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WASTEWATER ENGINEERING AND MANAGEMENT PLAN FOR BOSTON HARBOR - --ETC(U)
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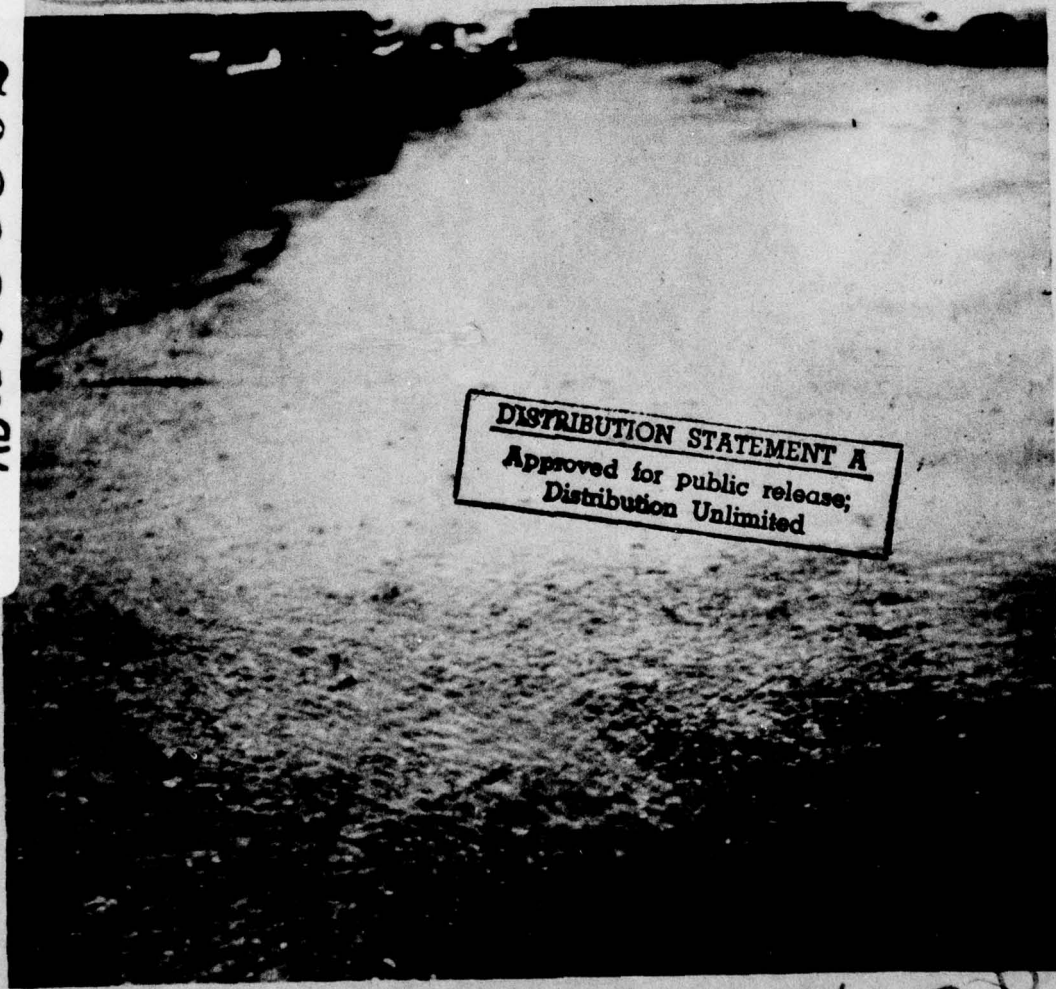
FOR

BOSTON HARBOR - EASTERN MASSACHUSETTS METROPOLITAN AREA EMMA STUDY.

TECHNICAL DATA ~~XXXXXXXXXX~~ ^{Volume} 8A.

APPENDIX TO URBAN STORMWATER MANAGEMENT.

ADA 036802



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EMMA STUDY APPENDIX TO URBAN STORMWATER MANAGEMENT VOL. 8A

410 0910

11 OCTOBER 1975

RECEIVED
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C. G. J.

12 257p.

WASTEWATER ENGINEERING
AND MANAGEMENT PLAN
FOR
Boston Harbor - Eastern Massachusetts Metropolitan Area
EMMA STUDY

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PREFACE

→ **CONTENTS:** The Stormwater Management Summary data presented in this appendix is arranged in alphabetical order both by river basin or drainage area, and by community within each area. All data pertains to the design year 2000.

→ **Urban Drainage Area** denotes the total urban area of the community that is to be utilized for residential, commercial, and industrial purposes by the year 2000. It also includes open urban land.

→ **Total Storm Runoff Volume** is the total volume of stormwater runoff at the point of treatment in million gallons.

→ **Total Stormwater Pollutants** are the total pounds of pollutants transported by the storm runoff before treatment. Data is presented for Settleable Solids, Suspended Solids, and 5-day Biochemical Oxygen Demand (BOD).

→ **and Stormwater Treatment** provides information regarding the type of treatment to be employed, the volume of stormwater to be treated in million gallons, and the percent of stormwater that receives treatment in relation to the total stormwater runoff volume. Treatment is indicated as follows:

NT = No treatment is employed

SP = Stormwater is to be stored and pumped to existing waste treatment facilities.

SMD = Stormwater is to be stored and subsequently treated by microstraining and disinfection.

MD = Stormwater is to be treated by high rate microstraining and disinfection.

Pollutant Removals indicates the pounds of Settleable Solids, Suspended Solids, and BOD that are removed by the treatment indicated.

Pollutants Discharged indicates the pounds of Settleable Solids, Suspended Solids, and BOD not removed by treatment which will be discharged to the receiving body.

Average Pollutant Concentrations Before Treatment indicates the average concentrations of Settleable Solids, Suspended Solids and BOD that would be present in the Stormwater Runoff if the pollutants were uniformly concentrated throughout the entire Stormwater Runoff volume.

Average Pollutant Concentrations After Treatment indicates the average concentrations of Settleable Solids, Suspended Solids, and BOD that would be present in the entire Stormwater Runoff Volume after treatment.

Total Capital Cost is the total cost of installing treatment facilities excluding land costs.

Annual O & M Cost is the annual cost of operating and maintaining the treatment facility.

Suspended Solids + BOD₅ Before Treatment is the sum of the two pollutants in pounds before treatment. The pounds of pollutants removed likewise refers to the sum of the two parameters. Percent removed indicates removal on a combined basis.

Capital Cost/% Removal gives a measure of the efficiency of capital spending in achieving a unit of treatment efficiency.

Treatment Cost (¢/1000 gal) represents the capitalized treatment cost for each 1000 gallons of stormwater treated.

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STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN ACTON

URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	6674		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	254.3		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	3477		
SUSP. SOLIDS, LBS.	40832		
BOD ₅	6000		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		174.3	174.3
% TREATED		68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		3303.2	3303.2
SUSP. SOLIDS, LBS.		36748.8	26540.8
BOD ₅ , LBS.		5100	2400
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		173.8	173.8
SUSP. SOLIDS, LBS.		4083.2	14291.2
BOD ₅ , LBS.		900	3600
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.6	1.6
SUSP. SOLIDS mg/l		19.2	19.2
BOD ₅ mg/l		2.8	2.8
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.08	0.08
SUSP. SOLIDS mg/l		1.9	6.7
BOD ₅ mg/l		0.4	1.7
TOTAL CAPITAL COST (\$)			
	3,250,000		6,000,000
ANNUAL O&M COST (\$)			
	130,000		410,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.			
	46832		46832
REMOVED, LBS.			
	41848.8		28940.8
% REMOVED			
	89.4		61.8
CAPITAL COSTS/% REMOVAL (\$)			
	36,400		97,100
TREATMENT COST (¢/1000 gals)			
	8.3		19.8

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	BERLIN	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1610	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	45.5	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	390	
SUSP. SOLIDS, LBS.	4645	
BOD ₅	683	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	31.2	31.2
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	370.6	370.6
SUSP. SOLIDS, LBS.	4180.5	3019.2
BOD ₅ , LBS.	580.5	273.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	19.4	19.4
SUSP. SOLIDS, LBS.	464.5	1625.8
BOD ₅ , LBS.	102.5	409.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.0	1.0
SUSP. SOLIDS mg/l	12.2	12.2
BOD ₅ mg/l	1.8	1.8
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.05	0.05
SUSP. SOLIDS mg/l	1.2	4.3
BOD ₅ mg/l	0.3	1.1
TOTAL CAPITAL COST (\$)	850,000	2,250,000
ANNUAL O&M COST (\$)	23,000	80,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	5328	5328
REMOVED, LBS.	4761	3292.4
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	9,500	36,400
TREATMENT COST (¢/1000 gals)	11.0	30.0

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	BOLTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1341	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	41.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	597	
SUSP. SOLIDS, LBS.	7140	
BOD ₅	1051	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	28.1	28.1
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	567.2	567.2
SUSP. SOLIDS, LBS.	6426	4641
BOD ₅ , LBS.	893.4	420.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	29.8	29.8
SUSP. SOLIDS, LBS.	714	2499
BOD ₅ , LBS.	157.6	630.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	20.9	20.9
BOD ₅ mg/l	3.1	3.1
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.1	7.3
BOD ₅ mg/l	0.5	1.8
TOTAL CAPITAL COST (\$)	760,000	2,150,000
ANNUAL O&M COST (\$)	21,000	70,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	8191	8191
REMOVED, LBS.	7319.4	5061.4
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	8,500	34,800
TREATMENT COST (¢/1000 gals)	11.3	31.5

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	BOXBOROUGH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	696	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	19.3	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	202	
SUSP. SOLIDS, LBS.	2407	
BOD ₅	354	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	13.3	13.3
% TREATED	68.9	68.9
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	191.9	191.9
SUSP. SOLIDS, LBS.	2166.3	1564.5
BOD ₅ , LBS.	300.9	141.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	10.1	10.1
SUSP. SOLIDS, LBS.	240.7	842.5
BOD ₅ , LBS.	53.1	212.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.3	1.3
SUSP. SOLIDS mg/l	15.0	15.0
BOD ₅ mg/l	2.2	2.2
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.5	5.2
BOD ₅ mg/l	0.3	1.3
TOTAL CAPITAL COST (\$)	480,000	1,500,000
ANNUAL O&M COST (\$)	10,000	35,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	2761	2761
REMOVED, LBS.	2467.2	1706.1
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	5,400	24,300
TREATMENT COST (¢/1000 gals)	13.6	44.6

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN BOYLSTON

URBAN DRAINAGE AGEA			
YEAR	2000		
ACRES	291		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	6.4		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	48		
SUSP. SOLIDS, LBS.	574		
BOD ₅	84		
STORMWATER TREATMENT			
TREAT. DESCRIP.		NT	SP
VOLUME TREAT., MG		-	4.4
% TREATED		-	68.8
SMD			4.4
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	-		45.6
SUSP. SOLIDS, LBS.	-		516.6
BOD ₅ , LBS.	-		71.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	48		2.4
SUSP. SOLIDS, LBS.	574		57.4
BOD ₅ , LBS.	84		12.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	0.9		0.9
SUSP. SOLIDS mg/l	10.8		10.8
BOD ₅ mg/l	1.6		1.6
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.9		0.04
SUSP. SOLIDS mg/l	10.8		1.1
BOD ₅ mg/l	1.6		0.2
TOTAL CAPITAL COST (\$)	-		200,000
ANNUAL O&M COST (\$)	-		5,000
SMD			900,000
SMD			10,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	658		658
REMOVED, LBS.	-		588.0
% REMOVED	-		89.4
SMD			406.7
SMD			61.8
CAPITAL COSTS/% REMOVAL (\$)	-		2,200
SMD			14,600
TREATMENT COST (¢/1000 gals)	-		16.5
SMD			71.0

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN CARLISLE

URBAN DRAINAGE AREA

YEAR	2000
ACRES	1309

TOTAL STORM RUNOFF VOL.

MIL. GAL.	34.1
-----------	------

TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	252
SUSP. SOLIDS, LBS.	3028
BOD ₅	445

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	23.3	23.3
% TREATED	68.3	68.3

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	239.4	239.4
SUSP. SOLIDS, LBS.	2725.2	1968.2
BOD ₅ , LBS.	378.2	178

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	12.6	12.6
SUSP. SOLIDS, LBS.	302.8	1059.8
BOD ₅ , LBS.	66.8	267

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	0.9	0.9
SUSP. SOLIDS mg/l	10.6	10.6
BOD ₅ mg/l	1.6	1.6
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.04	0.04
SUSP. SOLIDS mg/l	1.1	3.7
BOD ₅ mg/l	0.2	0.9

TOTAL CAPITAL COST (\$)

700,000	1,950,000
---------	-----------

ANNUAL O&M COST (\$)

18,000	55,000
--------	--------

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	3473	3473
REMOVED, LBS.	3103.4	2146.2
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)

7,800	31,600
-------	--------

TREATMENT COST (¢/1000 gals)

11.9	34.0
------	------

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	CLINTON		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	225		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	5.5		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	40		
SUSP. SOLIDS, LBS.	487		
BOD ₅	72		
STORMWATER TREATMENT			
TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	3.7	3.7
% TREATED	-	67.3	67.3
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	-	38	38
SUSP. SOLIDS, LBS.	-	438.3	316.6
BOD ₅ , LBS.	-	61.2	28.8
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	40	2	2
SUSP. SOLIDS, LBS.	487	48.7	170.4
BOD ₅ , LBS.	72	10.8	43.2
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	0.9	0.9	0.9
SUSP. SOLIDS mg/l	10.6	10.6	10.6
BOD ₅ mg/l	1.6	1.6	1.6
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.9	0.04	0.04
SUSP. SOLIDS mg/l	10.6	1.1	3.7
BOD ₅ mg/l	1.6	0.2	0.9
TOTAL CAPITAL COST (\$)	-	190,000	800,000
ANNUAL O&M COST (\$)	-	4,000	10,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	559	559	559
REMOVED, LBS.	-	499.5	345.4
% REMOVED	-	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	-	2,100	12,900
TREATMENT COST (¢/1000 gals)	-	20.4	76.0

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN CONCORD

URBAN DRAINAGE AREA

YEAR	2000
ACRES	1658

TOTAL STORM RUNOFF VOL.	
MIL. GAL.	52.4

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	781
SUSP. SOLIDS, LBS.	9320
BOD ₅	1371

STORMWATER TREATMENT

TREAT. DESCIP.	SP	SMD
VOLUME TREAT., MG	35.9	35.9
% TREATED	68.5	68.5

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	742	742
SUSP. SOLIDS, LBS.	8388	6058
BOD ₅ , LBS.	1165.4	548.4

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	39	39
SUSP. SOLIDS, LBS.	932	3262
BOD ₅ , LBS.	205.6	822.6

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.8	1.8
SUSP. SOLIDS mg/l	21.3	21.3
BOD ₅ mg/l	3.1	3.1
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.1	7.5
BOD ₅ mg/l	0.5	1.9

TOTAL CAPITAL COST (\$)	925,000	2,350,000
ANNUAL O&M COST (\$)	26,000	85,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	10691	10691
REMOVED, LBS.	9553.4	6606.4
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	10,300	38,000
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TREATMENT COST (¢/1000 gals)	10.8	29.0
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STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN GRAFTON

URBAN DRAINAGE AREA

YEAR	2000
ACRES	178

TOTAL STORM RUNOFF VOL.	
MIL. GAL.	5.5

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	57
SUSP. SOLIDS, LBS.	681
BOD ₅	100

STORMWATER TREATMENT

TREAT. DESCRIP.	NT	SP
VOLUME TREAT., MG	-	3.8
% TREATED	-	69.1

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	-	54.2
SUSP. SOLIDS, LBS.	-	612.9
BOD ₅ , LBS.	-	85

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	51	2.8
SUSP. SOLIDS, LBS.	681	68.1
BOD ₅ , LBS.	100	15

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.2	1.2
SUSP. SOLIDS mg/l	14.8	14.8
BOD ₅ mg/l	2.2	2.2
AFTER TREATMENT		
SETT. SOLIDS mg/l	1.2	0.06
SUSP. SOLIDS mg/l	14.8	1.5
BOD ₅ mg/l	2.2	0.3

TOTAL CAPITAL COST (\$)	-	190,000
ANNUAL O&M COST (\$)	-	4,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	781	781
REMOVED, LBS.	-	697.9
% REMOVED	-	89.4

CAPITAL COSTS/% REMOVAL (\$)	-	2100
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TREATMENT COST (¢/1000 gals)	-	20.4
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STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	HARVARD		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	218		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	4.3		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	36		
SUSP. SOLIDS, LBS.	430		
BOD ₅	63		
STORMWATER TREATMENT			
TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	3.3	3.3
% TREATED	-	76.7	76.7
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	-	34.2	34.2
SUSP. SOLIDS, LBS.	-	387	279.5
BOD ₅ , LBS.	-	53.6	25.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	36	1.8	1.8
SUSP. SOLIDS, LBS.	430	43	150.5
BOD ₅ , LBS.	63	9.4	37.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.0	1.0	1.0
SUSP. SOLIDS mg/l	12.0	12.0	12.0
BOD ₅ mg/l	1.8	1.8	1.8
AFTER TREATMENT			
SETT. SOLIDS mg/l	1.0	0.05	0.05
SUSP. SOLIDS mg/l	12.0	1.2	4.2
BOD ₅ mg/l	1.8	0.3	1.1
TOTAL CAPITAL COST (\$)	-	190,000	750,000
ANNUAL O&M COST (\$)	-	4,000	9,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	493	493	493
REMOVED, LBS.	-	440.6	304.7
% REMOVED	-	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	-	2,100	12,100
TREATMENT COST (¢/1000 gals)	-	22.2	79.5

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	HUDSON		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	2970		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	87.8		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	1074		
SUSP. SOLIDS, LBS.	12788		
BOD ₅	1880		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		60.2	60.2
% TREATED		68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		1020.3	1020.3
SUSP. SOLIDS, LBS.		11509.2	8312.2
BOD ₅ , LBS.		1598	752
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		53.7	53.7
SUSP. SOLIDS, LBS.		1278.8	4475.8
BOD ₅ , LBS.		282	1128
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.5	1.5
SUSP. SOLIDS mg/l		17.5	17.5
BOD ₅ mg/l		2.6	2.6
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.07	0.07
SUSP. SOLIDS mg/l		1.7	6.1
BOD ₅ mg/l		0.4	1.5
TOTAL CAPITAL COST (\$)	1,350,000		3,125,000
ANNUAL O&M COST (\$)	45,000		140,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	14668		14668
REMOVED, LBS.	13107.2		9064.2
% REMOVED	89.4		61.8
CAPITAL COSTS/% REMOVAL (\$)	15,100		50,600
TREATMENT COST (¢/1000 gals)	9.6	25.0	76.0

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	LITTLETON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1234	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	35.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	287	
SUSP. SOLIDS, LBS.	3412	
BOD ₅	502	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	24.0	24.0
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	272.6	272.6
SUSP. SOLIDS, LBS.	3070.8	2217.8
BOD ₅ , LBS.	426.7	200.8
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	14.4	14.4
SUSP. SOLIDS, LBS.	341.2	1194.2
BOD ₅ , LBS.	75.3	301.2
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.0	1.0
SUSP. SOLIDS mg/l	11.7	11.7
BOD ₅ mg/l	1.7	1.7
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.05	0.05
SUSP. SOLIDS mg/l	1.2	4.1
BOD ₅ mg/l	0.3	1.0
TOTAL CAPITAL COST (\$)	700,000	1,950,000
ANNUAL O&M COST (\$)	18,000	55,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	3914	3914
REMOVED, LBS.	3497.5	2418.6
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	7,800	31,600
TREATMENT COST (¢/1000 gals)	11.8	33.8

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	MARLBOROUGH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1575	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	52.6	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1081	
SUSP. SOLIDS, LBS.	12821	
BOD ₅	1885	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	36.1	36.1
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1027	1027
SUSP. SOLIDS, LBS.	11538.9	8333.6
BOD ₅ , LBS.	1602.2	754
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	54	54
SUSP. SOLIDS, LBS.	1282.1	4487.4
BOD ₅ , LBS.	282.8	1131
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	2.5	2.5
SUSP. SOLIDS mg/l	29.2	29.2
BOD ₅ mg/l	4.3	4.3
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.9	10.2
BOD ₅ mg/l	0.6	2.6
TOTAL CAPITAL COST (\$)	925,000	2,350,000
ANNUAL O&M COST (\$)	26,000	85,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	14706	14706
REMOVED, LBS.	13141.1	9087.6
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	10,300	38,000
TREATMENT COST (¢/1000 gals)	10.8	33.9

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN MAYNARD

URBAN DRAINAGE AREA

YEAR	2000
ACRES	1302

TOTAL STORM RUNOFF VOL.

MIL. GAL.	42.7
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TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	630
SUSP. SOLIDS, LBS.	7483
BOD ₅	1100

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	29.2	29.2
% TREATED	68.4	68.4

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	598.5	598.5
SUSP. SOLIDS, LBS.	6734.7	4864
BOD ₅ , LBS.	935	440

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	31.5	31.5
SUSP. SOLIDS, LBS.	748.3	2619
BOD ₅ , LBS.	165	660

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.8	1.8
SUSP. SOLIDS mg/l	21.0	21.0
BOD ₅ mg/l	3.1	3.1
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.1	7.4
BOD ₅ mg/l	0.5	1.9

TOTAL CAPITAL COST (\$)

800,000	2,200,000
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ANNUAL O&M COST (\$)

22,000	75,000
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SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	8583	8583
REMOVED, LBS.	7669.7	5304
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)

9,000	35,600
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TREATMENT COST (¢/1000 gals)

11.2	31.2
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STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	NORTHBOROUGH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2606	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	83.6	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1324	
SUSP. SOLIDS, LBS.	15762	
BOD ₅	2318	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	57.3	57.3
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1257.8	1257.8
SUSP. SOLIDS, LBS.	14185.8	10245.3
BOD ₅ , LBS.	1970.3	927.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	66.2	66.2
SUSP. SOLIDS, LBS.	1576.2	5516.7
BOD ₅ , LBS.	347.7	1390.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.9	1.9
SUSP. SOLIDS mg/l	22.6	22.6
BOD ₅ mg/l	3.3	3.3
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.3	7.9
BOD ₅ mg/l	0.5	2.0
TOTAL CAPITAL COST (\$)	1,200,000	3,050,000
ANNUAL O&M COST (\$)	43,000	135,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	18080	18080
REMOVED, LBS.	16156.1	11172.5
% REMOVED	89.4	61.6
CAPITAL COSTS/% REMOVAL (\$)	13,400	49,400
TREATMENT COST (¢/1000 gals)	9.7	25.2

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	SHREWSBURY	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1764	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	50.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	643	
SUSP. SOLIDS, LBS.	7694	
BOD ₅	1131	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	34.9	34.9
% TREATED	68.7	68.7
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	610.8	610.8
SUSP. SOLIDS, LBS.	6924.6	5001.1
BOD ₅ , LBS.	961.4	452.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	32.2	32.2
SUSP. SOLIDS, LBS.	769.4	2692.9
BOD ₅ , LBS.	169.6	678.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.5	1.5
SUSP. SOLIDS mg/l	18.2	18.2
BOD ₅ mg/l	2.7	2.7
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	1.8	6.4
BOD ₅ mg/l	0.4	1.6
TOTAL CAPITAL COST (\$)	925,000	2,350,000
ANNUAL O&M COST (\$)	26,000	85,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	8825	8825
REMOVED, LBS.	7886	5453.5
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	10,300	38,000
TREATMENT COST (¢/1000 gals)	10.8	29.0

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	STOW		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	1816		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	49.0		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	403		
SUSP. SOLIDS, LBS.	4818		
BOD ₅	708		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		33.6	33.6
% TREATED		68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		382.8	382.8
SUSP. SOLIDS, LBS.		4336.2	3131.7
BOD ₅ , LBS.		601.8	283.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		20.2	20.2
SUSP. SOLIDS, LBS.		481.8	1686.3
BOD ₅ , LBS.		106.2	424.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.0	1.0
SUSP. SOLIDS mg/l		11.8	11.8
BOD ₅ mg/l		1.7	1.7
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.05	0.05
SUSP. SOLIDS mg/l		1.2	4.1
BOD ₅ mg/l		0.3	1.0
TOTAL CAPITAL COST (\$)			
		875,000	25,000
ANNUAL O&M COST (\$)			
		2,250,000	80,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		5526	5526
REMOVED, LBS.		4938	3414.9
% REMOVED		89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)			
		9,800	36,400
TREATMENT COST (¢/1000 gals)			
		10.8	29.2

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	SUDBURY		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	415		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	10.8		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	77		
SUSP. SOLIDS, LBS.	922		
BOD ₅	136		
STORMWATER TREATMENT			
TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	7.4	7.4
% TREATED	-	68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	-	73.2	69.3
SUSP. SOLIDS, LBS.	-	829.8	599.3
BOD ₅ , LBS.	-	115.6	54.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	77	3.8	7.7
SUSP. SOLIDS, LBS.	922	92.2	322.7
BOD ₅ , LBS.	136	20.4	81.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	0.9	0.9	0.9
SUSP. SOLIDS mg/l	10.3	10.3	10.3
BOD ₅ mg/l	1.5	1.5	1.5
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.9	0.04	0.1
SUSP. SOLIDS mg/l	10.3	1.0	3.6
BOD ₅ mg/l	1.5	0.2	0.9
TOTAL CAPITAL COST (\$)	-	260,000	1,100,000
ANNUAL O&M COST (\$)	-	5,000	15,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	1058	1058	1058
REMOVED, LBS.	-	945.4	653.7
% REMOVED	-	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	-	2,900	17,800
	-	15.0	53.3
TREATMENT COST (¢/1000 gals)			

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	WESTBOROUGH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1249	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	49.4	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	839	
SUSP. SOLIDS, LBS.	9901	
BOD ₅	1456	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	33.8	33.8
% TREATED	68.4	68.4
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	797	797
SUSP. SOLIDS, LBS.	8910.9	6435.6
BOD ₅ , LBS.	1237.6	582.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	42	42
SUSP. SOLIDS, LBS.	990.1	3465.4
BOD ₅ , LBS.	218.4	873.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	2.0	2.0
SUSP. SOLIDS mg/l	24.0	24.0
BOD ₅ mg/l	3.5	3.5
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.4	8.4
BOD ₅ mg/l	0.5	2.1
TOTAL CAPITAL COST (\$)	875,000	2,250,000
ANNUAL O&M COST (\$)	25,000	80,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	11357	11357
REMOVED, LBS.	10148.5	7018
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	9,800	36,400
TREATMENT COST (¢/1000 gals)	10.8	29.2

STORMWATER MANAGEMENT SUMMARY

ASSABET RIVER BASIN

TOWN	WESTFORD		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	413		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	9.8		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	115		
SUSP. SOLIDS, LBS.	1383		
BOD ₅	203		
STORMWATER TREATMENT			
TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	6.7	6.7
% TREATED	-	68.4	68.4
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	-	109.2	109.2
SUSP. SOLIDS, LBS.	-	1244.7	899
BOD ₅ , LBS.	-	172.5	81.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	115	5.8	5.8
SUSP. SOLIDS, LBS.	1383	13803	484
BOD ₅ , LBS.	203	30.5	121.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.4	1.4	1.4
SUSP. SOLIDS mg/l	16.9	16.9	16.9
BOD ₅ mg/l	2.5	2.5	2.5
AFTER TREATMENT			
SETT. SOLIDS mg/l	1.4	0.07	0.07
SUSP. SOLIDS mg/l	16.9	1.7	5.9
BOD ₅ mg/l	2.5	0.4	1.5
TOTAL CAPITAL COST (\$)	-	250,000	1,050,000
ANNUAL O&M COST (\$)	-	5,000	14,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	1586	1586	1586
REMOVED, LBS.	-	1417.2	980.2
% REMOVED	-	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	-	2,800	17,000
TREATMENT COST (¢/1000 gals)	-	15.2	55.7

STORMWATER MANAGEMENT SUMMARY

BEVERLY HARBOR

TOWN	BEVERLY		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	3669		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	120.2		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	1707		
SUSP. SOLIDS, LBS.	20297		
BOD ₅	2984		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	82.4	82.4	82.4
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	1621.6	1621.6	1536.3
SUSP. SOLIDS, LBS.	18267.3	13193	9133.6
BOD ₅ , LBS.	2536.4	1193.6	596.8
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	85.4	85.4	170.7
SUSP. SOLIDS, LBS.	2029.7	7104	11163.4
BOD ₅ , LBS.	447.6	1790.4	2387.2
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.7	1.7	1.7
SUSP. SOLIDS mg/l	20.2	20.2	20.2
BOD ₅ mg/l	3.0	3.0	3.0
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.8	0.8	0.2
SUSP. SOLIDS mg/l	2.0	7.1	11.1
BOD ₅ mg/l	0.4	1.8	2.4
TOTAL CAPITAL COST (\$)	1,745,000	3,750,000	12,000,000
ANNUAL O&M COST (\$)	62,000	195,000	600,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	23,281	23,281	23,281
REMOVED, LBS.	20,803.7	14386.6	9730.4
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	19,500	60,700	287,000
TREATMENT COST (¢/1000 gals)	9.0	23.1	73.8

STORMWATER MANAGEMENT SUMMARY

BEVERLY HARBOR

TOWN	DANVERS		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	4323		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	142.6		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	2329		
SUSP. SOLIDS, LBS.	27723		
BOD ₅	4077		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	97.5	97.5	97.5
% TREATED	68.5	68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	2212.5	2212.5	2096.1
SUSP. SOLIDS, LBS.	24950.7	18020	12475.4
BOD ₅ , LBS.	3465.5	1630.8	815.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	116.5	116.5	232.9
SUSP. SOLIDS, LBS.	2772.3	9703	15247.6
BOD ₅ , LBS.	611.5	2446.2	3591.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.0	2.0	2.0
SUSP. SOLIDS mg/l	23.9	23.9	23.9
BOD ₅ mg/l	3.5	3.5	3.5
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.3	8.2	12.8
BOD ₅ mg/l	0.5	2.1	3.0
TOTAL CAPITAL COST (\$)	1,950,000	4,125,000	14,000,000
ANNUAL O&M COST (\$)	72,000	230,000	700,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	31800	31800	31800
REMOVED, LBS.	28416.2	19650.8	13290.8
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	21,800	66,700	335,000
TREATMENT COST (¢/1000 gals)	8.8	22.2	73.5

STORMWATER MANAGEMENT SUMMARY

BEVERLY HARBOR

TOWN	LYNN	
URBAN DRAINAGE AREA		
YEAR		2000
ACRES		44
TOTAL STORM RUNOFF VOL.		
MIL. GAL.		1.0
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.		10
SUSP. SOLIDS, LBS.		119
BOD ₅		17
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		10
SUSP. SOLIDS, LBS.		119
BOD ₅ , LBS.		17
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		14.3
BOD ₅ mg/l		2.0
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		14.3
BOD ₅ mg/l		2.0
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		136
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
		-
TREATMENT COST (¢/1000 gals)		

STORMWATER MANAGEMENT SUMMARY

BEVERLY HARBOR

TOWN	LYNNFIELD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	46	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	1.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	6	
SUSP. SOLIDS, LBS.	75	
BOD ₅	11	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		6
SUSP. SOLIDS, LBS.		75
BOD ₅ , LBS.		11
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		0.7
SUSP. SOLIDS mg/l		8.2
BOD ₅ mg/l		1.2
AFTER TREATMENT		
SETT. SOLIDS mg/l		0.7
SUSP. SOLIDS mg/l		8.2
BOD ₅ mg/l		1.2
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		86
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

BEVERLY HARBOR

TOWN	PEABODY		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	4660		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	171.7		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	3457		
SUSP. SOLIDS, LBS.	41005		
BOD ₅	6028		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	117.8	117.8	117.8
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	3284.2	3284.2	3111.3
SUSP. SOLIDS, LBS.	36904.5	26653.3	18452.2
BOD ₅ , LBS.	5123.8	2411.2	1205.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	172.8	172.8	345.7
SUSP. SOLIDS, LBS.	4100.5	14351.7	22552.8
BOD ₅ , LBS.	904.2	3616.8	4822.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.5	2.5	2.5
SUSP. SOLIDS mg/l	29.6	29.6	29.6
BOD ₅ mg/l	4.2	4.2	4.2
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.9	10.0	15.7
BOD ₅ mg/l	0.6	2.5	3.4
TOTAL CAPITAL COST (\$)	2,325,000	4,675,000	17,000,000
ANNUAL O&M COST (\$)	87,000	275,000	850,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	47033	47033	47033
REMOVED, LBS.	42028.3	29064.5	19657.8
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	26,000	75,600	407,000
TREATMENT COST (¢/1000 gals)	8.5	21.3	73.1

STORMWATER MANAGEMENT SUMMARY

BEVERLY HARBOR

TOWN	SALEM	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	855	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	28.7	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	651	
SUSP. SOLIDS, LBS.	7758	
BOD ₅	1141	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	19.7	19.7
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	618.5	618.5
SUSP. SOLIDS, LBS.	6982.2	5042.7
BOD ₅ , LBS.	969.8	456.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	32.5	32.5
SUSP. SOLIDS, LBS.	775.8	2715.3
BOD ₅ , LBS.	171.2	684.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	2.7	2.7
SUSP. SOLIDS mg/l	32.4	32.4
BOD ₅ mg/l	4.8	4.8
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	3.2	11.3
BOD ₅ mg/l	0.7	2.9
TOTAL CAPITAL COST (\$)	625,000	1,800,000
ANNUAL O&M COST (\$)	15,000	45,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	8899	8899
REMOVED, LBS.	7952	5499.1
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	6,700	29,100
TREATMENT COST (¢/1000 gals)	12.4	36.7

STORMWATER MANAGEMENT SUMMARY

BEVERLY HARBOR

TOWN	WENHAM	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	12	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	0.2	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	2	
SUSP. SOLIDS, LBS.	19	
BOD ₅	3	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	2	
SUSP. SOLIDS, LBS.	19	
BOD ₅ , LBS.	3	
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.2	
SUSP. SOLIDS mg/l	11.4	
BOD ₅ mg/l	1.8	
AFTER TREATMENT		
SETT. SOLIDS mg/l	1.2	
SUSP. SOLIDS mg/l	11.4	
BOD ₅ mg/l	1.8	
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	21	
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		

