

Project: **21st Street Kids and Family Empowerment**
 Date: 8/23/2005
 Prep. By: BLB

Manual Input

Basin 1

Total Area 29.02 Acres

Soil Group	A (% of Total Area)	B (% of Total Area)	C (% of Total Area)	D (% of Total Area)	Total
	0%	100%	0%	0%	100%
Acres	0.00	29.02	0.00	0.00	29.02

Land Use	Commercial (% of Total Area)	Industrial (% of Total Area)	Multi-Family (% of Total Area)	Public (% of Total Area)	Single Family (% of Total Area)	Vacant/Agriculture (% of Total Area)
Future	80%	0%	0%	0%	20%	0%
Acres	23.22	0.00	0.00	0.00	5.80	0.00

	Future	
Length of Flow	2250 ft	
Slope	0.82 %	
Waterflow Desc	pavement	15 min <= Tc <= 24 hrs
Avg Velocity	1.00 ft/sec	
Tc	0.63 hours	

Runoff Coefficients * Used Soil Group D To Be Conservative

Return Period (Years)	Commercial	Industrial	Multi-Family	Public	Single Family	Vacant/Agriculture
2	0.68	0.68	0.70	0.49	0.50	0.54
5	0.69	0.69	0.73	0.51	0.54	0.56
10	0.73	0.73	0.79	0.56	0.62	0.61
25	0.75	0.75	0.81	0.59	0.66	0.64
50	0.77	0.77	0.83	0.62	0.70	0.67
100	0.80	0.80	0.86	0.66	0.76	0.70

Future Conditions

Return Period (Years)	Runoff Coefficient *	Rainfall Intensity (in/hr)	Area (Acres)	Runoff (cfs)
2	0.64	2.32	29.02	43.36
5	0.66	2.84	29.02	54.40
10	0.71	3.31	29.02	68.01
25	0.73	3.87	29.02	82.21
50	0.76	4.37	29.02	95.87
100	0.79	4.79	29.02	110.09