082
23:00	1.1418	5.582	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	5.582
Average Population		4.88	Average Area		0.00	Average Area		0.00	Average Area		0.00	Qpeak
Area SF		1536	Area SF		0.0	Area SF		0.0	Area SF		0.0	9.271
Area MF		36.4	Area MF		0	Area MF		0	Area MF		0	0.0
Generated Flows (l/s)		233.0	Generated Flows (m ³ /d)		3	Generated Flows (m ³ /d)		12	Generated Flows (m ³ /d)		12	
New Area Gen Flow		275.0	New Area Gen Flow		0	New Area Gen Flow		0	New Area Gen Flow		0	

RESIDENTIAL NORTH OF 68 AVE - NORTH OF COUNTRY SIDE - E6

Time	Diurnal Factor	Hydrograph	Industrial	Time	Diurnal Factor	Hydrograph	Commercial	Time	Diurnal Factor	Hydrograph	Total Hydrograph
0:00	0.6959	1.700		0:00	0.00	0.000		0:00	0.00	0.000	1.700
1:00	0.4276	1.030		1:00	0.00	0.000		1:00	0.00	0.000	1.030
2:00	0.2185	0.534		2:00	0.00	0.000		2:00	0.00	0.000	0.534
3:00	0.1593	0.369		3:00	0.00	0.000		3:00	0.00	0.000	0.369
4:00	0.1212	0.286		4:00	0.00	0.000		4:00	0.00	0.000	0.286
5:00	0.1200	0.286		5:00	0.00	0.000		5:00	0.00	0.000	0.286
6:00	0.1768	0.432		6:00	0.00	0.000		6:00	0.00	0.000	0.432
7:00	0.4177	1.020		7:00	0.00	0.000		7:00	0.00	0.000	1.020
8:00	0.8453	2.060		8:00	0.00	0.000		8:00	0.00	0.000	2.060
9:00	1.2142	3.210		9:00	0.00	0.000		9:00	0.00	0.000	3.210
10:00	1.7042	4.632		10:00	0.00	0.000		10:00	0.00	0.000	4.632
11:00	1.8964	4.162		11:00	0.00	0.000		11:00	0.00	0.000	4.162
12:00	1.7153	3.799		12:00	0.00	0.000		12:00	0.00	0.000	3.799
13:00	1.5553	3.115		13:00	0.00	0.000		13:00	0.00	0.000	3.115
14:00	1.2753	2.704		14:00	0.00	0.000		14:00	0.00	0.000	2.704
15:00	1.1071	2.492		15:00	0.00	0.000		15:00	0.00	0.000	2.492
16:00	1.0202	2.492		16:00	0.00	0.000		16:00	0.00	0.000	2.492
17:00	1.1204	2.735		17:00	0.00	0.000		17:00	0.00	0.000	2.735
18:00	1.2131	2.963		18:00	0.00	0.000		18:00	0.00	0.000	2.963
19:00	1.3425	3.279		19:00	0.00	0.000		19:00	0.00	0.000	3.279
20:00	1.3775	3.364		20:00	0.00	0.000		20:00	0.00	0.000	3.364
21:00	1.3907	3.885		21:00	0.00	0.000		21:00	0.00	0.000	3.885
22:00	1.4485	3.538		22:00	0.00	0.000		22:00	0.00	0.000	3.538
23:00	1.1418	2.789		23:00	0.00	0.000		23:00	0.00	0.000	2.789
Average Population		2.44	Average Area			0.00	Average Area			0.00	Qpeak
Area SF		767	Area			0.0	Area			0.0	4.532
Area MF		18									
Area SF		0.4									
Generated Flows (l/s)		233	Generated Flows (m ³ /hr/d)			3	Generated Flows (m ³ /hr/d)			12	
New Area Gain Flow		279	New Area Gain Flows			10	New Area Gain Flows			20	

