TOWN OF EASTHAM

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TRANSMITTAL MEMORANDUM

TO: Ann Herrick - CIP
U.S. Environmental Protection Agency - Region 1
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street
Worcester, MA 01608

FROM: Mary Elizabeth Burgess, Town Planner

RE: Town of Eastham
Phase II Annual Report – Permit Year 2
EPA NPDES#: MAR041110
DEP Transmittal #: W040891

Pursuant to the requirements under the National Pollution Discharge Elimination System (NPDES) Stormwater General Permit to meet the United States Environmental Protection Agency's (EPA) Final Phase II Stormwater Rule, attached please find a certification in accordance with 40 CFR 122.22 and an Annual Report (with attachments) for Permit Year 2 for the Town of Eastham. Please don not hesitate to contact me at 508.240.5906 x202 if you have any question s or require any additional information.

Municipality/Organization: **Town of Eastham**

EPA NPDES Permit Number: **MAR041110**

MaDEP Transmittal Number: **W-040891**

Annual Report Number & Reporting Period: **No. 2: March 2004-March 2005.**

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Mary Elizabeth Burgess Title: Town Planner

Telephone #: 508.240.5906 x202 Email: meburgess@eastham-ma.gov

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Sheila Vanderhoef

Printed Name: Sheila Vanderhoef

Title: Town Administrator

Date: 10 January 2007

Part II. Self-Assessment

The Town of Eastham has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
1.1	Educational Brochures	NR, DPW	Development of Brochures	Updated Brochures from Year 1. Continued to coordinate with Local Regional Planning Agency on Informational Campaign	Continue to update educational brochures as new information arises.
Revised					
1.2	Educational Mailing	Planning	Mailing	Program was discontinued	No proposed resurrection
Revised					
1.3	Storm Water Video	Planning	Airing on Cable TV	Program proposed for Permit Year 3	Program start
Revised					
1.4	Coastal/Pond Cleanup	ConCom, DPW	Conducting Cleanup	Coastal Cleanup conducted as part of MCZM's "Coastsweep" Program completed bi annually	Cleanup completed twice yearly in the Spring and Fall. Includes local aquaculturalists, cub scouts and Regional School students
Revised					
1.5	Office Brochure	NR, DPW, Planning	Availability of Brochures	Brochures with local contact info corresponding with 1.1 displayed in NR/DPW Building and Building Dept in Town Hall.	Continue to update brochures. Informational Posters to be added for Permit year 3.
Revised					
Revised					

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
2.1	Storm Water Management Program	NR, DPW, ConCom, Planning, Health, WRAB	Development of Program	Draft document was under review by town staff however the project failed to thrive	Resurrection of Project proposed in Permit year 3
Revised					
2.2	Pollution Reporting	NR, DPW, Pond Stewards	Visual Monitoring/ Recording	Routine monitoring of marine areas conducted by NR staff five times per week, daily monitoring of drainage system/ road network by DPW, and monitoring of fresh surface waters by Eastham Pond Stewards. Monitoring capabilities augmented for summer months in Rock Harbor (marina) by seasonal employee.	Continue with monitoring as described for Permit year 2.
Revised					
Revised					
Revised					
Revised					
Revised					

2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
3.1	Map Outfalls	NR, DPW, Planning	Comprehensive Map	Due to lack of funding, there is no progress of this project	Continue to look for grant money to fund this project
Revised					
3.2	Detection of Non-Stormwater	NR	Correction of Discharges	Continue to identify any non-stormwater discharges and remedy the situation depending on source of discharge.	Continue project indefinitely.
Revised					
3.3	Dry Weather Flow Screening	NR	Screening Testing	Incorporate dry weather flow screening into the routine monitoring of marine areas conducted by NR staff five times per week starting every starting in spring and ending in the fall.	Continue project indefinitely.
Revised					
3.4	Reporting Line	NR, DPW	Establishment of Line	Line established for NR and DPW to report any inappropriate inputs to the MS4. Reports involving oil or hazardous waste is referred to the Fire Dept and MA DEP	Continue project indefinitely.
Revised					
3.5	Hazardous Product Collection	Health, DPW, Recycling	Conducting Collection Day	Hazardous collection day was held on July 24, 2004. Adding an additional day in the fall for upcoming years.	Continue conducting collection days. Tentatively scheduled for July 15, 2005 and September 16, 2005.
Revised					
Revised					

