

# Get Connected to the Network - Communicating Your Results

**Tony Williams**  
Director of Monitoring Programs  
The Coalition for Buzzards Bay

**The Buzzards Bay Citizens Water Quality  
Monitoring Program - *Baywatchers***



# The Buzzards Bay Watershed



**Buzzards Bay is located between the western most part of Cape Cod, Southeastern Massachusetts, and the Elizabeth Islands.**

**The bay is 28 miles long, about 8 miles wide, and mean depth of 36 feet .  
The coastline stretches over 350 miles and Bay watershed drainage basin covers 432 square miles and includes all or sections of 17 municipalities.**



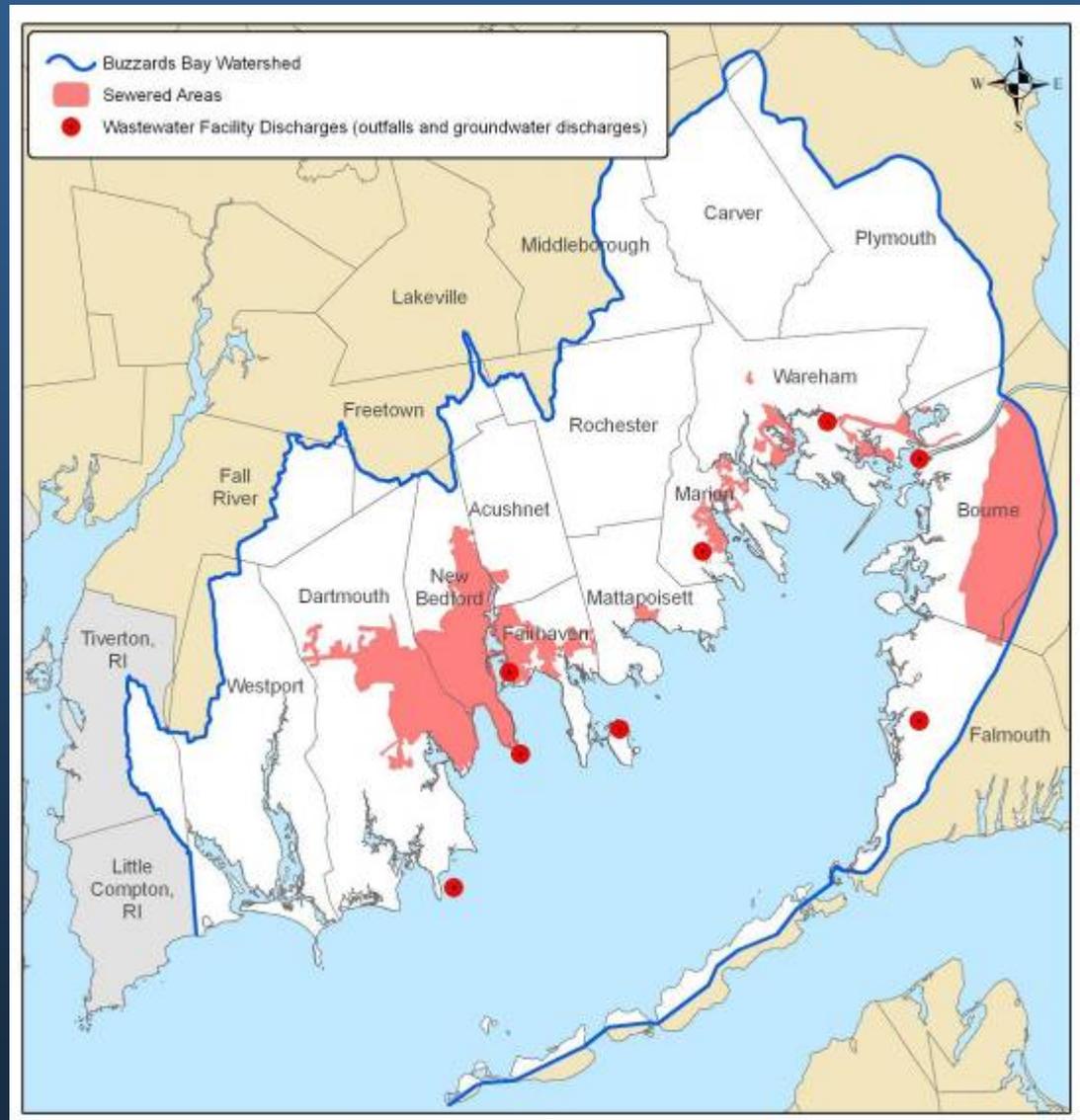
# The Bay & Watershed

■ The Bay is part of EPA's National Estuary Program (Established by Congress in 1987 to improve the quality of estuaries of national importance).

■ Buzzards Bay is part of a transportation corridor for ships and barges (2 Billion gallons of oil per year).

■ A popular vacation spot for many tourists.

■ Home for more than 360,000 residents.





# Growth and Development

- 60% of the Bay watershed is undeveloped forestland and wetlands;
- 10% is farms and agriculture
- 18% is developed for residential, commercial and industrial uses;
- 23% is protected land.





# The Bay in Trouble

- Nutrients are identified as one of the biggest threats to Buzzards Bay's water quality.
- Nitrogen and phosphorus are vital and necessary to the freshwater and marine ecosystems, however,...
- ...In excess quantity have a negative impact and impair water quality as well as organisms.