RESIDENTIAL NORTH OF 68 AVE - NORTH OF COUNTRY SIDE - E7

Time	Diurnal Factor	Hydrograph	Industrial	Time	Diurnal Factor	Hydrograph	Commercial	Time	Diurnal Factor	Hydrograph	Total Hydrograph
0:00	0.6959	3.309		0:00	0.00	0.000		0:00	0.00	0.000	3.309
1:00	0.4216	2.004		1:00	0.00	0.000		1:00	0.00	0.000	2.004
2:00	0.2185	1.039		2:00	0.00	0.000		2:00	0.00	0.000	1.039
3:00	0.1593	0.757		3:00	0.00	0.000		3:00	0.00	0.000	0.757
4:00	0.1212	0.575		4:00	0.00	0.000		4:00	0.00	0.000	0.575
5:00	0.1200	0.560		5:00	0.00	0.000		5:00	0.00	0.000	0.560
6:00	0.1769	0.841		6:00	0.00	0.000		6:00	0.00	0.000	0.841
7:00	0.4177	1.966		7:00	0.00	0.000		7:00	0.00	0.000	1.966
8:00	0.8433	4.009		8:00	0.00	0.000		8:00	0.00	0.000	4.009
9:00	1.3142	5.248		9:00	0.00	0.000		9:00	0.00	0.000	5.248
10:00	1.7081	8.121		10:00	0.00	0.000		10:00	0.00	0.000	8.121
11:00	1.8984	9.016		11:00	0.00	0.000		11:00	0.00	0.000	9.016
12:00	1.7723	8.141		12:00	0.00	0.000		12:00	0.00	0.000	8.141
13:00	1.5553	7.394		13:00	0.00	0.000		13:00	0.00	0.000	7.394
14:00	1.2753	6.063		14:00	0.00	0.000		14:00	0.00	0.000	6.063
15:00	1.1071	5.264		15:00	0.00	0.000		15:00	0.00	0.000	5.264
16:00	1.0202	4.851		16:00	0.00	0.000		16:00	0.00	0.000	4.851
17:00	1.1204	5.327		17:00	0.00	0.000		17:00	0.00	0.000	5.327
18:00	1.2131	5.766		18:00	0.00	0.000		18:00	0.00	0.000	5.766
19:00	1.3425	6.383		19:00	0.00	0.000		19:00	0.00	0.000	6.383
20:00	1.3775	6.549		20:00	0.00	0.000		20:00	0.00	0.000	6.549
21:00	1.3907	7.563		21:00	0.00	0.000		21:00	0.00	0.000	7.563
22:00	1.4485	6.887		22:00	0.00	0.000		22:00	0.00	0.000	6.887
23:00	1.1418	5.428		23:00	0.00	0.000		23:00	0.00	0.000	5.428
Average Population		4.75	Average Area			0.00	Average Area			0.00	Qpeak
(includes CR lots)		4.94	Area			0.0	Area			0.0	11.794
Area SF		31.8									
Area MF		0.8									
Generated Flows (l/s)		233	Generated Flows (m ³ /hr/d)			3	Generated Flows (m ³ /hr/d)			12	
New Area Gain Flow		279	New Area Gain Flows			10	New Area Gain Flows			20	

ALTERNATE *** RESIDENTIAL NORTH OF 68 AVE - NORTH OF COUNTRY SIDE W/ REDEVELOPED COUNTRY RESIDENTIAL - E7

Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Total Hydrograph
0:00	0.6959	0.3357	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	8.357
1:00	0.4216	5.052	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	5.052
2:00	0.2185	2.824	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	2.824
3:00	0.1583	1.912	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	1.912
4:00	0.1212	1.456	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	1.456
5:00	0.1220	1.465	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	1.465
6:00	0.1769	2.124	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	2.124
7:00	0.4177	8.035	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	8.035
8:00	0.8453	15.730	8:00	2.00	2.000	8:00	2.00	2.000	8:00	2.00	2.000	8:00	2.00	2.000	15.730
9:00	1.3142	26.510	9:00	2.00	2.000	9:00	2.00	2.000	9:00	2.00	2.000	9:00	2.00	2.000	26.510
10:00	1.7081	29.772	10:00	2.00	2.000	10:00	2.00	2.000	10:00	2.00	2.000	10:00	2.00	2.000	29.772
11:00	1.8864	20.772	11:00	2.00	2.000	11:00	2.00	2.000	11:00	2.00	2.000	11:00	2.00	2.000	20.772
12:00	1.7123	20.562	12:00	2.00	2.000	12:00	2.00	2.000	12:00	2.00	2.000	12:00	2.00	2.000	20.562
13:00	1.5553	18.975	13:00	2.00	2.000	13:00	2.00	2.000	13:00	2.00	2.000	13:00	2.00	2.000	18.975
14:00	1.2753	15.314	14:00	2.00	2.000	14:00	2.00	2.000	14:00	2.00	2.000	14:00	2.00	2.000	15.314
15:00	1.1071	12.284	15:00	2.00	2.000	15:00	2.00	2.000	15:00	2.00	2.000	15:00	2.00	2.000	12.284
16:00	1.0202	12.251	16:00	2.00	2.000	16:00	2.00	2.000	16:00	2.00	2.000	16:00	2.00	2.000	12.251
17:00	1.1204	13.454	17:00	2.00	2.000	17:00	2.00	2.000	17:00	2.00	2.000	17:00	2.00	2.000	13.454
18:00	1.2151	14.597	18:00	2.00	2.000	18:00	2.00	2.000	18:00	2.00	2.000	18:00	2.00	2.000	14.597
19:00	1.3452	16.121	19:00	2.00	2.000	19:00	2.00	2.000	19:00	2.00	2.000	19:00	2.00	2.000	16.121
20:00	1.3775	16.541	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	16.541
21:00	1.5907	19.100	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	19.100
22:00	1.4485	17.394	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	17.394
23:00	1.1418	13.711	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	13.711
Average Population		12.01	Average Area		0.00	Average Area		0.00	Average Area		0.00	Average Area		0.00	Qpeak
Area SF	3524	3773	Area SF	3524	3773	Area SF	3524	3773	Area SF	3524	3773	Area SF	3524	3773	25.550
Area MF	246.04	246.04	Area MF	246.04	246.04	Area MF	246.04	246.04	Area MF	246.04	246.04	Area MF	246.04	246.04	6.0
Generated Flows (l/s)	233.4	233.4	Generated Flows (m ³ /hr/d)	5	5	Generated Flows (m ³ /hr/d)	5	5	Generated Flows (m ³ /hr/d)	5	5	Generated Flows (m ³ /hr/d)	5	5	12
New Area San Flow	273.4	273.4	New Area San Flow	10	10	New Area San Flow	10	10	New Area San Flow	10	10	New Area San Flow	10	10	20