3a. Additions

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
4.1	Draft Construction Site Runoff Control Bylaw	ConCom, Planning	Develop Bylaw	Proposed Bylaw to be created and incorporated into Local Wetland Control Bylaw and Local Subdivision Control Bylaw.	Implement Bylaw Changes in Permit Year 3 or 4.
Revised					
4.2	Enact Construction Site Runoff Control Bylaw	ConCom, Planning, Town Meeting	Implement Bylaw	Programmed Start Permit Year 3 or 4	Programmed Start Permit Year 3 or 4.
Revised					
Revised					
Revised					
Revised					
Revised					

4a. Additions

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
5.1	Draft Construction Site Runoff Control Bylaw	ConCom, Planning	Develop Bylaw	Proposed Bylaw to be created and incorporated into Eastham Wetland Bylaw and Local Subdivision Control Bylaw.	Implement Bylaw Changes in Permit Year 3 or 4.
Revised					
5.2	Amend Site Plan Review	ConCom, Planning	Develop Bylaw	Proposed Bylaw to be created and incorporated into Eastham Wetland Bylaw and Local Subdivision Control Bylaw.	Implement Bylaw Changes in Permit Year 3 or 4.
Revised					
5.3	Enact Construction Site Runoff Control Bylaw	ConCom, Planning, Town Meeting	Implement Bylaw	Programmed Start Permit year 3 or 4	Implement/enforce Construction Site Runoff Control Bylaw.
Revised					
Revised					
Revised					
Revised					

5a. Additions

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
6.1	Annual Training	NR, DPW, Planning	Training session	Program Postponed.	Program Postponed.
Revised					
6.2	Review of Town Properties	DPW	Audit Report	Programmed Start Permit Year 4	Programmed Start Permit Year 4
Revised					
6.3	Review of Town Operations	DPW, Health	Audit Report	Programmed Start Permit Year 4	Programmed Start Permit Year 4
Revised					
6.4	Catch Basin Cleaning	DPW	Updated Log	Cleaned all Town owned Catch Basins in the Spring and Fall of 2004.	Clean all Town owned Catch Basins in the Spring and Fall of 2005.
Revised					
6.5	Street Sweeping	DPW	Record of Areas Swept	Swept all Town owned Roadways and parking lots in April and September of 2004.	Sweep all Town owned Roadways and Parking lots in April and September of 2005.
Revised					
Revised					

6a. Additions

6.6	Remediation of Existing Outfall	DPW	Elimination of Stormwater discharge	Three discharge sites identified: Steele Road, Cooks Brook Road and Thumpertown Road.	Elimination of discharge planned for Permit year 3

6.7	Drainage Alterations	DPW	Catch Basin Replacement	25 Catch Basins identified for replacement or closure.	Programmed Start Permit Year 3

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) *<<if applicable>>*

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

NOT APPLICABLE

Part IV. Summary of Information Collected and Analyzed

FRESHWATER SAMPLING: The Cape Cod Pond and Lake Stewardship (PALS) are continually sampling the Eastham ponds in an effort to identify possible pollutants and recommend the best management practices for containing and elimating possible pollutants.

BEACH SAMPLING: Sixteen Eastham Beaches (eleven salt water and five freshwater) were sampled in the summer of 2004 by the Barnstable County's Department of Health and Environment. Four Beaches had samples above the sampling limit (see attached summary data). However, those samples exceeding the limits only resulted in the posting of swimming advisory notices. While a definitive cause was never determined for the need to post the swimming advisory, speculation was that it was related to natural geological conditions (peat deposits) and not related to a direct stormwater discharge (No outfall pipe exists).