STORMWATER MANAGEMENT SUMMARY

BLACKSTONE RIVER BASIN

TOWN	BELLINGHAM	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1510	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	50.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	706	
SUSP. SOLIDS, LBS.	8364	
BOD ₅	1230	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	34.3	34.3
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	670.7	670.7
SUSP. SOLIDS, LBS.	7527.6	5436.6
BOD ₅ , LBS.	1045.5	492
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	35.3	35.3
SUSP. SOLIDS, LBS.	836.4	2927.4
BOD ₅ , LBS.	184.5	738
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	20.1	20.1
BOD ₅ mg/l	2.9	2.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	2.0	7.0
BOD ₅ mg/l	0.4	1.8
TOTAL CAPITAL COST (\$)	875,000	2,250,000
ANNUAL O&M COST (\$)	25,000	80,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	9594	9594
REMOVED, LBS.	8573.1	5928.6
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	9,800	36,400
TREATMENT COST (¢/1000 gals)	10.8	29.2

STORMWATER MANAGEMENT SUMMARY

BLACKSTONE RIVER BASIN

TOWN	FRANKLIN	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	93	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	2.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	24	
SUSP. SOLIDS, LBS.	292	
BOD ₅	43	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		24
SUSP. SOLIDS, LBS.		292
BOD ₅ , LBS.		43
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.4
SUSP. SOLIDS mg/l		16.7
BOD ₅ mg/l		2.5
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.4
SUSP. SOLIDS mg/l		16.7
BOD ₅ mg/l		2.5
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		335
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

BLACKSTONE RIVER BASIN

TOWN	HOPKINTON		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	378		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	9.6		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	96		
SUSP. SOLIDS, LBS.	1154		
BOD ₅	170		
STORMWATER TREATMENT			
TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	6.6	6.6
% TREATED	-	68.8	68.8
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	-	91.2	91.2
SUSP. SOLIDS, LBS.	-	1038.6	750.1
BOD ₅ , LBS.	-	144.5	68
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	96	4.8	4.8
SUSP. SOLIDS, LBS.	1154	115.4	403.9
BOD ₅ , LBS.	170	25.5	102
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.2	1.2	1.2
SUSP. SOLIDS mg/l	14.4	14.4	14.4
BOD ₅ mg/l	2.1	2.1	2.1
AFTER TREATMENT			
SETT. SOLIDS mg/l	1.2	0.06	0.06
SUSP. SOLIDS mg/l	14.4	1.4	
BOD ₅ mg/l	2.1	0.3	1.3
TOTAL CAPITAL COST (\$)	-	250,000	1,050,000
ANNUAL O&M COST (\$)	-	5,000	14,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	1324	1324	
REMOVED, LBS.	-	1183.1	818.1
% REMOVED	-	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	-	2800	17,000
TREATMENT COST (¢/1000 gals)	-	15.2	56.5

STORMWATER MANAGEMENT SUMMARY

BLACKSTONE RIVER BASIN

TOWN	MILFORD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	116	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	3.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	31	
SUSP. SOLIDS, LBS.	369	
BOD ₅	54	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		31
SUSP. SOLIDS, LBS.		369
BOD ₅ , LBS.		54
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		14.3
BOD ₅ mg/l		2.1
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		14.3
BOD ₅ mg/l		2.1
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		423
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

BLACKSTONE RIVER BASIN

TOWN	WESTBOROUGH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	12	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	0.2	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	2	
SUSP. SOLIDS, LBS.	30	
BOD ₅	4	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		2
SUSP. SOLIDS, LBS.		30
BOD ₅ , LBS.		4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		18.0
BOD ₅ mg/l		2.4
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		18.0
BOD ₅ mg/l		2.4
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		34
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

BLACKSTONE RIVER BASIN

TOWN	WRENTHAM	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	364	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	11.9	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	168	
SUSP. SOLIDS, LBS.	1995	
BOD ₅	293	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	8.2	8.2
% TREATED	68.9	68.9
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	159.6	159.6
SUSP. SOLIDS, LBS.	1795.5	1296.7
BOD ₅ , LBS.	249	117.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	8.4	8.8
SUSP. SOLIDS, LBS.	199.5	698.3
BOD ₅ , LBS.	44	175.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	20.1	20.1
BOD ₅ mg/l	3.0	3.0
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	2.0	7.0
BOD ₅ mg/l	0.4	1.8
TOTAL CAPITAL COST (\$)	290,000	1,200,000
ANNUAL O&M COST (\$)	6,000	18,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	2288	2288
REMOVED, LBS.	2044.5	1413.9
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	3200	19,400
TREATMENT COST (¢/1000 gals)	14.3	52.9

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	ARLINGTON		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	140		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	4.4		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	77		
SUSP. SOLIDS, LBS.	920		
BOD ₅	135		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	NT	
VOLUME TREAT., MG	3.0	-	
% TREATED	68.2	-	
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	73.2	-	
SUSP. SOLIDS, LBS.	828.0	-	
BOD ₅ , LBS.	114.8	-	
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	3.8	77	
SUSP. SOLIDS, LBS.	92.0	920	
BOD ₅ , LBS.	20.2	135	
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.1	2.1	
SUSP. SOLIDS mg/l	25.0	25.0	
BOD ₅ mg/l	3.7	3.7	
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	2.1	
SUSP. SOLIDS mg/l	2.5	25.0	
BOD ₅ mg/l	0.6	3.7	
TOTAL CAPITAL COST (\$)	160,000	-	
ANNUAL O&M COST (\$)	3,000	-	
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	1055	1055	
REMOVED, LBS.	942.8	-	
% REMOVED	89.4	-	
CAPITAL COSTS/% REMOVAL (\$)	1,800	-	
TREATMENT COST (¢/1000 gals)	20.1	-	

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	ASHLAND	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	121	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	3.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	28	
SUSP. SOLIDS, LBS.	342	
BOD ₅	50	
STORMWATER TREATMENT		
TREAT. DESCRIP.	NT	SP
VOLUME TREAT., MG	-	2.1
% TREATED	-	70.0
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	-	26.6
SUSP. SOLIDS, LBS.	-	307.8
BOD ₅ , LBS.	-	42.5
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	28	1.4
SUSP. SOLIDS, LBS.	342	34.2
BOD ₅ , LBS.	50	7.5
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.1	1.1
SUSP. SOLIDS mg/l	13.7	13.7
BOD ₅ mg/l	2.0	2.0
AFTER TREATMENT		
SETT. SOLIDS mg/l	1.1	0.06
SUSP. SOLIDS mg/l	13.7	1.4
BOD ₅ mg/l	2.0	0.3
TOTAL CAPITAL COST (\$)	-	125,000
ANNUAL O&M COST (\$)	-	3,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	392	392
REMOVED, LBS.	-	350.3
% REMOVED	-	89.4
CAPITAL COSTS/% REMOVAL (\$)	-	1,400
TREATMENT COST (¢/1000 gals)	-	23.7

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	BELLINGHAM	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1274	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	39.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	518	
SUSP. SOLIDS, LBS.	6121	
BOD ₅	900	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	27.3	27.3
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	492.1	492.1
SUSP. SOLIDS, LBS.	5508.9	3978.7
BOD ₅ , LBS.	765.0	360.0
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	25.9	25.9
SUSP. SOLIDS, LBS.	612.1	2142.3
BOD ₅ , LBS.	135	540
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.6	1.6
SUSP. SOLIDS mg/l	18.4	18.4
BOD ₅ mg/l	2.7	2.7
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	1.8	6.5
BOD ₅ mg/l	0.4	1.6
TOTAL CAPITAL COST (\$)	750,000	2,000,000
ANNUAL O&M COST (\$)	20,000	70,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	7021	7021
REMOVED, LBS.	6273.9	4338.7
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	8,400	32,400
TREATMENT COST (¢/1000 gals)	11.2	32.4

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	BELMONT		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	832		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	27.3		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	538		
SUSP. SOLIDS, LBS.	6414		
BOD ₅	943		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	18.7	18.7	18.7
% TREATED	68.5	68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	511.1	511.1	484.2
SUSP. SOLIDS, LBS.	5772.6	4169.1	2886.3
BOD ₅ , LBS.	801.5	377.2	188.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	26.9	26.9	53.8
SUSP. SOLIDS, LBS.	641.4	2249.9	3527.7
BOD ₅ , LBS.	141.5	565.8	759.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.4	2.4	2.4
SUSP. SOLIDS mg/l	28.2	28.2	28.2
BOD ₅ mg/l	4.1	4.1	4.1
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.8	9.9	15.5
BOD ₅ mg/l	0.6	2.5	3.3
TOTAL CAPITAL COST (\$)	525,000	1,700,000	3,000,000
ANNUAL O&M COST (\$)	13,000	40,000	150,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	7367	7367	7367
REMOVED, LBS.	6574.1	4546.3	3074.9
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	5,600	27,500	72,000
TREATMENT COST (¢/1000 gals)	11.2	36.0	80.5

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	DEDHAM		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	2144		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	70.0		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	1066		
SUSP. SOLIDS, LBS.	12668		
BOD ₅	1863		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	47.9	47.9	47.9
% TREATED	68.4	68.4	68.4
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	1012.7	1012.7	959.4
SUSP. SOLIDS, LBS.	11401.2	8234.2	5700.6
BOD ₅ , LBS.	1583.6	745.2	372.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	53.3	53.3	106.6
SUSP. SOLIDS, LBS.	1266.8	4433.8	6967.4
BOD ₅ , LBS.	279.4	1117.8	1490.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.8	1.8	1.8
SUSP. SOLIDS mg/l	21.7	21.7	21.7
BOD ₅ mg/l	3.2	3.2	3.2
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.09	0.09	0.2
SUSP. SOLIDS mg/l	2.2	7.6	11.9
BOD ₅ mg/l	0.5	1.9	2.6
TOTAL CAPITAL COST (\$)	1,125,000	2,650,000	7,000,000
ANNUAL O&M COST (\$)	32,000	110,000	350,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	14531	14531	14531
REMOVED, LBS.	12984.8	8979.4	6073.2
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	12,600	42,900	168,000
TREATMENT COST (¢/1000 gals)	9.8	25.9	73.3

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	DOVER	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2703	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	72.4	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	546	
SUSP. SOLIDS, LBS.	6535	
BOD ₅	961	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	49.7	49.7
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	518.7	518.7
SUSP. SOLIDS, LBS.	5881.5	4247.8
BOD ₅ , LBS.	816.9	384.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	27.3	27.3
SUSP. SOLIDS, LBS.	653.5	2,287.3
BOD ₅ , LBS.	144.1	576.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	0.9	0.9
SUSP. SOLIDS mg/l	10.8	10.8
BOD ₅ mg/l	1.6	1.6
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.05	0.05
SUSP. SOLIDS mg/l	1.1	3.4
BOD ₅ mg/l	0.2	0.6
TOTAL CAPITAL COST (\$)	1,150,000	2,600,000
ANNUAL O&M COST (\$)	33,000	120,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	7496	7496
REMOVED, LBS.	6698.4	4632.4
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	12,900	42,100
TREATMENT COST (¢/1000 gals)	9.6	25.4

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

BASIN/AREA

TOWN FRANKLIN

URBAN DRAINAGE AREA

YEAR	2000	
ACRES	3528	

TOTAL STORM RUNOFF VOL.		
MIL. GAL.	104.6	

TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1270	
SUSP. SOLIDS, LBS.	15089	
BOD ₅	2218	

STORMWATER TREATMENT		
TREAT. DESCRIP.	SMD	SP
VOLUME TREAT., MG	71.7	71.7
% TREATED	68.5	68.5

POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1206.5	1206.5
SUSP. SOLIDS, LBS.	9807.9	13580.1
BOD ₅ , LBS.	887.2	1885.3

POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	63.5	63.5
SUSP. SOLIDS, LBS.	5281.1	1508.9
BOD ₅ , LBS.	1330.8	332.7

AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.5	1.5
SUSP. SOLIDS mg/l	17.3	17.3
BOD ₅ mg/l	2.5	2.5
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.07	0.07
SUSP. SOLIDS mg/l	6.1	1.7
BOD ₅ mg/l	1.5	0.4

TOTAL CAPITAL COST (\$)	3,500,000	1,600,000
ANNUAL O&M COST (\$)	170,000	52,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	17307	17307
REMOVED, LBS.	10695.1	15465.4
% REMOVED	61.8	89.4

CAPITAL COSTS/% REMOVAL (\$)	56,600	17,900
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TREATMENT COST (¢/1000 gals)	29.2	9.6
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STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	HOLLISTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	3407	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	101.7	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	936	
SUSP. SOLIDS, LBS.	11,137	
BOD ₅	1637	
STORMWATER TREATMENT		
TREAT. DESCIP.	SMD	SP
VOLUME TREAT., MG	69.8	69.8
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	889.2	889.2
SUSP. SOLIDS, LBS.	7239.1	10,023.3
BOD ₅ , LBS.	654.8	1391.5
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	46.8	46.8
SUSP. SOLIDS, LBS.	3897.9	1113.7
BOD ₅ , LBS.	982.2	245.7
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.1	1.1
SUSP. SOLIDS mg/l	13.1	13.1
BOD ₅ mg/l	1.9	1.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	4.6	1.3
BOD ₅ mg/l	1.2	0.3
TOTAL CAPITAL COST (\$)	3,400,000	1,500,000
ANNUAL O&M COST (\$)	170,000	50,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	12,774	12,774
REMOVED, LBS.	7893.9	11,414.8
% REMOVED	61.8	89.4
CAPITAL COSTS/% REMOVAL (\$)	55,000	16,800
TREATMENT COST (¢/1000 gals)	24.4	9.3

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	HOPEDALE	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	316	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	7.7	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	42	
SUSP. SOLIDS, LBS.	513	
BOD ₅	75	
STORMWATER TREATMENT		
TREAT. DESCRIP.	NT	SP
VOLUME TREAT., MG	-	5.2
% TREATED	-	67.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	-	39.9
SUSP. SOLIDS, LBS.	-	461.7
BOD ₅ , LBS.	-	63.8
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	42	2.1
SUSP. SOLIDS, LBS.	513	51.3
BOD ₅ , LBS.	75	11.2
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	0.7	0.7
SUSP. SOLIDS mg/l	8.0	8.0
BOD ₅ mg/l	1.2	1.2
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.7	0.03
SUSP. SOLIDS mg/l	8.0	0.8
BOD ₅ mg/l	1.2	0.2
TOTAL CAPITAL COST (\$)	-	240,000
ANNUAL O&M COST (\$)	-	4,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	588	588
REMOVED, LBS.	-	525.5
% REMOVED	-	89.4
CAPITAL COSTS/% REMOVAL (\$)	-	2,700
TREATMENT COST (¢/1000 gals)		17.0

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	HOPKINTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	182	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	4.4	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	45	
SUSP. SOLIDS, LBS.	543	
BOD ₅	80	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		45
SUSP. SOLIDS, LBS.		543
BOD ₅ , LBS.		80
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		14.8
BOD ₅ mg/l		2.2
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		14.8
BOD ₅ mg/l		2.2
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		623
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	LEXINGTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2284	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	61.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	741	
SUSP. SOLIDS, LBS.	8840	
BOD ₅	1300	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	41.8	41.8
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	704.0	704.0
SUSP. SOLIDS, LBS.	7956.0	5746.0
BOD ₅ , LBS.	1105.0	520.0
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	37.0	37.0
SUSP. SOLIDS, LBS.	884	3094
BOD ₅ , LBS.	195	780
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.5	1.5
SUSP. SOLIDS mg/l	17.4	17.4
BOD ₅ mg/l	2.6	2.6
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.07	0.07
SUSP. SOLIDS mg/l	1.7	6.1
BOD ₅ mg/l	0.4	1.5
TOTAL CAPITAL COST (\$)	1,000,000	2,500,000
ANNUAL O&M COST (\$)	32,000	100,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	10,140	10,140
REMOVED, LBS.	9061	6266
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	11,200	40,500
TREATMENT COST (¢/1000 gals)	10.3	27.6

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	LINCOLN	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1863	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	46.4	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	330	
SUSP. SOLIDS, LBS.	3967	
BOD ₅	583	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	31.7	31.7
% TREATED	68.3	68.3
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	313.5	313.5
SUSP. SOLIDS, LBS.	3570.3	2578.5
BOD ₅ , LBS.	495.5	233.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	16.5	16.5
SUSP. SOLIDS, LBS.	396.7	1388.5
BOD ₅ , LBS.	87.5	299.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	0.9	0.9
SUSP. SOLIDS mg/l	10.3	10.3
BOD ₅ mg/l	1.5	1.5
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.04	0.04
SUSP. SOLIDS mg/l	1.0	6.7
BOD ₅ mg/l	0.2	0.8
TOTAL CAPITAL COST (\$)	800,000	2,150,000
ANNUAL O&M COST (\$)	22,000	75,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	4550	4550
REMOVED, LBS.	4065.8	2811.7
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	9,000	34,800
TREATMENT COST (¢/1000 gals)	10.4	29.9

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	MEDFIELD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2786	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	81.9	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	73.2	
SUSP. SOLIDS, LBS.	8709	
BOD ₅	1280	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	56.2	56.2
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	695.4	695.4
SUSP. SOLIDS, LBS.	7,838.1	5,660.9
BOD ₅ , LBS.	1,088.0	512.0
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	36.6	36.6
SUSP. SOLIDS, LBS.	870.9	3,048.1
BOD ₅ , LBS.	192	768
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.1	1.1
SUSP. SOLIDS mg/l	12.8	12.8
BOD ₅ mg/l	1.9	1.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.05	0.05
SUSP. SOLIDS mg/l	1.3	4.5
BOD ₅ mg/l	0.3	1.1
TOTAL CAPITAL COST (\$)	1,260,000	3,000,000
ANNUAL O&M COST (\$)	48,000	135,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	9989	9989
REMOVED, LBS.	8926.1	6172.9
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	14,100	48,500
TREATMENT COST (¢/1000 gals)	10.2	25.7

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	MEDWAY	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2078	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	65.6	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	811	
SUSP. SOLIDS, LBS.	9607	
BOD ₅	1412	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	45.0	45.0
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	770.5	770.5
SUSP. SOLIDS, LBS.	8646.3	6244.6
BOD ₅ , LBS.	1200.2	564.8
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	40.5	40.5
SUSP. SOLIDS, LBS.	960.7	3362.4
BOD ₅ , LBS.	211.8	847.2
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.5	1.5
SUSP. SOLIDS mg/l	17.6	17.6
BOD ₅ mg/l	2.6	2.6
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.07	0.07
SUSP. SOLIDS mg/l	1.8	6.1
BOD ₅ mg/l	0.4	1.5
TOTAL CAPITAL COST (\$)	1,100,000	2,600,000
ANNUAL O&M COST (\$)	32,000	105,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	11,019	11,019
REMOVED, LBS.	9846.6	6809.4
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	12,300	42,100
TREATMENT COST (¢/1000 gals)	10.2	26.8

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	MENDON	
URBAN DRAINAGE AREA		
YEAR		2000
ACRES		155
TOTAL STORM RUNOFF VOL.		
MIL. GAL.		3.8
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.		28
SUSP. SOLIDS, LBS.		335
BOD ₅		49
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		28
SUSP. SOLIDS, LBS.		335
BOD ₅ , LBS.		49
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		0.9
SUSP. SOLIDS mg/l		10.6
BOD ₅ mg/l		1.5
AFTER TREATMENT		
SETT. SOLIDS mg/l		0.9
SUSP. SOLIDS mg/l		10.6
BOD ₅ mg/l		1.5
TOTAL CAPITAL COST (\$)		
		-
ANNUAL O&M COST (\$)		
		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		384
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		
		-
TREATMENT COST (¢/1000 gals)		

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	MILFORD		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	2528		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	77.4		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	1079		
SUSP. SOLIDS, LBS.	12,829		
BOD ₅	1886		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		53.1	53.1
% TREATED		68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	1,025.1	1,025.1	1,025.1
SUSP. SOLIDS, LBS.	11,546.1	8,338.9	8,338.9
BOD ₅ , LBS.	1603.1	754.4	754.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	53.9	53.9	53.9
SUSP. SOLIDS, LBS.	1282.9	4490.1	4490.1
BOD ₅ , LBS.	282.9	1131.6	1131.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.7	1.7	1.7
SUSP. SOLIDS mg/l	19.9	19.9	19.9
BOD ₅ mg/l	2.9	2.9	2.9
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.08	0.08	0.08
SUSP. SOLIDS mg/l	2.0	7.0	7.0
BOD ₅ mg/l	0.4	1.8	1.8
TOTAL CAPITAL COST (\$)	1,250,000	2,850,000	2,850,000
ANNUAL O&M COST (\$)	35,000	125,000	125,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	14,715	14,715	14,715
REMOVED, LBS.	13,149.2	9093.3	9093.3
% REMOVED	89.4	61.8	61.8
CAPITAL COSTS/% REMOVAL (\$)	14,000	46,100	46,100
TREATMENT COST (¢/1000 gals)	9.8	25.6	25.6

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	MILLIS		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		1781	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		53.1	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		756	
SUSP. SOLIDS, LBS.		7554	
BOD ₅		1112	
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		36.4	36.4
% TREATED		68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		718.2	718.2
SUSP. SOLIDS, LBS.		6,798.6	4,910.1
BOD ₅ , LBS.		945.2	444.8
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		37.8	37.8
SUSP. SOLIDS, LBS.		755.4	2,643.9
BOD ₅ , LBS.		166.8	667.2
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.7	1.7
SUSP. SOLIDS mg/l		17.1	17.1
BOD ₅ mg/l		2.5	2.5
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.09	0.09
SUSP. SOLIDS mg/l		1.7	6.0
BOD ₅ mg/l		0.4	1.5
TOTAL CAPITAL COST (\$)		900,000	2,300,000
ANNUAL O&M COST (\$)		23,000	82,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		8666	8666
REMOVED, LBS.		7743.8	5354.9
% REMOVED		89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)		10,100	37,200
TREATMENT COST (¢/1000 gals)		10.0	28.1

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	NATICK	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2383	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	76.6	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1139	
SUSP. SOLIDS, LBS.	13541	
BOD ₅	1991	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	DMD
VOLUME TREAT., MG	52.2	52.2
% TREATED	68.2	68.2
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1,082.1	1,082.1
SUSP. SOLIDS, LBS.	12,186.9	8,801.7
BOD ₅ , LBS.	1,692.4	796.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	56.9	56.9
SUSP. SOLIDS, LBS.	1,354.1	4,739.3
BOD ₅ , LBS.	298.7	1,194.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.8	1.8
SUSP. SOLIDS mg/l	21.2	21.2
BOD ₅ mg/l	3.1	3.1
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.1	7.4
BOD ₅ mg/l	0.5	1.9
TOTAL CAPITAL COST (\$)	1,200,000	2,800,000
ANNUAL O&M COST (\$)	37,000	125,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	15532	15532
REMOVED, LBS.	13,879.3	9598.1
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	13,400	45,300
TREATMENT COST (¢/1000 gals)	9.7	25.8

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	NEEDHAM		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	4879		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	161.4		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	3046		
SUSP. SOLIDS, LBS.	36299		
BOD ₅	5337		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	110.7	110.7	110.7
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	2893.7	2893.7	2741.4
SUSP. SOLIDS, LBS.	32669.1	23,594.4	16,334.6
BOD ₅ , LBS.	4536.5	2134.8	1067.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	152.3	152.3	304.6
SUSP. SOLIDS, LBS.	3629.9	12,704.6	19,964.4
BOD ₅ , LBS.	800.5	3202.2	4269.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.3	2.3	2.3
SUSP. SOLIDS mg/l	27.0	27.0	27.0
BOD ₅ mg/l	4.0	4.0	4.0
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.7	9.4	14.8
BOD ₅ mg/l	0.6	2.4	3.2
TOTAL CAPITAL COST (\$)	2,200,000	4,500,000	16,000,000
ANNUAL O&M COST (\$)	78,000	270,000	800,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	41,636	41,636	41,636
REMOVED, LBS.	37,205.6	25,729.2	17,402.0
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	24,600	72,800	383,000
TREATMENT COST (¢/1000 gals)	8.8	22.0	72.5

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	NEWTON		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	8152		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	266.0		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	5480		
SUSP. SOLIDS, LBS.	65425		
BOD ₅	9621		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	182.4	182.4	182.4
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	5206	5206	4932
SUSP. SOLIDS, LBS.	58,882.5	42,526.3	29,441.3
BOD ₅ , LBS.	8177.9	3848.4	1924.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	274	274	548
SUSP. SOLIDS, LBS.	6542.5	22898.7	35983.7
BOD ₅ , LBS.	1443.1	5772.6	7696.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.5	2.5	2.5
SUSP. SOLIDS mg/l	29.5	29.5	29.5
BOD ₅ mg/l	4.3	4.3	4.3
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	3.0	10.3	16.2
BOD ₅ mg/l	0.7	2.6	3.5
TOTAL CAPITAL COST (\$)	3,350,000	6,200,000	26,000,000
ANNUAL O&M COST (\$)	129,000	420,000	1,300,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	75046	75046	75046
REMOVED, LBS.	67060.4	46374.7	31365.5
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	37,500	100,300	622,000
TREATMENT COST (¢/1000 gals)	8.4	19.5	71.5

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	NORFOLK	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	4372	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	144.5	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1607	
SUSP. SOLIDS, LBS.	19086	
BOD ₅	2807	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SMD	SP
VOLUME TREAT., MG	99.0	99.0
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1526.7	1526.7
SUSP. SOLIDS, LBS.	12,405.9	17,177.4
BOD ₅ , LBS.	1122.8	2386.0
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	80.3	80.3
SUSP. SOLIDS, LBS.	6,680.1	1908.6
BOD ₅ , LBS.	1,684.2	421.0
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.3	1.3
SUSP. SOLIDS mg/l	15.8	15.8
BOD ₅ mg/l	2.3	2.3
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.07	0.07
SUSP. SOLIDS mg/l	5.5	1.6
BOD ₅ mg/l	1.4	0.3
TOTAL CAPITAL COST (\$)	4,200,000	2,000,000
ANNUAL O&M COST (\$)	235,000	73,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	21,893	21,893
REMOVED, LBS.	13,528.7	19,563.4
% REMOVED	61.8	89.4
CAPITAL COSTS/% REMOVAL (\$)	68,000	22,400
TREATMENT COST (¢/1000 gals)	22.3	9.0

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	SHERBORN	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2908	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	85.6	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	689	
SUSP. SOLIDS, LBS.	8180	
BOD ₅	1202	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	58.7	58.7
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	654.6	654.6
SUSP. SOLIDS, LBS.	7,362	5,317
BOD ₅ , LBS.	1,021.7	480.8
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	34.4	34.4
SUSP. SOLIDS, LBS.	818	2,863
BOD ₅ , LBS.	180.3	721.2
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.0	1.0
SUSP. SOLIDS mg/l	11.5	11.5
BOD ₅ mg/l	1.7	1.7
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.05	0.05
SUSP. SOLIDS mg/l	1.1	4.0
BOD ₅ mg/l	0.3	1.0
TOTAL CAPITAL COST (\$)	1,300,000	3,100,000
ANNUAL O&M COST (\$)	42,000	140,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	9382	9382
REMOVED, LBS.	8383.7	5797.2
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	14,500	50,200
TREATMENT COST (¢/1000 gals)	9.5	25.5

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	SOMERVILLE		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	656		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	28.6		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	519		
SUSP. SOLIDS, LBS.	6085		
BOD ₅	894		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	19.7	19.7	19.7
% TREATED	68.9	68.9	68.9
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	493.1	493.1	467.1
SUSP. SOLIDS, LBS.	5476.5	3955.2	2738.3
BOD ₅ , LBS.	759.9	357.6	178.8
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	25.9	25.9	51.9
SUSP. SOLIDS, LBS.	608.5	2129.8	3346.7
BOD ₅ , LBS.	134.1	536.4	715.2
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.2	2.2	2.2
SUSP. SOLIDS mg/l	25.5	25.5	25.5
BOD ₅ mg/l	3.7	3.7	3.7
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.6	3.9	14.0
BOD ₅ mg/l	0.6	2.2	3.0
TOTAL CAPITAL COST (\$)	550,000	1,750,000	3,000,000
ANNUAL O&M COST (\$)	13,000	41,000	150,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	6979	6979	6979
REMOVED, LBS.	6236.4	4312.8	2917.1
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	6,200	28,300	72,000
TREATMENT COST (¢/1000 gals)	11.1	35.1	76.4

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	WALPOLE	
URBAN DRAINAGE AREA		
YEAR		2000
ACRES		151
TOTAL STORM RUNOFF VOL.		
MIL. GAL.		4.0
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.		44
SUSP. SOLIDS, LBS.		528
BOD ₅		78
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		44
SUSP. SOLIDS, LBS.		528
BOD ₅ , LBS.		78
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.3
SUSP. SOLIDS mg/l		15.8
BOD ₅ mg/l		2.3
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.3
SUSP. SOLIDS mg/l		15.8
BOD ₅ mg/l		2.3
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		606
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	WALTHAM		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	5789		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	217.4		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	5351		
SUSP. SOLIDS, LBS.	63,716		
BOD ₅	9371		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	149.0	149.0	149.0
% TREATED	68.5	68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	5083.5	5085.5	4815.9
SUSP. SOLIDS, LBS.	57,344.4	41,415.4	28,672.2
BOD ₅ , LBS.	7964.4	3748.4	1874.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	267.5	267.5	535.1
SUSP. SOLIDS, LBS.	6371.6	22300.6	35,043.8
BOD ₅ , LBS.	1405.6	5622.6	7496.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	3.0	3.0	3.0
SUSP. SOLIDS mg/l	35.1	35.1	35.1
BOD ₅ mg/l	5.2	5.2	5.2
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.3
SUSP. SOLIDS mg/l	3.5	12.3	19.3
BOD ₅ mg/l	0.8	3.0	4.1
TOTAL CAPITAL COST (\$)	2,850,000	5,400,000	22,000,000
ANNUAL O&M COST (\$)	107,000	350,000	1,100,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	73087	73087	73087
REMOVED, LBS.	65308.8	45,163.8	30,546.4
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	31,900	87,400	526,000
TREATMENT COST (¢/1000 gals)	8.6	20.3	74.1

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	WATERTOWN		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	1309		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	47.0		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	972		
SUSP. SOLIDS, LBS.	11547		
BOD ₅	1698		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	32.3	32.3	32.3
% TREATED	68.7	68.7	68.7
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	923.4	923.4	874.8
SUSP. SOLIDS, LBS.	10,392.3	7,505.5	5196.2
BOD ₅ , LBS.	1443.3	679.2	339.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	48.6	48.6	97.2
SUSP. SOLIDS, LBS.	1154.7	4041.5	6350.8
BOD ₅ , LBS.	254.7	1018.8	1358.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.5	2.5	2.5
SUSP. SOLIDS mg/l	29.5	29.5	29.5
BOD ₅ mg/l	4.3	4.3	4.3
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.9	10.3	16.2
BOD ₅ mg/l	0.6	2.6	3.5
TOTAL CAPITAL COST (\$)	800,000	2,200,000	5,000,000
ANNUAL O&M COST (\$)	22,000	75,000	250,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	13245	13245	13245
REMOVED, LBS.	11835.6	8189.7	5535.8
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	9,000	35,600	120,000
TREATMENT COST (¢/1000 gals)	10.2	29.8	77.7

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	WAYLAND		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	227		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	5.2		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	26		
SUSP. SOLIDS, LBS.	406		
BOD ₅	60		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP		NT
VOLUME TREAT., MG	3.6		-
% TREATED	69.2		-
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	24.7		-
SUSP. SOLIDS, LBS.	365.4		-
BOD ₅ , LBS.	51.0		-
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	1.3		26
SUSP. SOLIDS, LBS.	40.6		406
BOD ₅ , LBS.	9.0		60
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	0.6		0.6
SUSP. SOLIDS mg/l	9.4		9.4
BOD ₅ mg/l	1.4		1.4
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.03		0.6
SUSP. SOLIDS mg/l	0.9		9.4
BOD ₅ mg/l	0.2		1.4
TOTAL CAPITAL COST (\$)	190,000		-
ANNUAL O&M COST (\$)	4,000		-
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	466		466
REMOVED, LBS.	416.4		-
% REMOVED	89.4		-
CAPITAL COSTS/% REMOVAL (\$)	2,100		-
TREATMENT COST (¢/1000 gals)	20.4		-

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	WELLESLEY		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	5078		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	152.0		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	2438		
SUSP. SOLIDS, LBS.	29167		
BOD ₅	4291		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	104.2	104.2	104.2
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	2,316.1	2,316.1	2,194.2
SUSP. SOLIDS, LBS.	26,250.3	18,958.6	13,125.2
BOD ₅ , LBS.	3,647.4	1,716.4	858.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	121.9	121.9	243.8
SUSP. SOLIDS, LBS.	2,916.7	10,208.4	16,041.8
BOD ₅ , LBS.	643.7	2,574.6	3,432.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.9	1.9	1.9
SUSP. SOLIDS mg/l	23.0	23.0	23.0
BOD ₅ mg/l	3.4	3.4	3.4
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.3	8.1	12.7
BOD ₅ mg/l	0.5	2.0	2.7
TOTAL CAPITAL COST (\$)	2,150,000	4,400,000	15,500,000
ANNUAL O&M COST (\$)	74,000	245,000	775,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	33458	33458	33458
REMOVED, LBS.	29897.7	20675.0	13,983.4
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	24,000	71,200	371,000
TREATMENT COST (¢/1000 gals)	9.1	22.2	74.7

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	WESTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2328	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	78.3	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1109	
SUSP. SOLIDS, LBS.	13196	
BOD ₅	1941	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	53.7	53.7
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1053.5	1053.5
SUSP. SOLIDS, LBS.	11876.4	8577.4
BOD ₅ , LBS.	1649.9	776.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	55.5	55.5
SUSP. SOLIDS, LBS.	1319.6	4618.6
BOD ₅ , LBS.	291.1	1164.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	20.2	20.2
BOD ₅ mg/l	3.0	3.0
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	2.0	7.1
BOD ₅ mg/l	0.4	1.8
TOTAL CAPITAL COST (\$)	1,250,000	2,850,000
ANNUAL O&M COST (\$)	35,000	125,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	15137	15137
REMOVED, LBS.	13526.3	9353.8
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	14,000	46,100
TREATMENT COST (¢/1000 gals)	9.6	25.3