# Develop plans for attaining or maintaining water quality

## Comprehensive Conservation and Management Plan

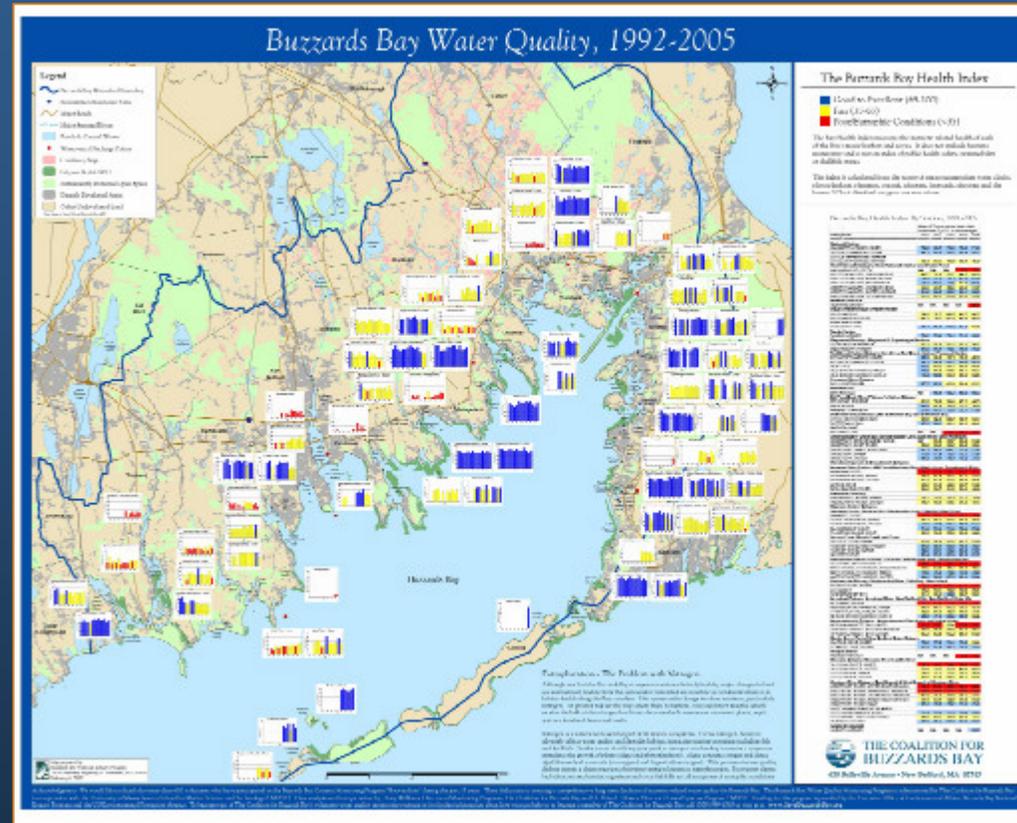
- focus on the watershed,
- use science to inform decision-making,
- emphasize collaborative problem solving,
- involve the public.



# Assessing the Bay

■ **Baywatchers- Water Quality Monitoring Program** was initiated in 1992 from a need to evaluate water quality for the future protection of the Bay.

■ **Monitoring** would establish baseline data and long-term trends of the water quality for the Bay and subembayment's.





# Data for Use in Policy and Regulatory Decisions

## Program Objectives

1. Generate data for use by federal, state and local environmental regulatory agencies.
2. Develop long-term dataset to assess the health of local waterways.
3. Educate the general public about long-term (year to year) trends in Bay water quality.
4. Engage volunteers and create active environmental stewards.