GROUND WATER SAMPLING: The Town continued its voluntary sampling project to evaluate levels of nitrate in residential wells. Eastham is in its third year of a three year program. Each year 1/3 of the Town is sampled. The sampling will rotate back to the first 1/3 sample area next year and continually sample the town allowing for a three year sampling rotation schedule.

SHELLFISH SAMPLING: The Natural Resources Office continued to test for Red Tide and participate in shellfish sampling in coordination with Massachusetts Division of Marine Fisheries on a weekly basis throughout the Spring, Summer and Fall.

Eastham Public Beaches - 2004

Date of Last Rain:	6/2/04	6/3/04	6/6/04	6/9/04	6/18/04	6/26/04	6/29/04	7/5/04	7/5/04	7/13/04	7/19/04	7/19/04	7/29/04	8/5/04	8/5/04	8/16/04
Amount Last Rain:	**0.02**	**0.11**	**0.25**	**0.12**	**0.12**	**0.30**	**0.04**	**0.50**	**0.50**	**0.13**	**0.03**	**0.03**	**0.02**	**0.10**	**0.10**	**0.33**

Marine Beaches:	**6/2/04**	**6/3/04**	**6/7/04**	**6/14/04**	**6/21/04**	**6/28/04**	**6/29/04**	**7/6/04**	**7/12/04**	**7/13/04**	**7/19/04**	**7/26/04**	**8/2/04**	**8/9/04**	**8/10/04**	**8/16/04**
S. Sunken Meadow			10	20	<2	2		6	2		<2	9	6	<2		2
Cook's Brook (Middle)	20		2	14	<2	2		10	<2		<2	<2	30	<2		4
Campground Beach			6	14	2	42		12	2		<2	2	17	2		18
Thumpertown			<2	66	<2	>400	<2	28	2		<2	<2	10	2		28
Kingsbury			2	12	<2	44		22	4		<2	<2	12	<2		30
Cole Road Beach			4	2	1	4		2	2		<2	4	<2		<2	2
First Encounter Beach	167	10	<2	4	<2	<2		32	<2		2	4	26	<2		2
First Encounter River			6	4	2	2		2	58		<2	14	48	<2		4
Boat Meadow			4	2	<2	14		2	>400	4	<2	12	16	8		64
Dyer Prince			6	6	<2	6		72	4		<2	2	34	2		132
Town Cove			8	2	10	<2		56	2		6	<2	12	<2		6

Fresh Water:	**6/2/04**	**6/3/04**	**6/7/04**	**6/14/04**	**6/21/04**	**6/28/04**	**7/6/04**	**7/12/04**	**7/19/04**	**7/26/04**	**8/2/04**	**8/9/04**	**8/16/04**
Minister Pond			4	12	8	16	76	12	16	<4	28	<4	328
Long Pond (Depot St)			12	8	12	4	<4	4	4	4	112	<4	16
Great Pond	4		<4	12	4	<4	12	<4	<4	<4	<4	4	32
Wiley Park	<4		<4	2	<4	2	<4	8	8	<4	4	28	4
Herring Pond			<4	4	<4	<4	<4	<4	<4	4	<4	6	12

Eastham Public Beaches - 2004

Date of Last Rain:	**8/17/04**	**8/21/04**	**8/31/04**
Amount Last Rain:	**0.33**	**0.36**	**2.14**

Marine Beaches:	**8/17/04**	**8/23/04**	**9/1/04**	**# Samples**	**# Fail**
S. Sunken Meadow		<2	2	13	
Cook's Brook (Middle)		14	6	14	
Campground Beach		2	20	13	
Thumpertown		18	2	14	1
Kingsbury		<2	<2	13	
Cole Road Beach		<2	2	13	
First Encounter Beach		2	4	15	1
First Encounter River		8	<2	13	
Boat Meadow		<2	6	14	1
Dyer Prince	24	<2	5	14	1
Town Cove		<2	8	13	

Fresh Water:	**8/17/04**	**8/23/04**	**8/31/04**	**# Samples**	**# Fail**
Minister Pond	116	4	<4	14	1
Long Pond (Depot St)		<4	24	13	
Great Pond		4	<4	14	
Wiley Park		<4	<4	14	
Herring Pond		<4	<4	13	