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN	WESTWOOD		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	1259		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	34.8		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	417		
SUSP. SOLIDS, LBS.	4982		
BOD ₅	733		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		23.9	23.9
% TREATED		68.7	68.7
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		396.2	396.2
SUSP. SOLIDS, LBS.		4483.8	3238.3
BOD ₅ , LBS.		623.1	293.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		20.8	20.8
SUSP. SOLIDS, LBS.		498.2	1743.7
BOD ₅ , LBS.		109.9	439.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.4	1.4
SUSP. SOLIDS mg/l		17.2	17.2
BOD ₅ mg/l		2.5	2.5
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.07	0.07
SUSP. SOLIDS mg/l		1.7	6.0
BOD ₅ mg/l		0.4	1.5
TOTAL CAPITAL COST (\$)	700,000	1,800,000	
ANNUAL O&M COST (\$)	17,000	65,000	
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	5715	5715	
REMOVED, LBS.	5106.9	3531.5	
% REMOVED	89.4	61.8	
CAPITAL COSTS/% REMOVAL (\$)	7,800	29,100	
TREATMENT COST (¢/1000 gals)	11.7	33.6	

STORMWATER MANAGEMENT SUMMARY

CHARLES RIVER BASIN

TOWN WRENTHAM

URBAN DRAINAGE AREA

YEAR	2000
ACRES	1132

TOTAL STORM RUNOFF VOL.	
MIL. GAL.	37.2

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	521
SUSP. SOLIDS, LBS.	6156
BOD ₅	905

STORMWATER TREATMENT		
TREAT. DESCRIP.	SMD	SP
VOLUME TREAT., MG	25.5	25.5
% TREATED	68.5	68.5

POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	495.1	495.1
SUSP. SOLIDS, LBS.	4001.4	5540.4
BOD ₅ , LBS.	362	769.3

POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	25.9	25.9
SUSP. SOLIDS, LBS.	2154.6	615.6
BOD ₅ , LBS.	543	135.7

AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	19.8	19.8
BOD ₅ mg/l	2.9	2.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	6.9	2.0
BOD ₅ mg/l	1.8	0.4

TOTAL CAPITAL COST (\$)	1,900,000	750,000
ANNUAL O&M COST (\$)	75,000	19,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	7061	7061
REMOVED, LBS.	4363.4	6309.7
% REMOVED	61.8	89.4

CAPITAL COSTS/% REMOVAL (\$)	30,700	8,400
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TREATMENT COST (¢/1000 gals)	34.3	11.8
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STORMWATER MANAGEMENT SUMMARY

CHELSEA RIVER BASIN

TOWN EVERETT

URBAN DRAINAGE AREA

YEAR	2000
ACRES	156
TOTAL STORM RUNOFF VOL.	
MIL. GAL.	5.5

TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	112
SUSP. SOLIDS, LBS.	1340
BOD ₅	197

STORMWATER TREATMENT

TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	3.8	3.8
% TREATED	-	69.1	69.1

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	-	106.4	106.4
SUSP. SOLIDS, LBS.	-	1206	871
BOD ₅ , LBS.	-	167.5	78.8

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	112	5.6	5.6
SUSP. SOLIDS, LBS.	1340	134	469
BOD ₅ , LBS.	197	29.5	118.2

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.4	2.4	2.4
SUSP. SOLIDS mg/l	29.2	29.2	29.2
BOD ₅ mg/l	4.3	4.3	4.3
AFTER TREATMENT			
SETT. SOLIDS mg/l	2.4	0.1	0.1
SUSP. SOLIDS mg/l	29.2	2.9	10.2
BOD ₅ mg/l	4.3	0.6	2.6

TOTAL CAPITAL COST (\$)

- 190,000 800,000

ANNUAL O&M COST (\$)

- 4,000 10,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	1537	1537	1537
REMOVED, LBS.	-	1373.5	949.8
% REMOVED	-	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)

- 2100 12,900

TREATMENT COST (¢/1000 gals)

- 20.4 74.0

STORMWATER MANAGEMENT SUMMARY

CHELSEA RIVER BASIN

TOWN	REVERE		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	348		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	13.1		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	271		
SUSP. SOLIDS, LBS.	3207		
BOD ₅	472		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		9.0	9.0
% TREATED		68.7	68.7
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		257.5	257.5
SUSP. SOLIDS, LBS.		2886.3	2084.5
BOD ₅ , LBS.		401.2	188.8
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		13.5	13.5
SUSP. SOLIDS, LBS.		320.7	1122.5
BOD ₅ , LBS.		70.8	283.2
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		2.5	2.5
SUSP. SOLIDS mg/l		29.3	29.3
BOD ₅ mg/l		4.3	4.3
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.1	0.1
SUSP. SOLIDS mg/l		2.9	10.3
BOD ₅ mg/l		0.6	2.6
TOTAL CAPITAL COST (\$)	325,000	1,250,000	
ANNUAL O&M COST (\$)	7,000	24,000	
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	3679	3679	
REMOVED, LBS.	3287.5	2273.3	
% REMOVED	89.4	61.8	
CAPITAL COSTS/% REMOVAL (\$)	3,600	20,200	
TREATMENT COST (¢/1000 gals)	14.3	52.6	

STORMWATER MANAGEMENT SUMMARY

CONCORD RIVER BASIN

TOWN	BEDFORD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	988	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	35.9	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	836	
SUSP. SOLIDS, LBS.	9985	
BOD ₅	1470	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	24.6	24.6
% TREATED	68.9	68.9
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	794.2	794.2
SUSP. SOLIDS, LBS.	8986.5	6490.2
BOD ₅ , LBS.	12495	588
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	41.8	41.8
SUSP. SOLIDS, LBS.	989.5	3494.8
BOD ₅ , LBS.	220.5	882
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	2.8	2.8
SUSP. SOLIDS mg/l	33.4	33.4
BOD ₅ mg/l	4.9	4.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	3.3	11.7
BOD ₅ mg/l	0.7	2.9
TOTAL CAPITAL COST (\$)	700,000	2,000,000
ANNUAL O&M COST (\$)	18,000	60,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	11455	11455
REMOVED, LBS.	10236	7078.2
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	7,800	32,400
TREATMENT COST (¢/1000 gals)	11.8	33.5

STORMWATER MANAGEMENT SUMMARY

CONCORD RIVER BASIN

TOWN BILLERICA

URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	3686	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	107.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1298	
SUSP. SOLIDS, LBS.	15435	
BOD ₅	2269	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	UMD
VOLUME TREAT., MG	73.5	73.5
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1233.1	1233.1
SUSP. SOLIDS, LBS.	13891.5	10032.8
BOD ₅ , LBS.	1928.7	907.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	64.9	64.9
SUSP. SOLIDS, LBS.	1543.5	5402.2
BOD ₅ , LBS.	340.3	1361.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.5	1.5
SUSP. SOLIDS mg/l	17.3	17.3
BOD ₅ mg/l	2.5	2.5
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.07	0.07
SUSP. SOLIDS mg/l	1.7	6.0
BOD ₅ mg/l	0.4	1.5
TOTAL CAPITAL COST (\$)	1,575,000	3,475,000
ANNUAL O&M COST (\$)	54,000	170,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	17704	17704
REMOVED, LBS.	15820.2	10940.4
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	17,600	56,200
TREATMENT COST (¢/1000 gals)	9.2	23.7

STORMWATER MANAGEMENT SUMMARY

CONCORD RIVER BASIN

TOWN	CARLISLE		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	2136		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	56.0		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	408		
SUSP. SOLIDS, LBS.	4891		
BOD ₅	719		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		38.3	38.3
% TREATED		68.4	68.4
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		387.6	387.6
SUSP. SOLIDS, LBS.		4401.9	3179.2
BOD ₅ , LBS.		611.2	287.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		20.4	20.4
SUSP. SOLIDS, LBS.		489.1	1711.8
BOD ₅ , LBS.		107.8	431.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		0.9	0.9
SUSP. SOLIDS mg/l		10.5	10.5
BOD ₅ mg/l		1.5	1.5
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.4	0.4
SUSP. SOLIDS mg/l		1.0	3.7
BOD ₅ mg/l		0.2	0.9
TOTAL CAPITAL COST (\$)	1,000,000	2,450,000	
ANNUAL O&M COST (\$)	28,000	90,000	
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		5610	5610
REMOVED, LBS.		5013.1	3466.8
% REMOVED		89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	11,200	39,600	
TREATMENT COST (¢/1000 gals)	10.5	28.0	

STORMWATER MANAGEMENT SUMMARY

CONCORD RIVER BASIN

TOWN CHELMSFORD

URBAN DRAINAGE AREA

YEAR 2000

ACRES 5278

TOTAL STORM RUNOFF VOL.

MIL. GAL. 153.0

TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS. 1939

SUSP. SOLIDS, LBS. 23115

BOD₅ 3399

STORMWATER TREATMENT

TREAT. DESCRIP.

SP

SMD

MD

VOLUME TREAT., MG

104.9

104.9

104.9

% TREATED

68.6

68.6

68.6

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.

1842

1842

1745.1

SUSP. SOLIDS, LBS.

20803.5

15024.8

10401.8

BOD₅, LBS.

2889.2

1359.6

679.8

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.

97

97

193.9

SUSP. SOLIDS, LBS.

2311.5

8090.2

12713.2

BOD₅, LBS.

509.8

2039.4

2719.2

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT

SETT. SOLIDS mg/l

1.5

1.5

1.5

SUSP. SOLIDS mg/l

18.1

18.1

18.1

BOD₅ mg/l

2.7

2.7

2.7

AFTER TREATMENT

SETT. SOLIDS mg/l

0.08

0.08

0.2

SUSP. SOLIDS mg/l

1.8

6.3

10.0

BOD₅ mg/l

0.4

1.6

2.1

TOTAL CAPITAL COST (\$)

2,100,000

4,300,000

15,500,000

ANNUAL O&M COST (\$)

77,000

245,000

775,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.

4 26514

26514

26514

REMOVED, LBS.

23692.7

16384.4

11081.6

% REMOVED

89.4

61.8

41.8

CAPITAL COSTS/% REMOVAL (\$)

23,500

69,600

371,000

TREATMENT COST (¢/1000 gals)

8.7

21.9

73.3

STORMWATER MANAGEMENT SUMMARY

CONCORD RIVER BASIN

TOWN	CONCORD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1195	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	36.5	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	576	
SUSP. SOLIDS, LBS.	6895	
BOD ₅	1014	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	25.1	25.1
% TREATED	68.8	68.8
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	547.2	547.2
SUSP. SOLIDS, LBS.	6205.5	4481.8
BOD ₅ , LBS.	861.9	405.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	28.8	28.8
SUSP. SOLIDS, LBS.	689.5	2413.2
BOD ₅ , LBS.	152.1	608.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	2.0	2.0
SUSP. SOLIDS mg/l	23.4	23.4
BOD ₅ mg/l	3.4	3.4
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.3	7.9
BOD ₅ mg/l	0.5	2.0
TOTAL CAPITAL COST (\$)	750,000	2,000,000
ANNUAL O&M COST (\$)	19,000	60,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	7909	7909
REMOVED, LBS.	7067.4	4887.4
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	8,400	32,400
TREATMENT COST (¢/1000 gals)	11.7	33.0

STORMWATER MANAGEMENT SUMMARY

CONCORD RIVER BASIN

TOWN	LINCOLN	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	128	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	3.3	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	24	
SUSP. SOLIDS, LBS.	288	
BOD ₅	42	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		24
SUSP. SOLIDS, LBS.		288
BOD ₅ , LBS.		42
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		0.9
SUSP. SOLIDS mg/l		10.5
BOD ₅ mg/l		1.5
AFTER TREATMENT		
SETT. SOLIDS mg/l		0.9
SUSP. SOLIDS mg/l		10.5
BOD ₅ mg/l		0.9
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	330	
REMOVED, LBS.	-	
% REMOVED	-	
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

CONCORD RIVER BASIN

TOWN	LOWELL		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	2438		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	84.4		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	1546		
SUSP. SOLIDS, LBS.	18335		
BOD ₅	2695		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	57.8	57.8	57.8
% TREATED	68.5	68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	1468.7	1468.7	1391.4
SUSP. SOLIDS, LBS.	16501.5	11917.8	8250.8
BOD ₅ , LBS.	2290.8	1078	539
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	77.3	77.3	154.6
SUSP. SOLIDS, LBS.	1833.5	6417.2	10084.2
BOD ₅ , LBS.	404.2	1617	2156
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.2	2.2	2.2
SUSP. SOLIDS mg/l	26.0	26.0	26.0
BOD ₅ mg/l	3.8	3.8	3.8
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.6	9.1	14.3
BOD ₅ mg/l	0.6	2.3	3.1
TOTAL CAPITAL COST (\$)	1,300,000	3,100,000	8,500,000
ANNUAL O&M COST (\$)	44,000	140,000	425,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	21,030	21,030	21,030
REMOVED, LBS.	18792.3	12995.8	8789.8
% REMOVED	89.4	61.8	41.6
CAPITAL COSTS/% REMOVAL (\$)	14,500	50,200	203,000
TREATMENT COST (¢/1000 gals)	9.7	25.3	74.8

STORMWATER MANAGEMENT SUMMARY

CONCORD RIVER BASIN

TOWN	TEWKSBURY	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	294	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	10.4	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	162	
SUSP. SOLIDS, LBS.	1919	
BOD ₅	282	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	7.1	7.1
% TREATED	68.3	68.3
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	153.9	153.9
SUSP. SOLIDS, LBS.	1727.1	1247.4
BOD ₅ , LBS.	239.7	112.8
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	8.1	8.1
SUSP. SOLIDS, LBS.	191.9	671.6
BOD ₅ , LBS.	42.3	169.2
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.9	1.9
SUSP. SOLIDS mg/l	22.1	22.1
BOD ₅ mg/l	3.3	3.3
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.2	7.7
BOD ₅ mg/l	0.5	2.0
TOTAL CAPITAL COST (\$)	260,000	1,130,000
ANNUAL O&M COST (\$)	5,000	19,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	2201	2201
REMOVED, LBS.	1966.8	1360.2
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	2,900	18,300
TREATMENT COST (¢/1000 gals)	15.0	58.7

STORMWATER MANAGEMENT SUMMARY

CONCORD RIVER BASIN

TOWN	WESTFORD		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	192		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	4.4		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	44		
SUSP. SOLIDS, LBS.	529		
BOD ₅	78		
STORMWATER TREATMENT			
TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	3.0	3.0
% TREATED	-	68.2	68.2
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	-	41.8	41.8
SUSP. SOLIDS, LBS.	-	476.1	343.8
BOD ₅ , LBS.	-	66.3	31.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	44	2.2	2.2
SUSP. SOLIDS, LBS.	529	52.9	185.2
BOD ₅ , LBS.	78	11.7	46.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.2	1.2	1.2
SUSP. SOLIDS mg/l	14.5	14.5	14.5
BOD ₅ mg/l	2.1	2.1	2.1
AFTER TREATMENT			
SETT. SOLIDS mg/l	1.2	0.06	0.06
SUSP. SOLIDS mg/l	14.5	1.4	5.0
BOD ₅ mg/l	2.1	0.3	1.3
TOTAL CAPITAL COST (\$)	-	150,000	750,000
ANNUAL O&M COST (\$)	-	3,000	9,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	607	607	607
REMOVED, LBS.	-	542.4	375
% REMOVED	-	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	-	1,700	12,100
TREATMENT COST (¢/1000 gals)	-	20.0	87.5

STORMWATER MANAGEMENT SUMMARY

ESSEX BAY

TOWN	BEVERLY	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	20	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	0.7	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	6	
SUSP. SOLIDS, LBS.	75	
BOD ₅	11	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		6
SUSP. SOLIDS, LBS.		75
BOD ₅ , LBS.		11
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.0
SUSP. SOLIDS mg/l		12.8
BOD ₅ mg/l		1.9
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.0
SUSP. SOLIDS mg/l		12.8
BOD ₅ mg/l		1.9
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		86
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

ESSEX BAY

TOWN	ESSEX	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1335	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	37.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	327	
SUSP. SOLIDS, LBS.	3900	
BOD ₅	573	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	25.9	25.9
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	310.7	310.7
SUSP. SOLIDS, LBS.	3510	2535
BOD ₅ , LBS.	487	229.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	16.3	16.3
SUSP. SOLIDS, LBS.	390	1365
BOD ₅ , LBS.	86	343.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.0	1.0
SUSP. SOLIDS mg/l	12.4	12.4
BOD ₅ mg/l	1.8	1.8
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.05	0.05
SUSP. SOLIDS mg/l	1.2	4.3
BOD ₅ mg/l	0.3	1.1
TOTAL CAPITAL COST (\$)	750,000	2,000,000
ANNUAL O&M COST (\$)	19,000	60,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	4473	4473
REMOVED, LBS.	3997	2764.2
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	8,400	32,400
TREATMENT COST (¢/1000 gals)	11.7	32.9

STORMWATER MANAGEMENT SUMMARY

ESSEX BAY

TOWN GLOUCESTER

URBAN DRAINAGE AREA

YEAR	2000
ACRES	303

TOTAL STORM RUNOFF VOL.	
MIL. GAL.	7.1

TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	56
SUSP. SOLIDS, LBS.	681
BOD ₅	100

STORMWATER TREATMENT

TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	4.8	4.8
% TREATED	-	67.6	67.6

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	-	53.2	53.2
SUSP. SOLIDS, LBS.	-	612.9	442.6
BOD ₅ , LBS.	-	85	40

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	56	2.8	2.8
SUSP. SOLIDS, LBS.	681	68.1	238.4
BOD ₅ , LBS.	100	15	60

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT			
SETT. SOLIDS mg/l	0.9	0.9	0.9
SUSP. SOLIDS mg/l	11.5	11.5	11.5
BOD ₅ mg/l	1.7	1.7	1.7
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.9	0.05	0.05
SUSP. SOLIDS mg/l	11.5	1.1	4.0
BOD ₅ mg/l	1.7	0.3	1.0

TOTAL CAPITAL COST (\$)	-	200,000	950,000
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ANNUAL O&M COST (\$)	-	5,000	11,000
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SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	781	781	781
REMOVED, LBS.	-	697.9	482.6
% REMOVED	-	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	-	22,000	15,400
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TREATMENT COST (¢/1000 gals)	-	16.5	68.9
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STORMWATER MANAGEMENT SUMMARY

ESSEX BAY

TOWN	HAMILTON		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	216		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	6.3		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	64		
SUSP. SOLIDS, LBS.	768		
BOD ₅	113		
STORMWATER TREATMENT			
TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	4.3	4.3
% TREATED	-	68.3	68.3
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	-	60.8	60.8
SUSP. SOLIDS, LBS.	-	691.2	499.2
BOD ₅ , LBS.	-	96	45.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	64	3.2	3.2
SUSP. SOLIDS, LBS.	768	76.8	268.8
BOD ₅ , LBS.	113	17	67.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.2	1.2	1.2
SUSP. SOLIDS mg/l	14.6	14.6	14.6
BOD ₅ mg/l	2.2	2.2	2.2
AFTER TREATMENT			
SETT. SOLIDS mg/l	1.2	0.06	0.06
SUSP. SOLIDS mg/l	14.6	1.5	5.1
BOD ₅ mg/l	2.2	0.3	1.3
TOTAL CAPITAL COST (\$)	-	200,000	900,000
ANNUAL O&M COST (\$)	-	5,000	10,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	881	881	881
REMOVED, LBS.	-	787.2	544.4
% REMOVED	-	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	-	2200	14,600
TREATMENT COST (¢/1000 gals)	-	16.5	72.5

STORMWATER MANAGEMENT SUMMARY

CONCORD RIVER BASIN

TOWN	IPSWICH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	123	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	3.5	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	44	
SUSP. SOLIDS, LBS.	532	
BOD ₅	78	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		44
SUSP. SOLIDS, LBS.		532
BOD ₅ , LBS.		78
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.5
SUSP. SOLIDS mg/l		18.2
BOD ₅ mg/l		2.7
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.5
SUSP. SOLIDS mg/l		18.2
BOD ₅ mg/l		2.7
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		610
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

ESSEX BAY

TOWN	WENHAM	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	73	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	2.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	25	
SUSP. SOLIDS, LBS.	298	
BOD ₅	44	
STORMWATER TREATMENT		
TREAT. DESCRIPT.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		25
SUSP. SOLIDS, LBS.		298
BOD ₅ , LBS.		44
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.4
SUSP. SOLIDS mg/l		17.0
BOD ₅ mg/l		2.5
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.4
SUSP. SOLIDS mg/l		17.0
BOD ₅ mg/l		2.5
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		342
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

GLOUCESTER HARBOR

TOWN GLOUCESTER

URBAN DRAINAGE AREA

YEAR	2000
ACRES	3092
TOTAL STORM RUNOFF VOL.	
MIL. GAL.	91.8
TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	1169
SUSP. SOLIDS, LBS.	13922
BOD ₅	2047

STORMWATER TREATMENT

TREAT. DESCRIPT.	SP	SMD
VOLUME TREAT., MG	62.9	62.9
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1110.5	1110.5
SUSP. SOLIDS, LBS.	12529.8	9049.3
BOD ₅ , LBS.	1740	818.8
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	58.5	58.5
SUSP. SOLIDS, LBS.	1392.2	4872.7
BOD ₅ , LBS.	307	1228.2
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.5	1.5
SUSP. SOLIDS mg/l	18.2	18.2
BOD ₅ mg/l	2.7	2.7
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	1.8	6.4
BOD ₅ mg/l	0.4	1.6

TOTAL CAPITAL COST (\$)	1,400,000	3,200,000
ANNUAL O&M COST (\$)	47,000	150,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	15969	15969
REMOVED, LBS.	14269.8	9868.1
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	15,700	52,600
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TREATMENT COST (¢/1000 gals)	9.5	24.7
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STORMWATER MANAGEMENT SUMMARY

GLOUCESTER HARBOR

TOWN ROCKPORT

URBAN DRAINAGE AREA

YEAR	2000
ACRES	20

TOTAL STORM RUNOFF VOL.

MIL. GAL.	0.5
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TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	4
SUSP. SOLIDS, LBS.	43
BOD ₅	6

STORMWATER TREATMENT

TREAT. DESCRIP.	NT
VOLUME TREAT., MG	-
% TREATED	-

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	-
SUSP. SOLIDS, LBS.	-
BOD ₅ , LBS.	-

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	4
SUSP. SOLIDS, LBS.	43
BOD ₅ , LBS.	6

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT	
SETT. SOLIDS mg/l	1.0
SUSP. SOLIDS mg/l	10.3
BOD ₅ mg/l	1.4
AFTER TREATMENT	
SETT. SOLIDS mg/l	1.0
SUSP. SOLIDS mg/l	10.3
BOD ₅ mg/l	1.4

TOTAL CAPITAL COST (\$)

-

ANNUAL O&M COST (\$)

-

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	49
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REMOVED, LBS.	-
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% REMOVED	-
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CAPITAL COSTS/% REMOVAL (\$)

-

TREATMENT COST (¢/1000 gals)

-

STORMWATER MANAGEMENT STUDY

IPSWICH RIVER BASIN

TOWN	ANDOVER	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	547	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	13.5	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	113	
SUSP. SOLIDS, LBS.	1358	
BOD ₅	200	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	9.2	9.2
% TREATED	68.2	68.2
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	107.4	107.4
SUSP. SOLIDS, LBS.	1222.2	882.7
BOD ₅ , LBS.	170	80
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	5.6	5.6
SUSP. SOLIDS, LBS.	135.8	475.3
BOD ₅ , LBS.	30	
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.0	1.0
SUSP. SOLIDS mg/l	12.1	12.1
BOD ₅ mg/l	1.8	1.8
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.05	0.05
SUSP. SOLIDS mg/l	1.2	4.2
BOD ₅ mg/l	0.3	1.1
TOTAL CAPITAL COST (\$)	325,000	1,250,000
ANNUAL O&M COST (\$)	7,000	20,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	1558	1558
REMOVED, LBS.	1392.2	962.7
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	3,600	20,200
TREATMENT COST (¢/1000 gals)	14.2	49.7

STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN	BEVERLY		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	1517		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	49.0		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	664		
SUSP. SOLIDS, LBS.	7889		
BOD ₅	1160		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	33.6	33.6	33.6
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	630.8	630.8	597.6
SUSP. SOLIDS, LBS.	7100.1	5127.8	3550
BOD ₅ , LBS.	986	464	232
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	33.2	33.2	66.4
SUSP. SOLIDS, LBS.	788.9	2761.2	4339
BOD ₅ , LBS.	174	696	928
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.6	1.6	1.6
SUSP. SOLIDS mg/l	19.3	19.3	19.3
BOD ₅ mg/l	2.8	2.8	2.8
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.08	0.08	0.2
SUSP. SOLIDS mg/l	1.9	6.8	10.6
BOD ₅ mg/l	0.4	1.7	2.3
TOTAL CAPITAL COST (\$)	875,000	2,250,000	5,000,000
ANNUAL O&M COST (\$)	25,000	80,000	250,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	9049	9049	9049
REMOVED, LBS.	8086.1	5591.8	3782
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	9,800	36,400	120,000
TREATMENT COST (¢/1000 gals)	10.8	29.2	76.6

STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN	BILLERICA	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	78	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	2.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	21	
SUSP. SOLIDS, LBS.	249	
BOD ₅	37	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		21
SUSP. SOLIDS, LBS.		249
BOD ₅ , LBS.		37
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.3
SUSP. SOLIDS mg/l		14.9
BOD ₅ mg/l		2.2
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.3
SUSP. SOLIDS mg/l		14.9
BOD ₅ mg/l		2.2
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		286
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT STUDY

IPSWICH RIVER BASIN

TOWN	BOXFORD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2524	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	67.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	498	
SUSP. SOLIDS, LBS.	5950	
BOD ₅	874	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	46.0	46.0
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	473.1	473.1
SUSP. SOLIDS, LBS.	5355	3867.5
BOD ₅ , LBS.	742.9	349.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	24.9	24.9
SUSP. SOLIDS, LBS.	595	2082.5
BOD ₅ , LBS.	131.1	524.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	0.9	0.9
SUSP. SOLIDS mg/l	10.6	10.6
BOD ₅ mg/l	1.6	1.6
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.04	0.04
SUSP. SOLIDS mg/l	1.1	3.7
BOD ₅ mg/l	0.2	0.9
TOTAL CAPITAL COST (\$)	1,125,000	2,750,000
ANNUAL O&M COST (\$)	35,000	110,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	6824	6824
REMOVED, LBS.	6097.9	4217.1
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	12,600	44,500
TREATMENT COST (¢/1000 gals)	10.2	26.8

STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN BURLINGTON

URBAN DRAINAGE AREA

YEAR	2000
ACRES	1782

TOTAL STORM RUNOFF VOL.	
MIL. GAL.	58.0

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	863
SUSP. SOLIDS, LBS.	10286
BOD ₅	1512

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	39.8	39.8
% TREATED	68.6	68.6

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	819.9	819.9
SUSP. SOLIDS, LBS.	9257.4	6685.9
BOD ₅ , LBS.	1285.2	604.8

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	43.1	43.1
SUSP. SOLIDS, LBS.	1028.6	3600.1
BOD ₅ , LBS.	226.8	907.2

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.8	1.8
SUSP. SOLIDS mg/l	21.3	21.3
BOD ₅ mg/l	3.1	3.1
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.1	7.4
BOD ₅ mg/l	0.5	1.9

TOTAL CAPITAL COST (\$)	1,050,000	2,500,000
ANNUAL O&M COST (\$)	30,000	100,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	11798	11798
REMOVED, LBS.	10542.8	7290.7
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	11,800	40,500
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TREATMENT COST (¢/1000 gals)	10.4	27.8
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STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN	DANVERS		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	924		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	31.4		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	681		
SUSP. SOLIDS, LBS.	8138		
BOD ₅	1198		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	21.5	21.5	21.5
% TREATED	68.5	68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	647	647	612.9
SUSP. SOLIDS, LBS.	7324.2	5289.7	3662.1
BOD ₅ , LBS.	1018.3	479.2	239.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	34	34	68.1
SUSP. SOLIDS, LBS.	813.8	2848.3	4475.9
BOD ₅ , LBS.	179.7	718.8	958.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.6	2.6	2.6
SUSP. SOLIDS mg/l	31.1	31.1	31.1
BOD ₅ mg/l	4.6	4.6	4.6
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.3
SUSP. SOLIDS mg/l	3.1	10.9	17.1
BOD ₅ mg/l	0.7	2.7	3.7
TOTAL CAPITAL COST (\$)	650,000	1,900,000	3,000,000
ANNUAL O&M COST (\$)	17,000	55,000	150,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	9336	9336	9336
REMOVED, LBS.	8342.5	5768.9	3901.7
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	7,300	30,700	72,000
TREATMENT COST (¢/1000 gals)	12.0	34.5	78.5

STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN	HAMILTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2368	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	68.3	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	706	
SUSP. SOLIDS, LBS.	8453	
BOD ₅	1243	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	46.8	46.8
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	670.7	670.7
SUSP. SOLIDS, LBS.	7607.7	5494.5
BOD ₅ , LBS.	1056.5	497.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	35.3	35.3
SUSP. SOLIDS, LBS.	845.3	2958.5
BOD ₅ , LBS.	186.5	745.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.2	1.2
SUSP. SOLIDS mg/l	14.8	14.8
BOD ₅ mg/l	2.2	2.2
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.5	5.2
BOD ₅ mg/l	0.3	1.3
TOTAL CAPITAL COST (\$)	1,125,000	2,750,000
ANNUAL O&M COST (\$)	35,000	110,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	9696	9696
REMOVED, LBS.	8664.2	5991.7
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	12,600	44,500
TREATMENT COST (¢/1000 gals)	10.2	26.8

STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN	IPSWICH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	3328	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	118.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1969	
SUSP. SOLIDS, LBS.	23508	
BOD ₅	3460	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	81.4	81.4
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1870.5	1870.5
SUSP. SOLIDS, LBS.	21157.2	15280.2
BOD ₅ , LBS.	2941	1384
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	98.5	98.5
SUSP. SOLIDS, LBS.	2350.8	8827.8
BOD ₅ , LBS.	519	2076
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	2.0	2.0
SUSP. SOLIDS mg/l	23.7	23.7
BOD ₅ mg/l	3.5	3.5
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.4	8.3
BOD ₅ mg/l	0.5	2.1
TOTAL CAPITAL COST (\$)	1,725,000	3,750,000
ANNUAL O&M COST (\$)	61,000	195,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	26968	26968
REMOVED, LBS.	24098.2	16664.2
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	19,300	60,700
TREATMENT COST (¢/1000 gals)	9.0	23.2

STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN LYNNFIELD

URBAN DRAINAGE AREA

YEAR	2000
ACRES	326

TOTAL STORM RUNOFF VOL.	
MIL. GAL.	8.6

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	75
SUSP. SOLIDS, LBS.	902
BOD ₅	133

STORMWATER TREATMENT

TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	5.9	5.9
% TREATED	-	68.6	68.6

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	-	71.2	71.2
SUSP. SOLIDS, LBS.	-	811.8	586.3
BOD ₅ , LBS.	-	113	53.2

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	75	3.8	3.8
SUSP. SOLIDS, LBS.	902	90.2	315.7
BOD ₅ , LBS.	133	20	79.8

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT

SETT. SOLIDS mg/l	1.0	1.0	1.0
SUSP. SOLIDS mg/l	12.6	12.6	12.6
BOD ₅ mg/l	1.9	1.9	1.9

AFTER TREATMENT

SETT. SOLIDS mg/l	1.0	0.05	0.05
SUSP. SOLIDS mg/l	12.6	1.3	4.4
BOD ₅ mg/l	1.9	0.3	1.1

TOTAL CAPITAL COST (\$)	-	225,000	1,025,000
ANNUAL O&M COST (\$)	-	5,000	15,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	1035	1035	1035
REMOVED, LBS.	-	924.8	639.5
% REMOVED	-	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	-	2,500	16,600
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TREATMENT COST (¢/1000 gals)	-	15.8	62.6
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STORMWATER MANAGEMENT STUDY
IPSWICH RIVER BASIN

TOWN	MIDDLETON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	4165	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	158.7	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	2726	
SUSP. SOLIDS, LBS.	32498	
BOD ₅	4783	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	108.8	108.8
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	2589.7	2589.7
SUSP. SOLIDS, LBS.	29248.2	21123.7
BOD ₅ , LBS.	4065.6	1913.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	136.3	136.3
SUSP. SOLIDS, LBS.	3249.8	11374.3
BOD ₅ , LBS.	717.4	2869.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	2.1	2.1
SUSP. SOLIDS mg/l	24.6	24.6
BOD ₅ mg/l	3.6	3.6
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.5	8.6
BOD ₅ mg/l	0.5	2.2
TOTAL CAPITAL COST (\$)	2,150,000	4,475,000
ANNUAL O&M COST (\$)	82,000	255,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	37281	37281
REMOVED, LBS.	33313.8	23036.9
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	24,000	72,400
TREATMENT COST (¢/1000 gals)	8.6	21.7

STORMWATER MANAGEMENT STUDY

IPSWICH RIVER BASIN

TOWN NORTH ANDOVER

URBAN DRAINAGE AREA

YEAR	2000
ACRES	734
TOTAL STORM RUNOFF VOL.	
MIL. GAL.	18.5
TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	155
SUSP. SOLIDS, LBS.	1868
BOD ₅	275

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	12.7	12.7
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	147.2	147.2
SUSP. SOLIDS, LBS.	1681.2	1214.2
BOD ₅ , LBS.	233.8	110
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	7.8	7.8
SUSP. SOLIDS, LBS.	186.8	653.8
BOD ₅ , LBS.	41.2	165
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.0	1.0
SUSP. SOLIDS mg/l	12.1	12.1
BOD ₅ mg/l	1.8	1.8
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.05	0.05
SUSP. SOLIDS mg/l	1.2	4.2
BOD ₅ mg/l	0.3	1.0

TOTAL CAPITAL COST (\$)	425,000	1,400,000
ANNUAL O&M COST (\$)	10,000	30,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	2143	2143
REMOVED, LBS.	1915	1324.2
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	4,800	22,700
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TREATMENT COST (¢/1000 gals)	13.7	42.7
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STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN NORTH READING

URBAN DRAINAGE AREA

YEAR	2000
ACRES	2906
TOTAL STORM RUNOFF VOL.	
MIL. GAL.	89.7
TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	1214
SUSP. SOLIDS, LBS.	14421
BOD ₅	2121

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	61.5	61.5
% TREATED	68.6	68.6

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	1153.3	1153.3
SUSP. SOLIDS, LBS.	12978.9	9373.6
BOD ₅ , LBS.	1802.8	848.4

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	60.7	60.7
SUSP. SOLIDS, LBS.	1442.1	5047.4
BOD ₅ , LBS.	318.2	1272.6

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.6	1.6
SUSP. SOLIDS mg/l	19.3	19.3
BOD ₅ mg/l	2.8	2.8
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	1.9	6.7
BOD ₅ mg/l	0.4	1.7