2008

1992



**" The Network isn't working!!  
\* @#% \*!!! "**

## Successful Networks ...

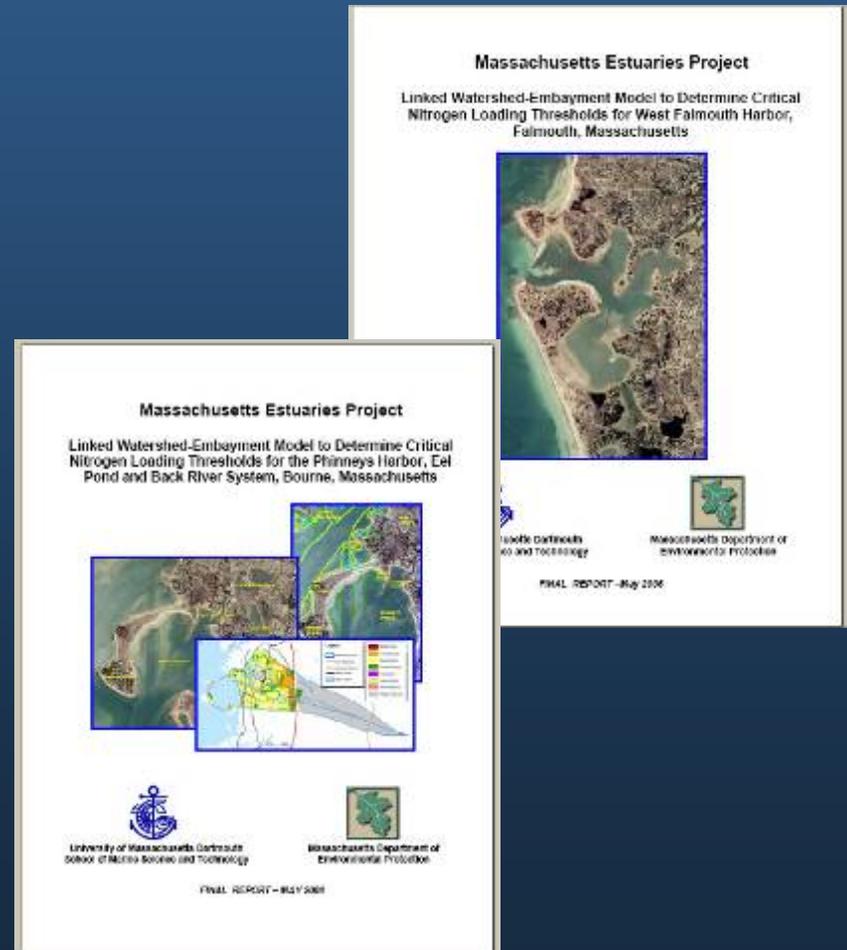


- Good network connection (audience)
  - Able to share your information (data results)
- = Collaboration and Coordination on addressing the Challenge (problem).



# Buzzards Bay Future – Research, Advocacy, Conservation, Education,

- Future Bay success will depend on moving past the objective of monitoring for long-term trends...and more towards focusing on connecting to the Local Networks for action.





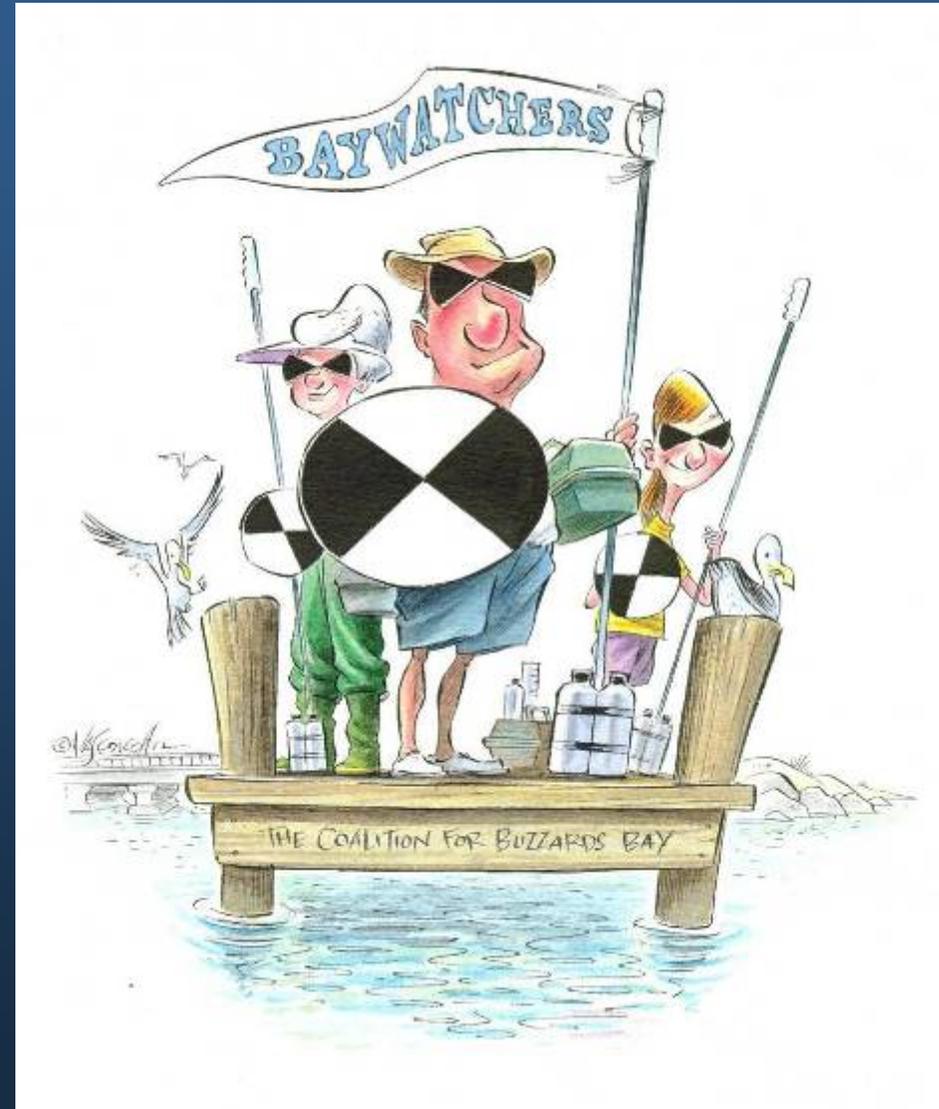
# Get People Involved





# Monitor the Health of Buzzards Bay Utilizing “citizen scientists”.

- May-September, Volunteers measure early morning dissolved oxygen, temperature, salinity, and water clarity.
- July- August, Volunteers collect water samples for nutrient and chlorophyll analysis- (dissolved and particulate forms of nitrogen, phosphate, carbon/nitrogen ratios, phaeophyton, and chlorophyll a content).







# Get a Big Pile of Data







# Improving Communication through Innovative Outreach

## The Buzzards Bay Health Index



Good to Excellent (65-100)



Fair (35-65)



Poor/Eutrophic Conditions (<35)

The Bay Health Index measures the relative health of each of Buzzards Bay's major harbors and coves. It does not include bacteria monitoring and is not an index of swimmability or shellfish bed status.

The Index is calculated from scores of mean summertime water clarity, phytoplankton pigments, organic nitrogen, inorganic nitrogen and the lowest 20% of dissolved oxygen concentrations. Central Buzzards Bay - which exhibits excellent water quality - would score close to 100 percent on the Index.