RESIDENTIAL NORTH OF 68 AVE - COUNTRY SIDE / MAGRA LANDS - E7A

Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Total Hydrograph
0:00	0.6959	1.781	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	1.781
1:00	0.4216	1.079	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	1.079
2:00	0.2185	0.559	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	0.559
3:00	0.1583	0.408	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	0.408
4:00	0.1212	0.310	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	0.310
5:00	0.1220	0.312	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	0.312
6:00	0.1769	0.453	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	0.453
7:00	0.4177	1.089	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	1.089
8:00	0.8453	2.159	8:00	2.00	2.000	8:00	2.00	2.000	8:00	2.00	2.000	8:00	2.00	2.000	2.159
9:00	1.3142	3.363	9:00	2.00	2.000	9:00	2.00	2.000	9:00	2.00	2.000	9:00	2.00	2.000	3.363
10:00	1.7081	4.371	10:00	2.00	2.000	10:00	2.00	2.000	10:00	2.00	2.000	10:00	2.00	2.000	4.371
11:00	1.8864	4.853	11:00	2.00	2.000	11:00	2.00	2.000	11:00	2.00	2.000	11:00	2.00	2.000	4.853
12:00	1.7123	4.382	12:00	2.00	2.000	12:00	2.00	2.000	12:00	2.00	2.000	12:00	2.00	2.000	4.382
13:00	1.5553	3.980	13:00	2.00	2.000	13:00	2.00	2.000	13:00	2.00	2.000	13:00	2.00	2.000	3.980
14:00	1.2753	3.284	14:00	2.00	2.000	14:00	2.00	2.000	14:00	2.00	2.000	14:00	2.00	2.000	3.284
15:00	1.1071	2.833	15:00	2.00	2.000	15:00	2.00	2.000	15:00	2.00	2.000	15:00	2.00	2.000	2.833
16:00	1.0202	2.667	16:00	2.00	2.000	16:00	2.00	2.000	16:00	2.00	2.000	16:00	2.00	2.000	2.667
17:00	1.1204	3.104	17:00	2.00	2.000	17:00	2.00	2.000	17:00	2.00	2.000	17:00	2.00	2.000	3.104
18:00	1.2151	3.438	18:00	2.00	2.000	18:00	2.00	2.000	18:00	2.00	2.000	18:00	2.00	2.000	3.438
19:00	1.3452	3.525	19:00	0.00	0.000	19:00	0.00	0.000	19:00	0.00	0.000	19:00	0.00	0.000	3.525
20:00	1.3775	4.071	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	4.071
21:00	1.5907	4.071	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	4.071
22:00	1.4485	3.707	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	3.707
23:00	1.1418	2.922	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	2.922
Average Population		2.55	Average Area		0.00	Average Area		0.00	Average Area		0.00	Average Area		0.00	Qpeak
Area SF	804	804	Area SF	804	804	Area SF	804	804	Area SF	804	804	Area SF	804	804	7.831
Area MF	0	0	Area MF	0	0	Area MF	0	0	Area MF	0	0	Area MF	0	0	6.0
Generated Flows (l/s)	233.4	233.4	Generated Flows (m ³ /hr/d)	3	3	Generated Flows (m ³ /hr/d)	3	3	Generated Flows (m ³ /hr/d)	3	3	Generated Flows (m ³ /hr/d)	3	3	12
New Area San Flow	273.4	273.4	New Area San Flow	10	10	New Area San Flow	10	10	New Area San Flow	10	10	New Area San Flow	10	10	20

RESIDENTIAL NORTH OF 68 AVE - COUNTRY SIDE / MAGRA LANDS - E9
 Residential north of 68 Ave and residential west of 62 street and north of 68 Avenue

Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Total Hydrograph
0:00	0.6859	3.456	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	3.456
1:00	0.4216	2.083	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	2.083
2:00	0.2185	1.085	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	1.085
3:00	0.1583	0.791	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	0.791
4:00	0.1212	0.602	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	0.602
5:00	0.1220	0.606	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	0.606
6:00	0.1769	0.878	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	0.878
7:00	0.4177	2.074	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	2.074
8:00	0.8433	4.187	8:00	0.00	0.000	8:00	0.00	0.000	8:00	0.00	0.000	8:00	0.00	0.000	4.187
9:00	1.3142	6.525	9:00	0.00	0.000	9:00	0.00	0.000	9:00	0.00	0.000	9:00	0.00	0.000	6.525
10:00	1.7061	8.481	10:00	0.00	0.000	10:00	0.00	0.000	10:00	0.00	0.000	10:00	0.00	0.000	8.481
11:00	1.8964	9.418	11:00	0.00	0.000	11:00	0.00	0.000	11:00	0.00	0.000	11:00	0.00	0.000	9.418
12:00	1.7123	8.502	12:00	0.00	0.000	12:00	0.00	0.000	12:00	0.00	0.000	12:00	0.00	0.000	8.502
13:00	1.5553	7.722	13:00	0.00	0.000	13:00	0.00	0.000	13:00	0.00	0.000	13:00	0.00	0.000	7.722
14:00	1.2753	6.332	14:00	0.00	0.000	14:00	0.00	0.000	14:00	0.00	0.000	14:00	0.00	0.000	6.332
15:00	1.1071	5.497	15:00	0.00	0.000	15:00	0.00	0.000	15:00	0.00	0.000	15:00	0.00	0.000	5.497
16:00	1.0202	5.068	16:00	0.00	0.000	16:00	0.00	0.000	16:00	0.00	0.000	16:00	0.00	0.000	5.068
17:00	1.1204	5.563	17:00	0.00	0.000	17:00	0.00	0.000	17:00	0.00	0.000	17:00	0.00	0.000	5.563
18:00	1.2131	6.023	18:00	0.00	0.000	18:00	0.00	0.000	18:00	0.00	0.000	18:00	0.00	0.000	6.023
19:00	1.3425	6.868	19:00	0.00	0.000	19:00	0.00	0.000	19:00	0.00	0.000	19:00	0.00	0.000	6.868
20:00	1.3775	6.840	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	6.840
21:00	1.5807	7.896	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	7.896
22:00	1.4485	7.192	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	7.192
23:00	1.1418	5.670	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	5.670
Average Population		4.97	Average Area		0.00	Average Area		0.00	Average Area		0.00	Average Area		0.00	11.703
Area SF	1560		Area MF	33		Area MF	0		Area MF	0		Area MF	0		11.703
Generated Flows (l/s)	233	Unit	Generated Flows (m ³ /hr/d)	3	Unit	Generated Flows (m ³ /hr/d)	3	Unit	Generated Flows (m ³ /hr/d)	3	Unit	Generated Flows (m ³ /hr/d)	3	Unit	12
New Area Gen Flows	275	Unit	New Area Gen Flows	10	Unit	New Area Gen Flows	10	Unit	New Area Gen Flows	10	Unit	New Area Gen Flows	10	Unit	25

RESIDENTIAL NORTH OF 68 AVE - COUNTRY SIDE / MAGRA LANDS - E9

Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Total Hydrograph
0:00	0.6959	4.511	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	0:00	0.00	0.000	4.511
1:00	0.4216	2.733	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	1:00	0.00	0.000	2.733
2:00	0.2185	1.417	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	2:00	0.00	0.000	1.417
3:00	0.1583	1.032	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	3:00	0.00	0.000	1.032
4:00	0.1212	0.786	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	4:00	0.00	0.000	0.786
5:00	0.1220	0.791	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	5:00	0.00	0.000	0.791
6:00	0.1769	1.147	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	6:00	0.00	0.000	1.147
7:00	0.4177	2.708	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	7:00	0.00	0.000	2.708
8:00	0.8433	5.487	8:00	0.00	0.000	8:00	0.00	0.000	8:00	0.00	0.000	8:00	0.00	0.000	5.487
9:00	1.3142	8.519	9:00	0.00	0.000	9:00	0.00	0.000	9:00	0.00	0.000	9:00	0.00	0.000	8.519
10:00	1.7081	11.072	10:00	0.00	0.000	10:00	0.00	0.000	10:00	0.00	0.000	10:00	0.00	0.000	11.072
11:00	1.8964	12.293	11:00	0.00	0.000	11:00	0.00	0.000	11:00	0.00	0.000	11:00	0.00	0.000	12.293
12:00	1.7123	11.100	12:00	0.00	0.000	12:00	0.00	0.000	12:00	0.00	0.000	12:00	0.00	0.000	11.100
13:00	1.5553	10.082	13:00	0.00	0.000	13:00	0.00	0.000	13:00	0.00	0.000	13:00	0.00	0.000	10.082
14:00	1.2753	8.267	14:00	0.00	0.000	14:00	0.00	0.000	14:00	0.00	0.000	14:00	0.00	0.000	8.267
15:00	1.1071	7.177	15:00	0.00	0.000	15:00	0.00	0.000	15:00	0.00	0.000	15:00	0.00	0.000	7.177
16:00	1.0202	6.614	16:00	0.00	0.000	16:00	0.00	0.000	16:00	0.00	0.000	16:00	0.00	0.000	6.614
17:00	1.1204	7.263	17:00	0.00	0.000	17:00	0.00	0.000	17:00	0.00	0.000	17:00	0.00	0.000	7.263
18:00	1.2131	7.864	18:00	0.00	0.000	18:00	0.00	0.000	18:00	0.00	0.000	18:00	0.00	0.000	7.864
19:00	1.3425	8.703	19:00	0.00	0.000	19:00	0.00	0.000	19:00	0.00	0.000	19:00	0.00	0.000	8.703
20:00	1.3775	8.929	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	20:00	0.00	0.000	8.929
21:00	1.5807	10.311	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	21:00	0.00	0.000	10.311
22:00	1.4485	9.390	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	22:00	0.00	0.000	9.390
23:00	1.1418	7.402	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	23:00	0.00	0.000	7.402
Average Population		6.48	Average Area		0.00	Average Area		0.00	Average Area		0.00	Average Area		0.00	12.293
Area SF	1482		Area MF	37.3		Area MF	4.6		Area MF	4.6		Area MF	4.6		12.293
Generated Flows (l/s)	233	Unit	Generated Flows (m ³ /hr/d)	9	Unit	Generated Flows (m ³ /hr/d)	9	Unit	Generated Flows (m ³ /hr/d)	9	Unit	Generated Flows (m ³ /hr/d)	9	Unit	12
New Area Gen Flows	275	Unit	New Area Gen Flows	10	Unit	New Area Gen Flows	10	Unit	New Area Gen Flows	10	Unit	New Area Gen Flows	10	Unit	25

