

TABLE 1  
Number of Stream Samples Collected by Year

	1994	1995	1996	1997	1998
Number of Samples collected for Fecal Coliforms	1528	1574	1536	1686	1520
Number of Samples collected for Dissolved Oxygen	1528	1574	1536	1686	1520
Number of Samples collected for Total Phosphorous	1528	1574	1536	1686	1520
Number of Samples collected for pH	1528	1574	1536	1686	1520
Number of Samples collected for Nitrate Nitrogen	1528	1574	1536	1686	1520

NOTE: The number of samples collected include all attempted samples collected rather than number of samples tested.

Sample site 01 - 01 (Horsepen Creek) was not collected due to the expansion of Centreville Rd to 4 lanes.

Sample site 05-16 (Difficult Run) was not collected due to the expansion of Georgetown Pike

See past annual reports for data results

TABLE 2  
NUMBER OF FECAL COLIFORM SAMPLES  
FOR EACH SAMPLING SITE

REPORT FROM	01/01/98	TO	12/31/98	
SAMPLE STATION	TOTAL SAMPLES COLLECTED	<200 per 100 ml	200-1000 per 100 ml	>1000 per 100 ml
-----				
HORSEPEN CREEK				
01-01	- See note on Table 1			
SUGARLAND RUN				
02-02	16	3	8	5
02-03	10	0	7	3
NICHOL RUN				
03-03	12	1	8	3
POND BRANCH				
04-01	21	3	13	5
04-02	21	2	10	9
04-03	22	3	13	6
DIFFICULT RUN				
05-01	23	5	12	6
05-05	17	0	13	4
05-09	17	1	8	8
05-11	17	1	9	7
05-12	17	0	13	4
05-13	16	1	11	4
05-15	22	3	13	6
05-16	See note on page T-1			
05-18	17	1	14	2
05-19	17	2	9	6
BULLNECK RUN				
06-02	24	2	17	5
SCOTTS RUN				
07-01	24	1	16	7
DEAD RUN				
08-02	24	1	11	12
TURKEY RUN				
09-01	12	1	10	1

TABLE 2  
NUMBER OF FECAL COLIFORM SAMPLES  
FOR EACH SAMPLING SITE

REPORT FROM 01/01/98 TO: 12/31/98

SAMPLE STATION	TOTAL SAMPLES COLLECTED	<200 per 100 ml	200-1000 per 100 ml	>1000 per 100 ml
-----				
PIMMIT RUN				
10-02	24	1	17	6
10-03	24	0	15	9
10-04	24	1	14	9
10-05	24	1	16	7
FOUR MILE RUN				
11-03	23	1	15	7
CAMERON RUN				
12-04	23	0	14	9
12-05	23	2	12	9
12-07	23	2	13	8
12-12	22	1	17	4
12-13	19	1	13	5
12-14	20	1	17	2
LITTLE HUNTING CREEK				
14-02	22	1	11	10
14-03	22	1	12	9
DOGUE CREEK				
15-06	22	4	9	9
ACCOTINK CREEK				
16-03	23	1	14	8
16-07	23	2	14	7
16-08	23	0	14	9
16-09	23	1	13	9
16-12	21	2	10	9
POHICK CREEK				
17-04	22	2	16	4
17-05	22	3	16	3
17-06	22	1	13	8
17-08	22	2	15	5
17-13	20	0	12	8

TABLE 2

## NUMBER OF FECAL COLIFORM SAMPLES

## FOR EACH SAMPLING SITE

REPORT FROM: 01/01/98 TO 12/31/98

SAMPLE STATION	TOTAL SAMPLES COLLECTED	<200 per 100 ml	200-1000 per 100 ml	>1000 per 100 ml
-----				
MILL BRANCH				
20-01	23	0	18	5
20-02	21	0	15	6
20-03	23	3	16	4
SANDY RUN				
22-03	23	1	14	8
22-04	22	2	11	9
WOLF RUN				
24-01	20	2	13	5
24-02	20	2	14	4
OLD MILL BRANCH				
25-04	19	2	12	5
POPES HEAD CREEK				
26-02	20	4	13	3
26-03	20	3	12	5
26-05	20	1	13	6
JOHNNY MOORE CREEK				
27-01	19	4	10	5
LITTLE ROCKY RUN				
28-01	22	5	12	5
28-02	20	2	14	4
CUB RUN				
29-02	23	5	12	6
29-03	22	2	13	7
29-04	23	3	16	4
29-05	15	2	6	7
29-06	23	4	12	7
29-08	23	3	16	4
BULL RUN				
30-01	23	7	10	6
LAKE ACCOTINK				
LA-01	8	1	5	2
LA-02	8	0	6	2
LA-03	7	0	4	3
LA-04	5	0	2	3