# Complex Water Chemistry Data

Parameter	Health Index Score	
	0 Point Value	100 Point Value
Lowest 20 % Oxygen Saturation	40%	90%
Transparency (Secchi)	0.6 meter	3.0 meter
Chlorophyll	10.0 $\mu\text{g/L}$	3.0 $\mu\text{g/L}$
DIN	.14 ppm	.014 ppm
TON	.6 ppm	.28 ppm





# "Data to Action"

- Each year the organization works to strengthen its data sharing capabilities
- New approaches to turn the results into planning and management actions for protecting Bay resources.
- Provide data to assist federal, state, and local environmental managers in setting priorities for management action
- Monitor success for these actions.
- Educate the public.

## Communication of Results

This Sheet Contains the Station Averages by 5-Years For Eutrophication Index  
 Eutrophication Health Index by Station: 1992-2007  
 Mean of 5 most recent years data  
 Minimum 5 yr HI score possible

Employment:	2001	2002	2003	2004	2005	2006	2007
<b>Quisset Harbor</b>							
QUISSET HARBOR, INNER	79.5	80.7	79.6	73.2	71.5	68.7	63.4
QUISSET HARBOR, OUTER	80.3	82.0	88.8	88.9	88.2	86.4	83.9
<b>LITTLE SPENWISSET MARSH</b>							
LITTLE SPENWISSET MARSH	50.4	59.7	45.8	49.1	45.0	42.9	41.0
<b>West Palmouth Estuary: West Palmouth Harbor and Oyster Pond</b>							
NASHAPAGUT CREEK	NA	NA	NA	88.8	88.8	88.8	88.8
WEST PALMOUTH, SKUE HARBOR	49.7	51.9	52.7	44.3	42.0	40.2	38.9
WEST PALMOUTH, HARBOR DOCK	76.3	74.4	74.2	67.5	67.5	60.4	61.7
WEST PALMOUTH, MID-HARBOR	79.1	68.3	71.8	63.5	66.1	61.1	66.7
WEST PALMOUTH, HARBOR HEAD	49.9	49.7	53.0	48.9	51.7	52.0	56.5
WEST PALMOUTH, OUTER HARBOR	81.3	84.8	86.5	89.1	88.0	87.0	85.4
WEST PALMOUTH, OYSTER POND	52.4	48.2	43.9	43.4	41.4	40.6	41.6
<b>HERRING BROOK</b>							
HERRING BROOK	NA	NA	NA	NA	88.8	87.3	83.0
<b>WILD HARBOR/WILD HARBOR RIVER</b>							
WILD HARBOR	54.8	52.7	49.0	49.7	46.7	43.4	43.8
WILD HARBOR RIVER	49.3	50.3	47.5	48.9	48.0	41.7	38.0
<b>FIDDLERS COVE</b>							
FIDDLERS COVE	65.2	65.5	64.0	67.1	61.5	60.9	60.1
<b>RANDS HARBOR</b>							
RANDS HARBOR	78.2	75.6	73.1	71.2	66.2	57.5	50.9
<b>Megansett Estuary: Megansett &amp; Squebeague Harbors</b>							
SOLETSAGUE HARBOR	57.2	57.8	57.1	57.1	56.7	55.9	54.1
MEGANSETT HARBOR	81.0	81.0	79.5	78.0	75.0	73.9	69.7
<b>Red Brook Harbor Estuary: Hen Cove, Red Brook Harbor, Pocasset Harbor</b>							
POCASSET HARBOR, INNER	88.6	88.8	89.3	88.8	88.6	81.0	81.4
POCASSET HARBOR, OUTER	84.3	84.8	89.2	88.4	86.6	83.8	82.8
HEN COVE	42.3	60.3	54.7	59.1	55.4	54.5	54.5
RED BROOK HARBOR, INNER	64.9	61.6	61.6	61.7	56.7	54.2	51.9
RED BROOK HARBOR, OUTER	72.4	68.5	63.8	65.3	64.8	64.1	59.1
<b>POCASSET RIVER Estuary</b>							
POCASSET RIVER	67.7	63.4	62.9	59.9	62.3	58.2	57.2
<b>BRIARWOOD</b>							
BRIARWOOD	NA	66.0	68.2	68.0	69.0	67.6	64.2
<b>Eel Pond Back River/Phenny's Harbor Estuary</b>							
EEL POND, EDURNE	61.8	56.5	54.4	47.1	44.3	42.3	40.6
EEL POND RIVER	56.8	61.6	56.6	56.7	61.6	48.0	49.2
PHENNY'S HARBOR	73.0	74.1	72.5	72.7	71.9	69.6	66.6
<b>Butternilk Bay Estuary: Little Butternilk Bay and Butternilk Bay</b>							
LITTLE BUTTERNILK BAY	62.8	64.3	60.2	58.1	53.7	54.1	51.5
BUTTERNILK BAY	67.7	69.1	63.1	62.2	60.2	58.7	56.2
<b>BUTLER COVE</b>							
BUTLER COVE	NA	NA	88.8	88.8	88.8	88.2	81.0
<b>Onset Estuary: Onset Bay, Broad-Muddy Cove, East River, Shell Point Bay</b>							
ONSET BAY, BROAD MUDDY COVE	NA	59.3	56.7	50.3	51.2	46.0	46.5
ONSET BAY, EAST RIVER	59.5	60.9	60.6	63.6	63.4	65.3	64.1
ONSET BAY, SHELL POINT BAY	65.3	68.3	69.7	71.0	73.8	69.5	67.0
ONSET BAY, INNER	73.9	71.9	72.4	72.3	73.6	72.6	72.9
ONSET BAY, OUTER	80.3	78.4	78.3	78.2	77.3	76.6	75.4
<b>LITTLE HARBOR</b>							
LITTLE HARBOR	NA	NA	NA	NA	NA	NA	50.8
<b>Wareham Agawam &amp; Broadmarsh Estuary:</b>							
<b>Agawam River-Parkers Mill Pond-Wareham River-Marks Cove-Broadmarsh River</b>							
AGAWAM RIVER	88.8	88.8	88.8	88.8	88.8	88.2	81.0
WAREHAM RIVER, INNER	40.8	41.6	41.1	43.1	42.0	45.6	46.8
WAREHAM RIVER, OUTER	47.1	47.0	47.4	40.3	48.4	53.4	55.7
MARKS COVE	43.9	51.5	48.9	49.7	51.2	53.7	53.0
BROAD WARD RIVER	50.9	50.7	51.5	50.2	42.8	44.3	41.4
<b>Wareham Estuary</b>							
WAREHAM RIVER, INNER	34.7	35.2	36.5	37.1	35.8	33.6	33.0
WAREHAM RIVER, OUTER	48.7	49.5	50.5	51.5	47.7	47.0	46.7
<b>Sippican Harbor Estuary:</b>							
<b>Hammets Cove, Sippican Hbr, Blankenship Cove, Planting Island Cove</b>							
HAMMETS COVE	88.8	88.8	88.8	88.8	88.8	88.2	81.0
SIPPICAN HARBOR, INNER	56.2	55.0	53.4	51.5	49.1	44.4	40.6
SIPPICAN HARBOR, OUTER	72.0	70.8	69.7	66.9	67.2	63.8	59.3
BLANKENSHIP COVE	71.3	70.9	71.3	70.4	72.8	66.8	61.3