RESIDENTIAL SOUTH OF 68 AVE - COUNTRY SIDE SOUTH - 400022

Time	Diurnal Factor	Hydrograph
0:00	0.6959	2.013
1:00	0.4216	1.219
2:00	0.2185	0.632
3:00	0.1593	0.461
4:00	0.1212	0.351
5:00	0.1220	0.353
6:00	0.1769	0.512
7:00	0.4177	1.208
8:00	0.8433	2.439
9:00	1.3142	3.801
10:00	1.7081	4.941
11:00	1.8664	5.486
12:00	1.7123	4.953
13:00	1.5653	4.499
14:00	1.2753	3.689
15:00	1.1071	3.202
16:00	1.0202	2.951
17:00	1.1204	3.241
18:00	1.2131	3.569
19:00	1.3425	3.883
20:00	1.3775	3.985
21:00	1.5907	4.601
22:00	1.4485	4.190
23:00	1.1418	3.303
Average	2.89	2.89
Population	284 lots	
Generated Flows (l/s)	233 Lpd	
New Area Gen Flow	275 Lpd	

Time	Diurnal Factor	Hydrograph
0:00	0.00	0.000
1:00	0.00	0.000
2:00	0.00	0.000
3:00	0.00	0.000
4:00	0.00	0.000
5:00	0.00	0.000
6:00	0.00	0.000
7:00	0.00	0.000
8:00	0.00	0.000
9:00	0.00	0.000
10:00	0.00	0.000
11:00	0.00	0.000
12:00	0.00	0.000
13:00	0.00	0.000
14:00	0.00	0.000
15:00	0.00	0.000
16:00	0.00	0.000
17:00	0.00	0.000
18:00	0.00	0.000
19:00	0.00	0.000
20:00	0.00	0.000
21:00	0.00	0.000
22:00	0.00	0.000
23:00	0.00	0.000
Average	0.00	0.00
Area	0.0	0.0
Generated Flows (m³/m/d)	3	3
New Area Gen Flows	6	6

Time	Diurnal Factor	Hydrograph
0:00	0.00	0.000
1:00	0.00	0.000
2:00	0.00	0.000
3:00	0.00	0.000
4:00	0.00	0.000
5:00	0.00	0.000
6:00	0.00	0.000
7:00	0.00	0.000
8:00	0.00	0.000
9:00	0.00	0.000
10:00	0.00	0.000
11:00	0.00	0.000
12:00	0.00	0.000
13:00	0.00	0.000
14:00	0.00	0.000
15:00	0.00	0.000
16:00	0.00	0.000
17:00	0.00	0.000
18:00	0.00	0.000
19:00	0.00	0.000
20:00	0.00	0.000
21:00	0.00	0.000
22:00	0.00	0.000
23:00	0.00	0.000
Average	0.00	0.00
Area	0.0	0.0
Generated Flows (m³/m/d)	12	12
New Area Gen Flows	26	26