TABLE 2  
NUMBER OF FECAL COLIFORM SAMPLES  
FOR EACH SAMPLING SITE

REPORT FROM:	01/01/98	TO	12/31/98			
SAMPLE STATION	TOTAL SAMPLES COLLECTED	<200 per 100 ml	200-1000 per 100 ml	>1000 per 100 ml		
-----						
MILL BRANCH						
20-01	23	0	18	5		
20-02	21	0	15	6		
20-03	23	3	16	4		
SANDY RUN						
22-03	23	1	14	8		
22-04	22	2	11	9		
WOLF RUN						
24-01	20	2	13	5		
24-02	20	2	14	4		
OLD MILL BRANCH						
25-04	19	2	12	5		
POPES HEAD CREEK						
26-02	20	4	13	3		
26-03	20	3	12	5		
26-05	20	1	13	6		
JOHNNY MOORE CREEK						
27-01	19	4	10	5		
LITTLE ROCKY RUN						
28-01	22	5	12	5		
28-02	20	2	14	4		
CUB RUN						
29-02	23	5	12	6		
29-03	22	2	13	7		
29-04	23	3	16	4		
29-05	15	2	6	7		
29-06	23	4	12	7		
29-08	23	3	16	4		
BULL RUN						
30-01	23	7	10	6		
LAKE ACCOTINK						
LA-01	8	1	5	2		
LA-02	8	0	6	2		
LA-03	7	0	4	3		

Table 4  
Geometric Mean of Fecal Coliforms  
Per 100/ml by Supervisor Districts  
Five Year Survey From 1994 To 1998

NOTE: \*\*\* INDICATES NO SAMPLES COLLECTED FOR THE YEAR

District/ Station Number	Stream Name	Collection point	Year Collected				
			NOTE: *** INDICATES NO SAMPLES COLLECTED 1994	1995	1996	1997	1998
<b>BRADDOCK</b>							
16-07	Long Branch	Braddock Rd	835	1240	854	811	695
16-08	Accotink Ck	Braddock Rd	1302	772	969	962	1006
<b>DRANESVILLE</b>							
02-02	Folly Lick Br	Hiddenbrook	895	976	969	861	665
02-03	Sugarland Run	Rt 7	1255	1483	899	949	804
03-03	Jefferson Br	Springvale Rd	537	471	455	522	629
04-01	Mine Run Br	River Bend Rd	859	1038	648	560	478
04-02	Clarks Branch	Beach Mill Rd	707	1039	739	511	662
04-03	Pond Branch	Blackberry La	568	483	488	665	501
05-15	Capt Hickory Br	Fringe Tree Rd	1342	964	696	812	563
05-16	Difficult Run	Georgetown Pk	1804	***	***	***	***
05-19	Wolf Trap Run	Trap Rd	1408	687	914	766	795
06-02	Bull Neck Run	Georgetown Pk	777	422	946	470	487
07-01	Scott Run	Georgetown Pk	878	466	734	742	605
08-02	Dead Run	Whann St	1500	928	1617	1299	949
09-01	Turkey Run	George Wash Pk	571	500	1001	444	529
10-02	Pimmit Run	Old Dominion	1181	1318	1967	1809	741
10-03	Pimmit Run	Kirby Rd	720	794	1393	1106	826
10-04	Little Pimmit	Kirby Rd	1116	912	1027	996	835
10-05	Pimmit Run	Westmoreland	1242	1342	1834	1792	768
<b>Hunter Mill</b>							
05-09	Difficult Run	Hunter Mill Rd	755	451	387	684	821
05-11	Wolf Trap Run	Browns Mill Rd	1207	846	3968	2236	725
05-12	Difficult Run	Browns Mill Rd	1152	759	644	1269	871
05-13	Colvin Mill Run	Rt 7	984	651	615	495	733
05-18	Wolf Trap Cr	Bois Ave	1858	889	804	977	639
<b>LEE</b>							
12-14	Pikes Branch	Telegraph Rd	900	1251	1610	1059	552
16-09	Accotink Ck	Old Keen Mill	981	694	756	1337	677
<b>MASON</b>							
11-03	Long Branch	Glen Carlyn Rd	1863	1607	1476	1380	846
12-04	Tripps Run	Sleepy Hollow	1648	1649	1040	919	790
12-05	Holmes Run	Sleepy Hollow	822	1164	550	689	930
12-07	Holmes Run	Glen Hills Pk	1033	682	478	692	661
12-12	Turkey Cock	Edsall Rd	808	501	798	782	496
<b>MT VERNON</b>							
12-13	Cameron Run	Fenwick Drive	2225	958	916	950	671
14-02	Lit Hunting Ck	Richmond Hwy	950	1319	1077	1121	939

Table 4  
 Geometric Mean of Fecal Coliforms  
 Per 100/ml by Supervisor Districts  
 Five Year Survey From 1994 To 1998