TOTAL CAPITAL COST (\$)	1,375,000	3,200,000
ANNUAL O&M COST (\$)	46,000	150,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	16542	16542
REMOVED, LBS.	14781.7	10222
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	15,400	52,600
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TREATMENT COST (¢/1000 gals)	9.6	24.8
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STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN	PEABODY		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	1286		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	34.2		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	450		
SUSP. SOLIDS, LBS.	5392		
BOD ₅	793		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	23.5	23.5	23.5
% TREATED	68.7	68.7	68.7
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	427.5	427.5	405
SUSP. SOLIDS, LBS.	4852.8	3504.8	2426.4
BOD ₅ , LBS.	674	317.2	158.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	22.5	22.5	45
SUSP. SOLIDS, LBS.	539.2	1887.2	2965.6
BOD ₅ , LBS.	119.0	475.8	634.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.6	1.6	1.6
SUSP. SOLIDS mg/l	18.9	18.9	18.9
BOD ₅ mg/l	2.8	2.8	2.8
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.08	0.08	0.2
SUSP. SOLIDS mg/l	1.9	6.6	10.4
BOD ₅ mg/l	0.4	1.7	2.2
TOTAL CAPITAL COST (\$)	700,000	1,950,000	3,500,000
ANNUAL O&M COST (\$)	18,000	55,000	175,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	6185	6185	6185
REMOVED, LBS.	5526.8	3822	2585
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	7,800	31,600	84,000
TREATMENT COST (¢/1000 gals)	11.9	34.0	75.4

STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN	READING	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1045	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	32.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	445	
SUSP. SOLIDS, LBS.	5311	
BOD ₅	780	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	22.0	22.0
% TREATED	68.8	68.8
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	422.8	422.8
SUSP. SOLIDS, LBS.	4779.9	3452.2
BOD ₅ , LBS.	663	312
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	22.2	22.2
SUSP. SOLIDS, LBS.	531.1	1858.8
BOD ₅ , LBS.	117	468
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	19.9	19.9
BOD ₅ mg/l	2.9	2.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	2.0	7.0
BOD ₅ mg/l	0.4	1.8
TOTAL CAPITAL COST (\$)	650,000	1,900,000
ANNUAL O&M COST (\$)	17,000	55,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	6091	6091
REMOVED, LBS.	5442.9	3764.2
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	7,300	30,700
TREATMENT COST (¢/1000 gals)	12.0	34.5

STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN TEWKSBURY

URBAN DRAINAGE AREA

YEAR	2000
ACRES	142
TOTAL STORM RUNOFF VOL.	
MIL. GAL.	3.8

TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	42
SUSP. SOLIDS, LBS.	509
BOD ₅	75

STORMWATER TREATMENT

TREAT. DESCRIP.	NT
VOLUME TREAT., MG	-
% TREATED	-

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	-
SUSP. SOLIDS, LBS.	-
BOD ₅ , LBS.	-

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	42
SUSP. SOLIDS, LBS.	509
BOD ₅ , LBS.	75

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT	
SETT. SOLIDS mg/l	1.3
SUSP. SOLIDS mg/l	16.1
BOD ₅ mg/l	2.4
AFTER TREATMENT	
SETT. SOLIDS mg/l	1.3
SUSP. SOLIDS mg/l	16.1
BOD ₅ mg/l	2.4

TOTAL CAPITAL COST (\$)

-

ANNUAL O&M COST (\$)

-

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	584
REMOVED, LBS.	-
% REMOVED	-

CAPITAL COSTS/% REMOVAL (\$)

-

TREATMENT COST (¢/1000 gals)

-

STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN	TOPSFIELD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	3017	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	80.5	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	752	
SUSP. SOLIDS, LBS.	7569	
BOD ₅	1114	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	55.2	55.2
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	714.4	714.4
SUSP. SOLIDS, LBS.	6812.1	4919.9
BOD ₅ , LBS.	946.9	445.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	37.6	37.6
SUSP. SOLIDS, LBS.	756.9	2649.1
BOD ₅ , LBS.	167.1	668.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.1	1.1
SUSP. SOLIDS mg/l	11.3	11.3
BOD ₅ mg/l	1.7	1.7
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.1	3.9
BOD ₅ mg/l	0.2	1.0
TOTAL CAPITAL COST (\$)	1,275,000	3,000,000
ANNUAL O&M COST (\$)	41,000	130,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	8683	8683
REMOVED, LBS.	7759	5365.5
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	14,300	48,500
TREATMENT COST (¢/1000 gals)	9.8	25.5

STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN	WENHAM	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1781	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	49.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	433	
SUSP. SOLIDS, LBS.	5174	
BOD ₅	761	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	34.1	34.1
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	411.4	411.4
SUSP. SOLIDS, LBS.	4656.6	3363.1
BOD ₅ , LBS.	646.8	304.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	21.6	21.6
SUSP. SOLIDS, LBS.	517.4	1810.9
BOD ₅ , LBS.	114.2	456.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.0	1.0
SUSP. SOLIDS mg/l	12.4	12.4
BOD ₅ mg/l	1.8	1.8
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.05	0.05
SUSP. SOLIDS mg/l	1.2	4.4
BOD ₅ mg/l	0.3	1.1
TOTAL CAPITAL COST (\$)	875,000	2,250,000
ANNUAL O&M COST (\$)	25,000	80,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	5935	5935
REMOVED, LBS.	5303.4	3667.5
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	9,800	36,400
TREATMENT COST (¢/1000 gals)	10.8	29.2

STORMWATER MANAGEMENT SUMMARY

IPSWICH RIVER BASIN

TOWN WILMINGTON

URBAN DRAINAGE AREA

YEAR 2000

ACRES 4797

TOTAL STORM RUNOFF VOL.

MIL. GAL. 181.5

TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS. 3756

SUSP. SOLIDS, LBS. 44554

BOD₅ 6550

STORMWATER TREATMENT

TREAT. DESCRIP.

SP

SMD

VOLUME TREAT., MG

124.5

124.5

% TREATED

68.6

68.6

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.

3568.2

3568.2

SUSP. SOLIDS, LBS.

40098.6

28960.1

BOD₅, LBS.

5567.5

2620

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.

187.8

187.8

SUSP. SOLIDS, LBS.

4455.4

15593.9

BOD₅, LBS.

982.5

3930

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT

SETT. SOLIDS mg/l

2.5

2.5

SUSP. SOLIDS mg/l

29.4

29.4

BOD₅ mg/l

4.3

4.3

AFTER TREATMENT

SETT. SOLIDS mg/l

0.1

0.1

SUSP. SOLIDS mg/l

2.9

10.3

BOD₅ mg/l

0.6

2.6

TOTAL CAPITAL COST (\$)

2,400,000 4,850,000

ANNUAL O&M COST (\$)

93,000 290,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.

51104

51104

REMOVED, LBS.

45,666.1

31580.1

% REMOVED

89.4

61.8

CAPITAL COSTS/% REMOVAL (\$)

26,800

78,500

TREATMENT COST (¢/1000 gals)

8.5

21.0

STORMWATER MANAGEMENT SUMMARY

CAPE ANN

LOCAL NO. 1

TOWN GLOUCESTER

URBAN DRAINAGE AREA

YEAR	2000
ACRES	830

TOTAL STORM RUNOFF VOL.	21.9
MIL. GAL.	

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	229
SUSP. SOLIDS, LBS.	2745
BOD ₅	404

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	15.0	15.0
% TREATED	68.5	68.5

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	217.5	217.5
SUSP. SOLIDS, LBS.	2470.5	1784.2
BOD ₅ , LBS.	343.4	161.6

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	11.5	11.5
SUSP. SOLIDS, LBS.	274.5	960.8
BOD ₅ , LBS.	60.6	242.4

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.3	1.3
SUSP. SOLIDS mg/l	15.0	15.0
BOD ₅ mg/l	2.2	2.2
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.5	5.3
BOD ₅ mg/l	0.3	1.3

TOTAL CAPITAL COST (\$)	500,000	11,000
ANNUAL O&M COST (\$)	1,500,000	35,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	3149	3149
REMOVED, LBS.	2813.9	1945.8
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	5,600	24,300
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TREATMENT COST (¢/1000 gals)	15.0	33.1
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STORMWATER MANAGEMENT SUMMARY

CAPE ANN

LOCAL NO. 1

TOWN	ROCKPORT	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1689	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	53.2	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	742	
SUSP. SOLIDS, LBS.	8856	
BOD ₅	1302	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	36.5	36.5
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	704.9	704.9
SUSP. SOLIDS, LBS.	7970.4	5756.4
BOD ₅ , LBS.	1106.7	520.8
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	37.1	37.1
SUSP. SOLIDS, LBS.	885.6	3099.6
BOD ₅ , LBS.	195.3	781.2
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	20.0	20.0
BOD ₅ mg/l	2.9	2.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	2.0	7.0
BOD ₅ mg/l	0.4	1.8
TOTAL CAPITAL COST (\$)	975,000	2,425,000
ANNUAL O&M COST (\$)	27,000	85,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	10158	10158
REMOVED, LBS.	9077.1	6277.2
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	10,900	39,200
TREATMENT COST (¢/1000 gals)	10.7	28.7

STORMWATER MANAGEMENT SUMMARY

MANCHESTER HARBOR AREA

LOCAL NO. 2

TOWN BEVERLY

URBAN DRAINAGE AREA

YEAR	2000
ACRES	625

TOTAL STORM RUNOFF VOL.	
MIL. GAL.	19.0

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	283
SUSP. SOLIDS, LBS.	3378
BOD ₅	497

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	13.0	13.0	13.0
% TREATED	68.4	68.4	68.4

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	268.8	268.8	254.7
SUSP. SOLIDS, LBS.	3040.2	2195.7	1520.1
BOD ₅ , LBS.	442.5	198.8	99.4

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	14.2	14.2	28.3
SUSP. SOLIDS, LBS.	337.8	1182.3	1857.9
BOD ₅ , LBS.	74.5	298.2	397.6

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT

SETT. SOLIDS mg/l	1.8	1.8	1.8
SUSP. SOLIDS mg/l	21.3	21.3	21.3
BOD ₅ mg/l	3.1	3.1	3.1

AFTER TREATMENT

SETT. SOLIDS mg/l	0.09	0.09	0.2
SUSP. SOLIDS mg/l	2.1	7.5	11.7
BOD ₅ mg/l	0.5	1.9	2.5

TOTAL CAPITAL COST (\$)	425,000	1,400,000	2,000,000
ANNUAL O&M COST (\$)	10,000	30,000	100,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	3875	3875	3875
REMOVED, LBS.	3462.7	2394.5	1619.5
% REMOVED	89.4	61.8	41.8

CAPITAL COSTS/% REMOVAL (\$)	4,800	22,700	48,000
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TREATMENT COST (¢/1000 gals)	13.7	14.7	80.4
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STORMWATER MANAGEMENT SUMMARY

MANCHESTER HARBOR AREA

LOCAL NO. 2

TOWN GLOUCESTER

URBAN DRAINAGE AREA

YEAR	2000
ACRES	337

TOTAL STORM RUNOFF VOL.

MIL. GAL.	9.2
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TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	119
SUSP. SOLIDS, LBS.	1421
BOD ₅	209

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	6.3	6.3
% TREATED	68.5	68.5

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	113.0	113.0
SUSP. SOLIDS, LBS.	1278.9	923.6
BOD ₅ , LBS.	177.6	83.6

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	6	6
SUSP. SOLIDS, LBS.	142.1	497.4
BOD ₅ , LBS.	31.4	125.4

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.6	1.6
SUSP. SOLIDS mg/l	18.5	18.5
BOD ₅ mg/l	2.7	2.7
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	1.9	6.5
BOD ₅ mg/l	0.4	1.6

TOTAL CAPITAL COST (\$)	250,000	1,050,000
ANNUAL O&M COST (\$)	5,000	14,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	1630	1630
REMOVED, LBS.	1456.5	1007.2
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	2,800	17,000
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TREATMENT COST (¢/1000 gals)	15.2	59.2
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STORMWATER MANAGEMENT SUMMARY

MANCHESTER HARBOR AREA

LOCAL NO. 2

TOWN	MANCHESTER		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	2980		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	78.4		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	589		
SUSP. SOLIDS, LBS.	7062		
BOD ₅	1038		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	53.7	53.7	53.7
% TREATED	68.5	68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	559.5	559.5	530.1
SUSP. SOLIDS, LBS.	6355.8	4590.3	3177.9
BOD ₅ , LBS.	882.3	415.2	207.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	29.5	29.5	58.9
SUSP. SOLIDS, LBS.	706.2	2471.7	3884.1
BOD ₅ , LBS.	155.7	622.8	830.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	0.9	0.9	0.9
SUSP. SOLIDS mg/l	10.8	10.8	10.8
BOD ₅ mg/l	1.6	1.6	1.6
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.05	0.05	0.1
SUSP. SOLIDS mg/l	1.1	3.8	5.9
BOD ₅ mg/l	0.2	1.0	1.3
TOTAL CAPITAL COST (\$)	1,250,000	2,900,000	8,000,000
ANNUAL O&M COST (\$)	39,000	125,000	400,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	8100	8100	8100
REMOVED, LBS.	7238.1	5005.5	3385.5
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	14,000	46,900	191,000
TREATMENT COST (¢/1000 gals)	9.8	25.7	75.0

STORMWATER MANAGEMENT SUMMARY

MANCHESTER HARBOF. ARFA

LOCAL NO. 2

TOWN	WENHAM	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	72	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	1.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	23	
SUSP. SOLIDS, LBS.	282	
BOD ₅	41	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	23	
SUSP. SOLIDS, LBS.	282	
BOD ₅ , LBS.	41	
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.5	
SUSP. SOLIDS mg/l	18.8	
BOD ₅ mg/l	2.7	
AFTER TREATMENT		
SETT. SOLIDS mg/l	1.5	
SUSP. SOLIDS mg/l	18.8	
BOD ₅ mg/l	2.7	
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	323	
REMOVED, LBS.	-	
% REMOVED	-	
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY
 MARBLEHEAD HARBOR - LYNN HARBOR AREA
 LOCAL NO. 3

TOWN	LYNN			
URBAN DRAINAGE AREA				
YEAR		2000		
ACRES		1739		
TOTAL STORM RUNOFF VOL.				
MIL. GAL.		64.7		
TOTAL STORMWATER POLLUTANTS				
SETT. SOLIDS, LBS.		1269		
SUSP. SOLIDS, LBS.		15085		
BOD ₅		2217		
STORMWATER TREATMENT				
TREAT. DESCRIP.		SP	SMD	MD
VOLUME TREAT., MG		44.4	44.4	44.4
% TREATED		68.6	68.6	68.6
POLLUTANT REMOVALS				
SETT. SOLIDS, LBS.		1205.5	1205.5	1142.1
SUSP. SOLIDS, LBS.		13576.5	9805.2	6788.2
BOD ₅ , LBS.		1884.5	886.8	443.4
POLLUTANTS DISCHARGED				
SETT. SOLIDS, LBS.		63.5	63.5	126.9
SUSP. SOLIDS, LBS.		1508.5	5279.8	8296.8
BOD ₅ , LBS.		332.5	1330.2	1773.6
AVG. POLLUTANT CONCENTRATIONS				
BEFORE TREATMENT				
SETT. SOLIDS mg/l		2.4	2.4	2.4
SUSP. SOLIDS mg/l		28.0	28.0	28.0
BOD ₅ mg/l		4.1	4.1	4.1
AFTER TREATMENT				
SETT. SOLIDS mg/l		0.1	0.1	0.2
SUSP. SOLIDS mg/l		2.8	9.8	15.4
BOD ₅ mg/l		0.6	2.5	3.3
TOTAL CAPITAL COST (\$)		1,100,000	2,650,000	6,500,000
ANNUAL O&M COST (\$)		33,000	105,000	325,000
SUSP. SOLIDS + BOD ₅				
BEFORE TREATMENT, LBS.		17302	17302	17302
REMOVED, LBS.		15461.0	10692.0	7231.6
% REMOVED		89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)		12,300	42,900	156,000
TREATMENT COST (¢/1000 gals)		10.2	27.0	75.7

STORMWATER MANAGEMENT SUMMARY
MARBLEHEAD HARBOR - LYNN HARBOR AREA

LOCAL NO. 3

TOWN	MARBLEHEAD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1219	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	36.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	493	
SUSP. SOLIDS, LBS.	5890	
BOD ₅	866	
STORMWATER TREATMENT		
TREAT. DESCIP.	SP	SMD
VOLUME TREAT., MG	25.3	25.3
% TREATED	68.7	68.7
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	468.4	468.4
SUSP. SOLIDS, LBS.	5301	3828.5
BOD ₅ , LBS.	736.1	346.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	24.6	24.6
SUSP. SOLIDS, LBS.	589	2061.5
BOD ₅ , LBS.	129.9	519.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.6	1.6
SUSP. SOLIDS mg/l	19.2	19.2
BOD ₅ mg/l	2.8	2.8
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	1.9	6.7
BOD ₅ mg/l	0.4	1.7
TOTAL CAPITAL COST (\$)	740,000	2,050,000
ANNUAL O&M COST (\$)	19,000	60,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	6756	6756
REMOVED, LBS.	6037.1	4174.9
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	8,300	33,200
TREATMENT COST (¢/1000 gals)	11.7	33.6

STORMWATER MANAGEMENT SUMMARY
MARBLEHEAD HARBOR - LYNN HARBOR AREA

LOCAL NO. 3

TOWN	NAHANT	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	417	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	12.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	183	
SUSP. SOLIDS, LBS.	2192	
BOD ₅	322	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	8.8	8.8
% TREATED	68.7	68.7
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	173.8	173.8
SUSP. SOLIDS, LBS.	1972.8	1424.8
BOD ₅ , LBS.	273.7	128.8
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	9.2	9.2
SUSP. SOLIDS, LBS.	219.2	767.2
BOD ₅ , LBS.	48.3	193.2
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	20.5	20.5
BOD ₅ mg/l	3.0	3.0
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.1	7.2
BOD ₅ mg/l	0.5	1.8
TOTAL CAPITAL COST (\$)	325,000	1,250,000
ANNUAL O&M COST (\$)	7,000	24,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	2514	2514
REMOVED, LBS.	2246.5	1553.6
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	3,600	20,200
TREATMENT COST (¢/1000 gals)	14.3	53.8

STORMWATER MANAGEMENT SUMMARY

MARBLEHEAD HARBOR - LYNN HARBOR AREA

LOCAL NO. 3

TOWN	SWAMPSCOTT	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1023	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	34.9	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	648	
SUSP. SOLIDS, LBS.	7715	
BOD ₅	1134	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	23.9	23.9
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	615.6	615.6
SUSP. SOLIDS, LBS.	6943.5	5014.8
BOD ₅ , LBS.	963.9	453.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	32.4	32.4
SUSP. SOLIDS, LBS.	771.5	2700.2
BOD ₅ , LBS.	170.1	680.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	2.2	2.2
SUSP. SOLIDS mg/l	26.5	26.5
BOD ₅ mg/l	3.9	3.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.7	9.3
BOD ₅ mg/l	0.6	2.3
TOTAL CAPITAL COST (\$)	700,000	1,950,000
ANNUAL O&M COST (\$)	18,000	55,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	8849	8849
REMOVED, LBS.	7907.4	5468.4
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	7,800	31,600
TREATMENT COST (¢/1000 gals)	11.9	33.8

STORMWATER MANAGEMENT SUMMARY

BOSTON HARBOR

LOCAL NO. 4

TOWN	REVERE		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		339	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		13.2	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		283	
SUSP. SOLIDS, LBS.		3361	
BOD ₅		494	
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		9.0	9.0
% TREATED		68.2	68.2
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		268.8	268.8
SUSP. SOLIDS, LBS.		3024.9	2184.6
BOD ₅ , LBS.		419.9	197.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		14.2	14.2
SUSP. SOLIDS, LBS.		336.1	1176.4
BOD ₅ , LBS.		74.1	296.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		2.6	2.6
SUSP. SOLIDS mg/l		30.5	30.5
BOD ₅ mg/l		4.5	4.5
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.1	0.1
SUSP. SOLIDS mg/l		3.1	10.7
BOD ₅ mg/l		0.7	2.7
TOTAL CAPITAL COST (\$)		325,000	1,250,000
ANNUAL O&M COST (\$)		7,000	24,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		3855	3855
REMOVED, LBS.		3444.8	2382.2
% REMOVED		89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)		3,600	20,200
TREATMENT COST (¢/1000 gals)		14.3	52.6

STORMWATER MANAGEMENT SUMMARY

BOSTON HARBOR

LOCAL NO. 4

TOWN	WINTHROP		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	476		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	18.0		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	363		
SUSP. SOLIDS, LBS.	4328		
BOD ₅	637		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	12.3	12.3	12.3
% TREATED	68.3	68.3	68.3
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	344.8	344.8	326.7
SUSP. SOLIDS, LBS.	3895.2	2813.2	1947.6
BOD ₅ , LBS.	541.5	254.8	127.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	18.2	18.2	36.3
SUSP. SOLIDS, LBS.	432.8	1514.8	2380.4
BOD ₅ , LBS.	95.5	382.2	509.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.4	2.4	2.4
SUSP. SOLIDS mg/l	28.8	28.8	28.8
BOD ₅ mg/l	4.2	4.2	4.2
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.9	10.1	15.9
BOD ₅ mg/l	0.6	2.5	3.4
TOTAL CAPITAL COST (\$)	400,000	1,400,000	1,750,000
ANNUAL O&M COST (\$)	9,000	30,000	88,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	4965	4965	4965
REMOVED, LBS.	4436.7	3068	2075
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	4,500	22,700	42,000
TREATMENT COST (¢/1000 gals)	13.7	44.1	80.9

STORMWATER MANAGEMENT SUMMARY

QUINCY BAY

LOCAL NO. 6

TOWN MILTON

URBAN DRAINAGE AREA

YEAR	2000
ACRES	222
TOTAL STORM RUNOFF VOL. MIL. GAL.	6.3
TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	82
SUSP. SOLIDS, LBS.	983
BOD ₅	144

STORMWATER TREATMENT

TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	4.3	4.3
% TREATED	-	68.3	68.3

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	-	77.9	77.9
SUSP. SOLIDS, LBS.	-	884.7	639
BOD ₅ , LBS.	-	122.4	57.6

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	82	4.1	4.1
SUSP. SOLIDS, LBS.	983	98.3	344
BOD ₅ , LBS.	144	21.6	86.4

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.6	1.6	1.6
SUSP. SOLIDS mg/l	18.7	18.7	18.7
BOD ₅ mg/l	2.7	2.7	2.7
AFTER TREATMENT			
SETT. SOLIDS mg/l	1.6	0.08	0.08
SUSP. SOLIDS mg/l	18.7	1.9	6.5
BOD ₅ mg/l	2.7	0.4	1.6

TOTAL CAPITAL COST (\$)

- 200,000 900,000

ANNUAL O&M COST (\$)

- 5,000 10,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	1127	1127	1127
REMOVED, LBS.	-	1007.1	696.6
% REMOVED	-	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)

- 2,200 14,600

TREATMENT COST (¢/1000 gals)

- 16.5 72.5

STORMWATER MANAGEMENT SUMMARY

QUINCY BAY

LOCAL NO. 6

TOWN	QUINCY		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	1802		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	62.1		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	1293		
SUSP. SOLIDS, LBS.	15413		
BOD ₅	2266		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	42.0	42.6	42.6
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	1228.4	1228.4	1163.7
SUSP. SOLIDS, LBS.	13871.7	10018.5	6935.8
BOD ₅ , LBS.	1926.1	906.4	453.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	64.6	64.6	129.3
SUSP. SOLIDS, LBS.	1541.3	5394.5	8477.2
BOD ₅ , LBS.	339.9	1359.6	1812.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.5	2.5	2.5
SUSP. SOLIDS mg/l	29.8	29.8	29.8
BOD ₅ mg/l	4.4	4.4	4.4
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	3.0	10.4	16.4
BOD ₅ mg/l	0.7	2.6	3.5
TOTAL CAPITAL COST (\$)	1,040,000	2,525,000	6,000,000
ANNUAL O&M COST (\$)	31,000	100,000	300,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	17679	17679	17679
REMOVED, LBS.	15797.8	10924.9	7389
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	11,600	40,900	144,000
TREATMENT COST (¢/1000 gals)	10.2	27.3	75.8

STORMWATER MANAGEMENT SUMMARY

HINGHAM-HULL BAY LOCAL NO. 7

TOWN COHASSET

URBAN DRAINAGE AREA

YEAR	2000
ACRES	433

TOTAL STORM RUNOFF VOL.

MIL. GAL.	12.3
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TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	122
SUSP. SOLIDS, LBS.	1462
BOD ₅	215

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	8.4	8.4
% TREATED	68.3	68.3

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	115.9	115.9
SUSP. SOLIDS, LBS.	1315.8	950.3
BOD ₅ , LBS.	182.8	86

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	6.1	6.1
SUSP. SOLIDS, LBS.	146.2	511.7
BOD ₅ , LBS.	32.2	129

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.2	1.2
SUSP. SOLIDS mg/l	14.3	14.3
BOD ₅ mg/l	2.1	2.1
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.4	5.0
BOD ₅ mg/l	0.3	1.3

TOTAL CAPITAL COST (\$)

290,000	1,200,000
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ANNUAL O&M COST (\$)

6,000	18,000
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SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	1677	1677
REMOVED, LBS.	1498.6	1036.3
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)

3,200	19,400
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TREATMENT COST (¢/1000 gals)

14.3	51.7
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STORMWATER MANAGEMENT SUMMARY

HINGHAM HARBOR - HULL BAY

LOCAL NO. 7

TOWN	HINGHAM	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	4000	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	119.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1601	
SUSP. SOLIDS, LBS.	19089	
BOD ₅	2807	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	81.7	81.7
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1521	1521
SUSP. SOLIDS, LBS.	17180.1	12407.8
BOD ₅ , LBS.	2386	1122.8
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	80	80
SUSP. SOLIDS, LBS.	1908.9	6681.2
BOD ₅ , LBS.	421	1684.2
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.6	1.6
SUSP. SOLIDS mg/l	19.2	19.2
BOD ₅ mg/l	2.8	2.8
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	1.9	6.7
BOD ₅ mg/l	0.4	1.7
TOTAL CAPITAL COST (\$)	1,725,000	3,750,000
ANNUAL O&M COST (\$)	61,000	195,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	21896	21896
REMOVED, LBS.	19566.1	13530.6
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	19,300	60,700
TREATMENT COST (¢/1000 gals)	9.0	23.2

STORMWATER MANAGEMENT SUMMARY
HINGHAM HARBOR-HULL BAY LOCAN NO. 7

TOWN	HULL		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		904	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		29.6	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		661	
SUSP. SOLIDS, LBS.		7896	
BOD ₅		1161	
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		20.3	20.3
% TREATED		68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		628	628
SUSP. SOLIDS, LBS.		7106.4	5132.4
BOD ₅ , LBS.		986.8	464.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		33	33
SUSP. SOLIDS, LBS.		789.6	2763.6
BOD ₅ , LBS.		174.2	696.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		2.7	2.7
SUSP. SOLIDS mg/l		32.0	32.0
BOD ₅ mg/l		4.7	4.7
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.1	0.1
SUSP. SOLIDS mg/l		3.2	11.2
BOD ₅ mg/l		0.7	2.8
TOTAL CAPITAL COST (\$)		635,000	1,850,000
ANNUAL O&M COST (\$)		16,000	55,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		9057	9057
REMOVED, LBS.		8093.2	5596.8
% REMOVED		89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)		7,100	29,900
TREATMENT COST (¢/1000 gals)		14.8	38.2

STORMWATER MANAGEMENT SUMMARY

HINGHAM HARBOR - HULL BAY

LOCAL NO. 7

TOWN	NORWELL		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	174		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	5.7		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	72		
SUSP. SOLIDS, LBS.	856		
BOD ₅	126		
STORMWATER TREATMENT			
TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	3.9	3.9
% TREATED	-	68.4	68.4
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	-	68.4	68.4
SUSP. SOLIDS, LBS.	-	770.4	556.4
BOD ₅ , LBS.	-	107.1	50.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	72	3.6	3.6
SUSP. SOLIDS, LBS.	856	85.6	299.6
BOD ₅ , LBS.	126	18.9	75.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.5	1.5	1.5
SUSP. SOLIDS mg/l	18.0	18.0	18.0
BOD ₅ mg/l	2.7	2.7	2.7
AFTER TREATMENT			
SETT. SOLIDS mg/l	1.5	0.08	0.08
SUSP. SOLIDS mg/l	18.0	1.8	6.3
BOD ₅ mg/l	1.5	0.4	1.6
TOTAL CAPITAL COST (\$)	-	190,000	800,000
ANNUAL O&M COST (\$)	-	4,000	10,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	982	982	982
REMOVED, LBS.	-	877.5	606.8
% REMOVED	-	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	-	2,100	12,900
TREATMENT COST (¢/1000 gals)	-	20.4	72.2

STORMWATER MANAGEMENT SUMMARY

HINGHAM HARBOR - HULL BAY

LOCAL NO. 7

TOWN	ROCKLAND	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	107	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	2.3	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	21	
SUSP. SOLIDS, LBS.	258	
BOD ₅	38	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	21	
SUSP. SOLIDS, LBS.	258	
BOD ₅ , LBS.	38	
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.1	
SUSP. SOLIDS mg/l	13.5	
BOD ₅ mg/l	2.0	
AFTER TREATMENT		
SETT. SOLIDS mg/l	1.1	
SUSP. SOLIDS mg/l	13.5	
BOD ₅ mg/l	2.0	
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	296	
REMOVED, LBS.	-	
% REMOVED	-	
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

HINGHAM HARBOR - HULL BAY

LOCAL NO. 7

TOWN	WEYMOUTH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	274	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	7.7	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	88	
SUSP. SOLIDS, LBS.	1053	
BOD ₅	155	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	5.3	5.3
% TREATED	68.8	68.8
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	83.6	83.6
SUSP. SOLIDS, LBS.	947.7	684.5
BOD ₅ , LBS.	131.8	62
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	4.4	4.4
SUSP. SOLIDS, LBS.	105.3	368.5
BOD ₅ , LBS.	23.2	93
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.4	1.4
SUSP. SOLIDS mg/l	16.4	16.4
BOD ₅ mg/l	2.4	2.4
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.07	0.07
SUSP. SOLIDS mg/l	1.6	5.7
BOD ₅ mg/l	0.4	1.4
TOTAL CAPITAL COST (\$)	200,000	950,000
ANNUAL O&M COST (\$)	5,000	11,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	1208	1208
REMOVED, LBS.	1079.5	746.5
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	2,200	15,400
TREATMENT COST (¢/1000 gals)	16.5	62.4

STORMWATER MANAGEMENT SUMMARY
 COHASSET HARBOR - SCITUATE HARBOR
 LOCAL NO. 8

TOWN	COHASSET	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2633	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	73.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	657	
SUSP. SOLIDS, LBS.	7871	
BOD ₅	1158	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	50.1	50.1
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	624.2	624.2
SUSP. SOLIDS, LBS.	7083.9	5116.2
BOD ₅ , LBS.	984.3	463.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	32.8	32.8
SUSP. SOLIDS, LBS.	787.1	2754.8
BOD ₅ , LBS.	173.7	694.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.1	1.1
SUSP. SOLIDS mg/l	12.9	12.9
BOD ₅ mg/l	1.9	1.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.05	0.05
SUSP. SOLIDS mg/l	1.3	4.5
BOD ₅ mg/l	0.3	1.1
TOTAL CAPITAL COST (\$)	1,200,000	2,800,000
ANNUAL O&M COST (\$)	38,000	115,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	9029	9029
REMOVED, LBS.	8068.2	5579.4
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	13,400	45,300
TREATMENT COST (¢/1000 gals)	10.0	26.2

STORMWATER MANAGEMENT SUMMARY
 COHASSET HARBOR - SCITUATE HARBOR
 LOCAL NO. 8

TOWN	NORWELL		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	170		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	5.6		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	71		
SUSP. SOLIDS, LBS.	844		
BOD ₅	124		
STORMWATER TREATMENT			
TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	3.8	3.8
% TREATED	-	67.9	67.9
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	-	67.5	67.5
SUSP. SOLIDS, LBS.	-	759.6	548.6
BOD ₅ , LBS.	-	105.4	49.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	71	3.5	3.5
SUSP. SOLIDS, LBS.	844	84.4	295.4
BOD ₅ , LBS.	124	18.6	74.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	0.8	0.8	0.8
SUSP. SOLIDS mg/l	9.0	9.0	9.0
BOD ₅ mg/l	1.3	1.3	1.3
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.8	0.04	0.04
SUSP. SOLIDS mg/l	9.0	0.9	3.2
BOD ₅ mg/l	1.3	0.2	0.8
TOTAL CAPITAL COST (\$)	-	190,000	800,000
ANNUAL O&M COST (\$)	-	4,000	10,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	968	968	968
REMOVED, LBS.	-	865	598.2
% REMOVED	-	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	-	2,100	12,900
TREATMENT COST (¢/1000 gals)	-	20.4	72.2

STORMWATER MANAGEMENT SUMMARY
COHASSET HARBOR - SCITUATE HARBOR
LOCAL NO. 8

TOWN	SCITUATE		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		493E	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		131.7	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		1042	
SUSP. SOLIDS, LBS.		12491	
BOD ₅		1836	
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		90.3	90.3
% TREATED		68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		989.9	989.9
SUSP. SOLIDS, LBS.		11241.9	8119.2
BOD ₅ , LBS.		1560.6	734.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		52.1	52.1
SUSP. SOLIDS, LBS.		1249.1	4371.8
BOD ₅ , LBS.		275.4	1101.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		0.9	0.9
SUSP. SOLIDS mg/l		11.4	11.4
BOD ₅ mg/l		1.7	1.7
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.05	0.05
SUSP. SOLIDS mg/l		1.1	4.0
BOD ₅ mg/l		0.3	1.0
TOTAL CAPITAL COST (\$)		1,875,000	4,000,000
ANNUAL O&M COST (\$)		68,000	210,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		14327	14327
REMOVED, LBS.		12802.5	8853.6
% REMOVED		89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)		21,000	64,700
TREATMENT COST (¢/1000 gals)		8.8	22.7

