

APPENDIX B - TABLES

TABLE 1- DRAINAGE AREA SUMMARY

## TRIPLE LAKES

Area	Acreage	Existing CN	Ultimate CN	$t_c$ (hrs.)
1.	276.46	64.2	64.2	.73
2.	270.71	62.5	62.9	.42
3.	156.17	60.2	60.2	.34
4.	271.17	73.9	76.5	.31
5.	86.48	68.3	77.1	.30
6.	36.34	73.9	77.3	.19
7.	56.35	81.3	82.0	.29
8.	13.80	82.0	82.0	.21
9.	12.65	82.0	82.0	.19
10.	14.03	82.0	82.0	.17
11.	17.94	82.0	82.0	.11
12.	27.60	82.0	82.0	.34
13.	21.16	82.4	84.7	.17
14.	73.37	77.2	81.8	.14
15.	34.50	77.7	85.2	.14
16.	11.04	81.8	82.3	.08
17.	87.86	68.1	85.8	.21
18.	190.67	73.2	82.0	.38
19.	48.76	75.4	81.4	.19
20.	51.75	77.5	86.5	.13
21.	31.74	66.4	89.3	.10
22.	102.12	63.1	83.4	.22
23.	140.53	76.4	87.9	1.11
24.	46.92	73.4	77.7	.27
25.	16.33	82.5	84.4	.24
Total Acreage	2092.52			
Weighted CN		70.1	75.4	

TABLE 2- TRIPLE LAKES STRUCTURES

Structure No.	Location	Description	From Surveys	From Field Reconnaissance
	<u>Main Stream</u>			
1	Western Maryland Railroad	10' x 10' Brick Box		X
2	Pinto Road	7.8' x 5.5' Concrete Box	X	
3	Station 51+30	6' x 8' Concrete Box	X	
4	U.S. Route 220	10' x 6' Concrete Box	X	
	<u>Tributary No. 1</u>			
5	Traylor Park Road	Two half sections 72" steel pipes	X	
6	Traylor Park Road	54" Steel Pipe	X	
7	U.S. Route 220	10' x 3.7' CMPA	X	
8	Barton Road	12" RCP		X
	<u>Tributary No. 2</u>			
9	Below U.S. Route 220	18" CMP		X
10	U.S. Route 220	18" CMP		X
11	First Street	15" CMP		X
12	Downing Street to Forest Street	15" CMP		X
	<u>Tributary No. 3A</u>			
13	Lake Drive	42" CMP	X	
14	Westwood Road	36" CMP	X	
15	Shamrock Road	36" CMP	X	
	<u>Tributary No. 3B</u>			
16	U.S. Route 220	24" RCP to 2.5' x 1.5' CMPA	X	
17	First Street	3.2' x 1.5' CMPA	X	

TABLE 2-TRIPLE LAKES STRUCTURES

Structure No.	Location	Description	From Surveys	From Field Reconnaissance
<u>Tributary No. 4</u>				
18	Station 0+00	4' Steel Pipe		X
19	Grace Avenue	6' x 6.5' CMPA		X
20	Merla Avenue	2' x 4' CMPA		X
21	Dirt Road	30" Steel Pipe		X
22	Elton Road to Cunningham Drive	24" CMP		X
23	Yoder Drive	18" CMP		X
24	Glen Oaks Drive	18" CMP		X
25	Louis Drive	1' Steel Pipe		X
26	Harold Drive	1' Steel Pipe		X
<u>Tributary No. 4A</u>				
27	Cunningham Drive to Yoder Drive	12" RCP		X
28	Station	15" RCP		X
29	Louis Drive	12" RCP		X
30	Harold Drive	15" RCP		X
<u>Tributary No. 5</u>				
31	U.S. Route 220	4.5' x 3.0' CMPA	X	
32	Dirt Road	2' x 4' CMPA		X
33	Barton Road	36" RCP		X

TABLE 3

## TRIPLE LAKES

Computed Water Surface  
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS				ULTIMATE DEVELOPMENT CONDITIONS				Q in cfs; WSEL in feet			
	Q <sub>2</sub>	WSEL <sub>2</sub>	Q <sub>10</sub>	WSEL <sub>10</sub>	Q <sub>100</sub>	WSEL <sub>100</sub>	Q <sub>2</sub>	WSEL <sub>2</sub>	Q <sub>10</sub>	WSEL <sub>10</sub>	Q <sub>100</sub>	WSEL <sub>100</sub>
77.0	578	659.7	1600	661.7	3046	663.5	887	660.5	2083	662.4	3643	664.0
78.0		664.7		666.1		667.6		665.2		666.7		668.1
79.0		668.8		669.5		670.2		669.0		669.8		670.5
80.0		676.7		677.5		678.3		676.9		677.8		678.5
89.0		678.1		678.8		679.7		678.0		679.1		680.0
90.0		680.8		682.7		683.3		682.3		682.9		683.6
91.0	439	688.8	1174	690.4	2235	691.1	554	687.6	1382	690.6	2510	691.2
92.0		692.0		693.9		694.9		693.2		694.0		695.1
93.0		692.5		695.2		696.2		692.9		695.5		696.3
93.1		692.7		696.1		697.6		693.3		696.5		697.9