# Marine Beach Samples	**149**
# Marine Beach Failures	**4**
% Marine Failures	**2.68%**
# Fresh Water Samples	**68**
# Fresh Water Failures	**1**
% Fresh Water Failures	**1.47%**

Marine beach results are Enterococci CFU/100ml
Fresh water results are E. Coli CFU/100ml

Eastham Public Beaches - 2004

Date of Last Rain:	**6/2/04**	**6/3/04**	**6/6/04**	**6/9/04**	**6/18/04**	**6/26/04**	**6/29/04**	**7/5/04**	**7/5/04**	**7/13/04**	**7/19/04**	**7/19/04**	**7/29/04**	**8/5/04**	**8/5/04**	**8/16/04**
Amount Last Rain:	**0.02**	**0.11**	**0.25**	**0.12**	**0.12**	**0.30**	**0.04**	**0.50**	**0.50**	**0.13**	**0.03**	**0.03**	**0.02**	**0.10**	**0.10**	**0.33**

Marine Beaches:	**6/2/04**	**6/3/04**	**6/7/04**	**6/14/04**	**6/21/04**	**6/28/04**	**6/29/04**	**7/6/04**	**7/12/04**	**7/13/04**	**7/19/04**	**7/26/04**	**8/2/04**	**8/9/04**	**8/10/04**	**8/16/04**
S. Sunken Meadow			10	20	<2	2		6	2		<2	9	6	<2		2
Cook's Brook (Middle)	20		2	14	<2	2		10	<2		<2	<2	30	<2		4
Campground Beach			6	14	2	42		12	2		<2	2	17	2		18
Thumpertown			<2	66	<2	>400	<2	28	2		<2	<2	10	2		28
Kingsbury			2	12	<2	44		22	4		<2	<2	12	<2		30
Cole Road Beach			4	2	1	4		2	2		<2	4	<2		<2	2
First Encounter Beach	167	10	<2	4	<2	<2		32	<2		2	4	26	<2		2
First Encounter River			6	4	2	2		2	58		<2	14	48	<2		4
Boat Meadow			4	2	<2	14		2	>400	4	<2	12	16	8		64
Dyer Prince			6	6	<2	6		72	4		<2	2	34	2		132
Town Cove			8	2	10	<2		56	2		6	<2	12	<2		6

Fresh Water:	**6/2/04**	**6/3/04**	**6/7/04**	**6/14/04**	**6/21/04**	**6/28/04**	**7/6/04**	**7/12/04**	**7/19/04**	**7/26/04**	**8/2/04**	**8/9/04**	**8/16/04**
Minister Pond			4	12	8	16	76	12	16	<4	28	<4	328
Long Pond (Depot St)			12	8	12	4	<4	4	4	4	112	<4	16
Great Pond	4		<4	12	4	<4	12	<4	<4	<4	<4	4	32
Wiley Park	<4		<4	2	<4	2	<4	8	8	<4	4	28	4
Herring Pond			<4	4	<4	<4	<4	<4	<4	4	<4	6	12

Eastham Public Beaches - 2004

Date of Last Rain:	**8/17/04**	**8/21/04**	**8/31/04**
Amount Last Rain:	**0.33**	**0.36**	**2.14**

Marine Beaches:	**8/17/04**	**8/23/04**	**9/1/04**	**# Samples**	**# Fail**
S. Sunken Meadow		<2	2	13	
Cook's Brook (Middle)		14	6	14	
Campground Beach		2	20	13	
Thumpertown		18	2	14	1
Kingsbury		<2	<2	13	
Cole Road Beach		<2	2	13	
First Encounter Beach		2	4	15	1
First Encounter River		8	<2	13	
Boat Meadow		<2	6	14	1
Dyer Prince	24	<2	5	14	1
Town Cove		<2	8	13	

Fresh Water:	**8/17/04**	**8/23/04**	**8/31/04**	**# Samples**	**# Fail**
Minister Pond	116	4	<4	14	1
Long Pond (Depot St)		<4	24	13	
Great Pond		4	<4	14	
Wiley Park		<4	<4	14	
Herring Pond		<4	<4	13	