# Water Quality Data Reports

**Report of the  
Buzzards Bay Citizens'  
Water Quality Monitoring  
Program 1992-1995**

**BAYWATCHERS**

**REPORT DESIGN BY:**  
Eileen Gunn  
Coalition Water Monitoring Program Coordinator

**WRITTEN BY:**  
Dr. Joseph E. Costa  
Dr. Brian L. Howes  
Eileen Gunn

Fall 1996

**JOINTLY SPONSORED BY:**  
the **Coalition for Buzzards Bay**  
and the **Buzzards Bay Project**

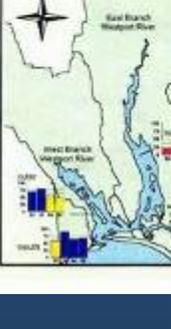
**BAYWATCHERS II**  
Nutrient related water quality of Buzzards Bay subregions  
Kerithopsis of Baywatchers monitored 1992-1995

**EDITED BY:**  
Dr. Brian Howes,  
Mary Williams &  
Mark Westerman

Produced by The Coalition for Buzzards Bay



# Water Quality Posters



### BAYWATCHERS MONITORING PROGRAM

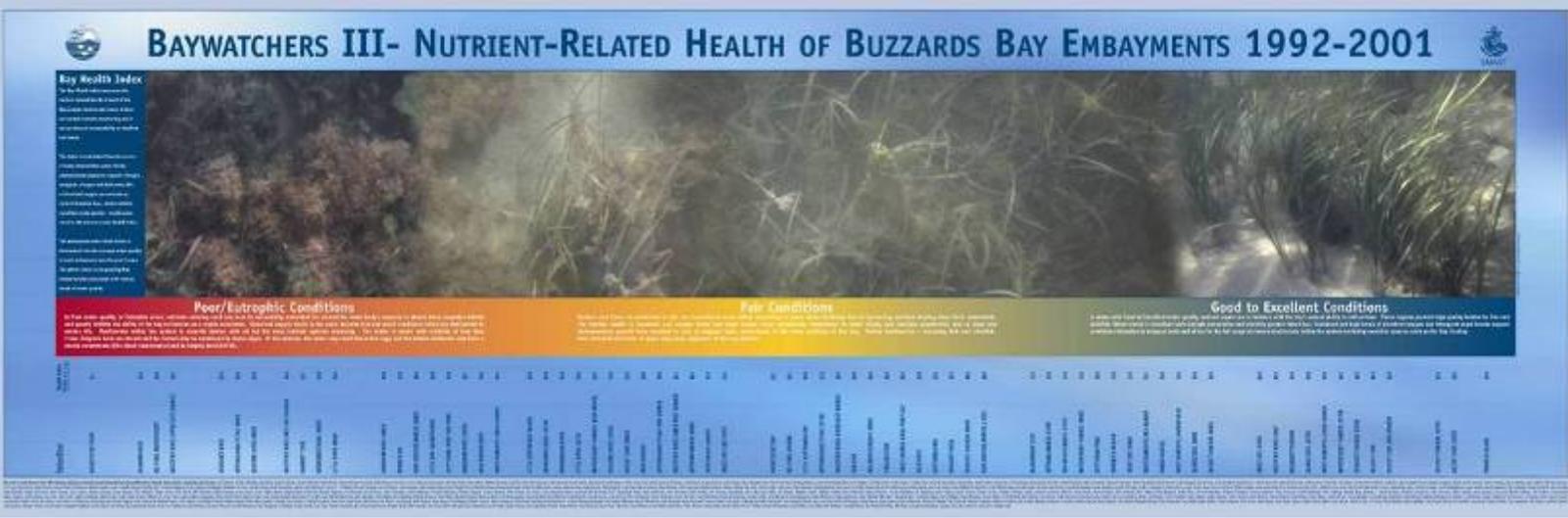
The Coalition for Buzzards Bay, the Buzzards Bay Project, and the Massachusetts Department of Environmental Protection (DEP) have joined forces to monitor the health of Buzzards Bay. The program is a joint effort of the Buzzards Bay Project, the Coalition for Buzzards Bay, and the Massachusetts Department of Environmental Protection (DEP). The program is a joint effort of the Buzzards Bay Project, the Coalition for Buzzards Bay, and the Massachusetts Department of Environmental Protection (DEP).

