



NJ Department of Environmental Protection  
Water Monitoring and Standards

**COOPERATIVE COASTAL MONITORING PROGRAM**  
Summary Report for 2010



December 2010

State of New Jersey  
Chris Christie, Governor  
Kim Guadagno, Lt. Governor

NJ Department of Environmental Protection  
Bob Martin, Commissioner

**COOPERATIVE COASTAL MONITORING PROGRAM**  
Summary Report for 2010

**New Jersey Department of Environmental Protection**  
Water Resources Management  
John Plonski, Assistant Commissioner

Water Monitoring and Standards  
Jill Lipoti, Director

December 2010

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**Cover Photo** – New Jersey Coastline at Ocean City (photo by Steve Jacobus, NJDEP)

## Introduction

The Cooperative Coastal Monitoring Program (CCMP) is coordinated by the New Jersey Department of Environmental Protection's Water Monitoring and Standards program. The CCMP assesses coastal water quality and investigates sources of water pollution. The information collected under the CCMP assists the DEP in responding to immediate public health concerns arising from contamination in coastal recreational bathing areas. Agencies that participate in the CCMP perform sanitary surveys of beach areas and monitor concentrations of bacteria in nearshore ocean and estuarine waters to assess the acceptability of these waters for recreational bathing. These activities and the resulting data are used to respond to immediate public health concerns associated with recreational water quality and to eliminate the sources of fecal contamination that impact coastal waters. Funding for the CCMP comes from the NJ Coastal Protection Trust Fund and the United States Environmental Protection Agency (EPA) Beaches Environmental Assessment and Coastal Health (BEACH) Act grants. BEACH Development and Implementation grants were awarded in the years 2001 through 2010. DEP designs the beach sampling and administers the communication, notification and response portion of the CCMP. A portion of the BEACH grant funds are passed through to the four county health departments participating in the CCMP who perform the weekly sample collection and analysis. The participating agencies are:

Atlantic County Health Department  
Cape May County Health Department  
Monmouth County Health Department  
Ocean County Health Department

Additional assistance is provided by the following agencies:

Atlantic City Health Department  
Long Beach Township Health Department  
Long Branch Health Department  
Middletown Health Department  
Monmouth County Regional Health Commission  
New Jersey Department of Health and Senior Services

As part of this program, DEP routinely inspects the 17 wastewater treatment facilities that discharge to the ocean (Appendix 1). DEP also performs aerial surveillance of New Jersey nearshore coastal waters and the Hudson-Raritan estuaries to observe changing coastal water quality conditions and potential pollution sources.

## CCMP Procedures

Chapter IX of the State Sanitary Code N.J.A.C. 8:26 and the DEP *Field Sampling Procedures Manual* prescribe the sampling techniques and beach opening and closing procedures the agencies use for the CCMP. The agencies perform routine sampling from mid-May through mid-September on Mondays. Samples are analyzed for enterococci concentrations using DEP-certified laboratories for EPA approved methods; analyses provide results within 24 hours of sampling. Counties submit water monitoring data to DEP in electronic format after each sampling event

through the use of DEP's web-based Beach Monitoring System. In 2008, DEP began transferring monitoring and beach closing notification data to EPA via the WQX data system.

The CCMP included water quality monitoring at 175 ocean and 43 bay stations in 2010. Station locations coincided with recreational swimming beaches. Recreational stations are sampled to assess trends and to protect recreational bathers from polluted water. Most ocean stations are sampled to evaluate the water quality at several lifeguarded beaches in an area rather than just one lifeguarded beach. These areas consist of contiguous, similar beaches with no likely pollution sources. Individual beaches are assigned monitoring stations when effects from potential pollution sources are possible. A monitoring station is assigned at each recreational bay beach because of their noncontiguous locations.

Recreational beaches, both ocean and bay, are subject to opening and closing procedures of the State Sanitary Code and therefore, must be resampled when during routine sampling, bacteria concentrations exceed the primary contact standard. In the years prior to 2004, the primary contact standard was 200 fecal coliforms per 100 mL of sample. Studies performed by EPA determined that enterococci bacteria have a greater correlation with swimming-associated gastrointestinal illness in marine waters than fecal coliform bacteria. In 2004, the State Sanitary Code was amended and the primary contact standard changed to 104 enterococci bacteria per 100 mL of sample. Consecutive samples that exceed the standard require the closing of the beach until a sample is obtained that is within the standard. When high bacteria concentrations are recorded at an ocean station, the sampling is extended linearly along the beach to determine the extent of the problem and the pollution source. This "bracket sampling" can result in an extension of the beach closing to contiguous lifeguarded beaches. Sampling is always performed in conjunction with a sanitary survey, which includes identifying possible pollution sources and observing water and shoreline conditions.

Health or enforcement agencies may close beaches at any time at their discretion to protect the public's health and safety. Swimming advisories may be issued at any beach with initial sample results exceeding the standard. In 2010, Monmouth County was the only county to issue swimming advisories.

### **2010 Beach Closings**

The participating health agencies closed 64 ocean and 27 bay beaches in the 2010 summer season, a 53% reduction in beach closings over the previous year. The reduced number of closings can be attributed to an extremely dry summer with few rain events. Beach closings can be based on measured bacteria levels exceeding the standard or as a precautionary measure in response to an environmental condition, including floatables. While two Monmouth County health departments implemented beach advisory notification policies late in the 2009 summer bathing season, in 2010, all Monmouth County health agencies implemented a beach advisory policy. Advisories were posted at beaches when first sample results exceeded the water quality standard. Beach conditions, advisories and beach closings, and the reasons for beach closings were posted on the DEP web page ([www.njbeaches.org](http://www.njbeaches.org)) and on the DEP Sandline (800-648-SAND) each day. Additionally, when beach closings were necessary, the county or local health agency posted "No Swimming" signs at the beach. Signs remained posted until the swimming ban was lifted. Detailed beach closing and advisory information, including the specific beaches closed and reasons for the closings for this period, are presented in Appendix 2. Table 1 below presents the

numbers of closings and advisories from 2001 through 2010.