# Marine Beach Samples	**149**
# Marine Beach Failures	**4**
% Marine Failures	**2.68%**
# Fresh Water Samples	**68**
# Fresh Water Failures	**1**
% Fresh Water Failures	**1.47%**

Marine beach results are Enterococci CFU/100ml
Fresh water results are E. Coli CFU/100ml

Eastham Public Beaches - 2005

			rain	rain		rain	rain	rain	rain					rain at night					
Date of Last Rain:	5/26	5/26	6/16	6/22	6/22	6/28	6/30	7/6	7/7	7/9	7/9	7/9	7/9	7/22	7/22	7/22	7/22	7/22	7/22
Amount of Last Rain:	0.17	0.17	0.01	0.02	0.02	0.05	0.01	2	0.01	0.18	0.18	0.18	0.18	0.12	0.12	0.12	0.12	0.12	0.12
															outgoing am	incoming pm			

Marine Beaches	**6/8**	**6/15**	**6/16**	**6/22**	**6/23**	**6/29**	**6/30**	**7/6**	**7/7**	**7/13**	**7/20**	**7/21**	**7/22**	**7/25**	**7/26**	**7/26**	**7/27**	**7/28**	**7/29**
S. Sunken Meadow	2	12		200	4	20		24		4	56						352	64	
Cook's Brook	<2	18		110	32	<2		118	4	<2	156	134	>400	24	4	190	160	148	120
Campground Beach	<2	14		48		2		2		1	102						2		
Thumpertown	<2	66		6		22		<2		<2	80						2		
Kingsbury	4	240	4	30		54		24		<2	14						12		
Cole Road Beach	6	92		30		4		4		<2	4						2		
First Encounter Beach	<2	38		40		136	<2	8		<2	69						6		
First Encounter River	<2	8		8		30		<2		8	2						12		
Boat Meadow	<2	22		6		84		12		<2	74						5		
Dyer Prince	1	4		38		4		>400	20	2	8						<2		
Town Cove	<2	<2		1		4		<2		38	<2						18		

Fresh Water	**6/8**	**6/15**	**6/22**	**6/29**	**7/6**	**7/7**	**7/13**	**7/20**	**7/27**	**7/28**
Great Pond	32	<4	<4	8		<4	8	8	<4	
Herring Pond	<4	16	12	6	<4		<4	4	4	
Long Pond (Depot St)	4	16	4	32		4	<4	<4	280	24
Minister Pond	10	<4	4	16		72	56	36	12	
Wiley Park	<4	<4	<4	<4	4		4	48	<4	

# Marine Beach Samples	**174**
# Marine Beach Failures	**23**
% Marine Failures	**13.22%**
# Fresh Water Samples	**66**
# Fresh Water Failures	**1**
% Fresh Water Failures	**1.52%**

Eastham Public Beaches - 2005

8/1 night .13

		rain												rain		rain
Date of Last Rain:	7/22	8/2	8/2	8/2	8/2	8/5	8/5	8/5	8/5	8/5	8/15	8/15	8/15	8/24	8/31	9/1
Amount of Last Rain:	0.12	0.03	0.03	0.03	0.03	0.2	0.2	0.2	0.2	0.2	0.03	0.03	0.03	0.01	0.74	0.07

Marine Beaches	**8/1**	**8/2**	**8/3**	**8/4**	**8/5**	**8/8**	**8/9**	**8/10**	**8/11**	**8/12**	**8/17**	**8/18**	**8/24**	**8/25**	**8/31**	**9/1**	**# Samp**	**# Fail**
S. Sunken Meadow			360	14	134	240	4	<2	40	6	16		12		20		21	5
Cook's Brook	32	100	148	130	280	62	<2	2	<2	<2	76		14		52		30	12
Campground Beach			28					<2			10		30		<2		13	
Thumpertown			16					<2			28		<2		14		13	
Kingsbury			2					2			190	2	2		8		15	2
Cole Road Beach			<2					<2			2		<2		2		13	
First Encounter Beach			2					<2			30		2		<2		14	1
First Encounter River			<2					<2			7		<2		<2		13	
Boat Meadow			24					<2			26		4		8		13	
Dyer Prince			4					2			8		26		>400	4	15	2
Town Cove			<2					14			2		>400	<2	8		14	1