NOTE: \*\*\* INDICATES NO SAMPLES COLLECTED FOR THE YEAR

District/ Station Number	Stream Name	Collection point	Year Collected				
			1994	1995	1996	1997	1998
<b>MT VERNON</b>							
14-03	Lit Hunting Ck	Richmond Hwy	2162	1502	1506	1568	877
15-06	Dogue Creek	Mt Vernon Hwy	894	509	859	977	786
16-12	Long Branch	Backlick Rd	958	1367	1936	1243	702
17-06	Pohick Creek	Pohick Rd	633	518	1101	588	702
17-08	Pohick Creek	Old Colchester	595	464	1391	854	582
20-01	Giles Run	Lorton Rd	1383	947	1577	1226	805
20-02	Giles Run	Old Colchester	584	468	1434	884	755
20-03	South Branch	Old Colchester	222	232	260	334	448
<b>PROVIDENCE</b>							
16-03	Accotink Creek	Barclay Dr	1647	1008	1267	1042	990
<b>SPRINGFIELD</b>							
17-04	Pohick Creek	Old Keene Mill	1293	600	928	917	601
17-05	South Run	Lee Chapel Rd	1010	499	479	684	484
17-13	Pohick Creek	Burke Lake Rd	499	798	853	1493	926
22-03	Sandy Run	Henderson Rd	769	636	874	861	861
22-04	Sandy Run	Cathedral For	627	381	659	744	702
24-01	Wolf Run	Clifton Rd	603	627	434	661	566
24-02	Wolf Run	Henderson Rd	451	530	445	795	602
25-04	Bull Run	Old Yates Ford	410	562	659	531	565
26-02	Popes Head Ck	Popes Head Rd	605	650	668	688	562
26-03	Piney Branch	Popes Head Rd	459	708	471	370	554
26-05	Popes Head Ck	Clifton Creek	639	535	515	840	699
27-01	Johnny Moore Ck	Compton Rd	310	524	539	831	514
28-02	Little Rocky Run	Compton Rd	473	657	580	773	631
<b>SULLY</b>							
05-01	Difficult Run	Waples Mill & Fox Mill rd	783	947	1128	555	464
05-05	Difficult Run	Vale Rd	996	430	411	993	766
28-01	Little Rocky Run	Lee Hwy	989	1043	982	1130	506
29-02	Big Rocky Run	Braddock Rd	753	694	849	754	511
29-03	Cub Run	Braddock Rd	1398	793	1424	760	626
29-04	Cub Run	Compton Rd	508	441	1490	662	484
29-05	Flatlick Branch	Lee Jackson Rd	1258	928	830	840	981
29-06	Flatlick Branch	Braddock Rd	949	828	1007	641	577
29-08	Cub Run	Braddock Rd	525	366	777	527	500
30-01	Bull Run	Lee Hwy	483	373	1020	527	419

TABLE 5

DISSOLVED OXYGEN  
mg/l

REPORT FROM: 01/01/98 TO: 12/31/98

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE DISSOLVED OXYGEN	PERCENTAGE OF SAMPLES LESS THAN 4.0 mg/l
HORSEPEN CREEK			
01-01	See note in table 1		
SUGARLAND RUN			
02-02	16	8.5	0
02-03	10	8.4	0
NICHOL RUN			
03-03	11	9.2	0
POND BRANCH			
04-01	19	8.2	0
04-02	20	7.9	0
04-03	21	8.1	4.8
DIFFICULT RUN			
05-01	23	10.0	0
05-05	17	8.8	0
05-09	16	8.9	0
05-11	17	8.8	0
05-12	17	8.7	0
05-13	16	9.4	0
05-15	21	8.5	0
05-16	See note on page T-1		
05-18	18	8.9	0
05-19	17	9.4	0
BULLNECK RUN			
06-02	24	9.8	0
SCOTTS RUN			
07-01	24	10.2	0
DEAD RUN			
08-02	24	9	0
TURKEY RUN			
09-01	12	11.3	0

TABLE 5

DISSOLVED OXYGEN  
mg/l

REPORT FROM: 01/01/98

TO: 12/31/98

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE DISSOLVED OXYGEN	PERCENTAGE OF SAMPLES LESS THAN 4.0 mg/l
PIMMIT RUN			
10-02	24	10.3	0
10-03	24	10.3	0
10-04	24	10.3	0
10-05	23	11.8	0
FOUR MILE RUN			
11-03	23	10.3	0
CAMERON RUN			
12-04	23	9.6	0
12-05	23	9.9	0
12-07	23	10.4	0
12-12	22	10.1	0
12-13	19	8.9	0
12-14	20	9.5	0
LITTLE HUNTING CREEK			
14-02	22	7.8	0
14-03	22	7.7	0
DOGUE CREEK			
15-06	22	7.7	13.6
ACCOTINK CREEK			
16-03	23	8.3	8.7
16-07	23	9.9	0
16-08	23	8.7	0
16-09	23	8.7	0
16-12	20	9.9	0
POHICK CREEK			
17-04	22	9.8	0
17-05	23	9.8	0
17-06	22	9.9	0
17-08	22	9.6	0
17-13	20	9.0	0