Table 1: Numbers of Ocean and Bay Beach Closings

<u>Ocean Closings</u>	<u>2001</u>	<u>2002</u> <sup>1</sup>	<u>2003</u>	<u>2004</u> <sup>2</sup>	<u>2005</u>	<u>2006</u>	<u>2007</u> <sup>3</sup>	<u>2008</u>	<u>2009</u>	<u>2010</u>
for bacteria	16	0	9	17	7	18	0	1	6	0
precautionary	24	16	58	42	50	79	85	45	111	64
# Rainfall Provisional Beaches	0	2	2	2	3	3	4	4	4	4
for floatables	0	0	13	0	0	0	4	120 <sup>3</sup>	0	0
advisories <sup>4</sup>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7	17
total	40	16	80	59	57	97	89	158	117	81
<u>Bay Closings</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
for bacteria	114	7	82	89	4	27	35	30	32	7
precautionary	4	8	26	20	18	10	18	13	24	20
# Rainfall Provisional Beaches	0	1	1	1	1	1	1	2	2	2
for floatables	0	0	0	0	0	0	0	0	0	0
advisories <sup>4</sup>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	1
total	118	15	108	109	22	37	53	43	56	27

1 Precautionary rainfall-related beach closing policy implemented for two Spring Lake beaches. Two additional ocean and two bay beaches added to policy in subsequent years.

2 Indicator changed from fecal coliform to enterococci in 2004

3 A criminal medical waste dumping event was responsible for 120 ocean beach closings

4 Two Monmouth County health agencies added swimming advisory policies late in the 2009 bathing season

Closings include those required for consecutive high fecal coliform or enterococci concentrations and by health agency discretion due to public health concerns. The large majority of the closings in the above-listed years were related to contaminated stormwater (actual or potential). Beach closings due to wash ups of floatable debris were fairly uncommon. In 1990, floatable debris was responsible for a total of 10 separate beach closings. In the following 12 years, no closings had been due to floatables; however, in 2003, 13 separate closings and in 2007 four closings were due to reported wash ups of trash and debris. In 2008, a criminal medical waste dumping event was responsible for 120 ocean beach closings.

In 2002, the Monmouth County Health Department implemented a precautionary rainfall beach closing procedure which is in effect at beaches with known and identified sources of potential contamination. Precautionary beach closings after significant rainfall at these locations are more protective of public health since there is no need to wait for laboratory results from water quality

sampling. The bathing public is protected from exposure to potentially contaminated stormwater by this approach. Since 2002, a total of four ocean beaches and two bay beaches in Monmouth County have been identified as rain provisional beaches, which accounts for the increase in beach closing numbers at ocean and bay beaches.

The CCMP does not record closings related to rough seas, beach maintenance projects, shark sightings, and fish and clam wash ups. The CCMP also does not include those closings that are briefly in effect during the assessment of water conditions by local officials. Only those beach closings ordered by local health officials are included.

The increase in ocean and bay beach closings in the 2001, 2003, 2004 and 2006 summer seasons may be attributed to frequent periods of intense rainfall and the resulting stormwater discharges. The ocean beaches of Spring Lake were particularly affected by the stormwater impact on the Wreck Pond discharge. In August 2001, all of the beaches on Spring Lake's 2.5 mile shoreline were closed for two days due to a discharge from the pond. As mentioned above, in 2002, a precautionary beach closing plan was implemented in Spring Lake. It requires that the two beaches north of the Wreck Pond outfall, Brown Avenue and York Avenue, close for a specified time period following a rain event. The bathing areas of these two beaches are automatically closed for 24 hours after the end of all rainfalls greater than 0.1 inch or that cause an increased flow in storm drains; and for 48 hours from the end of all rainfalls greater than 2.8 inches within a 24 hour period. In addition, lifeguards (or staff as designated by Spring Lake) will prohibit swimming near any parts of these beaches where the stormwater plume is observed to be mixing within the swimming area. In 2005, the Terrace beach and in 2007, Beacon Boulevard beach (both beaches in Sea Girt just south of the Wreck Pond outfall) were added to the precautionary beach closing plan.

Intensive source trackdown has identified that sources of pollution to Wreck Pond include stormwater discharges directly to the pond and suspected failing infrastructure in the community surrounding the pond. These factors contribute to the elevated levels of enterococcus bacteria discharged to the ocean during rain events. The Department is moving ahead with steps to alleviate these sources of contamination. In 2006, DEP completed a 300-foot extension to the Wreck Pond ocean discharge outfall pipe in order to carry contaminated stormwater further out into the ocean and reduce the impact to bathing beaches. In general, the total number of closings related to bacteria (Figure 1) have been lower in the years after 2006, but the total number of beach closings at the four "rain provisional" beaches varies (Figure 2). These rain closing numbers are dependent on the amount of rainfall in any given summer season. DEP continues to monitor ocean water quality at the affected beaches and is currently analyzing past data in order to evaluate the effectiveness of the rainfall policy.