Time	Diurnal Factor	Hydrograph	Total Hydrograph
0:00	0.00	0.000	2.013
1:00	0.00	0.000	1.219
2:00	0.00	0.000	0.632
3:00	0.00	0.000	0.461
4:00	0.00	0.000	0.351
5:00	0.00	0.000	0.353
6:00	0.00	0.000	0.512
7:00	0.00	0.000	1.208
8:00	0.00	0.000	2.439
9:00	0.00	0.000	3.801
10:00	0.00	0.000	4.941
11:00	0.00	0.000	5.486
12:00	0.00	0.000	4.953
13:00	0.00	0.000	4.499
14:00	0.00	0.000	3.689
15:00	0.00	0.000	3.202
16:00	0.00	0.000	2.951
17:00	0.00	0.000	3.241
18:00	0.00	0.000	3.569
19:00	0.00	0.000	3.883
20:00	0.00	0.000	3.985
21:00	0.00	0.000	4.601
22:00	0.00	0.000	4.190
23:00	0.00	0.000	3.303
Average	0.00	0.000	5.486
Qpeak	0.00	0.000	5.486

RESIDENTIAL SOUTH OF 68 AVE - COUNTRY SIDE SOUTH - 400028

Time	Diurnal Factor	Hydrograph
0:00	0.6959	10.633
1:00	0.4216	6.441
2:00	0.2185	3.339
3:00	0.1593	2.433
4:00	0.1212	1.852
5:00	0.1220	1.863
6:00	0.1769	2.703
7:00	0.4177	6.362
8:00	0.8433	12.854
9:00	1.3142	20.078
10:00	1.7081	26.096
11:00	1.8664	28.973
12:00	1.7123	26.161
13:00	1.5653	23.761
14:00	1.2753	19.464
15:00	1.1071	16.914
16:00	1.0202	15.567
17:00	1.1204	17.117
18:00	1.2131	18.534
19:00	1.3425	20.511
20:00	1.3775	21.045
21:00	1.5907	24.302
22:00	1.4485	22.130
23:00	1.1418	17.445
Average	15.28	15.28
Population	120	
Generated Flows (l/s)	233 Lpd	
New Area Gen Flow	275 Lpd	

Time	Diurnal Factor	Hydrograph
0:00	0.00	0.000
1:00	0.00	0.000
2:00	0.00	0.000
3:00	0.00	0.000
4:00	0.00	0.000
5:00	0.00	0.000
6:00	0.00	0.000
7:00	0.00	0.000
8:00	0.00	0.000
9:00	0.00	0.000
10:00	0.00	0.000
11:00	0.00	0.000
12:00	0.00	0.000
13:00	0.00	0.000
14:00	0.00	0.000
15:00	0.00	0.000
16:00	0.00	0.000
17:00	0.00	0.000
18:00	0.00	0.000
19:00	0.00	0.000
20:00	0.00	0.000
21:00	0.00	0.000
22:00	0.00	0.000
23:00	0.00	0.000
Average	2.78	2.78
Area	12.0	12.0
Generated Flows (m³/m/d)	3	3
New Area Gen Flows	20	20

Time	Diurnal Factor	Hydrograph
0:00	0.00	0.000
1:00	0.00	0.000
2:00	0.00	0.000
3:00	0.00	0.000
4:00	0.00	0.000
5:00	0.00	0.000
6:00	0.00	0.000
7:00	0.00	0.000
8:00	0.00	0.000
9:00	0.00	0.000
10:00	0.00	0.000
11:00	0.00	0.000
12:00	0.00	0.000
13:00	0.00	0.000
14:00	0.00	0.000
15:00	0.00	0.000
16:00	0.00	0.000
17:00	0.00	0.000
18:00	0.00	0.000
19:00	0.00	0.000
20:00	0.00	0.000
21:00	0.00	0.000
22:00	0.00	0.000
23:00	0.00	0.000
Average	0.00	0.000
Area	0.0	0.0
Generated Flows (m³/m/d)	12	12
New Area Gen Flows	26	26

Time	Diurnal Factor	Hydrograph	Total Hydrograph
0:00	0.00	0.000	10.633
1:00	0.00	0.000	6.441
2:00	0.00	0.000	3.339
3:00	0.00	0.000	2.433
4:00	0.00	0.000	1.852
5:00	0.00	0.000	1.863
6:00	0.00	0.000	2.703
7:00	0.00	0.000	6.362
8:00	0.00	0.000	12.854
9:00	0.00	0.000	20.078
10:00	0.00	0.000	26.096
11:00	0.00	0.000	28.973
12:00	0.00	0.000	26.161
13:00	0.00	0.000	23.761
14:00	0.00	0.000	19.464
15:00	0.00	0.000	16.914
16:00	0.00	0.000	15.567
17:00	0.00	0.000	17.117
18:00	0.00	0.000	18.534
19:00	0.00	0.000	20.511
20:00	0.00	0.000	21.045
21:00	0.00	0.000	24.302
22:00	0.00	0.000	22.130
23:00	0.00	0.000	17.445
Average	0.00	0.000	34.529
Qpeak	0.00	0.000	34.529