TABLE 5

DISSOLVED OXYGEN  
mg/l

REPORT FROM: 01/01/98

TO: 12/31/98

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE DISSOLVED OXYGEN	PERCENTAGE (SAMPLES LESS THAN 4.0 mg,
MILL BRANCH			
20-01	23	10.3	0
20-02	21	9.6	0
20-03	24	2.7	83.3
SANDY RUN			
22-03	23	9.7	0
22-04	23	10.1	0
WOLF RUN			
24-01	20	8.1	20
24-02	21	9.9	0
OLD MILL BRANCH			
25-04	19	9.6	0
POPES HEAD CREEK			
26-02	20	9.9	0
26-03	20	10.5	0
26-05	20	10.2	0
JOHNNY MOORE CREEK			
27-01	19	9.8	0
LITTLE ROCKY RUN			
28-01	21	8.0	9.5
28-02	19	10.8	0
CUB RUN			
29-02	23	9.7	0
29-03	22	9.6	0
29-04	24	9.8	0
29-05	15	8	0
29-06	23	8.5	0
29-08	23	9.0	0
BULL RUN			
30-01	23	9.0	4.3
LAKE ACCOTINK			
LA-01	8	8.9	0
LA-02	8	8.4	0
LA-03	7	8.4	0
LA-04	5	8.6	0

TABLE 6

AVERAGES FOR NITRATE NITROGEN (mg/l)  
PH VALUES AND TOTAL PHOSPHOROUS (mg/l)

REPORT FROM: 01/01/98 TO: 12/31/98

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE NITRATE NITROGEN	AVERAGE PH	AVERAGE TOTAL PHOSPHORO
HORSEPEN CREEK				
01-01	See note in table 1			
SUGARLAND RUN				
02-02	16	1.2	7.5	0.1
02-03	10	0.8	7.5	0.1
NICHOL RUN				
03-03	11	1.0	7.1	0.1
POND BRANCH				
04-01	19	0.9	7.1	0.1
04-02	20	2.0	6.9	0.1
04-03	21	1.9	7.2	0.1
DIFFICULT RUN				
05-01	23	0.8	7.2	0.1
05-05	17	1.1	7.1	0.1
05-09	16	0.9	7.0	0.1
05-11	17	1.5	7.1	0.1
05-12	17	1.0	7.0	0.1
05-13	16	1.1	7.2	0.1
05-15	21	2.0	7.2	0.1
05-16	See note on page T-1			
05-18	18	1.0	7.1	0.1
05-19	17	1.2	7.1	0.1
BULLNECK RUN				
06-02	24	2.1	7.3	0.1
SCOTTS RUN				
07-01	24	1.2	7.6	0.1
DEAD RUN				
08-02	24	2.0	7.0	0.1
TURKEY RUN				
09-01	12	1.2	7.7	0.1

TABLE 6

AVERAGES FOR NITRATE NITROGEN (mg/l)  
PH VALUES AND TOTAL PHOSPHOROUS (mg/l)

REPORT FROM: 01/01/98 TO 12/31/98

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE NITRATE NITROGEN	AVERAGE PH	AVERAGE TOTAL PHOSPHOROUS
PIMMIT RUN				
10-02	24	1.3	7.5	0.1
10-03	24	1.4	7.5	0.1
10-04	24	1.6	7.6	0.1
10-05	23	1.3	7.8	0.1
FOUR MILE RUN				
11-03	23	1.3	7.1	0.1
CAMERON RUN				
12-04	23	1.8	7.3	0.1
12-05	23	0.7	7.3	0.1
12-07	23	0.6	7.3	0.1
12-12	22	0.7	7.2	0.1
12-13	19	0.6	7.0	0.1
12-14	20	1.0	7.2	0.1
LITTLE HUNTING CREEK				
14-02	22	0.8	6.9	0.1
14-03	22	0.8	6.8	0.1
DOGUE CREEK				
15-06	22	0.3	6.9	0.1
ACCOTINK CREEK				
16-03	23	0.7	7.1	0.1
16-07	23	0.8	7.1	0.1
16-08	23	0.8	7.1	0.1
16-09	23	0.6	7.1	0.1
16-12	20	0.5	7.0	0.1
POHICK CREEK				
17-04	22	0.4	7.2	0.1
17-05	23	0.2	6.8	0.1
17-06	22	0.4	7.3	0.1
17-08	22	0.3	7.1	0.1
17-13	20	0.5	7.1	0.1