STORMWATER MANAGEMENT SUMMARY

GREEN HARBOR - DUXBURY BAY

LOCAL NO. 9

TOWN	DUXBURY	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	3817	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	104.4	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	940	
SUSP. SOLIDS, LBS.	11,252	
BOD ₅	1,655	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	71.6	71.6
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	893	893
SUSP. SOLIDS, LBS.	10,126.8	7,313.8
BOD ₅ , LBS.	1,406.8	662
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	47	47
SUSP. SOLIDS, LBS.	1,125.2	3,938.2
BOD ₅ , LBS.	248.2	993
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.1	1.1
SUSP. SOLIDS mg/l	12.9	12.9
BOD ₅ mg/l	1.9	1.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.05	0.05
SUSP. SOLIDS mg/l	1.3	4.5
BOD ₅ mg/l	0.3	1.1
TOTAL CAPITAL COST (\$)	1,500,000	3,400,000
ANNUAL O&M COST (\$)	52,000	165,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	12,907	12,970
REMOVED, LBS.	11,533.6	7,975.8
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	16,800	55,000
TREATMENT COST (¢/1000 gals)	9.2	24.0

STORMWATER MANAGEMENT SUMMARY

GREEN HARBOR - DUXBURY BAY

LOCAL NO. 9

TOWN	MARSHFIELD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1218	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	37.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	589	
SUSP. SOLIDS, LBS.	5903	
BOD ₅	869	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	25.4	25.4
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	559.6	559.6
SUSP. SOLIDS, LBS.	5,312.7	3837
BOD ₅ , LBS.	738.6	347.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	29.4	29.4
SUSP. SOLIDS, LBS.	590.3	2066
BOD ₅ , LBS.	130.4	521.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.9	1.9
SUSP. SOLIDS mg/l	19.1	19.1
BOD ₅ mg/l	2.8	2.8
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	1.9	6.7
BOD ₅ mg/l	0.4	1.7
TOTAL CAPITAL COST (\$)	750,000	2,000,000
ANNUAL O&M COST (\$)	19,000	60,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	6772	6772
REMOVED, LBS.	6051.3	4184.6
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	8,400	32,000
TREATMENT COST (¢/1000 gals)	11.7	33.0

STORMWATER MANAGEMENT SUMMARY

GREEN HARBOR - DUXBURY BAY

LOCAL NO. 9

TOWN	PEMBROKE		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	317		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	7.9		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	52		
SUSP. SOLIDS, LBS.	625		
BOD ₅	92		
STORMWATER TREATMENT			
TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	5.4	5.4
% TREATED	-	68.4	68.4
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	-	49.4	49.4
SUSP. SOLIDS, LBS.	-	562.5	406.2
BOD ₅ , LBS.	-	78.2	36.8
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	52	2.6	21.6
SUSP. SOLIDS, LBS.	625	625	218.8
BOD ₅ , LBS.	92	13.8	55.2
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	0.8	0.8	0.8
SUSP. SOLIDS mg/l	9.5	9.5	9.5
BOD ₅ mg/l	1.4	1.4	1.4
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.8	0.8	0.8
SUSP. SOLIDS mg/l	9.5	0.9	3.3
BOD ₅ mg/l	1.4	0.2	0.8
TOTAL CAPITAL COST (\$)	-	200,000	1,000,000
ANNUAL O&M COST (\$)	-	5,000	15,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	717	717	717
REMOVED, LBS.	-	640.7	443.0
% REMOVED	-	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	-	2,200	16,200
TREATMENT COST (¢/1000 gals)	-	19.5	67.0

STORMWATER MANAGEMENT SUMMARY

MERRIMACK RIVER BASIN

TOWN	BOXFORD		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		175	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		4.3	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		27	
SUSP. SOLIDS, LBS.		324	
BOD ₅		48	
STORMWATER TREATMENT			
TREAT. DESCRIP.		NT	SP
VOLUME TREAT., MG		-	2.9
% TREATED		-	67.4
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		-	25.7
SUSP. SOLIDS, LBS.		-	291.6
BOD ₅ , LBS.		-	40.8
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		27	1.3
SUSP. SOLIDS, LBS.		324	32.4
BOD ₅ , LBS.		48	7.2
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		0.8	0.8
SUSP. SOLIDS mg/l		9.0	9.0
BOD ₅ mg/l		1.3	1.3
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.8	0.04
SUSP. SOLIDS mg/l		9.0	0.9
BOD ₅ mg/l		1.3	0.2
TOTAL CAPITAL COST (\$)		-	150,000
ANNUAL O&M COST (\$)		-	3,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		372	372
REMOVED, LBS.		-	332.4
% REMOVED		-	89.4
CAPITAL COSTS/% REMOVAL (\$)		-	1,700
TREATMENT COST (¢/1000 gals)		-	20.0

STORMWATER MANAGEMENT SUMMARY

MERRIMACK RIVER BASIN

TOWN	CHELMSFORD		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	1088		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	28.5		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	321		
SUSP. SOLIDS, LBS.	3845		
BOD ₅	565		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	19.6	19.6	19.6
% TREATED	68.8	68.8	68.8
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	305	305	288.9
SUSP. SOLIDS, LBS.	3,460.5	2,499.2	1,730.2
BOD ₅ , LBS.	480.2	226	113
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	16	16	32.1
SUSP. SOLIDS, LBS.	384.5	1,345.8	2,114.8
BOD ₅ , LBS.	84.8	339	452
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.4	1.4	1.4
SUSP. SOLIDS mg/l	16.2	16.2	16.2
BOD ₅ mg/l	2.4	2.4	2.4
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.07	0.07	0.1
SUSP. SOLIDS mg/l	1.6	5.7	8.9
BOD ₅ mg/l	0.4	1.4	1.9
TOTAL CAPITAL COST (\$)	625,000	1,800,000	3,000,000
ANNUAL O&M COST (\$)	15,000	50,000	150,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	4,410	4,410	4,410
REMOVED, LBS.	3,940.7	2,725.2	1,843.2
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	7,000	29,100	72,000
TREATMENT COST (¢/1000 gals)	12.5	38.0	78.5

STORMWATER MANAGEMENT SUMMARY

MERRIMACK RIVER BASIN

TOWN	TEWKSBURY	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	940	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	31.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	516	
SUSP. SOLIDS, LBS.	6118	
BOD ₅	900	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	21.8	21.8
& TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	490.2	490.2
SUSP. SOLIDS, LBS.	5,406.2	3,976.7
BOD ₅ , LBS.	765	360
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	25.8	25.8
SUSP. SOLIDS, LBS.	611.8	2,141.3
BOD ₅ , LBS.	135	540
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.9	1.9
SUSP. SOLIDS mg/l	23.1	23.1
BOD ₅ mg/l	3.4	3.4
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.3	8.1
BOD ₅ mg/l	0.5	2.0
TOTAL CAPITAL COST (\$)	650,000	1,900,000
ANNUAL O&M COST (\$)	17,000	55,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	7,018	7,018
REMOVED, LBS.	6,271.2	4336.7
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	7,300	30,700
TREATMENT COST (¢/1000 gals)	12.0	34.5

STORMWATER MANAGEMENT SUMMARY

MERRIMACK RIVER BASIN

TOWN	WESTFORD	
URBAN DRAINAGE AREA		
YEAR		2000
ACRES		42
TOTAL STORM RUNOFF VOL.		
MIL. GAL.		0.8
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.		9
SUSP. SOLIDS, LBS.		108
BOD ₅		16
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		9
SUSP. SOLIDS, LBS.		108
BOD ₅ , LBS.		16
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.3
SUSP. SOLIDS mg/l		16.2
BOD ₅ mg/l		2.4
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.3
SUSP. SOLIDS mg/l		16.2
BOD ₅ mg/l		2.4
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		124
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN ARLINGTON

URBAN DRAINAGE AREA

YEAR	2000
ACRES	2319
TOTAL STORM RUNOFF VOL.	
MIL. GAL.	79.6

TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	1493
SUSP. SOLIDS, LBS.	17,817
BOD ₅	2619

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	54.6	54.6	54.6
% TREATED	68.6	68.6	68.6

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	1418.4	1418.4	1343.7
SUSP. SOLIDS, LBS.	16035.3	11,581.1	8,017.7
BOD ₅ , LBS.	2226.1	1047.6	523.8

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	74.6	74.6	149.3
SUSP. SOLIDS, LBS.	1781.7	6235.9	9799.3
BOD ₅ , LBS.	392.9	1571.4	2095.2

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.2	2.2	2.2
SUSP. SOLIDS mg/l	26.8	26.8	26.8
BOD ₅ mg/l	3.9	3.9	3.9
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.7	9.4	14.8
BOD ₅ mg/l	0.6	2.4	3.2

TOTAL CAPITAL COST (\$)	1,275,000	3,000,000	8,000,000
ANNUAL O&M COST (\$)	41,000	130,000	400,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	20,436	20,436	20,436
REMOVED, LBS.	18,261.4	12,628.7	8541.5
% REMOVED	89.4	61.8	41.8

CAPITAL COSTS/% REMOVAL (\$)	14,300	48,500	191,000
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TREATMENT COST (¢/1000 gals)	9.8	25.5	75.0
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STORMWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN	BELMONT		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	1350		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	44.4		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	980		
SUSP. SOLIDS, LBS.	11,700		
BOD ₅	1721		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	30.5	30.5	30.5
% TREATED	68.7	68.7	68.7
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	931	931	882
SUSP. SOLIDS, LBS.	10530	7605	5265
BOD ₅ , LBS.	1462.9	688.4	344.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	49	49	98
SUSP. SOLIDS, LBS.	1170	4095	6435
BOD ₅ , LBS.	258.1	1032.6	1376.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.6	2.6	2.6
SUSP. SOLIDS mg/l	31.6	31.6	31.6
BOD ₅ mg/l	4.6	4.6	4.6
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.3
SUSP. SOLIDS mg/l	3.2	11.1	17.4
BOD ₅ mg/l	0.7	2.8	3.7
TOTAL CAPITAL COST (\$)	850,000	2,200,000	4,500,000
ANNUAL O&M COST (\$)	23,000	70,000	225,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	13,421	13,421	13,421
REMOVED, LBS.	11,992.9	8,293.4	5,609.2
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	9,500	34,600	108,000
TREATMENT COST (¢/1000 gals)	11.2	30.8	77.0

STORMWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN	BURLINGTON		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	615		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	20.1		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	308		
SUSP. SOLIDS, LBS.	3647		
BOD ₅	536		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	13.8	13.8	13.8
% TREATED	68.7	68.7	68.7
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	292.6	292.6	277.2
SUSP. SOLIDS, LBS.	3,282.3	2,370.5	1,641.1
BOD ₅ , LBS.	455.6	214.4	107.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	15.4	15.4	30.8
SUSP. SOLIDS, LBS.	364.7	1,276.5	2,009.9
BOD ₅ , LBS.	80.4	321.6	428.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.8	1.8	1.8
SUSP. SOLIDS mg/l	21.8	21.8	21.8
BOD ₅ mg/l	3.2	3.2	3.2
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.09	0.09	0.2
SUSP. SOLIDS mg/l	2.2	7.6	12.0
BOD ₅ mg/l	0.5	1.9	2.6
TOTAL CAPITAL COST (\$)	480,000	1,500,000	2,000,000
ANNUAL O&M COST (\$)	10,000	35,000	100,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	4,183	4,183	4,183
REMOVED, LBS.	3,737.9	2,584.9	1,748.3
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	5,400	24,300	48,000
TREATMENT COST (¢/1000 gals)	13.5	43.0	83.0

STORMWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN	EVERETT		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	970		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	39.7		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	682		
SUSP. SOLIDS, LBS.	7997		
BOD ₅	1175		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	27.2	27.2	27.2
% TREATED	68.5	68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	647.9	647.9	613.8
SUSP. SOLIDS, LBS.	7197.3	5198	3598.6
BOD ₅ , LBS.	998.7	470	235
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	34.1	34.1	68.2
SUSP. SOLIDS, LBS.	799.7	2799	4398.4
BOD ₅ , LBS.	176.3	705	940
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.1	2.1	2.1
SUSP. SOLIDS mg/l	24.2	24.2	24.2
BOD ₅ mg/l	3.5	3.5	3.5
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.4	8.5	13.2
BOD ₅ mg/l	0.5	2.1	2.8
TOTAL CAPITAL COST (\$)	750,000	2,100,000	4,000,000
ANNUAL O&M COST (\$)	20,000	65,000	200,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	9172	9172	9172
REMOVED, LBS.	8196	5668	3833.6
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	8,400	34,000	96,000
TREATMENT COST (¢/1000 gals)	11.5	32.3	77.3

WASTEWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN LEXINGTON

URBAN DRAINAGE AREA

YEAR	2000
ACRES	1825
TOTAL STORM RUNOFF VOL. MIL. GAL.	50.0

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	592
SUSP. SOLIDS, LBS.	7088
BOD ₅	1042

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	34.2	34.2	34.2
% TREATED	68.4	68.4	68.4

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	562.4	562.4	532.8
SUSP. SOLIDS, LBS.	6379.2	4607.2	3189.6
BOD ₅ , LBS.	885.7	416.8	208.4

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	29.6	29.6	59.2
SUSP. SOLIDS, LBS.	708.8	2480.8	3898.4
BOD ₅ , LBS.	156.3	625.2	833.6

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.4	1.4	1.4
SUSP. SOLIDS mg/l	17.0	17.0	17.0
BOD ₅ mg/l	2.5	2.5	2.5
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.07	0.07	0.1
SUSP. SOLIDS mg/l	1.7	5.9	8.2
BOD ₅ mg/l	0.4	1.5	2.0

TOTAL CAPITAL COST (\$)	875,000	2,250,000	5,000,000
ANNUAL O&M COST (\$)	25,000	80,000	250,000

SUSP. SOLIDS + BOD ₅ BEFORE TREATMENT, LBS.	8,130	8,130	8,130
REMOVED, LBS.	7,264.9	5,024.0	3398.0
% REMOVED	89.4	61.8	41.8

CAPITAL COSTS/% REMOVAL (\$)	9,800	36,400	120,000
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TREATMENT COST (¢/1000 gals)	10.8	29.2	76.6
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STORMWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN	MALDEN		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	1209		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	44.9		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	885		
SUSP. SOLIDS, LBS.	10511		
BOD ₅	1545		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	30.8	30.8	30.8
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	840.8	840.8	796.5
SUSP. SOLIDS, LBS.	9459.9	6832.2	4730
BOD ₅ , LBS.	1312.2	618	309
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	44.2	44.2	88.5
SUSP. SOLIDS, LBS.	1051.1	3678.8	5781
BOD ₅ , LBS.	231.8	927	1236
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.4	2.4	2.4
SUSP. SOLIDS mg/l	28.1	28.1	28.1
BOD ₅ mg/l	4.1	4.1	4.1
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.8	9.8	15.4
BOD ₅ mg/l	0.6	2.5	3.3
TOTAL CAPITAL COST (\$)	850,000	2,200,000	4,500,000
ANNUAL O&M COST (\$)	23,000	70,000	225,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	12,056	12,056	12,056
REMOVED, LBS.	10773.1	7450.2	5039
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	9,500	35,600	108,000
TREATMENT COST (¢/1000 gals)	11.2	30.8	76.8

STORMWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN	MEDFORD		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	3062		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	104.1		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	1970		
SUSP. SOLIDS, LBS.	23437		
BOD ₅	3445		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	71.1	71.1	71.1
% TREATED	68.3	68.3	68.3
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	1871.5	1871.5	1773
SUSP. SOLIDS, LBS.	21,093.3	15,234.1	10,546.7
BOD ₅ , LBS.	2928.3	1378	689
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	98.5	98.5	197
SUSP. SOLIDS, LBS.	2343.7	8202.9	12,890.3
BOD ₅ , LBS.	516.7	2067	2756
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.3	2.3	2.3
SUSP. SOLIDS mg/l	27.0	27.0	27.0
BOD ₅ mg/l	4.0	4.0	4.0
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.7	9.4	14.8
BOD ₅ mg/l	0.6	2.4	3.2
TOTAL CAPITAL COST (\$)	1,500,000	3,400,000	10,500,000
ANNUAL O&M COST (\$)	52,000	165,000	525,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	26,882	26,882	26,882
REMOVED, LBS.	24021.6	16,612.1	11,235.7
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	16,800	55,000	251,000
TREATMENT COST (¢/1000 gals)	9.2	24.0	74.2

STORMWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN	MELROSE		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	1441		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	51.5		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	1012		
SUSP. SOLIDS, LBS.	12066		
BOD ₅	1774		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	35.3	35.3	35.3
% TREATED	68.5	68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	961.4	961.4	910.8
SUSP. SOLIDS, LBS.	10859.4	7842.9	5429.7
BOD ₅ , LBS.	1507.9	709.6	354.8
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	50.6	50.6	101.2
SUSP. SOLIDS, LBS.	1206.6	4223.1	6636.3
BOD ₅ , LBS.	266.1	1064.4	1419.2
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.4	2.4	2.4
SUSP. SOLIDS mg/l	28.1	28.1	28.1
BOD ₅ mg/l	4.1	4.1	4.1
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.8	9.8	15.5
BOD ₅ mg/l	0.6	2.5	3.3
TOTAL CAPITAL COST (\$)	925,000	2,350,000	5,000,000
ANNUAL O&M COST (\$)	26,000	85,000	250,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	13,840	13,840	13,840
REMOVED, LBS.	12,367.3	8,552.5	5784.5
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	10,300	38,000	120,000
TREATMENT COST (¢/1000 gals)	10.8	29.0	76.4

STORMWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN	READING	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1321	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	42.3	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	623	
SUSP. SOLIDS, LBS.	7410	
BOD ₅	1090	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	29.2	29.2
% TREATED	69.0	69.0
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	591.9	591.9
SUSP. SOLIDS, LBS.	6,669	4,816.5
BOD ₅ , LBS.	926.5	436
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	31.1	31.1
SUSP. SOLIDS, LBS.	741	2,593.5
BOD ₅ , LBS.	163.5	654
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.8	1.8
SUSP. SOLIDS mg/l	21.0	21.0
BOD ₅ mg/l	3.1	3.1
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.1	7.4
BOD ₅ mg/l	0.5	1.8
TOTAL CAPITAL COST (\$)	775,000	2,100,000
ANNUAL O&M COST (\$)	21,000	65,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	8500	8500
REMOVED, LBS.	7595.5	5252.5
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	8,700	34,000
TREATMENT COST (¢/1000 gals)	11.3	31.2

STORMWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN	SOMERVILLE		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	962		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	37.6		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	756		
SUSP. SOLIDS, LBS.	8947		
BOD ₅	1315		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	25.8	25.8	25.8
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	718.2	718.2	680.4
SUSP. SOLIDS, LBS.	8052.3	5815.6	4026.2
BOD ₅ , LBS.	1117.7	526	263
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	37.8	37.8	75.6
SUSP. SOLIDS, LBS.	894.7	3131.4	4920.8
BOD ₅ , LBS.	197.3	789	1052
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.4	2.4	2.4
SUSP. SOLIDS mg/l	28.5	28.5	28.5
BOD ₅ mg/l	4.2	4.2	4.2
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.9	10.0	15.7
BOD ₅ mg/l	0.6	2.5	3.4
TOTAL CAPITAL COST (\$)	750,000	2,000,000	3,750,000
ANNUAL O&M COST (\$)	19,000	60,000	187,500
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	10,262	10,262	10,262
REMOVED, LBS.	9170	6341.6	4289.2
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	8,400	32,400	90,000
TREATMENT COST (¢/1000 gals)	11.7	33.0	77.5

STORMWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN		STONEHAM		
URBAN DRAINAGE AREA				
YEAR	2000			
ACRES	2206			
TOTAL STORM RUNOFF VOL.				
MIL. GAL.	73.0			
TOTAL STORMWATER POLLUTANTS				
SETT. SOLIDS, LBS.	1491			
SUSP. SOLIDS, LBS.	17790			
BOD ₅	2616			
STORMWATER TREATMENT				
TREAT. DESCRIP.		SP	SMD	MD
VOLUME TREAT., MG		50.2	50.2	50.2
% TREATED		68.8	68.8	68.8
POLLUTANT REMOVALS				
SETT. SOLIDS, LBS.	1416.5	1416.5	1341.9	
SUSP. SOLIDS, LBS.	16,011	11,563.5	8,005.5	
BOD ₅ , LBS.	2223.6	1046.4	523.2	
POLLUTANTS DISCHARGED				
SETT. SOLIDS, LBS.	74.5	74.5	149.1	
SUSP. SOLIDS, LBS.	1779	6226.5	9784.5	
BOD ₅ , LBS.	392.4	1569.6	2092.8	
AVG. POLLUTANT CONCENTRATIONS				
BEFORE TREATMENT				
SETT. SOLIDS mg/l	2.4	2.4	2.4	
SUSP. SOLIDS mg/l	29.2	29.2	29.2	
BOD ₅ mg/l	4.3	4.3	4.3	
AFTER TREATMENT				
SETT. SOLIDS mg/l	0.1	0.1	0.2	
SUSP. SOLIDS mg/l	2.9	10.2	16.1	
BOD ₅ mg/l	0.6	2.6	3.4	
TOTAL CAPITAL COST (\$)	1,200,000	2,750,000	7,500,000	
ANNUAL O&M COST (\$)	37,000	110,000	375,000	
SUSP. SOLIDS + BOD ₅				
BEFORE TREATMENT, LBS.	20,406	20,406	20,406	
REMOVED, LBS.	18,234.6	12,609.9	8,528.7	
% REMOVED	89.4	61.8	41.8	
CAPITAL COSTS/% REMOVAL (\$)	13,400	44,500	180,000	
TREATMENT COST (¢/1000 gals)	9.9	26.2	75.3	

STORMWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN	WAKEFIELD		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	1147		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	40.8		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	826		
SUSP. SOLIDS, LBS.	9848		
BOD ₅	1448		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	28.0	28.0	28.0
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	784.7	784.7	743.4
SUSP. SOLIDS, LBS.	8,863.2	6,401.2	4,431.6
BOD ₅ , LBS.	1230.8	579.2	289.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	41.3	41.3	82.6
SUSP. SOLIDS, LBS.	984.8	3446.8	5,416.4
BOD ₅ , LBS.	217.2	868.8	1158.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.4	2.4	2.4
SUSP. SOLIDS mg/l	28.9	28.9	28.9
BOD ₅ mg/l	4.3	4.3	4.3
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.9	10.1	15.9
BOD ₅ mg/l	0.6	2.6	3.4
TOTAL CAPITAL COST (\$)	760,000	2,150,000	4,000,000
ANNUAL O&M COST (\$)	21,000	70,000	200,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	11,296	11,296	11,296
REMOVED, LBS.	10,094	6,980.4	4,721.2
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	8,500	34,800	96,000
TREATMENT COST (¢/1000 gals)	11.3	31.5	77.2

STORMWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN	WATERTOWN		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	316		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	10.8		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	221		
SUSP. SOLIDS, LBS.	2625		
BOD ₅	386		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		7.4	7.4
% TREATED		68.5	68.5
POLLUTANT REMOVALS			MD
SETT. SOLIDS, LBS.	210	210	198.9
SUSP. SOLIDS, LBS.	2362.5	1706.3	1181.2
BOD ₅ , LBS.	328.1	154.4	77.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	11	11	22.1
SUSP. SOLIDS, LBS.	262.5	918.7	1443.8
BOD ₅ , LBS.	57.9	231.6	308.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.5	2.5	2.5
SUSP. SOLIDS mg/l	29.1	29.1	29.1
BOD ₅ mg/l	4.3	4.3	4.3
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.9	10.2	16.0
BOD ₅ mg/l	0.6	2.6	3.4
TOTAL CAPITAL COST (\$)	260,000	1,130,000	1,250,000
ANNUAL O&M COST (\$)	5,000	19,000	63,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	3,011	3,011	3,011
REMOVED, LBS.	2690.6	1860.7	1258.4
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	2,900	18,300	30,000
TREATMENT COST (¢/1000 gals)	15.0	56.0	85.0

WASTEWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN	WINCHESTER		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	2435		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	70.5		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	844		
SUSP. SOLIDS, LBS.	10091		
BOD ₅	1483		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	48.3	48.3	48.3
% TREATED	68.5	68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	801.8	801.8	759.6
SUSP. SOLIDS, LBS.	9,081.9	6559.1	4541
BOD ₅ , LBS.	1260.5	593.2	296.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	42.2	42.2	84.4
SUSP. SOLIDS, LBS.	1009.1	3531.9	5550
BOD ₅ , LBS.	222.5	898.8	1186.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.4	1.4	1.4
SUSP. SOLIDS mg/l	17.2	17.2	17.2
BOD ₅ mg/l	2.5	2.5	2.5
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.07	0.07	0.1
SUSP. SOLIDS mg/l	1.7	6.0	9.4
BOD ₅ mg/l	0.4	1.5	2.0
TOTAL CAPITAL COST (\$)	1,130,000	2,750,000	7,000,000
ANNUAL O&M COST (\$)	35,000	110,000	350,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	11,574	11,574	11,574
REMOVED, LBS.	10,342.4	7152.3	4837.6
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	11,500	44,500	167,000
TREATMENT COST (¢/1000 gals)	10.0	26.5	75.4

STORMWATER MANAGEMENT SUMMARY

MYSTIC RIVER BASIN

TOWN	WOBURN		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	5362		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	188.6		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	3481		
SUSP. SOLIDS, LBS.	41253		
BOD ₅	6064		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	129.4	129.4	129.4
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	3,307	3,307	3,132.9
SUSP. SOLIDS, LBS.	37,127.7	26,814.5	18,563.8
BOD ₅ , LBS.	5,154.4	2,425.6	1,212.8
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	174	174	348.1
SUSP. SOLIDS, LBS.	4,125.3	14,438.5	22,689.2
BOD ₅ , LBS.	909.6	3,638.4	4,851.2
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.2	2.2	2.2
SUSP. SOLIDS mg/l	26.2	26.2	26.2
BOD ₅ mg/l	3.9	3.9	3.9
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.6	9.2	14.4
BOD ₅ mg/l	0.6	2.3	3.1
TOTAL CAPITAL COST (\$)	2,500,000	5,000,000	19,000,000
ANNUAL O&M COST (\$)	96,000	300,000	950,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	47,317.0	47,317.0	47,317.0
REMOVED, LBS.	42,282.1	29,240.1	19,776.6
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	28,000	80,900	455,000
TREATMENT COST (¢/1000 gals)	8.4	21.0	73.0

STORMWATER MANAGEMENT SUMMARY

NEPONSET RIVER BASIN

TOWN	CANTON		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		5311	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		172.2	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		2606	
SUSP. SOLIDS, LBS.		30928	
BOD ₅		4547	
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		116.4	116.4
% TREATED		67.6	67.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		2475.7	2475.7
SUSP. SOLIDS, LBS.		27835.2	20103.2
BOD ₅ , LBS.		3865	1818.8
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		130.3	130.3
SUSP. SOLIDS, LBS.		3092.8	10824.8
BOD ₅ , LBS.		682	2728.2
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.8	1.8
SUSP. SOLIDS mg/l		21.5	21.5
BOD ₅ mg/l		3.2	3.2
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.09	0.09
SUSP. SOLIDS mg/l		2.2	7.5
BOD ₅ mg/l		0.5	1.9
TOTAL CAPITAL COST (\$)		2,300,000	4,650,000
ANNUAL O&M COST (\$)		87,000	275,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		35475	35475
REMOVED, LBS.		31700.2	21922.0
% REMOVED		89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)		25,700	75,200
TREATMENT COST (¢/1000 gals)		8.6	21.3

STORMWATER MANAGEMENT SUMMARY

NEPONSET RIVER BASIN

TOWN	DEDHAM		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	2024		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	75.5		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	1413		
SUSP. SOLIDS, LBS.	16797		
BOD ₅	2471		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	51.8	51.8	51.8
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	1342.4	1342.4	1271.7
SUSP. SOLIDS, LBS.	15117.3	10918.1	7558.6
BOD ₅ , LBS.	2100.4	988.4	494.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	70.6	70.6	141.3
SUSP. SOLIDS, LBS.	1679.7	5878.9	9238.4
BOD ₅ , LBS.	370.6	1482.6	1976.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.2	2.2	2.2
SUSP. SOLIDS mg/l	26.7	26.7	26.7
BOD ₅ mg/l	3.9	3.9	3.9
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.7	9.3	14.7
BOD ₅ mg/l	0.6	2.4	3.1
TOTAL CAPITAL COST (\$)	1,245,000	2,900,000	7,500,000
ANNUAL O&M COST (\$)	39,000	120,000	375,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	19268	19268	19268
REMOVED, LBS.	17217.7	11906.5	8052.8
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	13,900	46,900	180,000
TREATMENT COST (¢/1000 gals)	9.8	25.9	75.2

STORMWATER MANAGEMENT SUMMARY

NEPONSET RIVER BASIN

TOWN	DOVER	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	470	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	12.6	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	93	
SUSP. SOLIDS, LBS.	1117	
BOD ₅	164	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	8.6	8.6
% TREATED	68.3	68.3
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	88.4	88.4
SUSP. SOLIDS, LBS.	1005.3	726
BOD ₅ , LBS.	139.4	65.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	4.6	4.6
SUSP. SOLIDS, LBS.	111.7	391
BOD ₅ , LBS.	24.6	98.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	0.9	0.9
SUSP. SOLIDS mg/l	10.6	10.6
BOD ₅ mg/l	1.6	1.6
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.04	0.04
SUSP. SOLIDS mg/l	1.1	3.9
BOD ₅ mg/l	0.2	0.9
TOTAL CAPITAL COST (\$)	275,000	1,250,000
ANNUAL O&M COST (\$)	7,000	25,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	1281	1281
REMOVED, LBS.	1144.7	791.6
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	3,000	20,200
TREATMENT COST (¢/1000 gals)	14.6	55.5

STORMWATER MANAGEMENT SUMMARY

NEPONSET RIVER BASIN

TOWN	FOXBOROUGH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	669	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	20.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	226	
SUSP. SOLIDS, LBS.	2699	
BOD ₅	397	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	13.7	13.7
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	214.7	214.7
SUSP. SOLIDS, LBS.	2429.1	1754.4
BOD ₅ , LBS.	337.5	158.8
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	11.3	11.3
SUSP. SOLIDS, LBS.	269.9	944.6
BOD ₅ , LBS.	59.5	238.2
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.4	1.4
SUSP. SOLIDS mg/l	16.2	16.2
BOD ₅ mg/l	2.4	2.4
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.07	0.07
SUSP. SOLIDS mg/l	1.6	5.7
BOD ₅ mg/l	0.4	1.4
TOTAL CAPITAL COST (\$)	480,000	1,500,000
ANNUAL O&M COST (\$)	10,000	35,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	3096	3096
REMOVED, LBS.	2766.6	1913.2
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	5,400	24,300
TREATMENT COST (¢/1000 gals)	13.5	43.0

STORMWATER MANAGEMENT SUMMARY

NEPONSET RIVER BASIN

TOWN	MEDFIELD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	570	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	15.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	142	
SUSP. SOLIDS, LBS.	1701	
BOD ₅	250	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	10.9	10.9
% TREATED	69.0	69.0
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	134.9	134.9
SUSP. SOLIDS, LBS.	1530.9	1105.7
BOD ₅ , LBS.	212.5	100
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	7.1	7.1
SUSP. SOLIDS, LBS.	170.1	595.3
BOD ₅ , LBS.	37.5	150
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.1	1.1
SUSP. SOLIDS mg/l	12.9	12.9
BOD ₅ mg/l	1.9	1.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.05	0.05
SUSP. SOLIDS mg/l	1.3	4.5
BOD ₅ mg/l	0.3	1.1
TOTAL CAPITAL COST (\$)	375,000	1,350,000
ANNUAL O&M COST (\$)	9,000	30,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	1951	1951
REMOVED, LBS.	1743.4	1205.7
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	4,200	21,800
TREATMENT COST (¢/1000 gals)	14.0	48.4

STORMWATER MANAGEMENT SUMMARY

NEPONSET RIVER BASIN

TOWN	MILTON		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	4551		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	137.8		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	1837		
SUSP. SOLIDS, LBS.	21946		
BOD ₅	3226		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		94.5	94.5
% TREATED		68.6	68.6
POLLUTANT REMOVALS			MD
SETT. SOLIDS, LBS.	1745.2	1745.5	1653.3
SUSP. SOLIDS, LBS.	19751.4	14264.9	9875.7
BOD ₅ , LBS.	2742.1	1290.4	645.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	91.8	91.8	183.7
SUSP. SOLIDS, LBS.	2194.6	7681.1	12070.3
BOD ₅ , LBS.	483.9	1935.6	2580.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.6	1.6	1.6
SUSP. SOLIDS mg/l	19.1	19.1	19.1
BOD ₅ mg/l	2.8	2.8	2.8
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.08	0.08	0.2
SUSP. SOLIDS mg/l	1.9	6.7	10.5
BOD ₅ mg/l	0.4	1.7	2.2
TOTAL CAPITAL COST (\$)	1,925,000	4,100,000	14,000,000
ANNUAL O&M COST (\$)	70,000	225,000	700,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	25,172	25,172	25,172
REMOVED, LBS.	22493.5	15555.3	10520.9
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	21,500	66,300	335,000
TREATMENT COST (¢/1000 gals)	8.8	22.4	73.6

STORMWATER MANAGEMENT SUMMARY
NEPONSET RIVER BASIN

TOWN	NORWOOD		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	3971		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	143.6		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	2590		
SUSP. SOLIDS, LBS.	30656		
BOD ₅	4506		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	98.5	98.5	98.5
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	2460.5	2460.5	2331
SUSP. SOLIDS, LBS.	27590.4	19926.4	13795.2
BOD ₅ , LBS.	3830.1	1802.4	901.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	129.5	129.5	259
SUSP. SOLIDS, LBS.	3065.6	10729.6	16860.8
BOD ₅ , LBS.	675.9	2703.6	3604.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.2	2.2	2.2
SUSP. SOLIDS mg/l	25.6	25.6	25.6
BOD ₅ mg/l	3.8	3.8	3.8
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.6	9.0	14.1
BOD ₅ mg/l	0.6	2.3	3.0
TOTAL CAPITAL COST (\$)	2,000,000	4,200,000	14,500,000
ANNUAL O&M COST (\$)	73,000	235,000	725,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	35162	35162	35162
REMOVED, LBS.	31420.5	21728.8	14696.4
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	22,400	68,000	347,000
TREATMENT COST (¢/1000 gals)	8.8	22.2	73.5