### Bacteria Related Closings at Wreck Pond Beaches

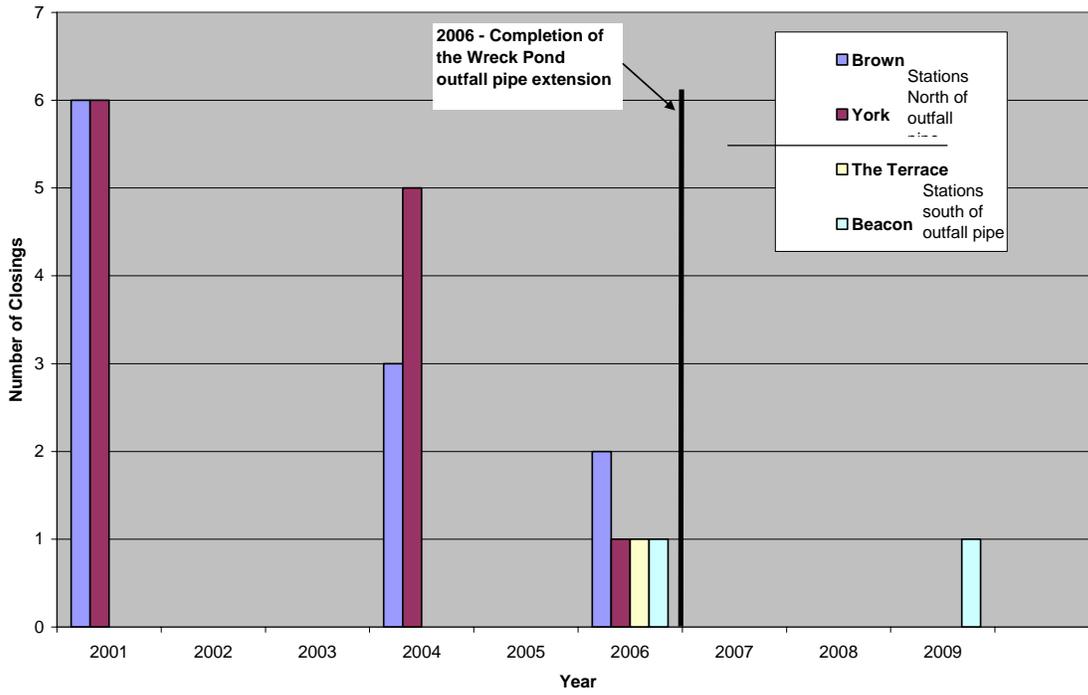
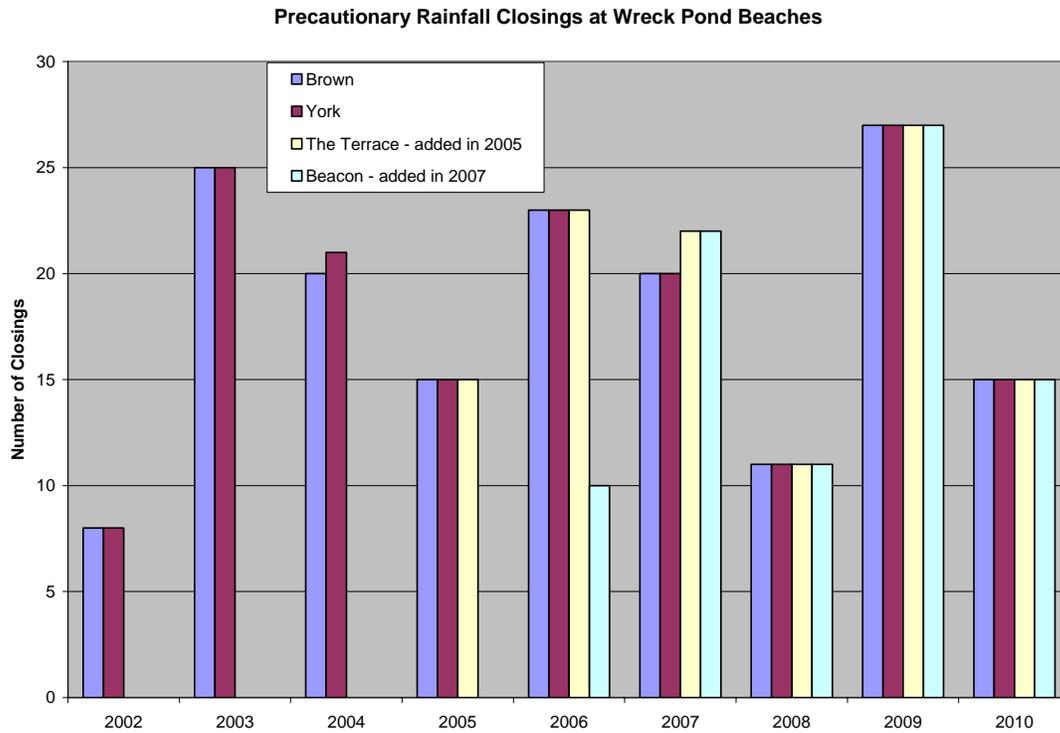


Figure 1. Beach closings caused by bacteria exceeding the standard at the four beaches surrounding the Wreck Pond outfall in the years 2001 - 2010.



**Figure 2. Beach closings at the four "rain provisional" beaches surrounding the Wreck Pond outfall in the years 2002 - 2010. The rainfall closing policy went into effect in 2002. Beacon Beach had rain provisional closings in 2006 but was not officially added to the policy until 2007.**

### Ocean Beach Closings 1995 - 2010

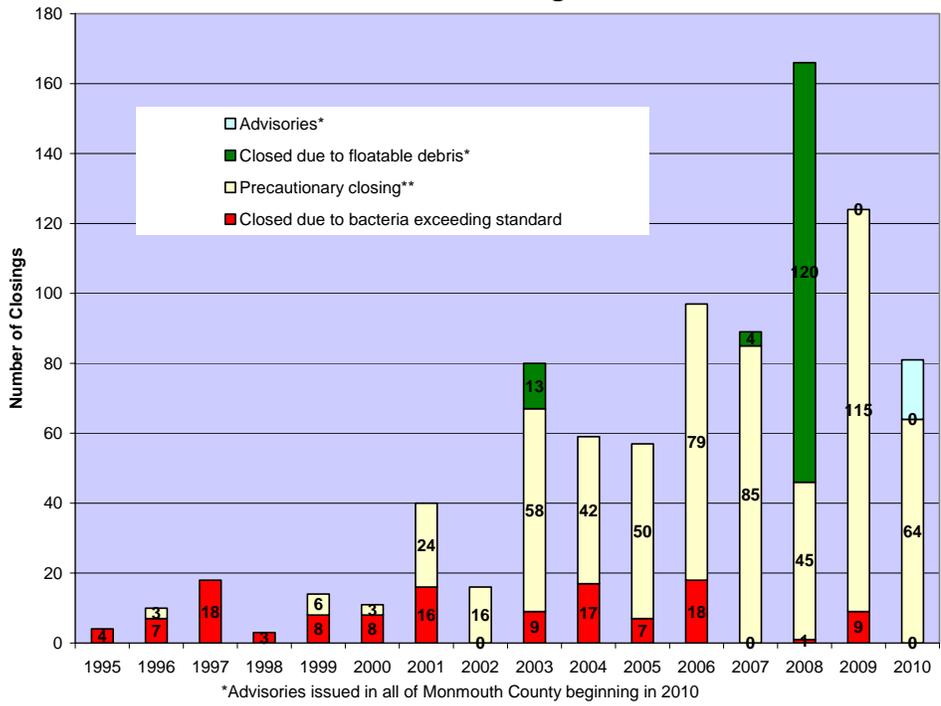
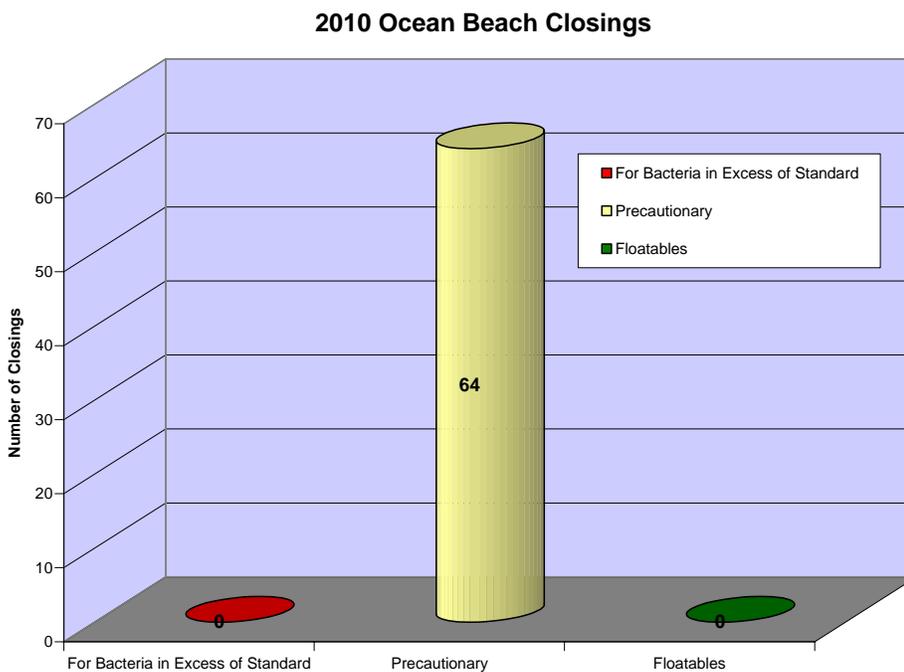