TABLE 6

AVERAGES FOR NITRATE NITROGEN (mg/l)  
PH VALUES AND TOTAL PHOSPHOROUS (mg/l)

REPORT FROM: 01/01/98 TO 12/31/98

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE NITRATE NITROGEN	AVERAGE PH	AVERAGE TOTAL PHOSPHORO
MILL BRANCH				
20-01	23	0.8	7.3	0.1
20-02	21	0.6	7.2	0.1
20-03	24	0.2	7.0	0.3
SANDY RUN				
22-03	23	0.3	7.1	0.1
22-04	23	0.2	7.1	0.1
WOLF RUN				
24-01	20	0.1	7.1	0.1
24-02	21	0.2	7.2	0.1
OLD MILL BRANCH				
25-04	19	4.7	7.6	0.1
POPES HEAD CREEK				
26-02	20	1.6	7.3	0.1
26-03	20	0.9	7.4	0.1
26-05	20	0.6	7.3	0.1
JOHNNY MOORE CREEK				
27-01	19	0.6	7.3	0.1
LITTLE ROCKY RUN				
28-01	21	0.4	7.1	0.1
28-02	19	0.4	7.9	0.1
CUB RUN				
29-02	23	0.5	7.4	0.1
29-03	22	0.5	7.5	0.1
29-04	24	0.5	7.8	0.1
29-05	15	1.0	7.3	0.1
29-06	23	0.8	7.4	0.1
29-08	23	0.4	7.5	0.1
BULL RUN				
30-01	23	0.3	7.3	0.1
LAKE ACCOTINK				
LA-01	8	0.4	7.3	0.1
LA-02	8	0.4	7.3	0.1
LA-03	7	0.5	7.2	0.1
LA-04	5	0.4	7.2	0.1

Table 7  
Geometric Mean of Nitrate Nitrogen  
by Watershed

Watershed	Five Year Survey From		To		1998
	1994	1995	1996	1997	
01-Horsepen Creek	See note in table 1				
02-Sugarland Run	0.9	1.3	1.7	1.2	0.9
03-Nichol Run	0.8	0.7	1.1	0.7	1.0
04-Pond Branch	1.3	1.3	1.2	1.4	1.5
05-Difficult Run	1.1	1.0	1.2	1.2	1.1
06-Bullneck Run	2.3	2.0	2.2	2.1	1.7
07-Scotts Run	1.4	1.0	1.4	1.3	1.1
08-Dead Run	2.3	2.0	2.5	2.1	1.6
09-Turkey Run	1.2	1.2	1.2	1.2	1.1
10-Pimmit Run	1.3	1.4	1.5	1.5	1.2
11-Four Mile Run	1.2	1.1	1.6	1.4	1.3
12-Cameron Run	0.8	0.8	0.9	0.9	0.7
14-Little Hunting Creek	0.7	0.7	1.0	0.7	0.7
15-Douge Creek	0.2	0.2	0.2	0.2	0.2
16-Accotink Creek	0.7	0.6	0.9	0.7	0.5
17-Pohick Creek	0.3	0.3	0.4	0.3	0.3
20-Mill Branch	0.4	0.6	0.4	0.5	0.3
22-Sandy Run	0.3	0.3	0.4	0.3	0.2
24-Wolf Run	0.2	0.2	0.3	0.2	0.2
25-Old Mill Branch	1.6	3.0	1.9	3.0	3.5
26-Popes Head Creek	1.0	0.8	0.9	0.9	0.8
27-Johnny Moore Creek	0.7	0.6	0.9	0.7	0.4
28-Little Rocky Run	0.5	0.4	0.6	0.5	0.3
29-Cub Run	0.6	0.6	0.8	0.6	0.4
30-Bull Run	0.2	0.2	0.4	0.3	0.2

Table 8  
Geometric Mean of pH  
by Watershed  
Five Year Survey From 1994 To 1998