### THE COALITION FOR BUZZARDS BAY

The Coalition for Buzzards Bay is a public-private partnership between the Buzzards Bay Project, the Massachusetts Department of Environmental Protection (DEP), and the Buzzards Bay Project. The Coalition for Buzzards Bay is a public-private partnership between the Buzzards Bay Project, the Massachusetts Department of Environmental Protection (DEP), and the Buzzards Bay Project.

### ACKNOWLEDGMENTS

We would like to thank the many individuals and organizations that have supported the Baywatchers III program. We would like to thank the many individuals and organizations that have supported the Baywatchers III program.





# Watershed Signs & Displays

## Buzzards Bay Water Quality

Buzzards Bay remains one of the healthiest coastal ecosystems on the East Coast. But a major change is underway along its coastline which threatens the health of the Bay's nearshore harbors, coves and tidal rivers. Buzzards Bay's future is significantly threatened by increasing nitrogen pollution. Today, more than 1/2 of Buzzards Bay's harbors and coves are suffering from nitrogen pollution.



### THE THREAT OF NITROGEN POLLUTION

While nitrogen is a natural and essential part of all marine ecosystems, excess quantities reduce water quality and degrade marine habitat.

With increased nitrogen pollution, heavy algae growth blocks sunlight and reduces oxygen needed for healthy growth of marine species. As the health of the Bay declines, additional negative impacts are generated, such as murky water, foul odors, and loss of marine plants and animals such as eelgrass and shellfish.

The principle sources of nitrogen in Buzzards Bay include septic systems, wastewater treatment plants, stormwater runoff, lawn and agricultural fertilizers, and acid rain—all coming from a growing population and increasing poorly-planned development throughout the Bay's watershed.

### LET'S ALL REDUCE NITROGEN POLLUTION

You can help improve the health of the Bay:

- Reduce your own fertilizer use at home.
- Support town efforts to clean up pollution and manage new land development.
- Become a member of The Coalition for Buzzards Bay and get directly involved in Bay protection and restoration efforts.

### THE COALITION FOR BUZZARDS BAY

The Coalition for Buzzards Bay is a nonprofit, membership organization dedicated to the protection and restoration of Buzzards Bay and its watershed.

If you would like to become a volunteer water quality monitor, learn more about Bay protection efforts, or to join The Coalition for Buzzards Bay, visit us on the web at:

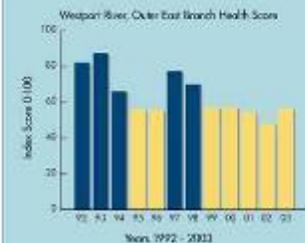
[www.savebuzzardsbay.org](http://www.savebuzzardsbay.org)

### HOW HEALTHY IS YOUR LOCAL WATERWAY?

#### WESTPORT RIVER, OUTER EAST BRANCH

##### The Buzzards Bay Health Index

- Good to Excellent (65-100)
- Fair (35-65)
- Poor Conditions (<35)



The Bay Health Index measures the nitrogen-related health of each of Buzzards Bay's near-harbors, coves and tidal rivers. It does not include bacteria monitoring and is not an index of public health safety including recreational or health-hed risks.

THE COALITION FOR BUZZARDS BAY

Monitoring conducted in partnership with the Agency of Aquatic Resources, United for Nature Science and Technology (AARST) and funded in part by a grant from the Buzzards Bay Project National Estuary Program and the U.S. Environmental Protection Agency.

THE COALITION FOR BUZZARDS BAY

THE COALITION FOR BUZZARDS BAY

ENVIRONMENTAL TRUST







# Communication of Results to the Community

Newspapers

Newsletters

Town  
Planning  
Departments

**Sunday Standard-Times**  
SERVING THE SOUTHCOAST COMMUNITY

SUNDAY, June 17, 2007  
New Bedford, Mass.  SouthCoastToday.com  
Newsstand: \$2.00

## Buzzards Bay's health declines

Nitrogen pollution from land development cited as major reason in environmental report

By BECKY W. EVANS  
Member Times staff writer

The health of Buzzards Bay is declining due to population growth and development pressure in watershed communities, which have increased pollution and destroyed natural filters that keep the bay clean, according to a new report by a local conservation group.

The 2007 State of the Bay report — to be released today by the Coalition for Buzzards Bay — examined pollution sources, watershed features and living marine resources to determine the bay's overall health.

The bay is worse off than it was in 2003 when the first State of the Bay report came out, according to the analysis.

"The bay can't take us not dealing with nitrogen pollution from wastewater systems," said Mark Razzaman, the coalition's executive director.

