

Seaside Heights

Atlantic Ocean

New Jersey Department of Environmental Protection

Barnegat Bay

# Municipal Stormwater Regulation Program

Dillon's Creek  
Marina

Island Heights



## 2010 Barnegat Bay Watershed Summary Report



New Jersey Department of Environmental Protection  
Division of Water Quality  
Bureau of Nonpoint Pollution Control





# New Jersey Department of Environmental Protection Municipal Stormwater Regulation Program 2010 Barnegat Bay Watershed Summary Report

## INTRODUCTION

New Jersey Department of Environmental Protection's (Department) Municipal Stormwater Regulation Program was developed in response to USEPA's Phase II stormwater regulations and is part of a national program mandated by the US Clean Water Act.

The Department issued four New Jersey Pollutant Discharge Elimination System (NJPDES) general stormwater permits to implement the federal program. The Barnegat Bay Watershed consists of 37 municipalities in Ocean and Monmouth County. 36 of these municipalities have the Tier A Stormwater General Permit which regulates urban, suburban, and coastal municipalities; 1 municipality has the Tier B Stormwater General Permit which regulates mostly rural municipalities. Additionally, the Barnegat Bay Watershed contains 3 Public Complexes that have the Public Complex Stormwater General Permit which regulates county, State, interstate and federal facilities; and 1 County Highway Agency that has the Highway Agency Stormwater General Permit which regulates county, and State highway facilities.

These general permits address stormwater quality and quantity issues related to new development, redevelopment and existing development by requiring regulated entities to develop a stormwater program and implement specific permit requirements.

In addition, the Department permits around 200 industrial facilities within the Barnegat Bay Watershed, including 100 marinas. The industrial stormwater permit issued to marinas ensures that water from boat washing and other contaminants are properly managed and not discharged to the bay.

The Department has summarized the data received from 2004 through December 31, 2009 for the above permittees in the Barnegat Bay Watershed in this Summary Report which shows an exceptional level of compliance. This level of compliance demonstrates the dedication and commitment by the local municipal engineers, public works, and maintenance staff.

## PLANNING

Have all municipalities within Barnegat Bay Watershed adopted a Municipal Stormwater Management Plan (SMP) and Stormwater Control Ordinance (SCO)?



From 2004 to 2009  
**100%**  
of all municipalities within  
the Barnegat Bay  
Watershed have adopted  
a Stormwater  
Management Plan (SMP)  
and Stormwater Control  
Ordinance (SCO)

## PLANNING (continued)

How many new development projects have had stormwater reviews at the municipal level for post construction stormwater management within the Barnegat Bay Watershed?



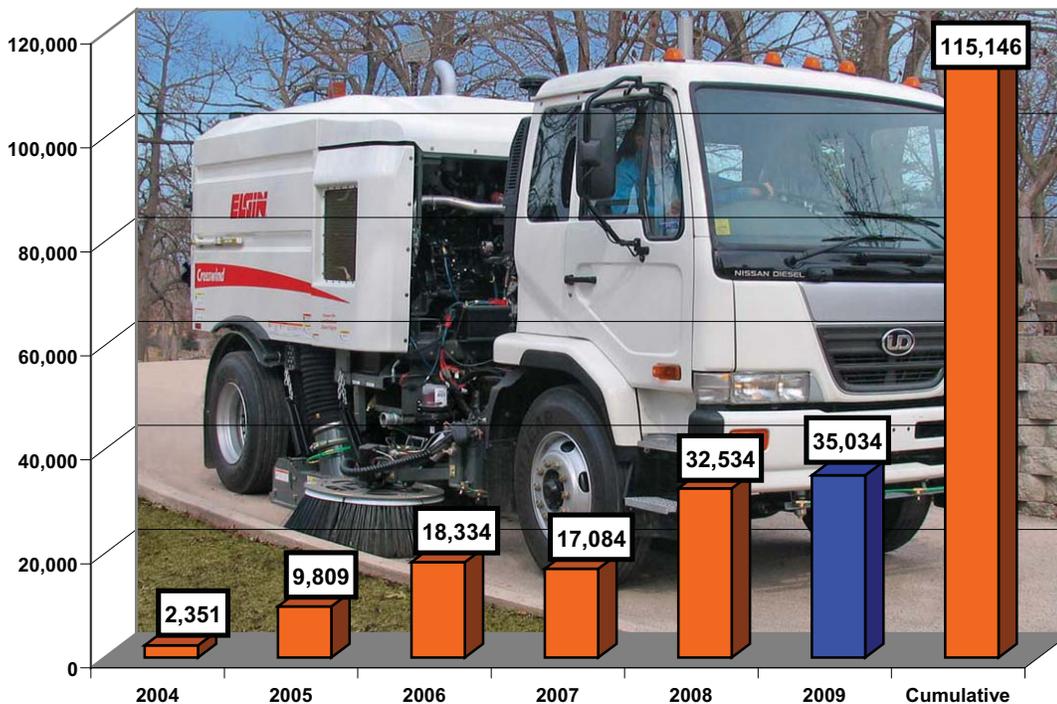
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**986**  
major  
development  
projects have  
been reviewed  
locally to ensure  
stormwater meets  
quantity, quality  
and recharge  
requirements in  
2007 through  
2009

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## INFRASTRUCTURE MAINTENANCE

How many miles of roads and highways have been swept within the Barnegat Bay Watershed?