Watershed	Year Collected				
	1994	1995	1996	1997	1998
01-Horsepen Creek	See note in table 1				
02-Sugarland Run	7.4	7.5	7.2	7.4	7.5
03-Nichol Run	7.2	7.3	6.9	7.2	7.1
04-Pond Branch	7.1	7.2	6.8	7.0	7.1
05-Difficult Run	7.2	7.3	7.0	7.1	7.1
06-Bullneck Run	7.3	7.3	7.1	7.2	7.3
07-Scotts Run	7.5	7.6	7.3	7.5	7.5
08-Dead Run	7.3	7.3	7.1	7.2	7.0
09-Turkey Run	7.7	7.6	7.4	7.7	7.7
10-Pimmit Run	7.5	7.6	7.3	7.5	7.6
11-Four Mile Run	7.5	7.6	7.0	7.2	7.1
12-Cameron Run	7.3	7.4	7.1	7.3	7.2
14-Little Hunting Creek	7.1	7.1	6.7	6.9	6.8
15-Douge Creek	7.0	7.0	6.8	6.8	6.9
16-Accotink Creek	7.3	7.3	7.1	7.2	7.2
17-Pohick Creek	7.1	7.2	7.0	7.1	7.1
20-Mill Branch	7.4	7.5	7.1	7.2	7.2
22-Sandy Run	7.3	7.4	7.1	7.5	7.1
24-Wolf Run	7.3	7.3	7.0	7.5	7.2
25-Old Mill Branch	7.6	7.7	7.2	7.5	7.6
26-Popes Head Creek	7.4	7.4	7.1	7.4	7.4
27-Johnny Moore Creek	7.2	7.4	7.0	7.1	7.3
28-Little Rocky Run	7.5	7.5	7.2	7.4	7.5
29-Cub Run	7.5	7.5	7.2	7.5	7.5
30-Bull Run	7.4	7.4	7.1	7.4	7.3

Table 9  
Geometric Mean of Total Phosphorous (mg/l)  
by Watershed

Watershed	Five Year Survey From		To		
	1994	1995	Year Collected		
	1994	1995	1996	1997	1998
01-Horsepen Creek	See note in table 1				
02-Sugarland Run	0.11	0.11	0.10	0.10	0.11
03-Nichol Run	0.10	0.11	0.10	0.09	0.10
04-Pond Branch	0.11	0.10	0.10	0.10	0.10
05-Difficult Run	0.11	0.10	0.10	0.10	0.10
06-Bullneck Run	0.10	0.11	0.11	0.10	0.10
07-Scotts Run	0.11	0.11	0.10	0.09	0.10
08-Dead Run	0.11	0.10	0.11	0.10	0.10
09-Turkey Run	0.10	0.11	0.11	0.09	0.10
10-Pimmit Run	0.10	0.11	0.11	0.09	0.10
11-Four Mile Run	0.11	0.10	0.10	0.10	0.10
12-Cameron Run	0.11	0.10	0.11	0.10	0.11
14-Little Hunting Ck	0.12	0.11	0.12	0.11	0.12
15-Douge Creek	0.12	0.11	0.11	0.12	0.11
16-Accotink Creek	0.11	0.11	0.10	0.10	0.10
17-Pohick Creek	0.11	0.10	0.10	0.10	0.10
20-Mill Branch	0.10	0.11	0.11	0.13	0.14
22-Sandy Run	0.11	0.10	0.10	0.09	0.10
24-Wolf Run	0.11	0.11	0.10	0.10	0.10
25-Old Mill Branch	0.11	0.11	0.11	0.10	0.12
26-Popes Head Creek	0.11	0.11	0.10	0.10	0.10
27-Johnny Moore Ck	0.11	0.11	0.11	0.10	0.11
28-Little Rocky Run	0.11	0.11	0.11	0.10	0.10
29-Cub Run	0.10	0.10	0.11	0.10	0.11
30-Bull Run	0.11	0.10	0.11	0.10	0.10

Table 10  
Stream Water Sample Temperature Ranges  
(Degrees in Fahrenheit)

		Five Year Survey From	1994	To	1998	
Temperature Averages (Geometric Mean)						
		1994	1995	1996	1997	1998
January		36	39	37	39	43
February		38	38	42	45	46
March		47	51	44	48	48
April		58	53	52	54	57
May		61	61	61	59	66
June		73	70	72	66	71
July		75	76	74	72	72
August		69	76	72	72	75
September		65	66	67	66	71
October		55	58	59	58	60
November		54	45	46	45	50
December		41	37	44	40	45
High & Low Temperature						
		1994	1995	1996	1997	1998
January	High	59	56	60	60	59
	Low	31	32	30	30	34
February	High	60	55	63	62	60
	Low	33	31	32	32	38
March	High	68	62	58	61	72
	Low	37	37	32	32	34
April	High	68	66	68	68	66
	Low	47	41	39	42	49
May	High	76	72	86	74	80
	Low	52	44	50	50	55
June	High	87	88	88	82	81
	Low	60	62	60	56	59
July	High	90	86	90	82	84
	Low	64	67	66	66	64
August	High	80	88	78	80	84
	Low	60	65	67	65	65
September	High	78	82	83	75	83
	Low	59	56	54	58	61
October	High	66	72	68	80	67
	Low	50	50	48	44	51
November	High	85	59	65	60	62
	Low	42	38	38	38	42
December	High	52	50	60	55	60
	Low	36	27	38	35	32

Table 11  
 Lake Accotink Park  
 Results  
 (All averages are Geometric Mean)