Nitrogen from home septic systems and town sewer plants is making the bay's near-shore waters cloudy and causing and killing eelgrass beds, which once supported a thriving bay scallop population. Poorly planned development in the 450-square-mile Buzzards Bay watershed is also contributing to the loss of forests, wetlands and stream buffers that filter nitrogen and other pollutants before they

See POLLUTION A1



**Map Legend:**

- Green circle: Good to Excellent
- Yellow circle: Fair
- Red circle: Poor or Eutrophic
- Red outline: Denotes Buzzards Bay watershed area

**Map Labels:** Buzzards Bay, 45

**Summary Metrics:**

Category	Value	Indicator
BAY POLLUTION	56	Nitrogen - 55*
BAY POLLUTION	56	Bacteria - 55*
WATERSHED HEALTH	75	Forests - 78*
WATERSHED HEALTH	67	Stream buffers - 65*
LIVING RESOURCES	26	Eelgrass - 24*
LIVING RESOURCES	10	Bay scallops - 12*

**Inset Photo:** Sea lettuce and algae float on the surface of Apponaugsett Harbor, Dartmouth.

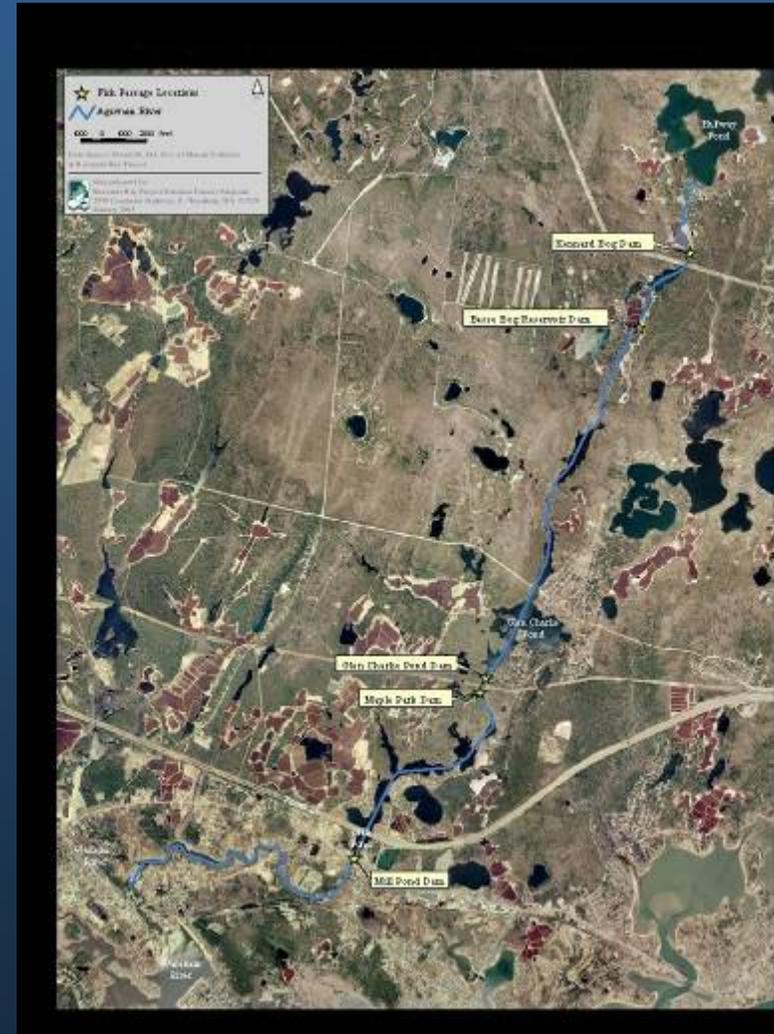





# Water Quality Monitoring Data Drives Advocacy

## Agawam River Case Study:

- Watershed includes two different municipalities (Wareham and Plymouth) and experiencing significant growth pressures.
- The Town of Wareham manages a 1.56 million gallon per day municipal wastewater treatment plant which discharges to the Agawam River.





# Monitoring Data Supports Setting Nitrogen Limit

- Under the federal Clean Water Act all point source discharges into the waters require a permit.
- In 1998 the Town of Wareham sought to renew with EPA its NPDES permit to discharge into the Agawam River.





# Monitoring Data Provides Assessment

- Baywatchers data, the monitoring location downstream of the Wareham Wastewater Treatment Plant scored as a eutrophic embayment, scoring a 17 out of 100, while the monitoring site upstream of the WWTP scored a 60 out of 100. Wastewater Treatment Plant impact on water quality in the Agawam River.
- Through the Public Comment Period for the NPDES permit application, The Coalition used the Bay Health Index Scores to advocate for a nitrogen limit at the WWTP. While several nitrogen limits were proposed, in 2003 the EPA issued a permit limit of 4mg/l, the most stringent nitrogen limit in all of Buzzards Bay.