MAIN STREAM

TABLE 3

## TRIPLE LAKES

Computed Water Surface  
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS					ULTIMATE DEVELOPMENT CONDITIONS					Q in cfs; WSEL in feet	
	Q <sub>2</sub>	WSEL <sub>2</sub>	Q <sub>10</sub>	WSEL <sub>10</sub>	Q <sub>100</sub>	WSEL <sub>100</sub>	Q <sub>2</sub>	WSEL <sub>2</sub>	Q <sub>10</sub>	WSEL <sub>10</sub>	Q <sub>100</sub>	WSEL <sub>100</sub>
94.0	439	695.6	1174	697.5	2235	699.0	554	696.1	1382	697.9	2510	699.3
95.0		699.7		700.5		701.2		699.9		700.6		701.3
99.0		708.0		709.8		711.3		708.3		710.1		711.5
100.0		718.2		720.7		721.9		718.6		721.0		722.2
101.0		721.0		723.5		724.2		721.4		723.7		724.3
101.1		721.6		724.1		725.1		724.3		724.3		725.4
101.2		721.8		724.8		726.0		724.4		725.0		726.2
101.3		723.4		725.3		726.6		724.5		725.6		726.9
102.0		723.7		725.5		726.9		724.7		725.9		727.2
103.0		726.8		727.5		728.4		726.9		727.7		728.8
105.0	422	734.8	1059	736.6	1912	737.6	483	735.2	1151	736.8	2023	737.8
107.0		744.3		746.3		747.2		744.4		746.4		747.3

TABLE 3

## TRIPLE LAKES

Computed Water Surface  
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS				ULTIMATE DEVELOPMENT CONDITIONS				Q in cfs; WSEL in feet			
	Q <sub>2</sub>	WSEL <sub>2</sub>	Q <sub>10</sub>	WSEL <sub>10</sub>	Q <sub>100</sub>	WSEL <sub>100</sub>	Q <sub>2</sub>	WSEL <sub>2</sub>		Q <sub>10</sub>	WSEL <sub>10</sub>	Q <sub>100</sub>
107.9	26	751.8	53	752.3	84	752.7	29	751.9	57	752.4	88	752.7
108.0		754.3		754.3		754.4		754.3		754.3		754.5
109.0		759.4		759.5		759.6		759.4		759.5		759.6
109.1		763.1		763.9		764.9		763.2		764.0		765.0
109.2		763.6		765.2		765.2		763.7		765.4		765.2
109.3		764.0		765.3		765.3		764.2		765.4		765.3
109.4		764.7		765.3		765.3		765.1		765.4		765.3
110.0	26	764.8	53	765.3	84	765.3	29	765.1	57	765.4	88	765.3
111.0		774.4		774.6		774.7		774.4		774.6		774.8
112.0		781.5		781.7		781.9		781.6		781.8		782.0

TRIBUTARY NO. 3B

TABLE 3

## TRIPLE LAKES

Computed Water Surface  
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS				ULTIMATE DEVELOPMENT CONDITIONS				Q in cfs; WSEL in feet			
	Q <sub>2</sub>	WSEL <sub>2</sub>	Q <sub>10</sub>	WSEL <sub>10</sub>	Q <sub>100</sub>	WSEL <sub>100</sub>	Q <sub>2</sub>	WSEL <sub>2</sub>	Q <sub>10</sub>	WSEL <sub>10</sub>	Q <sub>100</sub>	WSEL <sub>100</sub>
117.0	422	755.8	1059	758.1	1912	759.5	483	756.2	1151	758.4	2023	759.6
118.1		758.1		760.8		761.5		758.4		760.9		761.6
118.2		758.9		762.0		762.8		760.6		762.1		762.9
119.0		761.4		763.1		763.7		762.0		763.2		763.8
120.0	221	774.8	599	776.4	1159	778.2	264	775.1	663	776.6	1234	778.3
121.0		786.8		788.6		789.1		787.1		788.8		789.2
122.0		805.9		807.0		808.3		806.1		807.2		808.4
123.0		818.8		820.2		821.3		819.1		820.4		821.5
TRIBUTARY NO. 1												
80.0	578	676.7	1600	677.5	3046	678.3	887	676.9	2083	677.8	3643	678.5
81.0	166	678.5	448	678.8	798	679.6	294	678.1	631	679.1	1010	679.9
81.1		678.6		679.1		679.6		678.7		679.3		679.7