Percentage of Fecal Coliforms in the Good Range  
 (Less than 200 Fecal Coliform/ 100 ml)

Station	1994	1995	1996	1997	1998
LA-01	0	20	33	25	13
LA-02	0	20	33	13	0
LA-03	0	40	17	13	0
LA-04	0	20	17	13	0

Average Dissolved Oxygen (mg/l) By Station

Station	1994	1995	1996	1997	1998
LA-01	9.1	7.5	6.8	7.3	8.8
LA-02	9.0	7.7	7.3	7.1	8.2
LA-03	8.8	7.5	6.1	7.4	8.2
LA-04	8.8	7.5	6.1	7.4	8.2

Percent of Samples Less than 4 mg/l of Dissolved Oxygen

Station	1994	1995	1996	1997	1998
LA-01	0	0	0	0	0
LA-02	0	0	0	0	0
LA-03	0	0	0	0	0
LA-04	0	0	0	0	0

Average Nitrate Nitrogen (mg/l)

Station	1994	1995	1996	1997	1998
LA-01	0.49	0.27	0.54	0.25	0.34
LA-02	0.49	0.28	0.67	0.32	0.34
LA-03	0.49	0.21	0.70	0.27	0.38
LA-04	0.46	0.31	0.68	0.25	0.37

Average pH

Station	1994	1995	1996	1997	1998
LA-01	7.5	7.4	7.0	7.0	7.2
LA-02	7.5	7.4	7.0	7.0	7.3
LA-03	7.4	7.4	6.9	7.1	7.2
LA-04	7.4	7.5	7.0	7.1	7.2

Average Total Phosphorous (mg/l)

Station	1994	1995	1996	1997	1998
LA-01	0.10	0.10	0.11	0.10	0.12
LA-02	0.10	0.11	0.11	0.10	0.11
LA-03	0.11	0.10	0.10	0.10	0.11
LA-04	0.11	0.11	0.10	0.09	0.12

TABLE 12

CITY OF FAIRFAX STREAM SAMPLE RESULTS  
FOR EACH SAMPLING STATION

REPORT FROM 01/01/98 TO: 12/31/98

SAMPLE STATION	NUMBER OF FECAL COLIFORM SAMPLES			
	TOTAL SAMPLES COLLECTED	<200 per 100 ml	200-1000 per 100 ml	>1000 per 100 ml

ACCOTINK CREEK

16-20	21	3	6	12
16-21	22	2	10	10
16-22	22	3	9	10
16-23	22	2	8	12
16-24	19	1	10	8
16-25	22	1	14	7
16-26	22	0	13	9
16-27	22	1	13	8

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE DISSOLVED OXYGEN	PERCENTAGE OF SAMPLES LESS THAN 4 mg/l
----------------	-------------------------	--------------------------	--

16-20	21	7.2	23.8
16-21	22	9.8	0
16-22	22	10.7	0
16-23	22	9.1	0
16-24	18	9.7	0
16-25	22	9.4	0
16-26	20	9.8	0
16-27	22	9.3	0

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE NITRATE NITROGEN	AVERAGE pH	AVERAGE TOTAL PHOSPHOROUS
----------------	-------------------------	--------------------------	------------	---------------------------

16-20	21	0.7	7.3	0.1
16-21	22	0.8	7.5	0.1
16-22	22	1.1	7.4	0.1
16-23	22	1.0	7.2	0.1
16-24	18	0.8	7.2	0.1
16-25	22	1.0	7.4	0.1
16-26	20	0.6	7.1	0.1
16-27	22	0.3	7.2	0.1

Table 13  
Log Average of Heavy Metals by Watershed  
From 1989 TO 1998

A Total of 653 Records Averaged

NOTE: PMCL=Primary Maximum Contaminate Level

WATERSHED:	
METAL (PMCL)	RESULTS (mg/l)
<b>01- HORSEPEN CREEK:</b>	
Arsenic (0.05 mg/l)	0.002
Barium (1.00 mg/l)	0.066
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
<b>02- SUGARLAND RUN:</b>	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.046
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
<b>03- NICHOL RUN:</b>	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.015
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.002
<b>04- POND BRANCH:</b>	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.020
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002

Table 13  
Log Average of Heavy Metals by Watershed  
From 1989 TO 1998

A Total of 653 Records Averaged  
NOTE: PMCL=Primary Maximum Contaminate Level

=====	
WATERSHED:	
METAL (PMCL)	RESULTS (mg/l)
<b>05- DIFFICULT RUN:</b>	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.021
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
<b>06- BULLNECK RUN:</b>	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.014
Cadmium (0.01 mg/l)	Below Detection Limits
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.001
Silver (0.05 mg/l)	Below Detection Limits
<b>07- SCOTTS RUN:</b>	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.018
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.002
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.001
Silver (0.05 mg/l)	0.001
<b>08- DEAD RUN:</b>	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.017
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.002
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001