Figure 3. Trend in NJ ocean beach closings.

As shown in Figure 3 and Figure 5, closures at New Jersey's ocean and bay beaches due to exceedances of the water quality standard have been down since the 1990's. Figure 4 and Figure 6 show the 2010 ocean and bay closings and the reasons for closure. However, the overall number of closures is up at ocean beaches primarily due to precautionary closures since 2000 and the criminal medical waste dumping event in 2008. These precautionary closures represent an enhanced level of public health protection that has been implemented by county and local health officials with the support of DEP. Even with these additional precautionary closures, New Jersey beaches are open to bathing over 99.8% of the time (Figure 7). The national average was 95% in 2009<sup>5</sup>, the most recent year for which data is available. New Jersey also has more recreational beaches than any other state in the country.



**Figure 4. 2010 Ocean beach closings and reason for closure**

<sup>5</sup> USEPA 2009 Beach Notification Summary [updated May 2010]. United States Environmental Protection Agency, Water Science [http://water.epa.gov/type/oceb/beaches/seasons\\_2009\\_index.cfm](http://water.epa.gov/type/oceb/beaches/seasons_2009_index.cfm)

### Bay Beach Closings 1995 - 2010

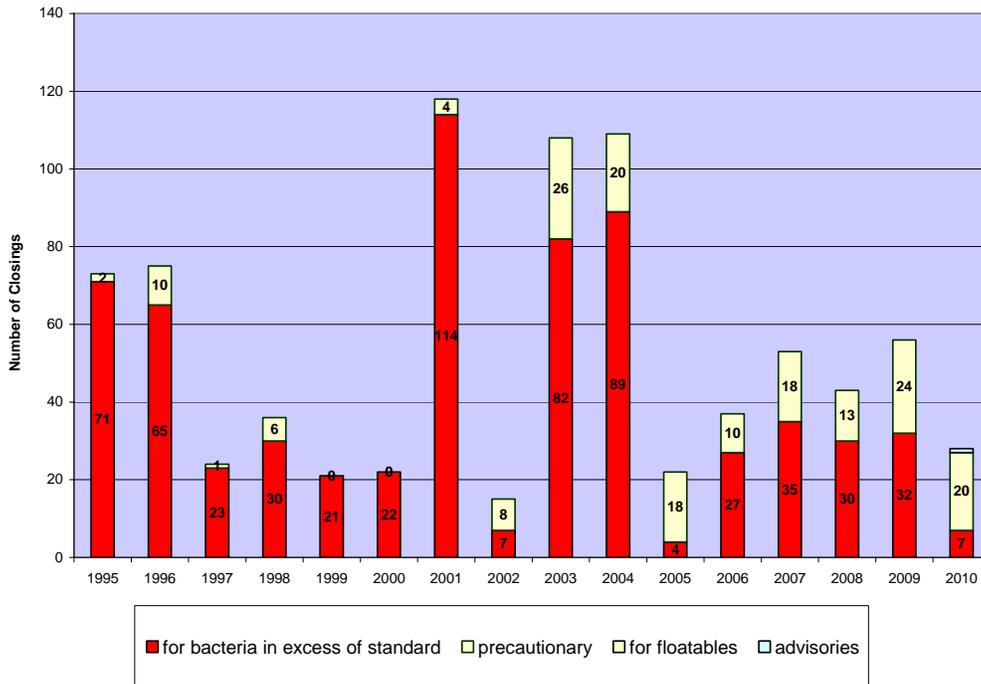


Figure 5. Trend in NJ bay beach closings.