<b>Wareham/Agawam &amp; Broadmarsh Estuary:</b>					
<b>Agawam River-Parkers Mill Pond-Wareham River-Marks Cove, Broadmarsh River</b>					
AGAWAM RIVER	16.5	17.0	16.1	16.3	17.6
WAREHAM RIVER, INNER	40.8	41.6	41.1	43.1	42.0
WAREHAM RIVER, OUTER	47.1	47.0	47.4	48.8	48.4
MARKS COVE	43.9	51.5	48.9	49.7	51.2
BROADMARSH RIVER	50.9	50.7	51.5	50.2	43.8



# Monitoring Data Shows Success New Opportunities:

## Follow up Monitoring:

- Today's water quality show improvement as a result of the treatment plant's nitrogen limit, and the Coalition continues to use these results to push nitrogen limits on future impacts as well.
- The Watershed faces significant growth pressures and in 2006 a 1,100 residential unit development was proposed in the Town of Plymouth, sought to discharge nearly 350,000 gallons of wastewater into the River, threatening to undue the improvements of the nitrogen limit at the Wareham Wastewater Treatment Plant.
- Using Baywatchers data as the tool, The Coalition has been able to work with the developer to reduce their nitrogen load to 0. (offset load per TMDL)

<b>Wareham/Agawam &amp; Broadmarsh Estuary:</b>								
<b>Agawam River-Parkers Mill Pond-Wareham River-Marks Cove, Broadmarsh River</b>								
AGAWAM RIVER		16.5	17.0	16.1	16.3	17.6	18.7	21.1
WAREHAM RIVER, INNER		40.8	41.6	41.1	43.1	42.0	45.6	46.8
WAREHAM RIVER, OUTER		47.1	47.0	47.4	48.8	48.4	53.4	55.7
MARKS COVE		43.9	51.5	48.9	49.7	51.2	53.7	53.0
BROADMARSH RIVER		50.9	50.7	51.5	50.2	43.8	44.3	41.4
<b>Weweantic Estuary</b>								



# New Methods to Share Information with the Public

How to provide accessible information on the state of water quality ?

The screenshot shows a Windows Internet Explorer browser window displaying the website <http://www.savebuzzardsbay.org/baywatchers/>. The page layout includes a map of Buzzards Bay on the left with numerous red dots representing monitoring stations. On the right, there is a text area with a large 'W' heading, a paragraph of introductory text, and a section titled 'BAY HEALTH INDEX' with a sub-section 'WHAT IS IT?'. The website footer includes the text 'THE COALITION FOR BUZZARDS BAY BAYWATCHERS'. The browser's address bar and various toolbars are visible at the top and bottom of the window.

<http://www.savebuzzardsbay.org/baywatchers/>



# Watershed on the Web

Buzzards Bay Water Quality Data - Baywatchers - The Coalition for Buzzards Bay - Windows Internet Explorer

http://www.savebuzzardsbay.org/baywatchers/

File Edit View Favorites Tools Help

Buzzards Bay Water Quality Data - Baywatchers - Th...

RETURN HOME

Mattapoissett

MATTAPOISETT HARBOR

THE COALITION FOR BUZZARDS BAY  
BAYWATCHERS

INNER MATTAPOISETT HARBOR - SITE MH1

### Mattapoissett Harbor - Inner

Site	Health Index Score	Category
MH1	78	GOOD TO EXC
MH2	75	GOOD TO EXC
MH3	68	GOOD TO EXC
MH4	68	GOOD TO EXC
MH5	75	GOOD TO EXC
MH6	70	GOOD TO EXC
MH7	82	GOOD TO EXC
MH8	73	GOOD TO EXC
MH9	70	GOOD TO EXC
MH10	70	GOOD TO EXC
MH11	83	GOOD TO EXC
MH12	68	GOOD TO EXC
MH13	78	GOOD TO EXC
MH14	73	GOOD TO EXC
BI1	78	GOOD TO EXC



# Your Local Harbor

Buzzards Bay Water Quality Data - Baywatchers - The Coalition for Buzzards Bay - Windows Internet Explorer

http://www.savebuzzardsbay.org/baywatchers/

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MATTAPOISETT HARBOR

THE COALITION FOR BUZZARDS BAY  
**BAYWATCHERS**

### Mattapoissett Harbor - MH1

Year	Phaeo-pig (ug/L)	Chlorophyll (ug/L)
93	6.0	5.0
94	5.5	4.5
95	5.0	4.0
96	4.5	3.5
97	4.0	3.0
98	3.5	2.5
99	3.0	2.0
00	5.5	4.5
01	5.0	4.0
02	4.5	3.5
03	4.0	3.0
04	4.5	3.5
05	5.0	4.0

### Mattapoissett Harbor - MH1

Year	DON (mg/L)	PON (mg/L)	DIN (mg/L)
93	0.35	0.15	0.05
94	0.40	0.15	0.05
95	0.35	0.15	0.05
96	0.30	0.15	0.05
97	0.30	0.15	0.05
98	0.35	0.15	0.05
99	0.45	0.15	0.05
00	0.30	0.15	0.05
01	0.35	0.15	0.05
02	0.40	0.15	0.05
03	0.35	0.15	0.05
04	0.40	0.15	0.05
05	0.35	0.15	0.05

### MH1 - Mattapoissett Harbor/Town Pier

Date	Surface Oxygen (%)	Bottom Oxygen (%)
Apr-02	100	60
Apr-04	100	40
Apr-06	100	50
Apr-08	100	50
Mar-00	100	60
Mar-02	100	60
Mar-04	100	60
May-06	100	50



# *Monitoring: Key to Understanding Our Waters -*

**Communication, Collaboration, and  
Coordination with others  
this is the next step...  
you are now part of the Network.**





Education efforts are focused on creating an informed public today and a generation of future bay stewards who will understand the Buzzards Bay ecosystem (how it works, how it is threatened, and their place in it) and will support its restoration and protection.

*In the end,  
we will conserve only what we love,  
we will love only what we understand,  
we will understand only what we are taught. - Senegalese Proverb*





# Monitoring Partnerships



Executive Office Of Energy and Environmental Affairs



Buzzards Bay



# Thank you

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Tony Williams

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