TABLE 3

## TRIPLE LAKES

SECTION	Computed Water Surface Elevations for Each Cross Section						Q in cfs; WSEL in feet									
	EXISTING DEVELOPMENT CONDITIONS			ULTIMATE DEVELOPMENT CONDITIONS			EXISTING DEVELOPMENT CONDITIONS			ULTIMATE DEVELOPMENT CONDITIONS						
	Q <sub>2</sub>	WSEL <sub>2</sub>	Q <sub>10</sub>	WSEL <sub>10</sub>	Q <sub>100</sub>	WSEL <sub>100</sub>	Q <sub>2</sub>	WSEL <sub>2</sub>	Q <sub>10</sub>	WSEL <sub>10</sub>	Q <sub>100</sub>	WSEL <sub>100</sub>	Q <sub>10</sub>	WSEL <sub>10</sub>	Q <sub>100</sub>	WSEL <sub>100</sub>
89.0	166	678.7	448	679.3	798	680.1	294	678.8	631	679.7	1010	680.4				
90.0		679.9		681.5		682.5		680.8		682.4		682.6				
83.0		684.9		685.7		685.7		685.3		685.7		685.9				
84.1		685.3		685.8		686.1		685.6		686.0		683.3				
84.2		685.4		685.9		686.2		685.6		686.0		686.3				
84.3		685.6		686.0		686.4		685.9		686.2		686.6				
84.4		685.7		686.1		686.4		685.9		686.3		686.6				
85.0		685.4		686.6		686.6		686.6		686.6		686.7				
86.0	178	688.8	472	689.1	834	690.5	312	688.8	661	689.9	1052	690.8				
87.1		689.4		692.5		690.5		691.8		692.6		693.2				
87.2		691.0		692.7		693.1		692.4		692.9		693.5				
88.0		692.4		693.5		694.2		693.1		693.9		694.4				
88.1		699.0		699.6		700.0		699.3		699.8		700.2				

TABLE 3

## TRIPLE LAKES

SECTION	Computed Water Surface Elevations for Each Cross Section										Q in cfs; WSEL in feet			
	EXISTING DEVELOPMENT CONDITIONS					ULTIMATE DEVELOPMENT CONDITIONS					Q in cfs; WSEL in feet			
	Q <sub>2</sub>	WSEL <sub>2</sub>	Q <sub>10</sub>	WSEL <sub>10</sub>	Q <sub>100</sub>	WSEL <sub>100</sub>	Q <sub>2</sub>	WSEL <sub>2</sub>	Q <sub>10</sub>	WSEL <sub>10</sub>	Q <sub>100</sub>	WSEL <sub>100</sub>	Q <sub>100</sub>	WSEL <sub>100</sub>
TRIBUTARY NO. 5														
95.0	439	699.7	1174	700.5	2235	701.2	554	699.9	1382	700.6	2510	701.3		
98.0	117	699.8	274	700.9	484	703.9	165	699.5	348	701.7	579	704.1		
98.1		703.4		704.0		704.4		703.6		704.2		704.5		
97.0		704.2		705.5		706.9		704.7		706.0		706.9		
96.0		712.2		712.6		712.8		712.5		712.7		712.8		
96.1		718.4		718.8		719.6		718.7		719.2		719.8		
96.2		743.0		744.1		744.9		743.4		744.4		745.2		

TLSUM

TRIPLE LAKES  
TABLE 4 -FLOOD DAMAGE ESTIMATES EXISTING CONDITIONS

*	*	2-YEAR STORM	*	10-YEAR STORM	*	100-YEAR STORM	*
* ITEMIZED LOSSES	*	EXISTING CONDITONS	*	EXISTING CONDITIIONS	*	EXISTING CONDITIONS	*
* PRIVATE LOSSES	*		*		*		*
* -STRUCTURES	*	\$ 15,220	*	\$ 61,470	*	\$ 142,805	*
* -CONTENTS	*	10,400	*	31,500	*	56,000	*
* -EXTERIOR PROPERTIES	*	21,450	*	33,000	*	56,100	*
* -VEHICLES	*	33,000	*	66,000	*	132,000	*
* TOTAL PRIVATE LOSSES	*	\$ 80,150	*	\$ 191,970	*	\$ 386,905	*
* PUBLIC LOSSES	*		*		*		*
* -EMERGENCY POLICE SERVICES	*	\$ 0	*	\$ 1160	*	\$ 1160	*
* -CITY CLEAN-UP SERVICES	*	3,776	*	9456	*	16384	*
* -UTILITIES REPAIR SERVICES	*	1,200	*	1200	*	1800	*
* TOTAL PUBLIC LOSSES	*	\$ 4,976	*	\$ 11,816	*	\$ 19,344	*
* ABSTRACT LOSSES	*		*		*		*
* -LOST WAGES	*	\$ 7,920	*	\$ 7,920	*	\$ 15,840	*
* TOTAL ABSTRACT LOSSES	*	\$ 7,920	*	\$ 7,920	*	\$ 15,840	*
* TOTAL OF ALL LOSSES	*	\$ 93,046	*	\$ 211,706	*	\$ 422,089	*
* AVERAGE ANNUAL DAMAGES = .45(2-YEAR TOTAL)+.245(10-YEAR TOTAL)+.055(100-YEAR TOTAL)=	*		*		*	\$ 116,954	*
* PRESENT VALUE OF THE AVERAGE ANNUAL DAMAGES(TAKEN FOR 30 YEARS AT AN INTEREST RATE OF 8%)=	*		*		*	\$ 1,316,640	*