STORMWATER MANAGEMENT SUMMARY

NEPONSET RIVER BASIN

TOWN	QUINCY			
URBAN DRAINAGE AREA				
YEAR	2000			
ACRES	915			
TOTAL STORM RUNOFF VOL.				
MIL. GAL.	34.3			
TOTAL STORMWATER POLLUTANTS				
SETT. SOLIDS, LBS.	666			
SUSP. SOLIDS, LBS.	7908			
BOD ₅	1162			
STORMWATER TREATMENT				
TREAT. DESCRIP.		SP	SMD	MD
VOLUME TREAT., MG		23.5	23.5	23.5
% TREATED		68.5	68.5	68.5
POLLUTANT REMOVALS				
SETT. SOLIDS, LBS.		632.7	632.7	599.4
SUSP. SOLIDS, LBS.		7117.2	5140.2	3558.8
BOD ₅ , LBS.		987.7	464.8	232.4
POLLUTANTS DISCHARGED				
SETT. SOLIDS, LBS.		33.3	33.3	66.6
SUSP. SOLIDS, LBS.		790.8	2767.8	4349.2
BOD ₅ , LBS.		174.3	697.2	929.6
AVG. POLLUTANT CONCENTRATIONS				
BEFORE TREATMENT				
SETT. SOLIDS mg/l		2.3	2.3	2.3
SUSP. SOLIDS mg/l		27.6	27.6	27.6
BOD ₅ mg/l		4.1	4.1	4.1
AFTER TREATMENT				
SETT. SOLIDS mg/l		0.1	0.1	0.2
SUSP. SOLIDS mg/l		2.8	9.7	15.2
BOD ₅ mg/l		0.6	2.4	3.2
TOTAL CAPITAL COST (\$)		700,000	1,950,000	3,500,000
ANNUAL O&M COST (\$)		18,000	55,000	175,000
SUSP. SOLIDS + BOD ₅				
BEFORE TREATMENT, LBS.		9070	9070	9070
REMOVED, LBS.		8104.9	5605	3791.2
% REMOVED		89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)		7,800	31,600	84,000
TREATMENT COST (¢/1000 gals)		11.9	34.0	75.4

STORMWATER MANAGEMENT SUMMARY

NEPONSET RIVER BASIN

TOWN RANDOLPH

URBAN DRAINAGE AREA

YEAR	2000
ACRES	167
TOTAL STORM RUNOFF VOL.	
MIL. GAL.	4.3
TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	48
SUSP. SOLIDS, LBS.	579
BOD ₅	85

STORMWATER TREATMENT

TREAT. DESCRIP.	NT	SP
VOLUME TREAT., MG	-	2.9
% TREATED	-	67.4
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	-	45.6
SUSP. SOLIDS, LBS.	-	521.1
BOD ₅ , LBS.	-	72.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	48	2.4
SUSP. SOLIDS, LBS.	579	57.9
BOD ₅ , LBS.	85	12.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.3	1.3
SUSP. SOLIDS mg/l	16.1	16.1
BOD ₅ mg/l	2.4	2.4
AFTER TREATMENT		
SETT. SOLIDS mg/l	1.3	0.07
SUSP. SOLIDS mg/l	16.1	1.6
BOD ₅ mg/l	2.4	0.4

TOTAL CAPITAL COST (\$)	-	150,000
ANNUAL O&M COST (\$)	-	3,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	664	664
REMOVED, LBS.	-	593.3
% REMOVED	-	89.4

CAPITAL COSTS/% REMOVAL (\$)	-	1,700
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TREATMENT COST (¢/1000 gals)	20.0	20.0
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STORMWATER MANAGEMENT SUMMARY

NEPONSET RIVER BASIN

TOWN	SHARON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	5754	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	228.2	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	3523	
SUSP. SOLIDS, LBS.	34534	
BOD ₅	5079	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	156.5	156.5
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	3346.8	3346.8
SUSP. SOLIDS, LBS.	31080.6	22447.1
BOD ₅ , LBS.	4317.2	2031.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	176.2	176.2
SUSP. SOLIDS, LBS.	3453.4	12,086.9
BOD ₅ , LBS.	761.8	3047.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.9	1.9
SUSP. SOLIDS mg/l	18.1	18.1
BOD ₅ mg/l	2.7	2.7
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	1.8	6.4
BOD ₅ mg/l	0.4	1.6
TOTAL CAPITAL COST (\$)	2,950,000	5,650,000
ANNUAL O&M COST (\$)	115,000	365,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	39,613	39,613
REMOVED, LBS.	35,397.8	24478.7
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	33,000	91,400
TREATMENT COST (¢/1000 gals)	8.4	20.2

STORMWATER MANAGEMENT SUMMARY

NEPONSET RIVER BASIN

TOWN STOUGHTON

URBAN DRAINAGE AREA

YEAR	2000	
ACRES	3364	

TOTAL STORM RUNOFF VOL.		
MIL. GAL.	119.5	

TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	2342	
SUSP. SOLIDS, LBS.	27822	
BOD ₅	4091	

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	79.2	79.2
% TREATED	68.6	68.6

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	2224.9	2224.9
SUSP. SOLIDS, LBS.	25039.8	18084.3
BOD ₅ , LBS.	3477.4	1636.4

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	117.1	117.1
SUSP. SOLIDS, LBS.	2782.2	9737.7
BOD ₅ , LBS.	613.6	2454.6

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT

SETT. SOLIDS mg/l	2.3	2.3
SUSP. SOLIDS mg/l	27.9	27.9
BOD ₅ mg/l	4.1	4.1

AFTER TREATMENT

SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.8	9.8
BOD ₅ mg/l	0.6	2.5

TOTAL CAPITAL COST (\$)	1,700,000	3,650,000
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ANNUAL O&M COST (\$)	59,000	190,000
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SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	31913	31913
REMOVED, LBS.	28517.2	19720.7
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	19,000	59,000
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TREATMENT COST (¢/1000 gals)	9.0	23.3
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STORMWATER MANAGEMENT SUMMARY

NEPONSET RIVER BASIN

TOWN	WALPOLE		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	5075		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	157.0		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	2025		
SUSP. SOLIDS, LBS.	24063		
BOD ₅	3538		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		106.6	106.6
% TREATED		68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		1923.8	1923.8
SUSP. SOLIDS, LBS.		21656.7	15641
BOD ₅ , LBS.		3007.3	1415.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		101.2	101.2
SUSP. SOLIDS, LBS.		2406.3	8422
BOD ₅ , LBS.		530.7	2122.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.5	1.5
SUSP. SOLIDS mg/l		18.4	18.4
BOD ₅ mg/l		2.7	2.7
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.08	0.08
SUSP. SOLIDS mg/l		1.8	6.4
BOD ₅ mg/l		0.4	1.6
TOTAL CAPITAL COST (\$)	2,100,000	4,440,000	
ANNUAL O&M COST (\$)	78,000	250,000	
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	27601	27601	
REMOVED, LBS.	24663.4	17056.2	
% REMOVED	89.4	61.8	
CAPITAL COSTS/% REMOVAL (\$)	23,500	71,200	
TREATMENT COST (¢/1000 gals)	8.7	21.8	

STORMWATER MANAGEMENT SUMMARY

NEPONSET RIVER BASIN

TOWN	WESTWOOD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	3079	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	96.9	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1293	
SUSP. SOLIDS, LBS.	15357	
BOD ₅	2258	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	66.4	66.4
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1228.3	1228.3
SUSP. SOLIDS, LBS.	13821.3	9982
BOD ₅ , LBS.	1919.3	903.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	64.7	64.7
SUSP. SOLIDS, LBS.	1535.7	5375
BOD ₅ , LBS.	338.7	1354.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.6	1.6
SUSP. SOLIDS mg/l	19.0	19.0
BOD ₅ mg/l	2.8	2.8
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	1.9	6.7
BOD ₅ mg/l	0.4	1.7
TOTAL CAPITAL COST (\$)	1,400,000	3,350,000
ANNUAL O&M COST (\$)	50,000	160,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	17615	17615
REMOVED, LBS.	15740.6	10885.2
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	15,700	54,200
TREATMENT COST (¢/1000 gals)	9.4	24.4

STORMWATER MANAGEMENT SUMMARY

NORTH RIVER BASIN

TOWN	ABINGTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	462	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	15.3	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	165	
SUSP. SOLIDS, LBS.	1934	
BOD ₅	284	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	10.5	10.5
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	156.8	156.8
SUSP. SOLIDS, LBS.	1740.6	1257.1
BOD ₅ , LBS.	241.4	113.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	8.2	8.2
SUSP. SOLIDS, LBS.	193.4	676.9
BOD ₅ , LBS.	42.6	170.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.3	1.3
SUSP. SOLIDS mg/l	15.2	15.2
BOD ₅ mg/l	2.2	2.2
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.5	5.3
BOD ₅ mg/l	0.3	1.3
TOTAL CAPITAL COST (\$)	375,000	1,350,000
ANNUAL O&M COST (\$)	9,000	30,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	2218	2218
REMOVED, LBS.	1982	1370.7
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	4,200	21,800
TREATMENT COST (¢/1000 gals)	14.0	50.0

STORMWATER MANAGEMENT SUMMARY

NORTH RIVER BASIN

TOWN	DUXBURY	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	48	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	1.6	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	23	
SUSP. SOLIDS, LBS.	271	
BOD ₅	40	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		23
SUSP. SOLIDS, LBS.		271
BOD ₅ , LBS.		40
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.7
SUSP. SOLIDS mg/l		20.3
BOD ₅ mg/l		3.0
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.7
SUSP. SOLIDS mg/l		20.3
BOD ₅ mg/l		3.0
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		311
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

NORTH RIVER BASIN

TOWN	HANOVER	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	4415	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	138.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1404	
SUSP. SOLIDS, LBS.	16684	
BOD ₅	2453	
STORMWATER TREATMENT		
TREAT. DESCRIP.		
VOLUME TREAT., MG	SP	SMD
% TREATED	94.3	94.3
	68.3	68.3
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1333.8	1333.8
SUSP. SOLIDS, LBS.	15015.6	10844.6
BOD ₅ , LBS.	2085	981.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	70.2	70.2
SUSP. SOLIDS, LBS.	1668.4	5839.4
BOD ₅ , LBS.	368	1471.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.2	1.2
SUSP. SOLIDS mg/l	14.5	14.5
BOD ₅ mg/l	2.1	2.1
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.4	5.1
BOD ₅ mg/l	0.3	1.3
TOTAL CAPITAL COST (\$)	1,925,000	4,100,000
ANNUAL O&M COST (\$)	70,000	225,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	19137	19137
REMOVED, LBS.	17100.6	11825.8
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	21,500	66,300
TREATMENT COST (¢/1000 gals)	8.8	22.4

STORMWATER MANAGEMENT SUMMARY

NEPONSET RIVER BASIN

TOWN	HANSON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1661	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	42.6	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	419	
SUSP. SOLIDS, LBS.	5039	
BOD ₅	741	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	29.2	29.2
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	398	398
SUSP. SOLIDS, LBS.	4535.1	3275.4
BOD ₅ , LBS.	629.9	296.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	21	21
SUSP. SOLIDS, LBS.	503.9	1763.6
BOD ₅ , LBS.	111.1	444.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.2	1.2
SUSP. SOLIDS mg/l	14.2	14.2
BOD ₅ mg/l	2.1	2.1
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.4	5.0
BOD ₅ mg/l	0.3	1.3
TOTAL CAPITAL COST (\$)	800,000	2,175,000
ANNUAL O&M COST (\$)	22,000	70,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	5780	5780
REMOVED, LBS.	5165	3571.8
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	8,900	35,200
TREATMENT COST (¢/1000 gals)	11.3	31.3

STORMWATER MANAGEMENT SUMMARY

NORTH RIVER BASIN

TOWN	MARSHFIELD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2108	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	58.2	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	635	
SUSP. SOLIDS, LBS.	7590	
BOD ₅	1116	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	39.9	39.9
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	603.2	603.2
SUSP. SOLIDS, LBS.	6831	4933.5
BOD ₅ , LBS.	948.6	446.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	31.8	31.8
SUSP. SOLIDS, LBS.	759	2656.5
BOD ₅ , LBS.	167.4	669.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.3	1.3
SUSP. SOLIDS mg/l	15.6	15.6
BOD ₅ mg/l	2.3	2.3
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.07	0.07
SUSP. SOLIDS mg/l	1.6	5.5
BOD ₅ mg/l	0.3	1.4
TOTAL CAPITAL COST (\$)	1,050,000	2,500,000
ANNUAL O&M COST (\$)	30,000	100,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	8706	8706
REMOVED, LBS.	7779.6	5379.9
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	11,800	40,500
TREATMENT COST (¢/1000 gals)	10.4	27.8

STORMWATER MANAGEMENT SUMMARY

NORTH RIVER BASIN

TOWN	NORWELL	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2839	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	81.6	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	814	
SUSP. SOLIDS, LBS.	9714	
BOD ₅	1428	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	55.9	55.9
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	773.3	773.3
SUSP. SOLIDS, LBS.	8742.6	6314.1
BOD ₅ , LBS.	1213.8	571.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	40.7	40.7
SUSP. SOLIDS, LBS.	971.4	3399.9
BOD ₅ , LBS.	214.2	856.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.2	1.2
SUSP. SOLIDS mg/l	14.3	14.3
BOD ₅ mg/l	2.1	2.1
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.4	5.0
BOD ₅ mg/l	0.3	1.3
TOTAL CAPITAL COST (\$)	1,275,000	3,000,000
ANNUAL O&M COST (\$)	42,000	130,000
EUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	11142	11142
REMOVED, LBS.	9956.4	6885.3
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	14,300	48,500
TREATMENT COST (¢/1000 gals)	9.8	25.5

STORMWATER MANAGEMENT SUMMARY

NORTH RIVER BASIN

TOWN	PEMBROKE	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2931	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	84.7	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	792	
SUSP. SOLIDS, LBS.	9440	
BOD ₅	1388	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	58.0	58.0
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	752.4	752.4
SUSP. SOLIDS, LBS.	8496	6136
BOD ₅ , LBS.	1179.3	555.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	39.6	39.6
SUSP. SOLIDS, LBS.	944	3304
BOD ₅ , LBS.	208.2	832.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.1	1.1
SUSP. SOLIDS mg/l	13.4	13.4
BOD ₅ mg/l	2.0	2.0
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.3	4.7
BOD ₅ mg/l	0.3	1.2
TOTAL CAPITAL COST (\$)	1,300,000	3,100,000
ANNUAL O&M COST (\$)	44,000	140,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	10828	10828
REMOVED, LBS.	9675.8	6691.2
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	14,500	50,200
TREATMENT COST (¢/1000 gals)	9.7	25.2

STORMWATER MANAGEMENT SUMMARY

NORTH RIVER BASIN

TOWN	ROCKLAND	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2076	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	66.5	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1044	
SUSP. SOLIDS, LBS.	12439	
BOD ₅	1830	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	45.5	45.5
% TREATED	68.4	68.4
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	991.8	991.8
SUSP. SOLIDS, LBS.	11195.1	8085.3
BOD ₅ , LBS.	1555.5	732
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	52.2	52.2
SUSP. SOLIDS, LBS.	1243.9	4353.7
BOD ₅ , LBS.	274.5	1098
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.9	1.9
SUSP. SOLIDS mg/l	22.4	22.4
BOD ₅ mg/l	3.3	3.3
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.2	7.8
BOD ₅ mg/l	0.5	2.0
TOTAL CAPITAL COST (\$)	1,100,000	2,650,000
ANNUAL O&M COST (\$)	33,000	105,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	14269	14269
REMOVED, LBS.	12750.6	8817.3
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	12,300	42,900
TREATMENT COST (¢/1000 gals)	10.2	26.9

STORMWATER MANAGEMENT SUMMARY

NORTH RIVER BASIN

TOWN	SCITUATE		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		721	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		22.2	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		239	
SUSP. SOLIDS, LBS.		2844	
BOD ₅		418	
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		15.3	15.3
% TREATED		68.9	68.9
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		227	227
SUSP. SOLIDS, LBS.		2559.6	1848.6
BOD ₅ , LBS.		355.3	167.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		12.0	12.0
SUSP. SOLIDS, LBS.		284.4	995.4
BOD ₅ , LBS.		62.7	250.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.3	1.3
SUSP. SOLIDS mg/l		15.4	15.4
BOD ₅ mg/l		2.3	2.3
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.06	0.06
SUSP. SOLIDS mg/l		1.5	5.4
BOD ₅ mg/l		0.3	1.4
TOTAL CAPITAL COST (\$)		500,000	1,500,000
ANNUAL O&M COST (\$)		10,000	35,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		3262	3262
REMOVED, LBS.		2914.9	2015.8
% REMOVED		89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)		5,600	24,300
TREATMENT COST (¢/1000 gals)		13.1	38.7

STORMWATER MANAGEMENT SUMMARY

NORTH RIVER BASIN

TOWN	WEYMOUTH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	169	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	4.2	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	36	
SUSP. SOLIDS, LBS.	367	
BOD ₅	54	
STORMWATER TREATMENT		
TREAT. DESCRIP.	NT	SP
VOLUME TREAT., MG	-	2.8
% TREATED	-	66.7
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	-	34.2
SUSP. SOLIDS, LBS.	-	330.3
BOD ₅ , LBS.	-	45.9
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	36	1.8
SUSP. SOLIDS, LBS.	367	36.7
BOD ₅ , LBS.	54	8.1
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.5	1.5
SUSP. SOLIDS mg/l	15.7	15.7
BOD ₅ mg/l	2.3	2.3
AFTER TREATMENT		
SETT. SOLIDS mg/l	1.5	0.08
SUSP. SOLIDS mg/l	15.7	1.6
BOD ₅ mg/l	2.3	0.3
TOTAL CAPITAL COST (\$)	-	150,000
ANNUAL O&M COST (\$)	-	3,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	421	421
REMOVED, LBS.	-	376.2
% REMOVED	-	89.4
CAPITAL COSTS/% REMOVAL (\$)	-	1,700
TREATMENT COST (¢/1000 gals)	-	20.0

STORMWATER MANAGEMENT SUMMARY

PARKER RIVER BASIN

TOWN	BOXFORD		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		551	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		13.3	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		84	
SUSP. SOLIDS, LBS.		1015	
BOD ₅		149	
STORMWATER TREATMENT			
TREAT. DESCRIP.		NT	SP
VOLUME TREAT., MG		-	9.1
% TREATED		-	68.4
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		-	79.8
SUSP. SOLIDS, LBS.		-	913.5
BOD ₅ , LBS.		-	126.7
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		84	4.2
SUSP. SOLIDS, LBS.		1015	101.5
BOD ₅ , LBS.		149	22.3
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		0.8	0.8
SUSP. SOLIDS mg/l		9.2	9.2
BOD ₅ mg/l		1.3	1.3
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.8	0.04
SUSP. SOLIDS mg/l		9.2	0.9
BOD ₅ mg/l		1.3	0.2
TOTAL CAPITAL COST (\$)		-	325,000
ANNUAL O&M COST (\$)		-	7,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		1164	1164
REMOVED, LBS.		-	1040.2
% REMOVED		-	89.4
CAPITAL COSTS/% REMOVAL (\$)		-	3,600
TREATMENT COST (¢/1000 gals)		-	14.3

STORMWATER MANAGEMENT SUMMARY

PARKER RIVER BASIN

TOWN	IPSWICH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	127	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	3.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	45	
SUSP. SOLIDS, LBS.	539	
BOD ₅	79	
STORMWATER TREATMENT		
TREAT. DESCRIP.	NT	SP
VOLUME TREAT., MG	-	2.5
% TREATED	-	67.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	-	42.8
SUSP. SOLIDS, LBS.	-	485.1
BOD ₅ , LBS.	-	67.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	45	2.2
SUSP. SOLIDS, LBS.	539	53.9
BOD ₅ , LBS.	79	11.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.4	1.4
SUSP. SOLIDS mg/l	17.0	17.0
BOD ₅ mg/l	2.5	2.5
AFTER TREATMENT		
SETT. SOLIDS mg/l	1.4	0.07
SUSP. SOLIDS mg/l	17.0	1.7
BOD ₅ mg/l	2.5	0.4
TOTAL CAPITAL COST (\$)	-	150,000
ANNUAL O&M COST (\$)	-	3,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	618	618
REMOVED, LBS.	-	552.3
% REMOVED	-	89.4
CAPITAL COSTS/% REMOVAL (\$)	-	1,700
TREATMENT COST (¢/1000 gals)	-	20.0

STORMWATER MANAGEMENT SUMMARY

ROWLEY RIVER BASIN

TOWN	IPSWICH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1649	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	58.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	555	
SUSP. SOLIDS, LBS.	11412	
BOD ₅	1680	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	39.9	39.9
% TREATED	68.7	68.7
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	907.2	907.2
SUSP. SOLIDS, LBS.	10270.8	7417.8
BOD ₅ , LBS.	1428	672
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	47.8	47.8
SUSP. SOLIDS, LBS.	1141.2	3994.2
BOD ₅ , LBS.	252	1008
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	2.0	2.0
SUSP. SOLIDS mg/l	23.6	23.6
BOD ₅ mg/l	3.5	3.5
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.4	8.2
BOD ₅ mg/l	0.5	2.1
TOTAL CAPITAL COST (\$)	1,050,000	2,500,000
ANNUAL O&M COST (\$)	30,000	120,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	13092	13092
REMOVED, LBS.	11,698.8	8,089.8
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	11,800	40,800
TREATMENT COST (¢/1000 gals)	10.4	27.8

STORMWATER MANAGEMENT SUMMARY
SALEM HARBOR

TOWN	LYNN	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	60	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	1.4	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	13	
SUSP. SOLIDS, LBS.	162	
BOD ₅	24	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		13
SUSP. SOLIDS, LBS.		162
BOD ₅ , LBS.		24
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.1
SUSP. SOLIDS mg/l		13.9
BOD ₅ mg/l		2.1
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.1
SUSP. SOLIDS mg/l		13.9
BOD ₅ mg/l		2.1
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		186
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

SALEM HARBOR

TOWN	MARBLEHEAD		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	582		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	18.0		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	243		
SUSP. SOLIDS, LBS.	2900		
BOD ₅	426		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		12.3	12.3
% TREATED		68.3	68.3
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		230.8	230.8
SUSP. SOLIDS, LBS.		2610	1885
BOD ₅ , LBS.		362.1	170.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		12.2	12.2
SUSP. SOLIDS, LBS.		290	1015
BOD ₅ , LBS.		63.9	255.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.6	1.6
SUSP. SOLIDS mg/l		19.3	19.3
BOD ₅ mg/l		2.8	2.8
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.08	0.08
SUSP. SOLIDS mg/l		1.9	6.8
BOD ₅ mg/l		0.4	1.7
TOTAL CAPITAL COST (\$)	400,000	1,450,000	
ANNUAL O&M COST (\$)	10,000	35,000	
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	3326	3326	
REMOVED, LBS.	2972.1	2055.4	
% REMOVED	89.4	61.8	
CAPITAL COSTS/% REMOVAL (\$)	4,500	23,500	
TREATMENT COST (¢/1000 gals)	13.7	47.0	

STORMWATER MANAGEMENT SUMMARY

SALEM HARBOR

TOWN · SALEM

URBAN DRAINAGE AREA

YEAR	2000
ACRES	992

TOTAL STORM RUNOFF VOL.

MIL. GAL.	39.9
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TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	855
SUSP. SOLIDS, LBS.	10121
BOD ₅	1488

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	27.4	27.4
% TREATED	68.7	68.7

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	812.3	812.3
SUSP. SOLIDS, LBS.	9108.9	6578.6
BOD ₅ , LBS.	1264.8	595.2

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	42.7	42.7
SUSP. SOLIDS, LBS.	1012.1	3542.4
BOD ₅ , LBS.	223.2	892.8

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT

SETT. SOLIDS mg/l	2.6	2.6
SUSP. SOLIDS mg/l	30.4	30.4
BOD ₅ mg/l	4.5	4.5

AFTER TREATMENT

SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	3.0	10.6
BOD ₅ mg/l	0.7	2.7

TOTAL CAPITAL COST (\$)

1,050,000	2,500,000
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ANNUAL O&M COST (\$)

30,000	120,000
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SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	11609	11609
REMOVED, LBS.	10373.7	7173.8
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)

11,800	40,500
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TREATMENT COST (¢/1000 gals)

10.4	27.8
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STORMWATER MANAGEMENT SUMMARY

SALEM HARBOR

TOWN	SWAMPSCOTT	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	143	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	5.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	65	
SUSP. SOLIDS, LBS.	756	
BOD ₅	111	
STORMWATER TREATMENT		
TREAT. DESCRIP.	NT	SP
VOLUME TREAT., MG	-	3.5
% TREATED	-	70
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	-	61.8
SUSP. SOLIDS, LBS.	-	680.4
BOD ₅ , LBS.	-	94.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	65	3.2
SUSP. SOLIDS, LBS.	756	75.6
BOD ₅ , LBS.	111	16.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.6	1.6
SUSP. SOLIDS mg/l	18.1	18.1
BOD ₅ mg/l	2.7	2.7
AFTER TREATMENT		
SETT. SOLIDS mg/l	1.6	0.08
SUSP. SOLIDS mg/l	18.1	1.8
BOD ₅ mg/l	2.7	0.4
TOTAL CAPITAL COST (\$)	-	190,000
ANNUAL O&M COST (\$)	-	4,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	867	867
REMOVED, LBS.	-	774.8
% REMOVED	-	89.4
CAPITAL COSTS/% REMOVAL (\$)	-	2,100
TREATMENT COST (¢/1000 gals)	-	20.4

STORMWATER MANAGEMENT SUMMARY

SAUGUS RIVER BASIN

TOWN	EVERETT		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	325		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	7.9		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	131		
SUSP. SOLIDS, LBS.	1572		
BOD ₅	231		
STORMWATER TREATMENT			
TREAT. DESCRIP.	NT	SP	SMD
VOLUME TREAT., MG	-	5.4	5.4
% TREATED	-	68.4	68.4
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	-	124.5	117.9
SUSP. SOLIDS, LBS.	-	1414.8	1021.8
BOD ₅ , LBS.	-	196.4	92.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	131	6.5	13.1
SUSP. SOLIDS, LBS.	1572	157.2	550.2
BOD ₅ , LBS.	231	34.6	138.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.0	2.0	2.0
SUSP. SOLIDS mg/l	23.9	23.9	23.9
BOD ₅ mg/l	3.5	3.5	3.5
AFTER TREATMENT			
SETT. SOLIDS mg/l	2.0	0.1	0.2
SUSP. SOLIDS mg/l	23.9	2.4	8.3
BOD ₅ mg/l	3.5	0.5	2.1
TOTAL CAPITAL COST (\$)	-	200,000	1,000,000
ANNUAL O&M COST (\$)	-	5,000	15,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	1803	1803	1803
REMOVED, LBS.	-	1611.2	1114.2
% REMOVED	-	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	-	2,200	16,200
TREATMENT COST (¢/1000 gals)	-	16.0	67.0

STORMWATER MANAGEMENT SUMMARY

SAUGUS RIVER BASIN

TOWN	LYNN			
URBAN DRAINAGE AREA				
YEAR	2000			
ACRES	1305			
TOTAL STORM RUNOFF VOL.				
MIL. GAL.	47.3			
TOTAL STORMWATER POLLUTANTS				
SETT. SOLIDS, LBS.	946			
SUSP. SOLIDS, LBS.	11211			
BOD ₅	1648			
STORMWATER TREATMENT				
TREAT. DESCRIP.		SP	SMD	MD
VOLUME TREAT., MG		32.5	32.5	32.5
% TREATED		68.7	68.7	68.7
POLLUTANT REMOVALS				
SETT. SOLIDS, LBS.		898.7	898.7	851.4
SUSP. SOLIDS, LBS.		10089.9	7287.2	5045
BOD ₅ , LBS.		1400.8	659.2	329.6
POLLUTANTS DISCHARGED				
SETT. SOLIDS, LBS.		47.3	47.3	94.6
SUSP. SOLIDS, LBS.		1121.1	3923.8	6166
BOD ₅ , LBS.		247.2	988.8	1318.4
AVG. POLLUTANT CONCENTRATIONS				
BEFORE TREATMENT				
SETT. SOLIDS mg/l		2.4	2.4	2.4
SUSP. SOLIDS mg/l		28.4	28.4	28.4
BOD ₅ mg/l		4.2	4.2	4.2
AFTER TREATMENT				
SETT. SOLIDS mg/l		0.1	0.1	0.2
SUSP. SOLIDS mg/l		2.8	9.9	15.6
BOD ₅ mg/l		0.6	2.5	3.3
TOTAL CAPITAL COST (\$)		875,000	2,250,000	4,600,000
ANNUAL O&M COST (\$)		24,000	80,000	230,000
SUSP. SOLIDS + BOD ₅				
BEFORE TREATMENT, LBS.		12859	12859	12859
REMOVED, LBS.		11490.7	7946.4	5374.6
% REMOVED		89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)		9,800	36,400	110,000
TREATMENT COST (¢/1000 gals)		11.0	29.5	75.9

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STORMWATER MANAGEMENT SUMMARY

SAUGUS RIVER BASIN

TOWN LYNNFIELD

URBAN DRAINAGE AREA

YEAR	2000
ACRES	2605
TOTAL STORM RUNOFF VOL. MIL. GAL.	74.4
TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	665
SUSP. SOLIDS, LBS.	7922
BOD ₅	1165

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	51.1	51.1
% TREATED	68.7	68.7

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	631.8	631.8
SUSP. SOLIDS, LBS.	7129.8	5149.3
BOD ₅ , LBS.	990.2	466

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	33.2	33.2
SUSP. SOLIDS, LBS.	792.2	2772.7
BOD ₅ , LBS.	174.8	699

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.1	1.1
SUSP. SOLIDS mg/l	12.8	12.8
BOD ₅ mg/l	1.9	1.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.05	0.05
SUSP. SOLIDS mg/l	1.3	4.5
BOD ₅ mg/l	0.3	1.1

TOTAL CAPITAL COST (\$)	1,225,000	2,800,000
ANNUAL O&M COST (\$)	38,000	115,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	9087	9087
REMOVED, LBS.	8120	5615.3
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	13,700	45,300
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TREATMENT COST (¢/1000 gals)	9.8	26.0
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STORMWATER MANAGEMENT SUMMARY

SAUGUS RIVER BASIN

TOWN	MALDEN		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	877		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	29.7		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	551		
SUSP. SOLIDS, LBS.	6544		
BOD ₅	962		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	20.4	20.4	20.4
% TREATED	68.7	68.7	68.7
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	523.5	523.5	495.9
SUSP. SOLIDS, LBS.	5889.6	4253.6	2944.8
BOD ₅ , LBS.	817.7	384.8	192.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	27.5	27.5	55.1
SUSP. SOLIDS, LBS.	654.4	2290.4	3599.2
BOD ₅ , LBS.	144.3	577.2	769.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.2	2.2	2.2
SUSP. SOLIDS mg/l	26.4	26.4	26.4
BOD ₅ mg/l	3.9	3.9	3.9
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.6	9.2	14.5
BOD ₅ mg/l	0.6	2.3	3.1
TOTAL CAPITAL COST (\$)	635,000	1,850,000	3,000,000
ANNUAL O&M COST (\$)	16,000	55,000	150,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	7506	7056	7506
REMOVED, LBS.	6707.3	4638.4	3137.2
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	7,100	29,900	72,000
TREATMENT COST (¢/1000 gals)	14.8	38.2	78.6

STORMWATER MANAGEMENT SUMMARY

SAUGUS RIVER BASIN

TOWN	MELROSE		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	593		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	19.4		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	348		
SUSP. SOLIDS, LBS.	4160		
BOD ₅	611		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	13.3	13.3	13.3
% TREATED	68.6	68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	330.6	330.6	313.2
SUSP. SOLIDS, LBS.	3744	2704	1872
BOD ₅ , LBS.	519.4	244.4	122.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	17.4	17.4	34.8
SUSP. SOLIDS, LBS.	416	1456	2288
BOD ₅ , LBS.	91.6	366.6	488.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.2	2.2	2.2
SUSP. SOLIDS mg/l	25.7	25.7	25.7
BOD ₅ mg/l	3.8	3.8	3.8
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.6	9.0	14.1
BOD ₅ mg/l	0.6	2.3	3.0
TOTAL CAPITAL COST (\$)	450,000	1,475,000	2,000,000
ANNUAL O&M COST (\$)	10,000	35,000	100,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	4771	4771	4771
REMOVED, LBS.	4263.4	2948.4	1994.2
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	5,000	23,900	47,900
TREATMENT COST (¢/1000 gals)	13.5	43.0	83.0

STORMWATER MANAGEMENT SUMMARY

SAUGUS RIVER BASIN

TOWN	READING		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		1581	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		51.5	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		736	
SUSP. SOLIDS, LBS.		8760	
BOD ₅		1288	
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		35.3	35.3
% TREATED		68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		699.2	699.2
SUSP. SOLIDS, LBS.		7884	5694
BOD ₅ , LBS.		1094.8	515.2
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		36.8	36.8
SUSP. SOLIDS, LBS.		876	3066
BOD ₅ , LBS.		193.2	772.8
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/1		1.7	1.7
SUSP. SOLIDS mg/1		20.4	20.4
BOD ₅ mg/1		3.0	3.0
AFTER TREATMENT			
SETT. SOLIDS mg/1		0.09	0.09
SUSP. SOLIDS mg/1		2.0	7.1
BOD ₅ mg/1		0.4	1.8
TOTAL CAPITAL COST (\$)		925,000	2,350,000
ANNUAL O&M COST (\$)		26,000	85,000
SUSP. SOLIDS + BOD₅			
BEFORE TREATMENT, LBS.		10,048	10,048
REMOVED, LBS.		8978.8	6209.2
% REMOVED		89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)		10,300	38,000
TREATMENT COST (¢/1000 gals)		10.8	29.0

STORMWATER MANAGEMENT SUMMARY
SAUGUS RIVER BASIN

TOWN	REVERE			
URBAN DRAINAGE AREA				
YEAR	2000			
ACRES	1538			
TOTAL STORM RUNOFF VOL.				
MIL. GAL.	52.8			
TOTAL STORMWATER POLLUTANTS				
SETT. SOLIDS, LBS.	1005			
SUSP. SOLIDS, LBS.	11953			
BOD ₅	1757			
STORMWATER TREATMENT				
TREAT. DESCRIP.		SP	SMD	MD
VOLUME TREAT., MG		36.3	36.3	36.3
% TREATED		68.8	68.8	68.8
POLLUTANT REMOVALS				
SETT. SOLIDS, LBS.		954.8	954.8	904.5
SUSP. SOLIDS, LBS.		10757.7	7769.5	5378.9
BOD ₅ , LBS.		1493.5	702.8	351.4
POLLUTANTS DISCHARGED				
SETT. SOLIDS, LBS.		50.2	50.2	100.5
SUSP. SOLIDS, LBS.		1195.3	4183.5	6574.1
BOD ₅ , LBS.		263.5	1054.2	1405.6
AVG. POLLUTANT CONCENTRATIONS				
BEFORE TREATMENT				
SETT. SOLIDS mg/l		2.3	2.3	2.3
SUSP. SOLIDS mg/l		27.1	27.1	27.1
BOD ₅ mg/l		4.0	4.0	4.0
AFTER TREATMENT				
SETT. SOLIDS mg/l		0.1	0.1	0.2
SUSP. SOLIDS mg/l		2.7	9.5	14.9
BOD ₅ mg/l		0.6	2.4	3.2
TOTAL CAPITAL COST (\$)		925,000	2,350,000	5,500,000
ANNUAL O&M COST (\$)		26,000	85,000	275,000
SUSP. SOLIDS + BOD ₅				
BEFORE TREATMENT, LBS.		13710	13710	13710
REMOVED, LBS.		12251.2	8472.3	5730.3
% REMOVED		89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)		10,300	38,000	132,000
TREATMENT COST (¢/1000 gals)		10.8	33.9	76.4