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**115,146**  
miles of  
roads and  
highways  
have been  
swept in the  
Barnegat  
Bay  
Watershed  
since 2004

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## INFRASTRUCTURE MAINTENANCE

As a result of this aggressive street sweeping program, how many tons of grit, solids and trash have been removed from the Barnegat Bay Watershed's streets?



**93,727 tons**  
of trash and debris have been removed from Barnegat Bay Watershed's streets since 2004

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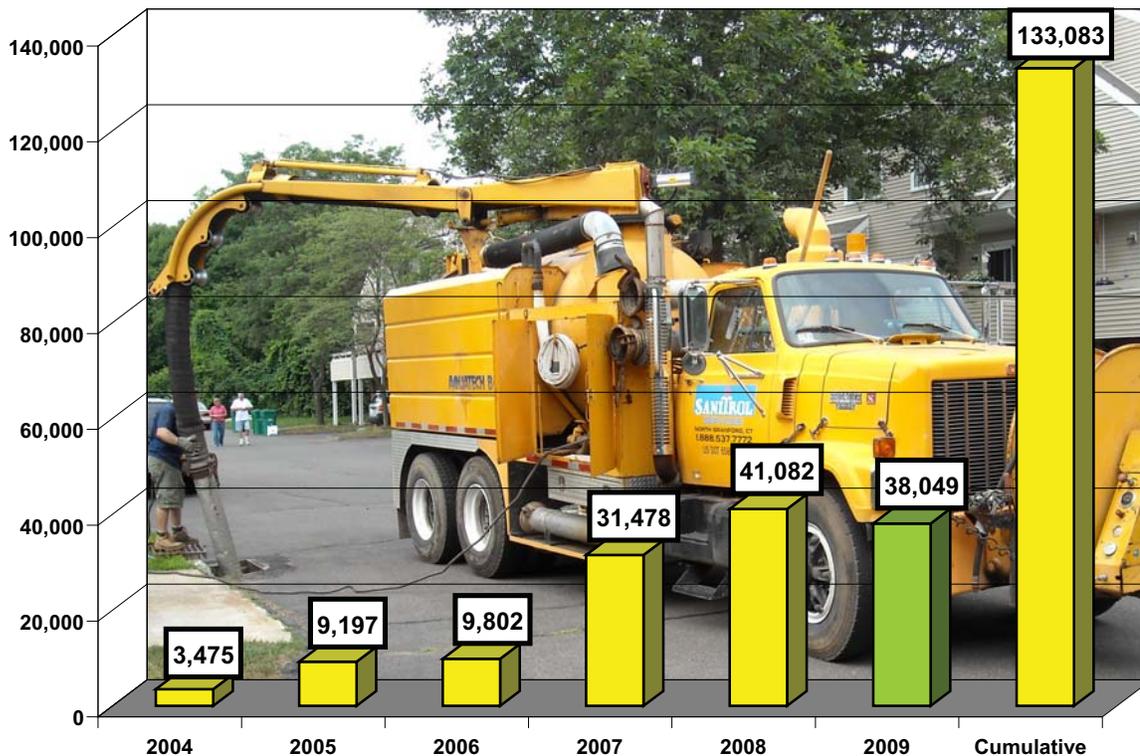
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### **Beach trash problem begins at home**