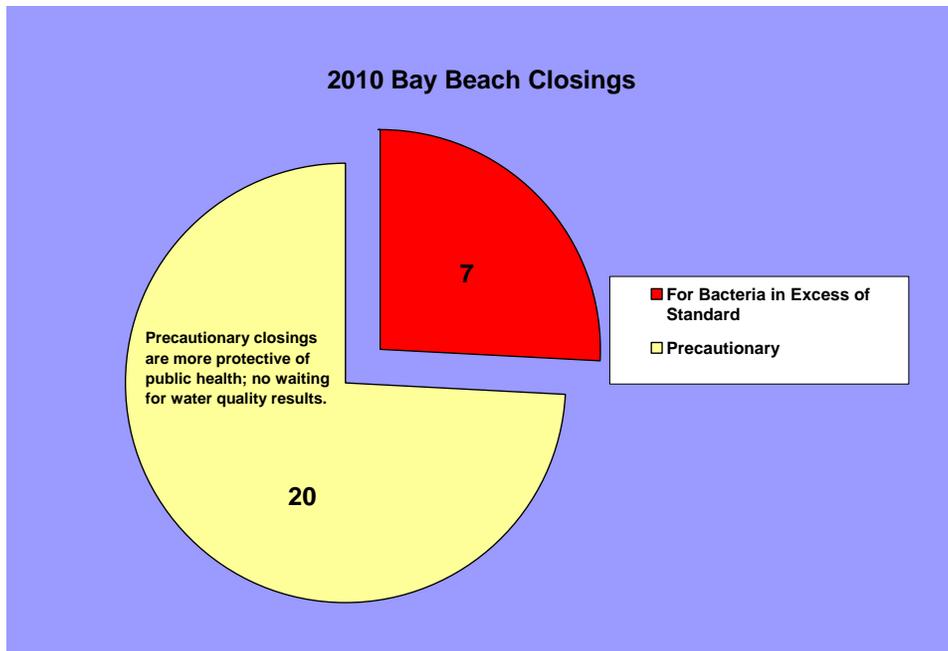
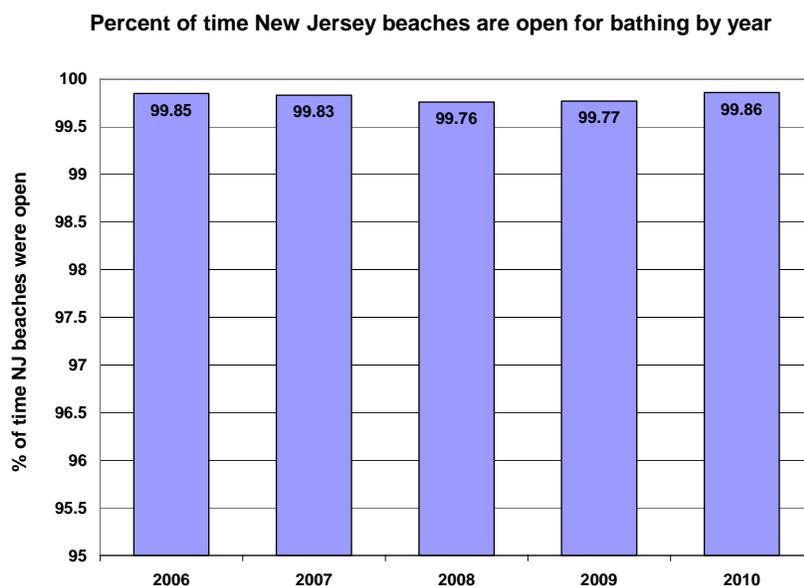


Figure 6. 2010 Bay beach closings and reasons for closings.



**Figure 7. Percent of time NJ ocean and bay beaches are open for bathing by year**

### Enhancements to CCMP

DEP has joined with the USEPA and others in the private and public sectors to identify and address sources of pollution impacting the State's beaches. This approach will accelerate improvements in the quality of our beaches and coastal waters as a result of the increased coordination and pooling of resources.

As previously mentioned, DEP is currently working with local stakeholders to address the elevated bacteria levels in Wreck Pond. In early 2006, DEP completed a 300-foot extension of the Wreck Pond outfall into the ocean. In 2007, DEP's Water Monitoring and Standards Program began an intensive stormwater source trackdown study and has identified a number of potential sources of bacteria to the pond and surrounding beaches. DEP is working with the county and local governments to address these sources. Wet-weather sampling continues in an effort to pinpoint the sources. In 2009 and 2010, this included sampling for enterococcus within some of the stormwater lines that are suspected of causing beach impacts. This work helped to narrow down the areas for further inspection of infrastructure to identify sources of pollution impacting the beaches.

In 2007, 2008, 2009 and 2010, DEP joined with EPA, Monmouth and Ocean County Health Departments and the Ocean County Utilities Authority in a joint sampling program to study the correlation between three different methods for the analysis of enterococcus bacteria in marine waters. EPA Method 1600 is the traditional method used by the CCMP and by Monmouth County for this study. Enterolert was used by Ocean County for the 2007 bathing season only and for the 2007 comparative study. Additional samples were collected and analyzed by EPA using quantitative polymerase chain reaction (qPCR) - a method for the rapid detection of enterococcus bacteria in bathing water. Samples were collected at 20 ocean and bay stations in 2007, at two bay beaches in 2008 and at 10 ocean and bay stations in 2009 and 2010. Final results

for the 2008 study are available at: [http://www.epa.gov/region02/water/oceans/2008Report\\_QPCR\\_NJ\\_Final\\_Jan2010.pdf](http://www.epa.gov/region02/water/oceans/2008Report_QPCR_NJ_Final_Jan2010.pdf). The project will continue during the 2011 summer bathing season.

In 2009 and 2010, ten river beaches in Ocean County were sampled during wet weather conditions to determine whether increased rainfall contributed to increased levels of bacteria at bathing beaches. The data were inconclusive in 2009 and due to the lack of rain events in 2010, the Ocean County Health Department will continue the study in 2011 in order to gather additional data.

### **Coastal Pollution Incidents of Note - 2010**

The following pollution incidents received public, DEP, and local health agency attention in 2010, although the incidents did not always require beach closings:

On May 27, NJ American Water Company reported a approximate 600 – 1000 gallon sewage spill in Ocean City, Cape May County. An estimated 500 gallons was discharged to the storm drain that flows to the ocean near 8<sup>th</sup> and 9<sup>th</sup> Streets. The Cape May County Health Department issued a pre-season beach closing for 8<sup>th</sup> and 9<sup>th</sup> Street beaches as a precaution to anyone who may have primary contact with the water at those beaches.

On June 3, the DEP hotline received a report that a 43-foot pleasure boat washed onto the jetty on the south side of the Shark River Inlet. Much of the boat broke up in the waves and some fuel was released from the wreckage. The remainder of the boat was removed by helicopter on June 8. No nearby ocean beaches were open yet for the season.

On June 27, an 8-year-old girl found a capped syringe on a jetty in Beach Haven Park. She uncapped the syringe and stuck her hand with the needle. The family received risk counseling from the Long Beach Island Health Department. No beaches were closed due to the incident.