STORMWATER MANAGEMENT SUMMARY

SAUGUS RIVER BASIN

TOWN	SAUGUS		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	3064		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	103.8		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	2155		
SUSP. SOLIDS, LBS.	25657		
BOD ₅	3773		
STORMWATER TREATMENT			
TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	71.1	71.1	71.1
% TREATED	68.5	68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	2047.3	2047.3	1939.5
SUSP. SOLIDS, LBS.	23091.3	16677	11545.6
BOD ₅ , LBS.	3207	1509.2	754.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	107.7	107.7	215.5
SUSP. SOLIDS, LBS.	2565.7	8980	14111.4
BOD ₅ , LBS.	566	2263.8	3018.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	4.8	4.8	4.8
SUSP. SOLIDS mg/l	29.6	29.6	29.6
BOD ₅ mg/l	4.4	4.4	4.4
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	3.0	10.4	16.3
BOD ₅ mg/l	0.7	2.6	3.5
TOTAL CAPITAL COST (\$)	1,500,000	3,400,000	10,500,000
ANNUAL O&M COST (\$)	52,000	165,000	525,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	29,430	29,430	29,430
REMOVED, LBS.	26298.3	18186.2	12,300.2
% REMOVED	89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)	16,800	55,000	251,000
TREATMENT COST (¢/1000 gals)	9.2	24.0	74.3

STORMWATER MANAGEMENT SUMMARY

SAUGUS RIVER BASIN

TOWN	WAKEFIELD			
URBAN DRAINAGE AREA				
YEAR	2000			
ACRES	1806			
TOTAL STORM RUNOFF VOL.				
MIL. GAL.	54.2			
TOTAL STORMWATER POLLUTANTS				
SETT. SOLIDS, LBS.	903			
SUSP. SOLIDS, LBS.	10770			
BOD ₅	1583			
STORMWATER TREATMENT				
TREAT. DESCRIP.		SP	SMD	MD
VOLUME TREAT., MG		37.1	37.1	37.1
% TREATED		68.5	68.5	68.5
POLLUTANT REMOVALS				
SETT. SOLIDS, LBS.		857.9	857.9	812.7
SUSP. SOLIDS, LBS.		9693	7000.5	4846.5
BOD ₅ , LBS.		1345.5	633.2	316.6
POLLUTANTS DISCHARGED				
SETT. SOLIDS, LBS.		45.1	45.1	90.3
SUSP. SOLIDS, LBS.		1077	3769.5	5923.5
BOD ₅ , LBS.		237.5	949.8	1266.4
AVG. POLLUTANT CONCENTRATIONS				
BEFORE TREATMENT				
SETT. SOLIDS mg/l		2.0	2.0	2.0
SUSP. SOLIDS mg/l		23.8	23.8	23.8
BOD ₅ mg/l		3.5	3.5	3.5
AFTER TREATMENT				
SETT. SOLIDS mg/l		0.1	0.1	0.2
SUSP. SOLIDS mg/l		2.4	9.3	13.1
BOD ₅ mg/l		0.5	2.1	2.8
TOTAL CAPITAL COST (\$)		950,000	2,450,000	5,500,000
ANNUAL O&M COST (\$)		28,000	90,000	275,000
SUSP. SOLIDS + BOD ₅				
BEFORE TREATMENT, LBS.		12353	12353	12353
REMOVED, LBS.		11038.5	7633.7	5163.1
% REMOVED		89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)		10,600	39,600	132,000
TREATMENT COST (¢/1000 gals)		10.7	28.5	76.3

STORMWATER MANAGEMENT SUMMARY

SHAWSHOEN RIVER BASIN

TOWN	ANDOVER	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	7291	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	195.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	2003	
SUSP. SOLIDS, LBS.	23924	
BOD ₅	3516	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	133.8	133.8
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1902.8	1902.8
SUSP. SOLIDS, LBS.	21531.6	15550.6
BOD ₅ , LBS.	2988.6	1406.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	100.2	100.2
SUSP. SOLIDS, LBS.	2392.4	8373.4
BOD ₅ , LBS.	527.4	2109.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.2	1.2
SUSP. SOLIDS mg/l	14.7	14.7
BOD ₅ mg/l	2.2	2.2
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.5	5.1
BOD ₅ mg/l	0.3	1.3
TOTAL CAPITAL COST (\$)	2,600,000	5,100,000
ANNUAL O&M COST (\$)	100,000	320,000
SUSP. SOLIDS + BOD₅		
BEFORE TREATMENT, LBS.	27440	27440
REMOVED, LBS.	24520.2	16957
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	29,100	82,500
TREATMENT COST (¢/1000 gals)	8.4	20.8

STORMWATER MANAGEMENT SUMMARY

SHAWSHEEN RIVER BASIN

TOWN	BEDFORD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	4710	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	178.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	3643	
SUSP. SOLIDS, LBS.	43359	
BOD ₅	6380	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	122	122
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	3460.8	3460.8
SUSP. SOLIDS, LBS.	39023.1	28183.4
BOD ₅ , LBS.	5423	2552
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	182.2	182.2
SUSP. SOLIDS, LBS.	4335.9	15175.6
BOD ₅ , LBS.	957	3828
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	2.5	2.5
SUSP. SOLIDS mg/l	29.2	29.2
BOD ₅ mg/l	4.3	4.3
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.9	10.2
BOD ₅ mg/l	0.6	2.6
TOTAL CAPITAL COST (\$)	2,325,000	4,750,000
ANNUAL O&M COST (\$)	89,000	280,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	49739	49739
REMOVED, LBS.	44446.1	30735.4
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	26,000	76,900
TREATMENT COST (¢/1000 gals)	8.5	21.2

STORMWATER MANAGEMENT SUMMARY

SHAWSHEEN RIVER BASIN

TOWN	BILLERICA	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	3096	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	90.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1142	
SUSP. SOLIDS, LBS.	13570	
BOD ₅	1995	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	61.0	61.0
% TREATED	67.7	67.7
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1084.9	1084.9
SUSP. SOLIDS, LBS.	12213	8820.5
BOD ₅ , LBS.	1695.8	798
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	57.1	57.1
SUSP. SOLIDS, LBS.	1357	4749.5
BOD ₅ , LBS.	299.2	1197
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.5	1.5
SUSP. SOLIDS mg/l	18.1	18.1
BOD ₅ mg/l	2.7	2.7
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	1.8	6.3
BOD ₅ mg/l	0.4	1.6
TOTAL CAPITAL COST (\$)	1,350,000	3,100,000
ANNUAL O&M COST (\$)	44,000	140,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	15565	15565
REMOVED, LBS.	13908.8	9618.5
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	15,100	50,200
TREATMENT COST (¢/1000 gals)	9.6	24.9

STORMWATER MANAGEMENT SUMMARY

SHAWSHEEN RIVER BASIN

TOWN	BURLINGTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	4000	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	144.9	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	2405	
SUSP. SOLIDS, LBS.	28485	
BOD ₅	4189	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	99.3	99.3
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	2284.7	2284.7
SUSP. SOLIDS, LBS.	25636.5	18515.2
BOD ₅ , LBS.	3560.6	1675.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	120.3	120.3
SUSP. SOLIDS, LBS.	2848.5	9969.8
BOD ₅ , LBS.	628.4	2513.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	2.0	2.0
SUSP. SOLIDS mg/l	23.6	23.6
BOD ₅ mg/l	3.5	3.5
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.4	8.2
BOD ₅ mg/l	0.5	2.1
TOTAL CAPITAL COST (\$)	2,000,000	4,200,000
ANNUAL O&M COST (\$)	73,000	235,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	32674	32674
REMOVED, LBS.	29197.1	20190.8
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	22,400	68,000
TREATMENT COST (¢/1000 gals)	8.8	23.2

STORMWATER MANAGEMENT SUMMARY

SHAWSHEEN RIVER BASIN

TOWN	CONCORD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	343	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	16.2	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	193	
SUSP. SOLIDS, LBS.	2217	
BOD ₅	326	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	11.1	11.1
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	183.4	183.4
SUSP. SOLIDS, LBS.	1995.3	1441
BOD ₅ , LBS.	277.1	130.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	9.6	9.6
SUSP. SOLIDS, LBS.	221.7	776
BOD ₅ , LBS.	48.9	195.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.4	1.4
SUSP. SOLIDS mg/l	16.4	16.4
BOD ₅ mg/l	2.4	2.4
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.07	0.07
SUSP. SOLIDS mg/l	1.6	5.7
BOD ₅ mg/l	0.4	1.5
TOTAL CAPITAL COST (\$)	375,000	1,350,000
ANNUAL O&M COST (\$)	9,000	30,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	2543	2543
REMOVED, LBS.	2272.4	1571.4
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	4,200	21,800
TREATMENT COST (¢/1000 gals)	14.0	50.0

STORMWATER MANAGEMENT SUMMARY

SHAWSHOEN RIVER BASIN

TOWN	LAWRENCE	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	548	
TOTAL STORM PUNOFF VOL.		
MIL. GAL.	14.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	251	
SUSP. SOLIDS, LBS.	2988	
BOD ₅	439	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	10.1	10.1
% TREATED	68.2	68.2
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	238.5	238.5
SUSP. SOLIDS, LBS.	2689.2	1942.2
BOD ₅ , LBS.	373.2	175.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	12.5	12.5
SUSP. SOLIDS, LBS.	298.8	1045.8
BOD ₅ , LBS.	65.8	263.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	2.0	2.0
SUSP. SOLIDS mg/l	24.2	24.2
BOD ₅ mg/l	3.6	3.6
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.4	8.5
BOD ₅ mg/l	0.5	2.1
TOTAL CAPITAL COST (\$)	350,000	1,300,000
ANNUAL O&M COST (\$)	8,000	25,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	3427	3427
REMOVED, LBS.	3062.4	2117.8
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	3,900	21,000
TREATMENT COST (¢/1000 gals)	14.3	49.7

STORMWATER MANAGEMENT SUMMARY

SHAWSHEEN RIVER BASIN

TOWN	LEXINGTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	3235	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	91.9	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1132	
SUSP. SOLIDS, LBS.	13505	
BOD ₅	1986	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	63.0	63.0
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1075.4	1075.4
SUSP. SOLIDS, LBS.	12154.5	8778.2
BOD ₅ , LBS.	1688.1	794.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	56.6	56.6
SUSP. SOLIDS, LBS.	1350.5	4726.8
BOD ₅ , LBS.	297.9	1191.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.5	1.5
SUSP. SOLIDS mg/l	17.6	17.6
BOD ₅ mg/l	2.6	2.6
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.07	0.07
SUSP. SOLIDS mg/l	1.8	6.2
BOD ₅ mg/l	0.4	1.6
TOTAL CAPITAL COST (\$)	1,400,000	3,200,000
ANNUAL O&M COST (\$)	47,000	150,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	15491	15491
REMOVED, LBS.	13842.6	9572.6
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	15,700	51,800
TREATMENT COST (¢/1000 gals)	9.5	24.7

STORMWATER MANAGEMENT SUMMARY

SHAWSHEEN RIVER BASIN

TOWN LINCOLN

URBAN DRAINAGE AREA

YEAR	2000
ACRES	740

TOTAL STORM RUNOFF VOL.	
MIL. GAL.	28.0

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	260
SUSP. SOLIDS, LBS.	3058
BOD ₅	449

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	19.2	19.2
% TREATED	68.6	68.6

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	247	247
SUSP. SOLIDS, LBS.	2752.2	1987.7
BOD ₅ , LBS.	381.6	179.6

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	13	13
SUSP. SOLIDS, LBS.	305.8	1070.3
BOD ₅ , LBS.	67.4	269.4

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.1	1.1
SUSP. SOLIDS mg/l	13.1	13.1
BOD ₅ mg/l	1.9	1.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.3	4.6
BOD ₅ mg/l	0.3	1.2

TOTAL CAPITAL COST (\$)	625,000	1,800,000
ANNUAL O&M COST (\$)	15,000	50,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	3507	3507
REMOVED, LBS.	3133.8	2167.3
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	7,000	29,100
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TREATMENT COST (¢/1000 gals)	12.5	38.0
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STORMWATER MANAGEMENT SUMMARY

SHAWSHEEN RIVER BASIN

TOWN	NORTH ANDOVER	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	907	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	24.7	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	264	
SUSP. SOLIDS, LBS.	3160	
BOD ₅	464	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	16.9	16.9
% TREATED	68.4	68.4
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	250.8	250.8
SUSP. SOLIDS, LBS.	2844	2054
BOD ₅ , LBS.	394.4	185.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	13.2	13.2
SUSP. SOLIDS, LBS.	316	1106
BOD ₅ , LBS.	69.6	278.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.3	1.3
SUSP. SOLIDS mg/l	15.3	15.3
BOD ₅ mg/l	2.3	2.3
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.5	5.4
BOD ₅ mg/l	0.3	1.4
TOTAL CAPITAL COST (\$)	550,000	1,650,000
ANNUAL O&M COST (\$)	13,000	40,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	3624	3624
REMOVED, LBS.	3238.4	2239.6
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	6,200	26,700
TREATMENT COST (¢/1000 gals)	12.8	38.9

STORMWATER MANAGEMENT SUMMARY

SHAWSHEEN RIVER BASIN

TOWN	TEWKSBURY	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	3854	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	119.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1677	
SUSP. SOLIDS, LBS.	19946	
BOD ₅	2933	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	81.6	81.6
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1593.2	1593.2
SUSP. SOLIDS, LBS.	17951.4	12964.9
BOD ₅ , LBS.	2493	1173.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	83.8	83.8
SUSP. SOLIDS, LBS.	1994.6	6981.1
BOD ₅ , LBS.	440	1759.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	20.1	20.1
BOD ₅ mg/l	3.0	3.0
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	2.0	7.0
BOD ₅ mg/l	0.4	1.8
TOTAL CAPITAL COST (\$)	1,725,000	3,750,000
ANNUAL O&M COST (\$)	61,000	195,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	22875	22875
REMOVED, LBS.	20444.4	14138.2
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	19,300	60,700
TREATMENT COST (¢/1000 gals)	9.0	23.2

STORMWATER MANAGEMENT SUMMARY

SHAWSHEEN RIVER BASIN

TOWN	WILMINGTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	421	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	14.3	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	262	
SUSP. SOLIDS, LBS.	3129	
BOD ₅	460	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	9.9	9.9
% TREATED	69.2	69.2
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	248.9	248.9
SUSP. SOLIDS, LBS.	2816.1	2033.8
BOD ₅ , LBS.	391	184
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	13.1	13.1
SUSP. SOLIDS, LBS.	312.9	1095.2
BOD ₅ , LBS.	69	276
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT	2.2	2.2
SETT. SOLIDS mg/l	2.2	2.2
SUSP. SOLIDS mg/l	26.2	26.2
BOD ₅ mg/l	3.9	3.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.6	9.2
BOD ₅ mg/l	0.6	2.3
TOTAL CAPITAL COST (\$)	350,000	1,300,000
ANNUAL O&M COST (\$)	8,000	25,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	3589	3589
REMOVED, LBS.	3207.1	2217.8
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	3,900	21,000
TREATMENT COST (¢/1000 gals)	14.3	49.7

STORMWATER MANAGEMENT SUMMARY

SHAWSHEEN RIVER BASIN

TOWN	WOBURN	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	34	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	0.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	8	
SUSP. SOLIDS, LBS.	92	
BOD ₅	14	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		8
SUSP. SOLIDS, LBS.		92
BOD ₅ , LBS.		14
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		13.8
BOD ₅ mg/l		2.1
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		13.8
BOD ₅ mg/l		2.1
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		106
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

SOUTH RIVER BASIN

TOWN	DUXBURY	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	452	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	13.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	149	
SUSP. SOLIDS, LBS.	1772	
BOD ₅	261	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	9.0	9.0
% TREATED	68.7	68.7
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	141.5	141.5
SUSP. SOLIDS, LBS.	1594.8	1151.8
BOD ₅ , LBS.	221.8	104.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	7.5	7.5
SUSP. SOLIDS, LBS.	177.2	620.2
BOD ₅ , LBS.	39.2	156.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.4	1.4
SUSP. SOLIDS mg/l	16.2	16.2
BOD ₅ mg/l	2.4	2.4
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.07	0.07
SUSP. SOLIDS mg/l	1.6	5.7
BOD ₅ mg/l	0.4	1.4
TOTAL CAPITAL COST (\$)	325,000	1,250,000
ANNUAL O&M COST (\$)	7,000	20,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	2033	2033
REMOVED, LBS.	1816.6	1256.2
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	3,600	20,000
TREATMENT COST (¢/1000 gals)	14.3	50.8

STORMWATER MANAGEMENT SUMMARY

SOUTH RIVER BASIN

TOWN	MARSHFIELD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	3125	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	85.5	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	919	
SUSP. SOLIDS, LBS.	10984	
BOD ₅	1615	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	58.6	SMD
% TREATED	68.5	SMD
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	873	873
SUSP. SOLIDS, LBS.	9885.6	7139.6
BOD ₅ , LBS.	1372.7	646
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	46	46
SUSP. SOLIDS, LBS.	1098.4	3844.4
BOD ₅ , LBS.	242.2	969
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.3	1.3
SUSP. SOLIDS mg/l	15.4	15.4
BOD ₅ mg/l	2.3	2.3
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.5	5.4
BOD ₅ mg/l	0.3	1.4
TOTAL CAPITAL COST (\$)	1,300,000	3,000,000
ANNUAL O&M COST (\$)	43,000	140,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	12,599	12,599
REMOVED, LBS.	11,258.3	7,785.6
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	14,500	48,500
TREATMENT COST (¢/1000 gals)	9.7	25.1

STORMWATER MANAGEMENT SUMMARY
SOUTH RIVER BASIN

TOWN	SCITUATE		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		157	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		4.5	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		42	
SUSP. SOLIDS, LBS.		501	
BOD ₅		74	
STORMWATER TREATMENT			
TREAT. DESCRIP.		NT	SP
VOLUME TREAT., MG		-	3.1
% TREATED		-	68.9
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		-	39.9
SUSP. SOLIDS, LBS.		-	450.9
BOD ₅ , LBS.		-	62.9
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		42	2.1
SUSP. SOLIDS, LBS.		501	50.1
BOD ₅ , LBS.		74	11.1
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.1	1.1
SUSP. SOLIDS mg/l		13.3	13.3
BOD ₅ mg/l		2.0	2.0
AFTER TREATMENT			
SETT. SOLIDS mg/l		1.1	0.06
SUSP. SOLIDS mg/l		13.3	1.3
BOD ₅ mg/l		2.0	0.3
TOTAL CAPITAL COST (\$)		-	150,000
ANNUAL O&M COST (\$)		-	3,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		575	575
REMOVED, LBS.		-	513.8
% REMOVED		-	89.4
CAPITAL COSTS/% REMOVAL (\$)		-	1,700
TREATMENT COST (¢/1000 gals)		-	20.0

STORMWATER MANAGEMENT SUMMARY

STONY BROOK BASIN

TOWN BOXBOROUGH

URBAN DRAINAGE AREA

YEAR	2000
ACRES	512

TOTAL STORM RUNOFF VOL.

MIL. GAL.	12.4
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TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	166
SUSP. SOLIDS, LBS.	1986
BOD ₅	292

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	\$MD
VOLUME TREAT., MG	8.5	8.5
% TREATED	68.5	68.5

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	157.7	157.7
SUSP. SOLIDS, LBS.	1787.4	1290.9
BOD ₅ , LBS.	248.2	116.8

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	8.3	8.3
SUSP. SOLIDS, LBS.	198.6	695.1
BOD ₅ , LBS.	43.8	175.2

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT

SETT. SOLIDS mg/l	1.6	1.6
SUSP. SOLIDS mg/l	19.2	19.2
BOD ₅ mg/l	2.8	2.8

AFTER TREATMENT

SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	1.9	6.7
BOD ₅ mg/l	0.4	1.7

TOTAL CAPITAL COST (\$)

300,000	1,225,000
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ANNUAL O&M COST (\$)

6,000	20,000
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SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	2278	2278
REMOVED, LBS.	2035.6	1407.7
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)

3,400	19,800
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TREATMENT COST (¢/1000 gals)

14.3	52.9
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STORMWATER MANAGEMENT SUMMARY

STONY BROOK BASIN

TOWN CHELMSFORD

URBAN DRAINAGE AREA

YEAR	2000
ACRES	1633
TOTAL STORM RUNOFF VOL.	
MIL. GAL.	46.5

TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	576
SUSP. SOLIDS, LBS.	6871
BOD ₅	1010

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	31.9	31.9	31.9
% TREATED	68.6	68.6	68.6

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	547.2	547.2	518.4
SUSP. SOLIDS, LBS.	6183.9	4466.2	3092
BOD ₅ , LBS.	858.5	404	202

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	28.8	28.8	57.6
SUSP. SOLIDS, LBS.	687.1	2404.8	3779
BOD ₅ , LBS.	151.5	606	808

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.5	1.5	1.5
SUSP. SOLIDS mg/l	17.7	17.7	17.7
BOD ₅ mg/l	2.6	2.6	2.6
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.07	0.07	0.1
SUSP. SOLIDS mg/l	1.8	6.2	9.7
BOD ₅ mg/l	0.4	1.6	2.1

TOTAL CAPITAL COST (\$)	850,000	2,250,000	4,700,000
ANNUAL O&M COST (\$)	23,000	80,000	230,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	7881	7881	7881
REMOVED, LBS.	7042.4	4870.2	3294
% REMOVED	89.4	61.8	41.8

CAPITAL COSTS/% REMOVAL (\$)	9,500	36,400	112,000
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TREATMENT COST (¢/1000 gals)	11.0	30.0	76.9
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STORMWATER MANAGEMENT SUMMARY

STONY BROOK BASIN

TOWN HARVARD

URBAN DRAINAGE AREA

YEAR 2000

ACRES 126

TOTAL STORM RUNOFF VOL.
MIL. GAL. 2.7

TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS. 22

SUSP. SOLIDS, LBS. 264

BOD₅ 39

STORMWATER TREATMENT

TREAT. DESCRIP. NT

VOLUME TREAT., MG -

% TREATED -

POLLUTANT REMOVALS

SETT. SOLIDS, LBS. -

SUSP. SOLIDS, LBS. -

BOD₅, LBS. -

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS. 22

SUSP. SOLIDS, LBS. 264

BOD₅, LBS. 39

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT

SETT. SOLIDS mg/l 1.0

SUSP. SOLIDS mg/l 11.7

BOD₅ mg/l 1.7

AFTER TREATMENT

SETT. SOLIDS mg/l 1.0

SUSP. SOLIDS mg/l 11.7

BOD₅ mg/l 1.7

TOTAL CAPITAL COST (\$) -

ANNUAL O&M COST (\$) -

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS. 303

REMOVED, LBS. -

% REMOVED -

CAPITAL COSTS/% REMOVAL (\$) -

TREATMENT COST (¢/1000 gals) -

STORMWATER MANAGEMENT SUMMARY

STONY BROOK BASIN

TOWN LITTLETON

URBAN DRAINAGE AREA

YEAR	2000
ACRES	1723

TOTAL STORM RUNOFF VOL.

MIL. GAL.	49.8
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TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	500
SUSP. SOLIDS, LBS.	5948
BOD ₅	874

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	34.1	34.1
% TREATED	68.5	68.5

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	475	475
SUSP. SOLIDS, LBS.	5353.2	3866.2
BOD ₅ , LBS.	742.9	349.6

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	25	25
SUSP. SOLIDS, LBS.	594.8	2081.8
BOD ₅ , LBS.	131.1	524.4

AVG. POLLUTANT CONCENTRATIONS

	SP	SMD
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.2	1.2
SUSP. SOLIDS mg/l	14.3	-
BOD ₅ mg/l	2.1	-
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.4	5.0
BOD ₅ mg/l	0.3	1.3

TOTAL CAPITAL COST (\$)

875,000	2,250,000
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ANNUAL O&M COST (\$)

25,000	80,000
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SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	6822	6822
REMOVED, LBS.	6096.1	4215.8
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)

9,800	36,400
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TREATMENT COST (¢/1000 gals)

11.2	30.8
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STORMWATER MANAGEMENT SUMMARY

STONY BROOK BASIN

TOWN	WESTFORD	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2898	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	96.6	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1204	
SUSP. SOLIDS, LBS.	14202	
BOD ₅	2087	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	66.2	66.2
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1143.8	1143.8
SUSP. SOLIDS, LBS.	12781.8	9231.3
BOD ₅ , LBS.	1774	834.8
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	60.2	60.2
SUSP. SOLIDS, LBS.	1420.2	4970.7
BOD ₅ , LBS.	313	1252.2
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.5	1.5
SUSP. SOLIDS mg/l	17.6	17.6
BOD ₅ mg/l	2.6	2.6
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.07	0.07
SUSP. SOLIDS mg/l	1.8	6.2
BOD ₅ mg/l	0.4	1.6
TOTAL CAPITAL COST (\$)	2,000,000	4,250,000
ANNUAL O&M COST (\$)	75,000	235,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	16289	16289
REMOVED, LBS.	14555.8	10066.1
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	22,400	68,800
TREATMENT COST (¢/1000 gals)	8.8	27.2

STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN	ASHLAND	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2183	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	77.2	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1211	
SUSP. SOLIDS, LBS.	24377	
BOD ₅	2114	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	52.9	52.9
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1150.5	1150.5
SUSP. SOLIDS, LBS.	12939.3	9345
BOD ₅ , LBS.	1796.9	845.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	60.5	60.5
SUSP. SOLIDS, LBS.	1437.7	5032
BOD ₅ , LBS.	317.1	1268.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.9	1.9
SUSP. SOLIDS mg/l	22.3	22.3
BOD ₅ mg/l	3.3	3.3
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.2	7.8
BOD ₅ mg/l	0.5	2.0
TOTAL CAPITAL COST (\$)	1,245,000	2,925,000
ANNUAL O&M COST (\$)	39,000	125,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	16491	16491
REMOVED, LBS.	14736.2	10190.6
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	13,900	47,300
TREATMENT COST (¢/1000 gals)	9.7	25.8

STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN FRAMINGHAM

URBAN DRAINAGE AREA

YEAR	2000
ACRES	9824

TOTAL STORM RUNOFF VOL.

MIL. GAL.	328.1
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TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS.	6925
SUSP. SOLIDS, LBS.	82563
BOD ₅	12142

STORMWATER TREATMENT

TREAT. DESCRIP.

VOLUME TREAT., MG	SP	SMD	MD
% TREATED	225.0	225.0	225.0
	68.6	68.6	68.6

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	6578.8	6578.8	6232.5
SUSP. SOLIDS, LBS.	74306.7	53666	37153.4
BOD ₅ , LBS.	10320.7	4856.8	2428.4

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	346.2	346.2	692.5
SUSP. SOLIDS, LBS.	8256.3	28897	45409.6
BOD ₅ , LBS.	1821.3	7285.2	9713.6

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT

SETT. SOLIDS mg/l	2.5	2.5	2.5
SUSP. SOLIDS mg/l	30.2	30.2	30.2
BOD ₅ mg/l	4.4	4.4	4.4

AFTER TREATMENT

SETT. SOLIDS mg/l	0.1	0.1	0.3
SUSP. SOLIDS mg/l	3.0	10.6	16.6
BOD ₅ mg/l	0.7	2.7	3.5

TOTAL CAPITAL COST (\$)

4,100,000	7,100,000	33,000,000
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ANNUAL O&M COST (\$)

165,000	520,000	1,650,000
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SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.

REMOVED, LBS.	94705	94705	94705
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% REMOVED

CAPITAL COSTS/% REMOVAL (\$)

45,900	115,000	790,000
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TREATMENT COST (¢/1000 gals)

8.2	18.8	72.5
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STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN HOPKINTON

URBAN DRAINAGE AREA

YEAR	2000
ACRES	2368

TOTAL STORM RUNOFF VOL.	
MIL. GAL.	72.1

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	1032
SUSP. SOLIDS, LBS.	12226
BOD ₅	1798

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	49.4	49.4
% TREATED	68.5	68.5

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	980.4	980.4
SUSP. SOLIDS, LBS.	11003.4	7946.9
BOD ₅ , LBS.	1528.3	719.2

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	51.6	51.6
SUSP. SOLIDS, LBS.	1222.6	4279.1
BOD ₅ , LBS.	269.7	1078.8

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	20.3	20.3
BOD ₅ mg/l	3.0	3.0
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.0	7.1
BOD ₅ mg/l	0.4	1.8

TOTAL CAPITAL COST (\$)	1,200,000	2,800,000
ANNUAL O&M COST (\$)	38,000	115,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	14,024	14,024
REMOVED, LBS.	12531.7	8666.1
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	13,400	45,300
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TREATMENT COST (¢/1000 gals)	10.0	26.3
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STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN	HUDSON	
URBAN DRAINAGE AREA		
YEAR		2000
ACRES		16
TOTAL STORM RUNOFF VOL.		
MIL. GAL.		0.5
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.		5
SUSP. SOLIDS, LBS.		56
BOD ₅		8
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		5
SUSP. SOLIDS, LBS.		56
BOD ₅ , LBS.		8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		13.4
BOD ₅ mg/l		1.9
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		13.4
BOD ₅ mg/l		1.9
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		64
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN LINCOLN

URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	441	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	11.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	76	
SUSP. SOLIDS, LBS.	917	
BOD ₅	135	
STORMWATER TREATMENT		
TREAT. DESCRIP.	NT	SP
VOLUME TREAT., MG	-	7.6
% TREATED	-	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	-	72.2
SUSP. SOLIDS, LBS.	-	825.3
BOD ₅ , LBS.	-	114.7
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	76	3.8
SUSP. SOLIDS, LBS.	917	91.7
BOD ₅ , LBS.	135	20.3
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	0.8	0.8
SUSP. SOLIDS mg/l	9.9	9.9
BOD ₅ mg/l	1.5	1.5
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.8	0.04
SUSP. SOLIDS mg/l	9.9	1.0
BOD ₅ mg/l	1.5	0.2
TOTAL CAPITAL COST (\$)	-	260,000
ANNUAL O&M COST (\$)	-	5,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	1052	1052
REMOVED, LBS.	-	940
% REMOVED	-	89.4
CAPITAL COSTS/% REMOVAL (\$)	-	2,900
TREATMENT COST (¢/1000 gals)	-	15.0

STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN	MARLBOROUGH		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	3102		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	102.8		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	2211		
SUSP. SOLIDS, LBS.	26388		
BOD ₅	3881		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		70.5	70.5
% TREATED		68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		2100.5	2100.5
SUSP. SOLIDS, LBS.		23749.2	17152.2
BOD ₅ , LBS.		3298.9	1552.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		110.5	110.5
SUSP. SOLIDS, LBS.		2638.8	9235.8
BOD ₅ , LBS.		582.1	2328.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		2.6	2.6
SUSP. SOLIDS mg/l		30.8	30.8
BOD ₅ mg/l		4.5	4.5
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.1	0.1
SUSP. SOLIDS mg/l		3.1	10.8
BOD ₅ mg/l		0.7	2.7
TOTAL CAPITAL COST (\$)		1,525,000	3,450,000
ANNUAL O&M COST (\$)		52,000	165,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		30269	30269
REMOVED, LBS.		27048.1	18704.6
% REMOVED		89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)		17,100	55,800
TREATMENT COST (¢/1000 gals)		9.3	24.0

STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN NATICK

URBAN DRAINAGE AREA

YEAR	2000
ACRES	3199

TOTAL STORM RUNOFF VOL.	
MIL. GAL.	108.8

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	1641
SUSP. SOLIDS, LBS.	19489
BOD ₅	2866

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	74.7	74.7
% TREATED	68.7	68.7

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	1559	1559
SUSP. SOLIDS, LBS.	17540.1	12667.8
BOD ₅ , LBS.	2436.1	1146.4

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	82	82
SUSP. SOLIDS, LBS.	1948.9	6821.2
BOD ₅ , LBS.	429.9	1719.6

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.8	1.8
SUSP. SOLIDS mg/l	21.5	21.5
BOD ₅ mg/l	3.2	3.2
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.2	7.5
BOD ₅ mg/l	0.5	1.9

TOTAL CAPITAL COST (\$)	1,600,000	3,500,000
ANNUAL O&M COST (\$)	55,000	175,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	22355	22355
REMOVED, LBS.	19976.2	13814.2
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	17,900	56,600
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TREATMENT COST (¢/1000 gals)	9.1	23.6
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STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN NORTHBOROUGH

URBAN DRAINAGE AREA

YEAR 2000
ACRES 70

TOTAL STORM RUNOFF VOL.
MIL. GAL. 2.4

TOTAL STORMWATER POLLUTANTS
SETT. SOLIDS, LBS. 36
SUSP. SOLIDS, LBS. 64
BOD₅ 64

STORMWATER TREATMENT
TREAT. DESCRIP. NT
VOLUME TREAT., MG -
& TREATED -

POLLUTANT REMOVALS
SETT. SOLIDS, LBS. -
SUSP. SOLIDS, LBS. -
BOD₅, LBS. -

POLLUTANTS DISCHARGED
SETT. SOLIDS, LBS. 36
SUSP. SOLIDS, LBS. 435
BOD₅, LBS. 64

AVG. POLLUTANT CONCENTRATIONS
BEFORE TREATMENT
SETT. SOLIDS mg/l 1.8
SUSP. SOLIDS mg/l 21.7
BOD₅ mg/l 3.2
AFTER TREATMENT
SETT. SOLIDS mg/l 1.8
SUSP. SOLIDS mg/l 21.7
BOD₅ mg/l 3.2

TOTAL CAPITAL COST (\$) -
ANNUAL O&M COST (\$) -

SUSP. SOLIDS + BOD₅
BEFORE TREATMENT, LBS. 499
REMOVED, LBS. -
& REMOVED -

CAPITAL COSTS/& REMOVAL (\$) -

TREATMENT COST (¢/1000 gals) -

STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN	SHERBORN		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	360		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	10.1		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	82		
SUSP. SOLIDS, LBS.	981		
BOD ₅	144		
STORMWATER TREATMENT			
TREAT. DESCRIP.	NT	SP	
VOLUME TREAT., MG	-	6.9	
% TREATED	-	68.3	
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.	-	77.9	
SUSP. SOLIDS, LBS.	-	882.9	
BOD ₅ , LBS.	-	122.4	
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	82	4.1	
SUSP. SOLIDS, LBS.	981	98.1	
BOD ₅ , LBS.	144	21.6	
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	1.0	1.0	
SUSP. SOLIDS mg/l	11.6	11.6	
BOD ₅ mg/l	1.7	1.7	
AFTER TREATMENT			
SETT. SOLIDS mg/l	1.0	0.05	
SUSP. SOLIDS mg/l	11.6	1.2	
BOD ₅ mg/l	1.7	0.3	
TOTAL CAPITAL COST (\$)	-	275,000	
ANNUAL O&M COST (\$)	-	6,000	
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	1125	1125	
REMOVED, LBS.	-	1005.3	
% REMOVED	-	89.4	
CAPITAL COSTS/% REMOVAL (\$)	-	3,100	
TREATMENT COST (¢/1000 gals)	-	15.2	

STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN SOUTHBOROUGH

URBAN DRAINAGE AREA

YEAR 2000

ACRES 2512

TOTAL STORM RUNOFF VOL.