COMMERCIAL AREA SOUTH OF 68 AVE - COUNTRY SIDE SOUTH - 400020
(FROM AREAS 2 AND 3 IN ASP)

Residential

Time	Diurnal Factor	Hydrograph
0:00	0.6959	0.000
1:00	0.4216	0.000
2:00	0.2185	0.000
3:00	0.1593	0.000
4:00	0.1212	0.000
5:00	0.1220	0.000
6:00	0.1769	0.000
7:00	0.4177	0.000
8:00	0.8433	0.000
9:00	1.3142	0.000
10:00	1.7081	0.000
11:00	1.8884	0.000
12:00	1.7123	0.000
13:00	1.5653	0.000
14:00	1.2753	0.000
15:00	1.1071	0.000
16:00	1.0202	0.000
17:00	1.1204	0.000
18:00	1.2131	0.000
19:00	1.3425	0.000
20:00	1.3775	0.000
21:00	1.3907	0.000
22:00	1.4485	0.000
23:00	1.1418	0.000

Average Population 0
Generated Flows (l/s) 235 L/s
New Area Gen Flws 275 L/s

Industrial

Time	Diurnal Factor	Hydrograph
0:00	0.00	0.000
1:00	0.00	0.000
2:00	0.00	0.000
3:00	0.00	0.000
4:00	0.00	0.000
5:00	0.00	0.000
6:00	0.00	0.000
7:00	0.00	0.000
8:00	0.00	0.000
9:00	2.00	5.556
10:00	2.00	5.556
11:00	2.00	5.556
12:00	2.00	5.556
13:00	2.00	5.556
14:00	2.00	5.556
15:00	2.00	5.556
16:00	2.00	5.556
17:00	2.00	5.556
18:00	2.00	5.556
19:00	2.00	5.556
20:00	0.00	0.000
21:00	0.00	0.000
22:00	0.00	0.000
23:00	0.00	0.000

Average Area 0.0
Generated Flows (m³/s/d) 3
New Area Gen Flws 20

Commercial Hydrographs

Time	Diurnal Factor	Hydrograph
0:00	0.00	0.000
1:00	0.00	0.000
2:00	0.00	0.000
3:00	0.00	0.000
4:00	0.00	0.000
5:00	0.00	0.000
6:00	0.00	0.000
7:00	0.00	0.000
8:00	0.00	0.000
9:00	2.00	13.602
10:00	2.00	13.602
11:00	2.00	13.602
12:00	2.00	13.602
13:00	2.00	13.602
14:00	2.00	13.602
15:00	2.00	13.602
16:00	2.00	13.602
17:00	2.00	13.602
18:00	2.00	13.602
19:00	2.00	13.602
20:00	0.00	0.000
21:00	0.00	0.000
22:00	0.00	0.000
23:00	0.00	0.000

Average Area 6.80
Generated Flows (m³/s/d) 12
New Area Gen Flws 26

Total Hydrograph

Time	Diurnal Factor	Hydrograph
0:00	0.00	0.000
1:00	0.00	0.000
2:00	0.00	0.000
3:00	0.00	0.000
4:00	0.00	0.000
5:00	0.00	0.000
6:00	0.00	0.000
7:00	0.00	0.000
8:00	0.00	0.000
9:00	2.00	13.602
10:00	2.00	13.602
11:00	2.00	13.602
12:00	2.00	13.602
13:00	2.00	13.602
14:00	2.00	13.602
15:00	2.00	13.602
16:00	2.00	13.602
17:00	2.00	13.602
18:00	2.00	13.602
19:00	2.00	13.602
20:00	0.00	0.000
21:00	0.00	0.000
22:00	0.00	0.000
23:00	0.00	0.000