On June 28, the DEP hotline received a report that approximately 1000 gallons of raw sewage was discharged to the Cape May Harbor at the Corinthian Yacht Club in Cape May City. The discharge was caused by a blocked line. The Corinthian Yacht Club beach was closed as a precaution.

On July 1, a significant fish kill was reported in Deal Lake between Asbury Park and Loch Arbour in Monmouth County. Thousands of dead fish of different species were removed by local public works crews. The Monmouth County Health Department identified a bloom of cyanobacteria which likely resulted in extremely low measured dissolved oxygen levels.

On July 25, a 48-year-old man stepped on a needle on the beach at 25<sup>th</sup> Street in Spray Beach, Long Beach Island. The man was treated at a local hospital and counseled by the Long Beach Island Health Officer. No other medical-type trash was found and no beaches were closed.

On August 11, there was a significant fish kill on the Delaware Bay side of Cape May County. Tens of thousands of peanut bunker (young menhaden) washed up on approximately 12 miles of

bay side beaches. The line of dead fish was up to 15 feet wide in some areas with the heaviest concentrations in High Beach. Water quality samples were collected by DEP, EPA's helicopter surveillance program, and the Cape May County Health Department. Phytoplankton samples were analyzed and dinoflagellates were identified in the samples but in concentrations well below a bloom level. Dissolved oxygen results showed that the area suffered an extreme low dissolved oxygen event, which is the likely cause of the kill.

Between August 20 and 30, several bay beaches in Long Beach Island were closed as a precaution due to a suspected spill of raw sewage. Sample results from the area were well below the standard for fecal bacteria. It was later determined that a massive washup of decaying potato sponges, *Cramiella sp.*, were misidentified as sewage.

Between September 2 and 7, pink water was observed off the coast of Monmouth County and in New York Harbor. Samples collected and analyzed by the Bureau of Marine Water Monitoring identified the cause of the pink water as due to the phototrophic ciliate *Mesodinium rubrum*, a non-toxic phytoplankton occurring in bloom concentrations. The bloom received much attention and was originally misidentified by the press as a "red tide".

### **Relative Status of New Jersey Beach Water Quality**

According to the latest data from an assessment report of the nation's beaches<sup>5</sup>, New Jersey's beach water quality is among the best on the East Coast of the U.S. As shown in Figure 9, New Jersey had the lowest percentage of beach closings/advisories of the East Coast states in 2009. This good water quality is also reflected in the number of days the beaches were open to the public in NJ. With 700 lifeguarded marine beaches in NJ and 15 weeks to the bathing season, NJ has a total of 73,500 beach-days available each summer. In 2010, there were a total of 91 beach closings, representing 0.12% of the available beach days. In other words, when the public in NJ went to the beach in 2010, they found the beach was open for bathing 99.88 percent of the time. As both Figures 8 and 9 show, NJ has among the highest percentage of beaches open on the East Coast in 2009.