Fresh Water	**8/3**	**8/10**	**8/17**	**8/24**	**8/31**	**# Samp**	**# Fail**
Great Pond	<4	<4	8	2	24	13	
Herring Pond	<4	<4	<4	<4	<4	13	
Long Pond (Depot St)	4	<4	4	4	24	14	1
Minister Pond	16	8	8	<4	16	13	
Wiley Park	2	22	<4	4	2	13	

# Marine Beach Samples	**174**
# Marine Beach Failures	**23**
% Marine Failures	**13.22%**
# Fresh Water Samples	**66**
# Fresh Water Failures	**1**
% Fresh Water Failures	**1.52%**

Eastham Semi-Public
Beaches - 2005

			rain	rain	rain									rain							
Date of Last Rain:	5/26	5/26	6/22	6/28	7/7	7/9	7/9	7/9	7/22	7/22	7/22	7/22	7/22	8/2	8/2	8/2	8/2	8/5	8/5	8/5	8/5
Amount Last Rain:	0.17	0.17	0.02	0.06	0.01	0.18	0.18	0.18	0.12	0.12	0.12	0.12	0.12	0.03	0.03	0.03	0.03	0.2	0.2	0.2	0.2

Marine Beach Organizations:	**6/8**	**6/15**	**6/22**	**6/29**	**7/7**	**7/13**	**7/20**	**7/22**	**7/25**	**7/27**	**7/28**	**7/29**	**8/1**	**8/2**	**8/3**	**8/4**	**8/5**	**8/8**	**8/9**	**8/10**	**8/11**
Silver Springs Assoc.								>400	20		112	168	24	56	140	34	8	52	26	<2	2
Massasoit Hills																		162	32	2	14

Fresh Water Organizations:	**6/8**	**6/15**	**6/22**	**6/29**	**7/7**	**7/13**	**7/20**	**7/22**	**7/25**	**7/27**	**7/28**	**7/29**	**8/1**	**8/2**	**8/3**	**8/4**	**8/5**	**8/8**	**8/9**	**8/10**	**8/11**
Nauset Haven Lakeside Condo (Ministers Pond)	<4	6	12	<4	24	10	20			80					18					8	
Whispering Pines Condo (Muddy Pond)	<4	12	8	54	32	4	<4			4					24					<4	

Date of Last Rain:	8/5	8/15	8/15	8/17	8/30
Amount Last Rain:	0.2	0.03	0.03	0.01	0.74

Marine Beach Organizations:	**8/12**	**8/17**	**8/18**	**8/24**	**8/31**	**# Samples**	**# Fail**
Silver Springs Assoc.		46		72	78	16	4
Massasoit Hills	6					5	1

Fresh Water Organizations:	**8/12**	**8/17**	**8/18**	**8/24**	**8/31**	**# Samples**	**# Fail**
Nauset Haven Lakeside Condo (Ministers Pond)		348	<4	<4		13	1
Whispering Pines Condo (Muddy Pond)		<4		<4		12	0

# Marine Beach Samples	**21**
# Marine Beach Failures	**5**
% Marine Failures	**23.81%**
# Fresh Water Samples	**25**
# Fresh Water Failures	**1**
% Fresh Water Failures	**4.00%**