TRIPLE LAKES  
TABLE 5 - FLOOD DAMAGE ESTIMATES ULTIMATE CONDITIONS

* ITEMIZED LOSSES	* 2-YEAR STORM * ULTIMATE CONDIONS	* 10-YEAR STORM * ULTIMATE CONDITIONS	* 100-YEAR STORM * ULTIMATE CONDITIONS	* *
* PRIVATE LOSSES	*	*	*	*
* -STRUCTURES	* \$ 21,825	* \$ 72,510	* \$ 179,995	*
* -CONTENTS	* 14,240	* 35,520	* 69,060	*
* -EXTERIOR PROPERTIES	* 21,450	* 33,000	* 56,100	*
* -VEHICLES	* 33,000	* 66,000	* 132,000	*
* TOTAL PRIVATE LOSSES	* \$ 90,515	* \$ 207,030	* \$ 437,155	*
* PUBLIC LOSSES	*	*	*	*
* -EMERGENCY POLICE SERVICES	* \$ 0	* \$ 1160	* \$ 1160	*
* -CITY CLEAN-UP SERVICES	* 3,776	* 9456	* 16384	*
* -UTILITIES REPAIR SERVICES	* 1,200	* 1200	* 1800	*
* TOTAL PUBLIC LOSSES	* \$ 4,976	* \$ 11,816	* \$ 19,344	*
* ABSTRACT LOSSES	*	*	*	*
* -LOST WAGES	* \$ 7,920	* \$ 7,920	* \$ 15,840	*
* TOTAL ABSTRACT LOSSES	* \$ 7,920	* \$ 7,920	* \$ 15,840	*
* TOTAL OF ALL LOSSES	* \$ 103,411	* \$ 226,766	* \$ 472,339	*
* AVERAGE ANNUAL DAMAGES = .45(2-YEAR TOTAL)+.245(10-YEAR TOTAL)+.055(100-YEAR TOTAL)=	* \$ 128,071			*
* PRESENT VALUE OF THE AVERAGE ANNUAL DAMAGES(TAKEN FOR 30 YEARS AT AN INTEREST RATE OF 8%)=	* \$ 1,441,801			*

Table 6. FLOOD MANAGEMENT ALTERNATIVES

## TRIPLE LAKES WATERSHED

House ID Code	Base-ment	100-Year Flood Elevation in Relationship to 1st Floor Elevation	100-Year Flood Depth Around Foundation or Basement Equal To or Greater Than One Foot	ALTERNATIVES				Comments
				Flood Proof	Flood Insur.	Purchase Candidate	Structural Improvements	
AW-1		1.5		X	X			Garage-storage structure
AW BO		- -			X X			Trailer park - 33 units
AX AY AY-1		2.5 2.5 1.0			X X X			Commercial structure Commercial structure Commercial structure
AZ BB	X	1.0 -1.0	X	X	X	X X		Access problem
BC BD BE BY BZ		1.0 0.5 - - -				X X X X X		Trailer Sales Park
BF		3.0				X		Gas station
BF-1 BG BH	X X	3.0 -1.0 -2.0	X	X X	X X	X		High's Store Access problem
BI BJ		- -		X X	X X			Foundation flooding Foundation flooding
BK BL		1.0 3.5				X X		
BM		4.5					Tear down	Abandoned
BN		-						Out of flood zone
BP BQ BR BS	X X X X	-6.5 -2.5 -2.5 -3.0	X	X X X X	X X X X	X		Access problem
BM-1 BT BU BV	X X X	- - - -4.0		X X X	X X X			Foundation flooding Out of flood zone Foundation flooding
BW BX	X X	- -						Out of flood zone Out of flood zone
BS-1		-		X				Foundation flooding
CA CB		- -			X X			Trailer park - 8 units
CC		0.5			X			Trailer park - 3 units
Pinto Road Overtopping							Five 92" x 65" CMPA required for 10-yr. design	Improvement not practical or economical
U.S. Route Overtopping on Trib. No. 5							Three 72" x 44" CMPA required for 10-yr. design (\$108,000)	Not recommended