Percent of Beach-Days Affected by Closure or Advisory - East Coast States 2009

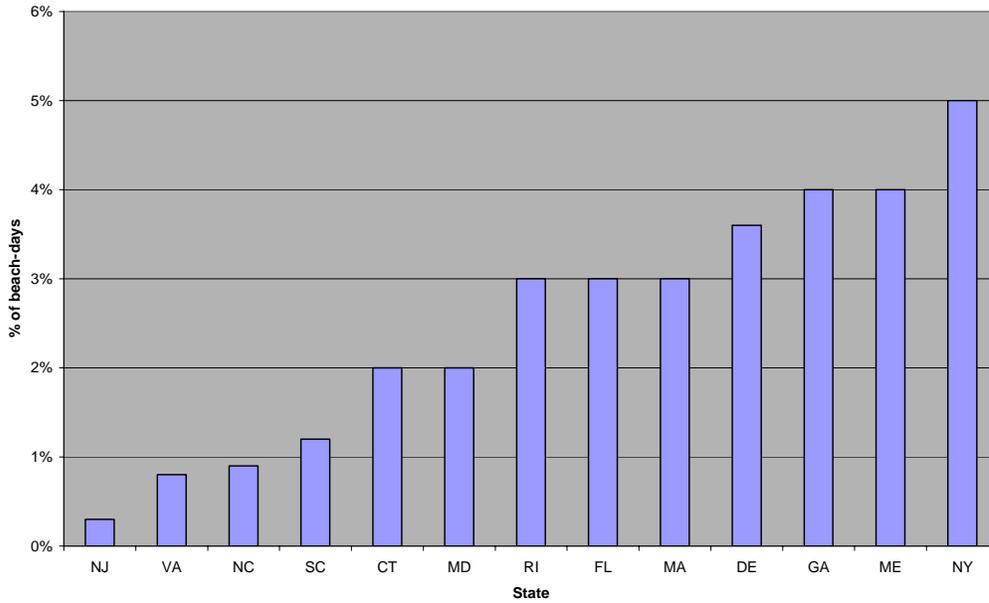


Figure 8. East Coast bathing beaches affected by a closure or advisory in 2009

Percent of Beach Days Open for Bathers - East Coast States in 2009

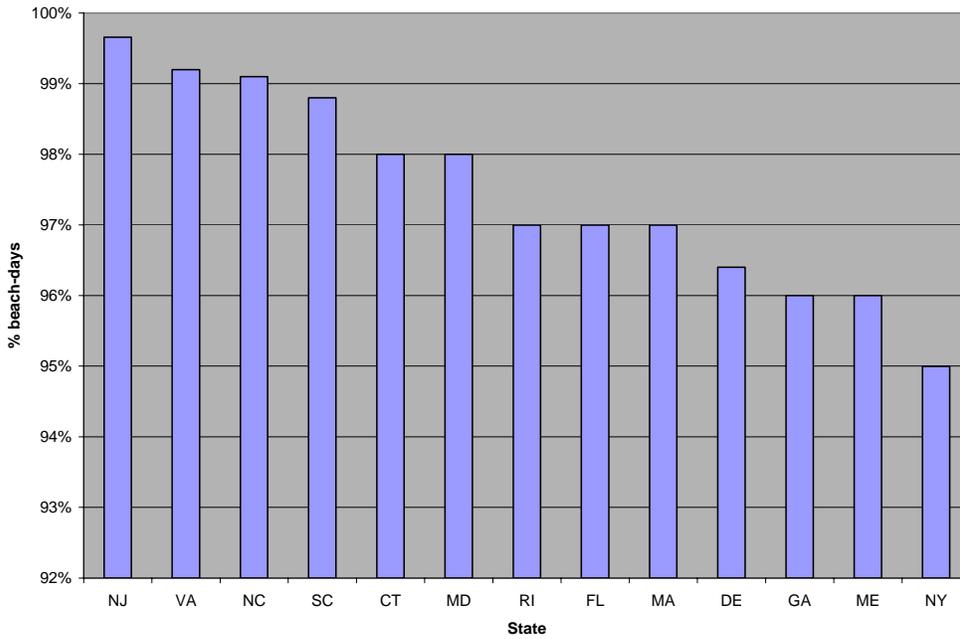
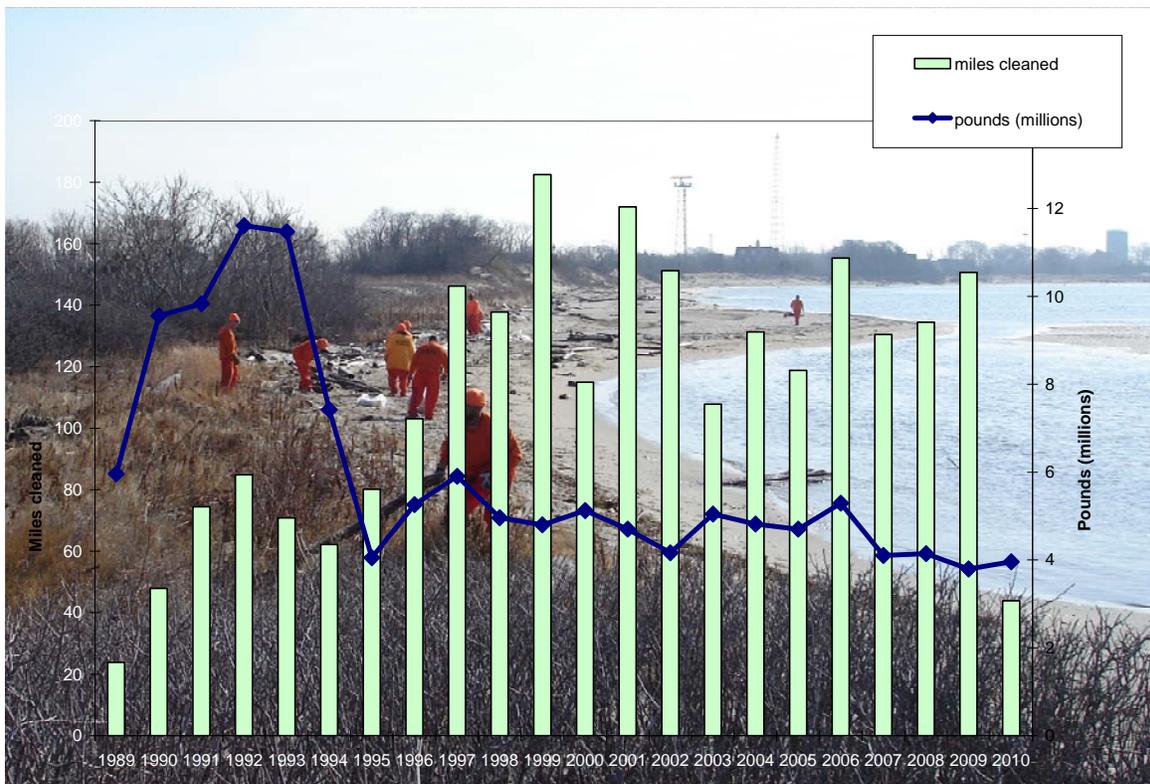


Figure 9. Percent of beach days available to bathers based on USEPA data. Beach days are defined as the # of beaches open multiplied by the # of days in the beach season.

**Related Program:**

**Clean Shores**

Non-recreational shorelines that have been left unattended serve as reservoirs of floatable debris that can be refloated during extreme high tides and can wash up on recreational beaches, become floating hazards to navigation, or impact marine life. DEP uses state correctional facility inmates to remove floatable debris from the shorelines of the Hudson, Raritan, and Delaware estuaries and barrier island bays. The Clean Shores Program conducts shoreline cleanups year-round. The program is funded by the sale of the Shore to Please license plates. In 2009, the Clean Shores Program removed 3.75 million pounds of debris from 151 miles of shoreline. In January 2010, the Clean Shores Program was suspended for four months due to a shortfall in revenue from the sale of the Shore to Please license plates. The program was reinstated in early May 2010. From May – December 2010, Clean Shores removed 3.96 million pounds of trash and debris from 43.8 miles of shoreline (Figure 10). The reduced mileage is due to a focused effort in the northern area of the state with heavy concentrations of timbers and trash.



**Figure 10: Total amount of debris removed by Clean Shores Program since start of program.**

### **Additional Information**

For additional information about the CCMP, or New Jersey's beach monitoring in general, contact Virginia Loftin at 609-984-5599 or [Virginia.Loftin@dep.state.nj.us](mailto:Virginia.Loftin@dep.state.nj.us) or visit the Program's website at [www.njbeaches.org](http://www.njbeaches.org).

## **Appendix 1**

### **Wastewater Treatment Facilities Discharging to the Nearshore Coastal Waters**

- 1 Monmouth County Bayshore Regional Sewage Authority
- 2 Township of Middletown Sewage Authority
- 3 Northeast Monmouth Regional Sewerage Authority
- 4 Long Branch Sewerage Authority
- 5 Township of Ocean Sewerage Authority
- 6 Asbury Park Sewerage Authority
- 7 Township of Neptune Sewerage Authority
- 8 South Monmouth Regional Sewerage Authority
- 9 Ocean County Utilities Authority, Northern
- 10 Ocean County Utilities Authority, Central
- 11 Ocean County Utilities Authority, Southern
- 12 Atlantic County Utilities Authority
- 13 Cape May County Municipal Utilities Authority, Ocean City
- 14 Cape May County Municipal Utilities Authority, Seven Mile Middle
- 15 Cape May County Municipal Utilities Authority, Wildwood
- 16 Cape May County Municipal Utilities Authority, Cape May Point
- 17 Lower Township Municipal Utilities Authority