MIL. GAL. 83.2

TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS. 1554

SUSP. SOLIDS, LBS. 18531

BOD₅ 2726

STORMWATER TREATMENT

TREAT. DESCRIP.

SP

SMD

VOLUME TREAT., MG

57.1

57.1

% TREATED

68.6

68.6

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.

1476.3

1476.3

SUSP. SOLIDS, LBS.

16677.9

12045.1

BOD₅, LBS.

2317.1

1090.4

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.

77.7

77.7

SUSP. SOLIDS, LBS.

1853.1

6485.9

BOD₅, LBS.

408.9

1635.6

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT

SETT. SOLIDS mg/l

2.2

2.2

SUSP. SOLIDS mg/l

26.7

26.7

BOD₅ mg/l

3.9

3.9

AFTER TREATMENT

SETT. SOLIDS mg/l

0.1

0.1

SUSP. SOLIDS mg/l

2.7

9.3

BOD₅ mg/l

0.6

2.4

TOTAL CAPITAL COST (\$)

1,200,000 3,050,000

ANNUAL O&M COST (\$)

43,000 135,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.

21257

21257

REMOVED, LBS.

18995

13135.5

% REMOVED

89.4

61.8

CAPITAL COSTS/% REMOVAL (\$)

13,400

49,400

TREATMENT COST (¢/1000 gals)

9.8

25.3

STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN	SUDBURY	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	6742	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	192.3	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	1779	
SUSP. SOLIDS, LBS.	21253	
BOD ₅	3125	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	131.9	131.9
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1690	1690
SUSP. SOLIDS, LBS.	19127.7	13814.5
BOD ₅ , LBS.	2656.2	1250
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	89	89
SUSP. SOLIDS, LBS.	2125.3	7438.5
BOD ₅ , LBS.	468.8	1875
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.1	1.1
SUSP. SOLIDS mg/l	13.3	13.3
BOD ₅ mg/l	1.9	1.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.06	0.06
SUSP. SOLIDS mg/l	1.3	4.6
BOD ₅ mg/l	0.3	1.2
TOTAL CAPITAL COST (\$)	2,550,000	5,000,000
ANNUAL O&M COST (\$)	98,000	310,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	24378	24378
REMOVED, LBS.	21783.9	15064.5
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	28,500	80,900
TREATMENT COST (¢/1000 gals)	8.5	20.8

STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN	WAYLAND		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		5830	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		161.9	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		1382	
SUSP. SOLIDS, LBS.		16532	
BOD ₅		2431	
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		111.0	111.0
% TREATED		68.6	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		1312.9	1312.9
SUSP. SOLIDS, LBS.		14878.8	10745.8
BOD ₅ , LBS.		2066.4	972.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		69.1	69.1
SUSP. SOLIDS, LBS.		1653.2	5786.2
BOD ₅ , LBS.		364.6	1458.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.0	1.0
SUSP. SOLIDS mg/l		12.2	12.2
BOD ₅ mg/l		1.8	1.8
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.05	0.05
SUSP. SOLIDS mg/l		1.2	4.3
BOD ₅ mg/l		0.3	1.8
TOTAL CAPITAL COST (\$)		2,200,000	4,500,000
ANNUAL O&M COST (\$)		82,000	265,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		18963	18963
REMOVED, LBS.		16945.2	11718.2
% REMOVED		89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)		24,600	72,800
TREATMENT COST (¢/1000 gals)		8.7	21.6

STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN WESTBOROUGH

URBAN DRAINAGE AREA

YEAR 2000

ACRES 3324

TOTAL STORM RUNOFF VOL.

MIL. GAL. 119.6

TOTAL STORMWATER POLLUTANTS

SETT. SOLIDS, LBS. 1950

SUSP. SOLIDS, LBS. 23083

BOD₅ 3394

STORMWATER TREATMENT

TREAT. DESCRIP.

SP

SMD

VOLUME TREAT., MG

81.9

81.9

% TREATED

68.5

68.5

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.

1852.5

1852.5

SUSP. SOLIDS, LBS.

20774.7

15004

BOD₅, LBS.

2884.9

1357.6

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.

97.5

97.5

SUSP. SOLIDS, LBS.

2308.3

8079

BOD₅, LBS.

509.1

2036.4

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT

SETT. SOLIDS mg/l

2.0

2.0

SUSP. SOLIDS mg/l

23.1

23.1

BOD₅ mg/l

3.4

3.4

AFTER TREATMENT

SETT. SOLIDS mg/l

0.1

0.1

SUSP. SOLIDS mg/l

2.3

8.1

BOD₅ mg/l

0.5

2.0

TOTAL CAPITAL COST (\$)

1,740,000 3,750,000

ANNUAL O&M COST (\$)

62,000 195,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.

26477

26477

REMOVED, LBS.

23659.6

16361.6

% REMOVED

89.4

61.8

CAPITAL COSTS/% REMOVAL (\$)

19,500

60,700

TREATMENT COST (¢/1000 gals)

9.0

23.2

STORMWATER MANAGEMENT SUMMARY

SUDBURY RIVER BASIN

TOWN WESTON

URBAN DRAINAGE AREA

YEAR	2000
ACRES	334

TOTAL STORM RUNOFF VOL.	8.8
MIL. GAL.	

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	80
SUSP. SOLIDS, LBS.	955
BOD ₅	141

STORMWATER TREATMENT

TREAT. DESCRIPT.	NT	SP
VOLUME TREAT., MG	-	6.0
% TREATED	-	68.2

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	-	76
SUSP. SOLIDS, LBS.	-	859.5
BOD ₅ , LBS.	-	119.8

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	80	4
SUSP. SOLIDS, LBS.	955	95.5
BOD ₅ , LBS.	141	21.2

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT

SETT. SOLIDS mg/l	1.1	1.1
SUSP. SOLIDS mg/l	13.0	13.0
BOD ₅ mg/l	1.9	1.9

AFTER TREATMENT

SETT. SOLIDS mg/l	1.1	0.05
SUSP. SOLIDS mg/l	13.0	1.3
BOD ₅ mg/l	1.9	0.3

TOTAL CAPITAL COST (\$)	-	240,000
ANNUAL O&M COST (\$)	-	4,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	1096	1096
REMOVED, LBS.	-	979.3
% REMOVED	-	89.4

CAPITAL COSTS/% REMOVAL (\$)	-	2,700
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TREATMENT COST (¢/1000 gals)	-	15.5
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STORMWATER MANAGEMENT SUMMARY

TAUNTON RIVER BASIN

TOWN	AVON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	2240	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	35.7	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	502	
SUSP. SOLIDS, LBS.	5968	
BOD ₅	878	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	24.5	24.5
% TREATED	68.6	68.6
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	476.9	476.9
SUSP. SOLIDS, LBS.	5371.2	3879.2
BOD ₅ , LBS.	746.3	351.2
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	25.1	25.1
SUSP. SOLIDS, LBS.	596.8	2088.8
BOD ₅ , LBS.	131.7	526.8
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	20.0	20.0
BOD ₅ mg/l	2.9	2.9
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	2.0	7.0
BOD ₅ mg/l	0.4	1.8
TOTAL CAPITAL COST (\$)	700,000	2,000,000
ANNUAL O&M COST (\$)	18,000	60,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	6846	6846
REMOVED, LBS.	6117.5	4230.4
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	7,800	32,400
TREATMENT COST (¢/1000 gals)	11.8	33.5

STORMWATER MANAGEMENT SUMMARY

TAUNTON RIVER BASIN

TOWN	HOLBROOK	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	234	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	7.9	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	102	
SUSP. SOLIDS, LBS.	1201	
BOD ₅	177	
STORMWATER TREATMENT		
TREAT. DESCRIP.	NT	SP
VOLUME TREAT., MG	-	5.4
% TREATED	-	68.4
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	-	96.9
SUSP. SOLIDS, LBS.	-	1,080.9
BOD ₅ , LBS.	-	150.5
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	102	5.1
SUSP. SOLIDS, LBS.	1201	120.1
BOD ₅ , LBS.	177	26.5
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.5	1.5
SUSP. SOLIDS mg/l	18.2	18.2
BOD ₅ mg/l	2.7	2.7
AFTER TREATMENT		
SETT. SOLIDS mg/l	1.5	0.08
SUSP. SOLIDS mg/l	18.2	1.8
BOD ₅ mg/l	2.7	0.4
TOTAL CAPITAL COST (\$)	-	200,000
ANNUAL O&M COST (\$)	-	5,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	1378	1378
REMOVED, LBS.	-	1231.4
% REMOVED	89.4	89.4
CAPITAL COSTS/% REMOVAL (\$)	-	2200
TREATMENT COST (¢/1000 gals)	-	16.0

STORMWATER MANAGEMENT SUMMARY

TAUNTON RIVER BASIN

TOWN	PEMBROKE	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	244	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	6.4	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	47	
SUSP. SOLIDS, LBS.	569	
BOD ₅	84	
STORMWATER TREATMENT		
TREAT. DESCRIP.	NT	SP
VOLUME TREAT., MG	-	4.4
% TREATED	-	68.8
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	-	44.7
SUSP. SOLIDS, LBS.	-	512.1
BOD ₅ , LBS.	-	71.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	47	2.3
SUSP. SOLIDS, LBS.	569	56.9
BOD ₅ , LBS.	84	12.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	0.9	0.9
SUSP. SOLIDS mg/l	10.7	10.7
BOD ₅ mg/l	1.6	1.6
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.9	0.04
SUSP. SOLIDS mg/l	10.7	1.1
BOD ₅ mg/l	1.6	0.2
TOTAL CAPITAL COST (\$)	-	200,000
ANNUAL O&M COST (\$)	-	5,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	653	653
REMOVED, LBS.	-	583.5
% REMOVED	-	89.4
CAPITAL COSTS/% REMOVAL (\$)	-	2200
TREATMENT COST (¢/1000 gals)	-	16.0

STORMWATER MANAGEMENT SUMMARY

TAUNTON RIVER BASIN

TOWN	ROCKLAND	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	40	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	0.9	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	7	
SUSP. SOLIDS, LBS.	86	
BOD ₅	13	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		7
SUSP. SOLIDS, LBS.		86
BOD ₅ , LBS.		13
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		0.9
SUSP. SOLIDS mg/l		11.5
BOD ₅ mg/l		1.7
AFTER TREATMENT		
SETT. SOLIDS mg/l		0.9
SUSP. SOLIDS mg/l		11.5
BOD ₅ mg/l		1.7
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		99
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

TAUNTON RIVER BASIN

TOWN SHARON

URBAN DRAINAGE AREA

YEAR	2000
ACRES	700

TOTAL STORM RUNOFF VOL.	
MIL. GAL.	20.9

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	230
SUSP. SOLIDS, LBS.	2717
BOD ₅	399

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	14.3	14.3
% TREATED	68.4	68.4

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	218.5	218.5
SUSP. SOLIDS, LBS.	2445.3	1766
BOD ₅ , LBS.	339.2	159.6

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	11.5	11.5
SUSP. SOLIDS, LBS.	271.7	951
BOD ₅ , LBS.	59.8	239.4

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.3	1.3
SUSP. SOLIDS mg/l	15.6	15.6
BOD ₅ mg/l	2.3	2.3
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.07	0.07
SUSP. SOLIDS mg/l	1.6	5.5
BOD ₅ mg/l	0.3	1.4

TOTAL CAPITAL COST (\$)	490,000	1,500,000
ANNUAL O&M COST (\$)	10,000	35,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	3,116	3,116
REMOVED, LBS.	2784.5	1925.6
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	5500	24,300
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TREATMENT COST (¢/1000 gals)	13.5	43.0
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STORMWATER MANAGEMENT SUMMARY

TAUNTON RIVER BASIN

TOWN	STOUGHTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	820	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	30.1	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	545	
SUSP. SOLIDS, LBS.	6458	
BOD ₅	949	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	20.7	20.7
% TREATED	68.8	68.8
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	517.8	517.8
SUSP. SOLIDS, LBS.	5812.2	4197.7
BOD ₅ , LBS.	806.6	379.6
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	27.2	27.2
SUSP. SOLIDS, LBS.	645.8	2260.3
BOD ₅ , LBS.	142.4	569.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	2.2	2.2
SUSP. SOLIDS mg/l	25.7	25.7
BOD ₅ mg/l	3.8	3.8
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.1	0.1
SUSP. SOLIDS mg/l	2.6	9.0
BOD ₅ mg/l	0.6	2.3
TOTAL CAPITAL COST (\$)	625,000	1,800,000
ANNUAL O&M COST (\$)	15,000	50,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	7407	7407
REMOVED, LBS.	6118.8	4577.3
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	7,000	29,100
TREATMENT COST (¢/1000 gals)	12.5	38.0

STORMWATER MANAGEMENT SUMMARY

TAUNTON RIVER BASIN

TOWN WRENTHAM

URBAN DRAINAGE AREA

YEAR	2000
ACRES	1055

TOTAL STORM RUNOFF VOL.	
MIL. GAL.	31.7

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	454
SUSP. SOLIDS, LBS.	5412
BOD ₅	796

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	21.7	21.7
% TREATED	68.4	68.4

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	431.3	431.3
SUSP. SOLIDS, LBS.	4870.8	3517.8
BOD ₅ , LBS.	676.6	318.4

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	22.7	22.7
SUSP. SOLIDS, LBS.	541.2	1894.2
BOD ₅ , LBS.	119.4	477.6

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	20.5	20.5
BOD ₅ mg/l	3.0	3.0
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.0	7.2
BOD ₅ mg/l	0.5	1.8

TOTAL CAPITAL COST (\$)	650,000	1,850,000
ANNUAL O&M COST (\$)	16,000	55,000

SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	6208	6208
REMOVED, LBS.	5547.4	3836.2
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	7,300	29,900
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TREATMENT COST (¢/1000 gals)	12.1	35.9
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STORMWATER MANAGEMENT SUMMARY

WEYMOUTH BACK RIVER

TOWN	ABINGTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	95	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	2.3	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	17	
SUSP. SOLIDS, LBS.	205	
BOD ₅	30	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	17	
SUSP. SOLIDS, LBS.	205	
BOD ₅ , LBS.	30	
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		0.9
SUSP. SOLIDS mg/l		10.7
BOD ₅ mg/l		1.6
AFTER TREATMENT		
SETT. SOLIDS mg/l		0.9
SUSP. SOLIDS mg/l		10.7
BOD ₅ mg/l		1.6
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	235	
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

WEYMOUTH BACK RIVER

TOWN	BRAINTREE	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	48	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	1.2	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	12	
SUSP. SOLIDS, LBS.	141	
BOD ₅	21	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		12
SUSP. SOLIDS, LBS.		141
BOD ₅ , LBS.		21
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		14.1
BOD ₅ mg/l		2.1
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		14.1
BOD ₅ mg/l		2.1
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		162
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

WEYMOUTH BACK RIVER

TOWN	HINGHAM		
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	1549		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	48.8		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	916		
SUSP. SOLIDS, LBS.	10875		
BOD ₅	1600		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		34.4	34.4
% TREATED		68.7	68.7
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.			
SUSP. SOLIDS, LBS.	9787.5		7068.7
BOD ₅ , LBS.	1360		640
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	45.8		45.8
SUSP. SOLIDS, LBS.	1087.5		3806.3
BOD ₅ , LBS.	240		960
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.3		2.3
SUSP. SOLIDS mg/l	26.7		26.7
BOD ₅ mg/l	3.9		3.9
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1		0.1
SUSP. SOLIDS mg/l	2.7		9.4
BOD ₅ mg/l	0.6		2.4
TOTAL CAPITAL COST (\$)	875,000	2,250,000	
ANNUAL O&M COST (\$)	25,000	80,000	
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	12475		12475
REMOVED, LBS.	11147.5		7708.7
% REMOVED	89.4		61.8
CAPITAL COSTS/% REMOVAL (\$)	9,800		36,400
TREATMENT COST (¢/1000 gals)	11.2		30.8

STORMWATER MANAGEMENT SUMMARY

WEYMOUTH BACK RIVER

TOWN	HOLBROOK	
URBAN DRAINAGE AREA		
YEAR		2000
ACRES		64
TOTAL STORM RUNOFF VOL.		
MIL. GAL.		1.9
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.		17
SUSP. SOLIDS, LBS.		203
BOD ₅		30
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		17
SUSP. SOLIDS, LBS.		203
BOD ₅ , LBS.		30
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.1
SUSP. SOLIDS mg/l		13.5
BOD ₅ mg/l		2.0
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.1
SUSP. SOLIDS mg/l		13.5
BOD ₅ mg/l		2.0
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		233
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

WEYMOUTH BACK RIVER

TOWN	ROCKLAND		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		459	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		15.9	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		191	
SUSP. SOLIDS, LBS.		2240	
BOD ₅		329	
STORMWATER TREATMENT			
TREAT. DESCRIP.		NT	SP
VOLUME TREAT., MG		-	10.9
% TREATED		-	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		-	181.5
SUSP. SOLIDS, LBS.		-	2016
BOD ₅ , LBS.		-	279.6
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		191	9.5
SUSP. SOLIDS, LBS.		2240	224
BOD ₅ , LBS.		329	49.4
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.4	1.4
SUSP. SOLIDS mg/l		16.9	16.9
BOD ₅ mg/l		2.5	2.5
AFTER TREATMENT			
SETT. SOLIDS mg/l		1.4	0.07
SUSP. SOLIDS mg/l		16.9	1.7
BOD ₅ mg/l		2.5	0.4
TOTAL CAPITAL COST (\$)		-	375,000
ANNUAL O&M COST (\$)		-	9,000
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.		2569	2569
REMOVED, LBS.		-	2295.6
% REMOVED		-	89.4
CAPITAL COSTS/% REMOVAL (\$)		-	4200
TREATMENT COST (¢/1000 gals)		-	14.0

STORMWATER MANAGEMENT SUMMARY

WEYMOUTH BACK RIVER

TOWN	WEYMOUTH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	4485	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	146.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	2071	
SUSP. SOLIDS, LBS.	24599	
BOD ₅	3616	
STORMWATER TREATMENT		
TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	100.6	100.6
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	1967.5	1863.9
SUSP. SOLIDS, LBS.	22139.1	15989.4
BOD ₅ , LBS.	3073.6	1446.4
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	103.5	207.1
SUSP. SOLIDS, LBS.	2459.9	8906.6
BOD ₅ , LBS.	542.4	2169.6
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	20.1	20.1
BOD ₅ mg/l	3.0	3.0
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.2
SUSP. SOLIDS mg/l	2.0	7.0
BOD ₅ mg/l	0.4	1.8
TOTAL CAPITAL COST (\$)	2,000,000	4,250,000
ANNUAL O&M COST (\$)	75,000	235,000
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	28215	28215
REMOVED, LBS.	25212.7	17435.8
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	22,400	68,800
TREATMENT COST (¢/1000 gals)	8.8	22.1

**STORMWATER MANAGEMENT SUMMARY
WEYMOUTH FORE RIVER BASIN**

TOWN	AVON		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		169	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		5.1	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		61	
SUSP. SOLIDS, LBS.		725	
BOD ₅		107	
STORMWATER TREATMENT			
TREAT. DESCRIP.		NT	SP
VOLUME TREAT., MG		-	3.5
% TREATED		-	68.6
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		-	58
SUSP. SOLIDS, LBS.		-	652.5
BOD ₅ , LBS.		-	91
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		61	3
SUSP. SOLIDS, LBS.		725	72.5
BOD ₅ , LBS.		107	16
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.4	1.4
SUSP. SOLIDS mg/l		17.0	17.0
BOD ₅ mg/l		2.5	2.5
AFTER TREATMENT			
SETT. SOLIDS mg/l		1.4	0.07
SUSP. SOLIDS mg/l		17.0	1.7
BOD ₅ mg/l		2.5	0.4
TOTAL CAPITAL COST (\$)		-	190,000
ANNUAL O&M COST (\$)		-	4,000
SUSP. SOLIDS + BOD₅			
BEFORE TREATMENT, LBS.		832	832
REMOVED, LBS.		-	743.5
% REMOVED		-	89.4
CAPITAL COSTS/% REMOVAL (\$)		-	2,100
TREATMENT COST (¢/1000 gals)		-	20.4

STORMWATER MANAGEMENT SUMMARY

WEYMOUTH FORE RIVER BASIN

TOWN BRAINTREE

URBAN DRAINAGE AREA

YEAR	2000
ACRES	5177
TOTAL STORM RUNOFF VOL.	
MIL. GAL.	183.2
TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	3756
SUSP. SOLIDS, LBS.	44609
BOD ₅	6559

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD	MD
VOLUME TREAT., MG	125.6	125.6	125.6
% TREATED	68.6	68.6	68.6

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	3568.2	3568.2	3380.4
SUSP. SOLIDS, LBS.	40148.1	28995.8	20074
BOD ₅ , LBS.	5575.2	2623.6	1311.8
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.	187.8	187.8	375.6
SUSP. SOLIDS, LBS.	4460.9	15613.2	24535
BOD ₅ , LBS.	983.8	3935.4	5247.2

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT			
SETT. SOLIDS mg/l	2.5	2.5	2.5
SUSP. SOLIDS mg/l	29.2	29.2	29.2
BOD ₅ mg/l	4.3	4.3	4.3
AFTER TREATMENT			
SETT. SOLIDS mg/l	0.1	0.1	0.2
SUSP. SOLIDS mg/l	2.9	10.2	16.1
BOD ₅ mg/l	0.6	2.6	3.4

TOTAL CAPITAL COST (\$)

2,400,000 4,850,000 18,500,000

ANNUAL O&M COST (\$)

93,000 290,000 925,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	51168	51168	51168
REMOVED, LBS.	45723.3	31619.4	21,385.8
% REMOVED	89.4	61.8	41.8

CAPITAL COSTS/% REMOVAL (\$)

26,800 78,500 443,000

TREATMENT COST (¢/1000 gals)

8.5 21.0 73.0

STORMWATER MANAGEMENT SUMMARY

WEYMOUTH FORE RIVER BASIN

TOWN	BROCKTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	44	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	1.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	10	
SUSP. SOLIDS, LBS.	119	
BOD ₅	17	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		10
SUSP. SOLIDS, LBS.		119
BOD ₅ , LBS.		17
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		14.3
BOD ₅ mg/l		2.0
AFTER TREATMENT		
SETT. SOLIDS mg/l		1.2
SUSP. SOLIDS mg/l		14.3
BOD ₅ mg/l		2.0
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		136
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

WEYMOUTH FORE RIVER BASIN

TOWN	CANTON		
URBAN DRAINAGE AREA			
YEAR		2000	
ACRES		108	
TOTAL STORM RUNOFF VOL.			
MIL. GAL.		2.8	
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.		39	
SUSP. SOLIDS, LBS.		467	
BOD ₅		69	
STORMWATER TREATMENT			
TREAT. DESCRIP.			NT
VOLUME TREAT., MG			-
% TREATED			-
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.			-
SUSP. SOLIDS, LBS.			-
BOD ₅ , LBS.			-
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.			39
SUSP. SOLIDS, LBS.			467
BOD ₅ , LBS.			69
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l			1.7
SUSP. SOLIDS mg/l			20.0
BOD ₅ mg/l			3.0
AFTER TREATMENT			
SETT. SOLIDS mg/l			1.7
SUSP. SOLIDS mg/l			200
BOD ₅ mg/l			3.0
TOTAL CAPITAL COST (\$)			
			-
ANNUAL O&M COST (\$)			
			-
SUSP. SOLIDS + BOD₅			
BEFORE TREATMENT, LBS.			536
REMOVED, LBS.			-
% REMOVED			-
CAPITAL COSTS/% REMOVAL (\$)			
			-
TREATMENT COST (¢/1000 gals)			
			-

STORMWATER MANAGEMENT SUMMARY

WEYMOUTH FORE RIVER BASIN

TOWN HOLBROOK			
URBAN DRAINAGE AREA			
YEAR	2000		
ACRES	1723		
TOTAL STORM RUNOFF VOL.			
MIL. GAL.	60.9		
TOTAL STORMWATER POLLUTANTS			
SETT. SOLIDS, LBS.	947		
SUSP. SOLIDS, LBS.	11230		
BOD ₅	1651		
STORMWATER TREATMENT			
TREAT. DESCRIP.		SP	SMD
VOLUME TREAT., MG		41.7	41.7
% TREATED		68.5	68.5
POLLUTANT REMOVALS			
SETT. SOLIDS, LBS.		899.6	899.6
SUSP. SOLIDS, LBS.		10107	7299.5
BOD ₅ , LBS.		1403.4	660.4
POLLUTANTS DISCHARGED			
SETT. SOLIDS, LBS.		47.4	47.4
SUSP. SOLIDS, LBS.		1123	3930.5
BOD ₅ , LBS.		247.6	990.6
AVG. POLLUTANT CONCENTRATIONS			
BEFORE TREATMENT			
SETT. SOLIDS mg/l		1.9	1.9
SUSP. SOLIDS mg/l		22.1	22.1
BOD ₅ mg/l		3.3	3.3
AFTER TREATMENT			
SETT. SOLIDS mg/l		0.09	0.09
SUSP. SOLIDS mg/l		2.2	7.7
BOD ₅ mg/l		0.5	2.0
TOTAL CAPITAL COST (\$)	1,040,000	2,525,000	
ANNUAL O&M COST (\$)	31,000	100,000	
SUSP. SOLIDS + BOD ₅			
BEFORE TREATMENT, LBS.	12881	12881	
REMOVED, LBS.	11510.4	7959.9	
% REMOVED	89.4	61.8	
CAPITAL COSTS/% REMOVAL (\$)	11,600	40,900	
TREATMENT COST (¢/1000 gals)	10.3	27.5	

STORMWATER MANAGEMENT SUMMARY

WEYMOUTH FORE RIVER BASIN

TOWN	MILTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	112	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	3.0	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	57	
SUSP. SOLIDS, LBS.	678	
BOD ₅	100	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.		57
SUSP. SOLIDS, LBS.		678
BOD ₅ , LBS.		100
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l		2.3
SUSP. SOLIDS mg/l		27.1
BOD ₅ mg/l		4.0
AFTER TREATMENT		
SETT. SOLIDS mg/l		2.3
SUSP. SOLIDS mg/l		27.1
BOD ₅ mg/l		4.0
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.		778
REMOVED, LBS.		-
% REMOVED		-
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY

WEYMOUTH FORE RIVER BASIN

TOWN	QUINCY			
URBAN DRAINAGE AREA				
YEAR	2000			
ACRES	2920			
TOTAL STORM RUNOFF VOL.				
MIL. GAL.	113.8			
TOTAL STORMWATER POLLUTANTS				
SETT. SOLIDS, LBS.	2168			
SUSP. SOLIDS, LBS.	25600			
BOD ₅	3763			
STORMWATER TREATMENT				
TREAT. DESCRIP.		SP	SMD	MD
VOLUME TREAT., MG		78.0	78.0	78.0
% TREATED		68.5	68.5	68.5
POLLUTANT REMOVALS				
SETT. SOLIDS, LBS.		2059.6	2059.6	1951.2
SUSP. SOLIDS, LBS.		23040	16640	11520
BOD ₅ , LBS.		3198.5	1505.2	752.6
POLLUTANTS DISCHARGED				
SETT. SOLIDS, LBS.		108.4	108.4	216.8
SUSP. SOLIDS, LBS.		2560	8960	14080
BOD ₅ , LBS.		564.5	2257.8	3010.4
AVG. POLLUTANT CONCENTRATIONS				
BEFORE TREATMENT				
SETT. SOLIDS mg/l		2.3	2.3	2.3
SUSP. SOLIDS mg/l		27.0	27.0	27.0
BOD ₅ mg/l		4.0	4.0	4.0
AFTER TREATMENT				
SETT. SOLIDS mg/l		0.1	0.1	0.2
SUSP. SOLIDS mg/l		2.7	9.4	14.8
BOD ₅ mg/l		0.6	2.4	3.2
TOTAL CAPITAL COST (\$)		1,650,000	3,625,000	11,500,000
ANNUAL O&M COST (\$)		58,000	185,000	575,000
SUSP. SOLIDS + BOD ₅				
BEFORE TREATMENT, LBS.		29363	29363	29363
REMOVED, LBS.		26238.5	18145.2	12272.6
% REMOVED		89.4	61.8	41.8
CAPITAL COSTS/% REMOVAL (\$)		18,500	58,700	275,000
TREATMENT COST (¢/1000 gals)		9.1	23.5	73.9

STORMWATER MANAGEMENT SUMMARY

WEYMOUTH FORE RIVER BASIN

TOWN RANDOLPH

URBAN DRAINAGE AREA

YEAR	2000
ACRES	3845

TOTAL STORM RUNOFF VOL.	
MIL. GAL.	121.1

TOTAL STORMWATER POLLUTANTS	
SETT. SOLIDS, LBS.	1711
SUSP. SOLIDS, LBS.	20385
BOD ₅	2997

STORMWATER TREATMENT

TREAT. DESCRIP.	SP	SMD
VOLUME TREAT., MG	83.0	83.0
% TREATED	68.5	68.5

POLLUTANT REMOVALS

SETT. SOLIDS, LBS.	1625.5	1625.5
SUSP. SOLIDS, LBS.	18346.5	13250.2
BOD ₅ , LBS.	2547.5	1198.8

POLLUTANTS DISCHARGED

SETT. SOLIDS, LBS.	85.5	85.5
SUSP. SOLIDS, LBS.	2038.5	7134.8
BOD ₅ , LBS.	449.5	1798.2

AVG. POLLUTANT CONCENTRATIONS

BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.7	1.7
SUSP. SOLIDS mg/l	20.2	20.2
BOD ₅ mg/l	3.0	3.0
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.08	0.08
SUSP. SOLIDS mg/l	2.0	7.1
BOD ₅ mg/l	0.4	1.8

TOTAL CAPITAL COST (\$)	1,745,000	3,750,000
ANNUAL O&M COST (\$)	62,000	193,000

SUSP. SOLIDS + BOD₅

BEFORE TREATMENT, LBS.	23382	23382
REMOVED, LBS.	20894	14449
% REMOVED	89.4	61.8

CAPITAL COSTS/% REMOVAL (\$)	19,500	60,700
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TREATMENT COST (¢/1000 gals)	9.0	23.2
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STORMWATER MANAGEMENT SUMMARY

WEYMOUTH FORE RIVER BASIN

TOWN	STOUGHTON	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	80	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	1.6	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	24	
SUSP. SOLIDS, LBS.	290	
BOD ₅	43	
STORMWATER TREATMENT		
TREAT. DESCRIP.		NT
VOLUME TREAT., MG		-
% TREATED		-
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.		-
SUSP. SOLIDS, LBS.		-
BOD ₅ , LBS.		-
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	24	
SUSP. SOLIDS, LBS.	290	
BOD ₅ , LBS.	43	
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.8	
SUSP. SOLIDS mg/l	21.7	
BOD ₅ mg/l	3.2	
AFTER TREATMENT		
SETT. SOLIDS mg/l	1.8	
SUSP. SOLIDS mg/l	21.7	
BOD ₅ mg/l	3.2	
TOTAL CAPITAL COST (\$)		-
ANNUAL O&M COST (\$)		-
SUSP. SOLIDS + BOD ₅		
BEFORE TREATMENT, LBS.	333	
REMOVED, LBS.	-	
% REMOVED	-	
CAPITAL COSTS/% REMOVAL (\$)		-
TREATMENT COST (¢/1000 gals)		-

STORMWATER MANAGEMENT SUMMARY
WEYMOUTH FORE RIVER BASIN

TOWN	WEYMOUTH	
URBAN DRAINAGE AREA		
YEAR	2000	
ACRES	1489	
TOTAL STORM RUNOFF VOL.		
MIL. GAL.	49.8	
TOTAL STORMWATER POLLUTANTS		
SETT. SOLIDS, LBS.	754	
SUSP. SOLIDS, LBS.	8989	
BOD₅	1322	
STORMWATER TREATMENT	SP	SMD
TREAT. DESCRIP.		
VOLUME TREAT., MG	34.1	34.1
% TREATED	68.5	68.5
POLLUTANT REMOVALS		
SETT. SOLIDS, LBS.	716.3	716.3
SUSP. SOLIDS, LBS.	8090.1	5842.8
BOD₅, LBS.	1123.7	528.8
POLLUTANTS DISCHARGED		
SETT. SOLIDS, LBS.	37.7	37.7
SUSP. SOLIDS, LBS.	898.9	3146.2
BOD₅, LBS.	198.3	793.4
AVG. POLLUTANT CONCENTRATIONS		
BEFORE TREATMENT		
SETT. SOLIDS mg/l	1.8	1.8
SUSP. SOLIDS mg/l	21.6	21.6
BOD₅ mg/l	3.2	3.2
AFTER TREATMENT		
SETT. SOLIDS mg/l	0.09	0.09
SUSP. SOLIDS mg/l	2.2	7.6
BOD₅ mg/l	0.5	1.9
TOTAL CAPITAL COST (\$)	875,000	2,250,000
ANNUAL O&M COST (\$)	25,000	80,000
SUSP. SOLIDS + BOD₅		
BEFORE TREATMENT, LBS.	10311	10311
REMOVED, LBS.	9213.8	6371.6
% REMOVED	89.4	61.8
CAPITAL COSTS/% REMOVAL (\$)	9,800	36,900
TREATMENT COST (¢/1000 gals)	11.2	30.8