Average Area 6.80
Generated Flows (m³/s/d) 22.6
New Area Gen Flws 26

Peak

19.157

CRYSTAL LAKE - NODE 300033

Residential		School		Commercial		CL		Total	
Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time
0:00	0.6959	5.8566	0:00	0.00	0.000	0:00	0.00	0.000	0:00
1:00	0.4216	3.5477	1:00	0.00	0.000	1:00	0.00	0.000	1:00
2:00	0.2185	1.8339	2:00	0.00	0.000	2:00	0.00	0.000	2:00
3:00	0.1593	1.340	3:00	0.00	0.000	3:00	0.00	0.000	3:00
4:00	0.1212	1.020	4:00	0.00	0.000	4:00	0.00	0.000	4:00
5:00	0.1220	1.026	5:00	0.00	0.000	5:00	0.00	0.000	5:00
6:00	0.1769	1.488	6:00	0.00	0.000	6:00	0.00	0.000	6:00
7:00	0.4177	3.515	7:00	0.00	0.000	7:00	0.00	0.000	7:00
8:00	0.8433	7.096	8:00	2.00	2.083	8:00	2.00	2.083	8:00
9:00	1.3142	11.057	9:00	2.00	2.083	9:00	2.00	2.083	9:00
10:00	1.7091	14.372	10:00	2.00	2.083	10:00	2.00	2.083	10:00
11:00	1.8964	15.956	11:00	2.00	2.083	11:00	2.00	2.083	11:00
12:00	1.7123	14.407	12:00	2.00	2.083	12:00	2.00	2.083	12:00
13:00	1.5553	13.086	13:00	2.00	2.083	13:00	2.00	2.083	13:00
14:00	1.2753	10.730	14:00	2.00	2.083	14:00	2.00	2.083	14:00
15:00	1.1071	9.315	15:00	2.00	2.083	15:00	2.00	2.083	15:00
16:00	1.0202	8.584	16:00	2.00	2.083	16:00	2.00	2.083	16:00
17:00	1.1204	9.427	17:00	2.00	2.083	17:00	2.00	2.083	17:00
18:00	1.2131	10.207	18:00	2.00	2.083	18:00	2.00	2.083	18:00
19:00	1.3425	11.296	19:00	2.00	2.083	19:00	2.00	2.083	19:00
20:00	1.3775	11.590	20:00	0.00	0.000	20:00	0.00	0.000	20:00
21:00	1.5907	13.384	21:00	0.00	0.000	21:00	0.00	0.000	21:00
22:00	1.4485	12.188	22:00	0.00	0.000	22:00	0.00	0.000	22:00
23:00	1.1418	9.607	23:00	0.00	0.000	23:00	0.00	0.000	23:00
Average		8.41	Average		1.04	Average		1.04	Average
Population		3120	Area		4.5	Area		4.5	Area
Generated Flows (l/s)		233 L/s	Generated Flows (m ³ /ha/d)		3	Generated Flows (m ³ /ha/d)		3	Generated Flows (m ³ /ha/d)
New Area Gen Flow		275 L/s	New Area Gen Flow		20	New Area Gen Flow		20	New Area Gen Flow

CRYSTAL LAKE - NODE 300070

Residential		Industrial		Commercial		CL		Total	
Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time	Diurnal Factor	Hydrograph	Time
0:00	0.6959	3.311	0:00	0.00	0.000	0:00	0.00	0.000	0:00
1:00	0.4216	2.006	1:00	0.00	0.000	1:00	0.00	0.000	1:00
2:00	0.2185	1.040	2:00	0.00	0.000	2:00	0.00	0.000	2:00
3:00	0.1593	0.758	3:00	0.00	0.000	3:00	0.00	0.000	3:00
4:00	0.1212	0.577	4:00	0.00	0.000	4:00	0.00	0.000	4:00
5:00	0.1220	0.580	5:00	0.00	0.000	5:00	0.00	0.000	5:00
6:00	0.1769	0.862	6:00	0.00	0.000	6:00	0.00	0.000	6:00
7:00	0.4177	1.967	7:00	0.00	0.000	7:00	0.00	0.000	7:00
8:00	0.8433	4.012	8:00	2.00	2.000	8:00	2.00	2.000	8:00
9:00	1.3142	6.252	9:00	2.00	2.000	9:00	2.00	2.000	9:00
10:00	1.7091	8.125	10:00	2.00	2.000	10:00	2.00	2.000	10:00
11:00	1.8964	9.021	11:00	2.00	2.000	11:00	2.00	2.000	11:00
12:00	1.7123	8.146	12:00	2.00	2.000	12:00	2.00	2.000	12:00
13:00	1.5553	7.358	13:00	2.00	2.000	13:00	2.00	2.000	13:00
14:00	1.2753	6.067	14:00	2.00	2.000	14:00	2.00	2.000	14:00
15:00	1.1071	5.267	15:00	2.00	2.000	15:00	2.00	2.000	15:00
16:00	1.0202	4.853	16:00	2.00	2.000	16:00	2.00	2.000	16:00
17:00	1.1204	5.350	17:00	2.00	2.000	17:00	2.00	2.000	17:00
18:00	1.2131	5.771	18:00	2.00	2.000	18:00	2.00	2.000	18:00
19:00	1.3425	6.386	19:00	0.00	0.000	19:00	0.00	0.000	19:00
20:00	1.3775	6.553	20:00	0.00	0.000	20:00	0.00	0.000	20:00
21:00	1.5907	7.567	21:00	0.00	0.000	21:00	0.00	0.000	21:00
22:00	1.4485	6.891	22:00	0.00	0.000	22:00	0.00	0.000	22:00
23:00	1.1418	5.432	23:00	0.00	0.000	23:00	0.00	0.000	23:00
Average		4.76	Average		0.00	Average		0.00	Average
Population		1764	Area		0	Area		0	Area
Generated Flows (l/s)		233 L/s	Generated Flows (m ³ /ha/d)		3	Generated Flows (m ³ /ha/d)		3	Generated Flows (m ³ /ha/d)
New Area Gen Flow		275 L/s	New Area Gen Flow		20	New Area Gen Flow		20	New Area Gen Flow