Appendix 2 – Ocean and Bay Beach Closures and Advisories

NJDEP Cooperative Coastal Monitoring Program 2010  
Beach Closures

DATE	COUNTY	MUNICIPALITY	BEACH	REASON	STATION	Ocean or Bay	STATION
5/30/2010	Ocean	Brick	Windward	High Bacteria	CCMPOC0103	bay	CCMPOC0103
5/31/2010	Ocean	Brick	Windward	High Bacteria	CCMPOC0103	bay	CCMPOC0103
6/28/2010	Cape May	Cape May City	Corinthian YC	sewage spill - precautionary	CCMPCC0099	bay	CCMPCC0099
7/10/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
7/11/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
7/13/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0032	bay	CCMPMC0032
7/14/2010	Atlantic	Somers Point	Bay Avenue/NJ Ave	High Bacteria	CCMPAC0050	bay	CCMPAC0050
7/14/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
7/15/2010	Atlantic	Somers Point	Bay Avenue/NJ Ave	High Bacteria	CCMPAC0050	bay	CCMPAC0050
7/15/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
7/16/2010	Ocean	Beachwood	Beachwood	High Bacteria	CCMPOC0116	bay	CCMPOC0116
7/16/2010	Ocean	Windward	Brick	High Bacteria	CCMPOC0103	bay	CCMPOC0103
7/17/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
7/17/2010	Ocean	Beachwood	Beachwood	High Bacteria	CCMPOC0116	bay	CCMPOC0116
7/19/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
7/26/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
7/29/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
7/30/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
8/1/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
8/1/2010	Monmouth	Neptune	Shark River Beach and Yacht Club	precautionary due to rain	CCMPMC0038	bay	CCMPMC0038
8/20/2010	Ocean	Ship Bottom	14th St	precautionary due to sanitary waste/sewage	CCMOOC0069	bay	CCMOOC0069
8/21/2010	Ocean	Ship Bottom	14th St	precautionary due to sanitary waste/sewage	CCMOOC0069	bay	CCMOOC0069
8/22/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
8/23/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
8/24/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
8/25/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
9/3/2010	Monmouth	Belmar	L Street	precautionary due to rain	CCMPMC0031	bay	CCMPMC0031
5/27/2010	Cape May	Ocean City	8th St	sewage spill - precautionary	CCMPCC1369	ocean	CCMPCC1369
5/27/2010	Cape May	Ocean City	9th St	sewage spill - precautionary	CCMPCC1103	ocean	CCMPCC1103

5/28/2010	Cape May	Ocean City	8th St	sewage spill - precautionary	CCMPCC1369	ocean	CCMPCC1369
5/28/2010	Cape May	Ocean City	9th St	sewage spill - precautionary	CCMPCC1103	ocean	CCMPCC1103
5/29/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
5/29/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
5/29/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
5/29/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072
7/10/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
7/10/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
7/10/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
7/10/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072
7/14/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
7/14/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
7/14/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
7/14/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072
7/15/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
7/15/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
7/15/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
7/15/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072
7/17/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
7/17/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
7/17/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
7/17/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072
7/19/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
7/19/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
7/19/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
7/19/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072
7/26/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
7/26/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
7/26/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
7/26/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072
7/29/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
7/29/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
7/29/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
7/29/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072

7/30/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
7/30/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
7/30/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
7/30/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072
8/1/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
8/1/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
8/1/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
8/1/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072
8/22/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
8/22/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
8/22/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
8/22/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072
8/23/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
8/23/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
8/23/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
8/23/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072
8/24/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
8/24/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
8/24/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
8/24/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072
8/25/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
8/25/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
8/25/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
8/25/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072
9/3/2010	Monmouth	Spring Lake	York Ave.	precautionary due to rain	CCMPMC1070	ocean	CCMPMC1070
9/3/2010	Monmouth	Spring Lake	Brown Ave.	precautionary due to rain	CCMPMC1060	ocean	CCMPMC1060
9/3/2010	Monmouth	Sea Girt	The Terrace	precautionary due to rain	CCMPMC1067	ocean	CCMPMC1067
9/3/2010	Monmouth	Sea Girt	Beacon Blvd.	precautionary due to rain	CCMPMC1072	ocean	CCMPMC1072

**2010 Advisories**

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<b>DATE</b>	<b>COUNTY</b>	<b>MUNICIPALITY</b>	<b>BEACH</b>	<b>REASON</b>	<b>STATION</b>	<b>Ocean or Bay</b>
6/28/2010	Monmouth	Sea Girt	Baltimore	Advisory	CCMPMC1081	Ocean
8/24/2010	Monmouth	Spring Lake	Essex Ave	Advisory	CCMPMC1059	Ocean
8/24/2010	Monmouth	Spring Lake	Worthington	Advisory	CCMPMC1057	Ocean
8/24/2010	Monmouth	Spring Lake	Union	Advisory	CCMPMC1071	Ocean
8/24/2010	Monmouth	Loch Arbour	Village Beach Club	Advisory	CCMPMC1043	Ocean
8/24/2010	Monmouth	Deal	Deal Casino	Advisory	CCMPMC1022	Ocean
8/24/2010	Monmouth	Avon	Washington Ave L Jetty	Advisory	CCMPMC1031	Ocean
8/24/2010	Monmouth	Avon	Sylvania Ave	Advisory	CCMPMC1027	Ocean
8/24/2010	Monmouth	Belmar	7th	Advisory	CCMPMC1074	Ocean
8/24/2010	Monmouth	Belmar	12th	Advisory	CCMPMC1056	Ocean
8/24/2010	Monmouth	Bradley Beach	Ocean Park Ave	Advisory	CCMPMC1053	Ocean
8/24/2010	Monmouth	Neptune Two	Main Ave	Advisory	CCMPMC1051	Ocean
8/24/2010	Monmouth	Asbury Park	1st Ave	Advisory	CCMPMC1050	Ocean
8/24/2010	Monmouth	Middletown	Ideal Beach	Advisory	CCMPMC0044	Bay
8/24/2010	Monmouth	Long Branch	Ocean Beach Club	Advisory	CCMPMC1047	Ocean
8/24/2010	Monmouth	Long Branch	South Bath	Advisory	CCMPMC1020	Ocean