Summary of Public Bathing Beach Sample Results: 2005

Towns Sampled (BCHD)	# Salt Beaches	# Salt Samples	# Salt Failures	# Beaches w/ failures	# Fresh Beaches	# Fresh Samples	# Fresh Failures	# Beaches w/ failures	Total Town Samples
Barnstable	27	392	13	7	15	212	1	1	604
Bourne	8	104	1	1	2	27	0	0	131
Brewster	8	106	2	1	5	65	0	0	171
Dennis	20	266	4	3	3	39	0	0	305
Eastham	11	174	23	6	5	66	1	1	240
Falmouth	21	273	8	8	3	41	2	2	314
Harwich	16	211	3	2	9	117	0	0	328
Mashpee	3	39	0	0	7	91	1	1	130
Orleans	9	119	2	2	3	39	0	0	158
Provincetown	18	276	28	15	0	0	0	0	276
Sandwich	3	39	0	0	8	108	3	1	147
Truro*	15	196	5	5	0	0	0	0	196
Wellfleet	11	143	0	0	8	104	0	0	247
Yarmouth	21	278	5	5	6	78	0	0	356
Total # Samples	**191**	**2616**	**94**	**55**	**74**	**987**	**8**	**6**	**3603**

Cape Wide Public Results:

% Failure Marine: 3.59%
% Failure Fresh: 0.81%
% Failure Total: 2.83%

* 2 additional environmental sample sites in Truro were not included in the table 25' N and S of the pipe: 29 samples with 3 failures
** table does not include geometric mean failures - only single sample failures are tallied above
*** table does not yet include samples from CCNS or Chatham

Summary of Semi-Public Bathing Beach Sample Results: 2005

Towns Sampled (BCHD)	# Salt Beaches	# Salt Samples	# Salt Failures	# Fresh Beaches	# Fresh Samples	# Fresh Failures	Total Town Samples
Barnstable	5	51	0	3	37	1	88
Bourne	9	103	2	0	0	0	103
Brewster	1	12	0	7	83	1	95
Dennis	0	0	0	0	0	0	0
Eastham	2	21	5	2	25	1	46
Falmouth	15	177	4	10	108	0	285
Harwich	5	58	1	4	37	0	95
Mashpee	5	60	0	7	75	0	135
Orleans	3	32	1	0	0	0	32
Provincetown	0	0	0	0	0	0	0
Sandwich	1	12	0	6	73	1	85
Truro	0	0	0	0	0	0	0
Wellfleet	1	12	0	0	0	0	12
Yarmouth	0	0	0	4	39	0	39
Total Semi-Public Samples:	**47**	**538**	**13**	**43**	**477**	**4**	**1015**

% FailureMarine: 2.42%
% Failure Fresh: 0.84%
% Failure Total: 1.67%

*** table does not yet include samples from Chatham

PUBLIC AND SEMI-PUBLIC SAMPLING BY BARNSTABLE COUNTY LAB 2005

	# Salt Beaches	# Salt Samples	# Salt Failures	# Beaches w/ failures	# Fresh Beaches	# Fresh Samples	# Fresh Failures	# Beaches w/ failures	Total Samples
PUBLIC Cape Samples	191	2616	94	55	74	987	8	6	3603
Semi-Public Cape Samples:	47	538	13	9	43	477	4	4	1015
Total Cape Samples:	238	3154	107	64	117	1464	12	10	4618

% Failure Marine: 3.39%
% Failure Fresh: 0.82%
% Failure Total: 2.58%

* table does not include geometric mean failures - only single sample failures are tallied above
** table does not yet include samples from CCNS or Chatham

Cape Cod Summer 2005

Directory of Beach Locations and Water Quality

Eastham Public Bathing Beach Water Quality Report

Beaches are tested weekly during the summer bathing season (June to August). In the event of a b failure, the beach in question will be resampled daily thereafter until results permit re-opening. ' most recent weeks of sample results will be included in this chart. Green indicates good water qu and red indicates bacteria levels above the acceptable standard.

Pass	Fail

Marine (salt) Beaches:	6/8/05	6/15/05		6/22/05		6/29/05	
S. Sunken Meadow				6/22	6/23		
Cook's Brook				6/22	6/23		
Campground Beach							
Thumpertown							
Kingsbury		6/15	6/16				
Cole Road Beach							
First Encounter Beach						6/29	
First Encounter Spit							
Boat Meadow							
Dyer Prince							
Town Cove							

Freshwater Beaches:	6/8/05	6/15/05	6/22/05	6/29/05	
Long Pond (Depot Street)					
Herring Pond					
Wiley Park					
Great Pond					
Minister Pond					

Town by Town Beach Top of