Table 13  
Log Average of Heavy Metals by Watershed  
From 1989 TO 1998

A Total of 653 Records Averaged  
NOTE: PMCL=Primary Maximum Contaminate Level

WATERSHED:		RESULTS (mg/l)
METAL (PMCL)		
<b>09- TURKEY RUN:</b>		
Arsenic (0.05 mg/l)		0.001
Barium (1.00 mg/l)		0.021
Cadmium (0.01 mg/l)		0.001
Chromium (0.05 mg/l)		0.001
Lead (0.05 mg/l)		0.001
Mercury (0.02 mg/l)		Below Detection Limits
Selenium (0.01 mg/l)		0.002
Silver (0.05 mg/l)		0.001
<b>10- PIMMIT RUN:</b>		
Arsenic (0.05 mg/l)		0.001
Barium (1.00 mg/l)		0.023
Cadmium (0.01 mg/l)		0.001
Chromium (0.05 mg/l)		0.001
Lead (0.05 mg/l)		0.001
Mercury (0.02 mg/l)		Below Detection Limits
Selenium (0.01 mg/l)		0.002
Silver (0.05 mg/l)		0.001
<b>11- FOUR MILE RUN:</b>		
Arsenic (0.05 mg/l)		Below Detection Limits
Barium (1.00 mg/l)		0.020
Cadmium (0.01 mg/l)		0.001
Chromium (0.05 mg/l)		0.001
Lead (0.05 mg/l)		0.002
Mercury (0.02 mg/l)		Below Detection Limits
Selenium (0.01 mg/l)		0.002
Silver (0.05 mg/l)		0.001
<b>12- CAMERON RUN:</b>		
Arsenic (0.05 mg/l)		0.001
Barium (1.00 mg/l)		0.035
Cadmium (0.01 mg/l)		0.001
Chromium (0.05 mg/l)		0.001
Lead (0.05 mg/l)		0.002
Mercury (0.02 mg/l)		Below Detection Limits
Selenium (0.01 mg/l)		0.002
Silver (0.05 mg/l)		0.001

Table 13  
Log Average of Heavy Metals by Watershed

From 1989 TO 1998

A Total of 653 Records Averaged  
NOTE: PMCL=Primary Maximum Contaminate Level

=====

WATERSHED:

METAL (PMCL)	RESULTS (mg/l)
09- TURKEY RUN:	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.021
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
10- PIMMIT RUN:	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.023
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
11- FOUR MILE RUN:	
Arsenic (0.05 mg/l)	Below Detection Limits
Barium (1.00 mg/l)	0.020
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.002
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
12- CAMERON RUN:	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.035
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.002
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001

Table 13  
Log Average of Heavy Metals by Watershed

From 1989 TO 1998

A Total of 653 Records Averaged  
NOTE: PMCL=Primary Maximum Contaminate Level

=====

WATERSHED:

METAL (PMCL)	RESULTS (mg/l)
<b>20- MILL BRANCH:</b>	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.043
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.003
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
<b>22- SANDY RUN:</b>	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.029
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
<b>24- WOLF RUN:</b>	
Arsenic (0.05 mg/l)	Below Detection Limits
Barium (1.00 mg/l)	0.018
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
<b>25- OLD MILL:</b>	
Arsenic (0.05 mg/l)	0.002
Barium (1.00 mg/l)	0.036
Cadmium (0.01 mg/l)	Below Detection Limits
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.002
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.001
Silver (0.05 mg/l)	Below Detection Limits

Table 13  
Log Average of Heavy Metals by Watershed

From 1989 TO 1998

A Total of 653 Records Averaged  
NOTE: PMCL=Primary Maximum Contaminate Level

=====

WATERSHED:

METAL (PMCL)	RESULTS (mg/l)
<b>26- POPES HEAD:</b>	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.019
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
<b>27- JOHNNY MOORE RUN:</b>	
Arsenic (0.05 mg/l)	Below Detection Limits
Barium (1.00 mg/l)	0.017
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
<b>28- LITTLE ROCKY RUN:</b>	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.033
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.002
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
<b>29- CUB RUN:</b>	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.046
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.002
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001

Table 13  
 Log Average of Heavy Metals by Watershed

From 1989 TO 1998

A Total of 653 Records Averaged  
 NOTE: PMCL=Primary Maximum Contaminate Level

=====

WATERSHED:

METAL (PMCL)	RESULTS (mg/l)
30- BULL RUN:	
Arsenic (0.05 mg/l)	0.001
Barium (1.00 mg/l)	0.027
Cadmium (0.01 mg/l)	0.001
Chromium (0.05 mg/l)	0.001
Lead (0.05 mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001