Storm sewers transport litter to rivers, ocean

APRIL 22, 2010

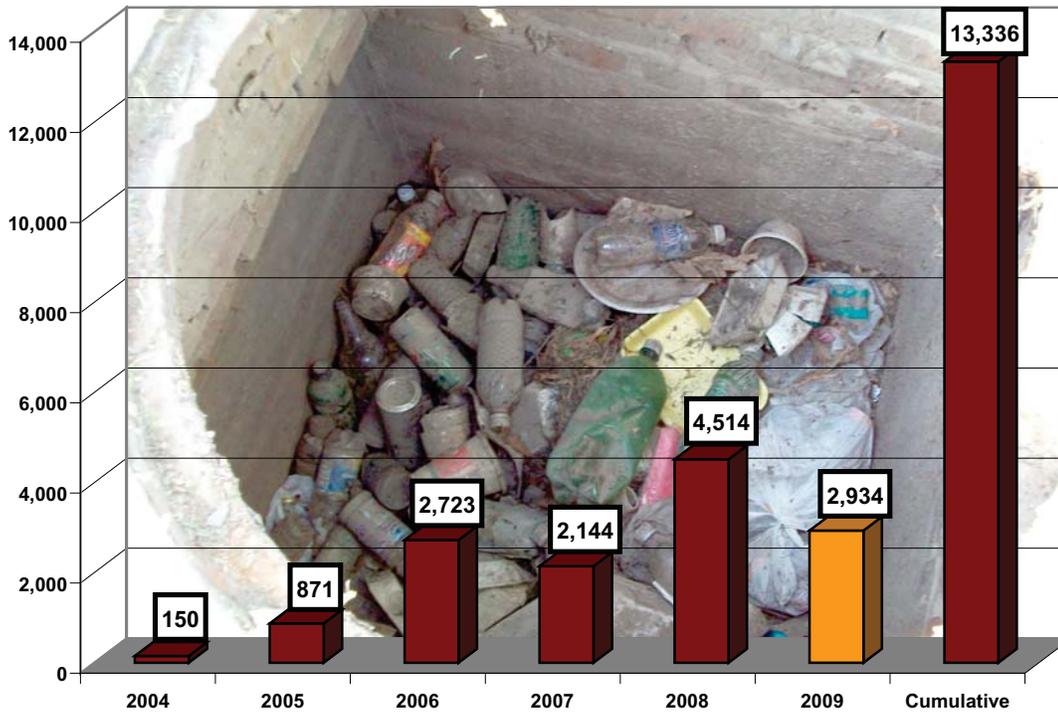
How many storm sewer catch basins have been cleaned within the Barnegat Bay Watershed?



**133,083**  
stormwater catch basins cleaned in the Barnegat Bay Watershed since 2004

## INFRASTRUCTURE MAINTENANCE (continued)

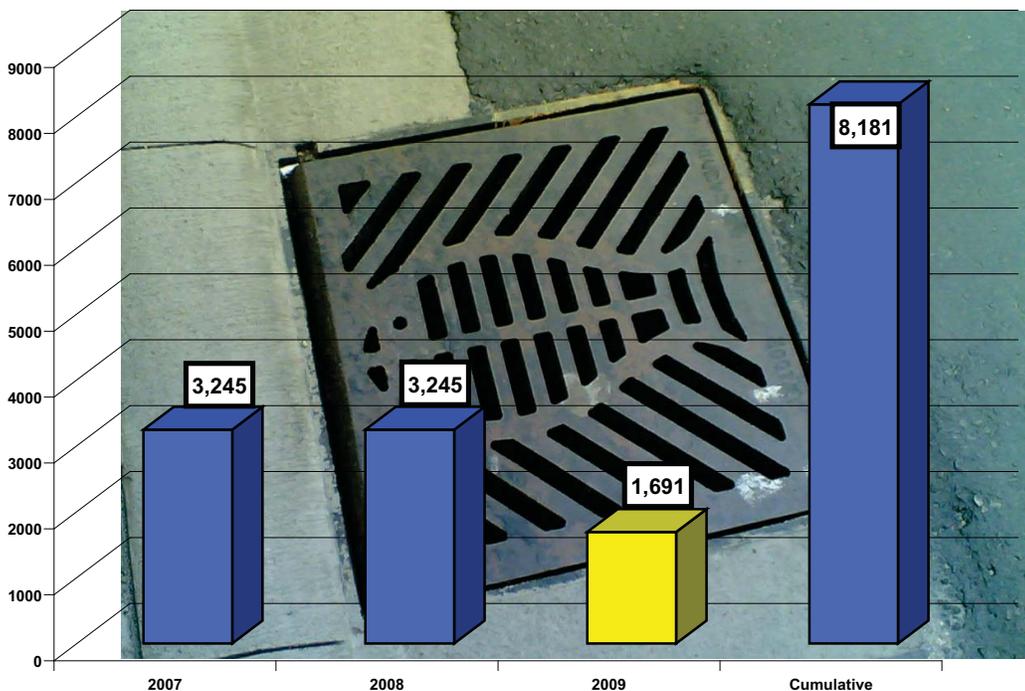
How much sediment, solids and trash have been removed from the Barnegat Bay Watershed's storm sewers as a result of this cleaning program?



**13,336**  
tons of  
sediment,  
solids and  
trash  
removed  
from the  
Barnegat Bay  
Watershed  
storm sewers  
since 2004

Note: Tier A municipalities must inspect all their catch basins and clean those catch basins with accumulated debris. As municipalities sweep streets and retrofit catch basin, less cleaning is required and less material will be removed. It is anticipated that the numbers for cleaning and material removed will continue to trend down and level off as municipalities catch up on maintenance.

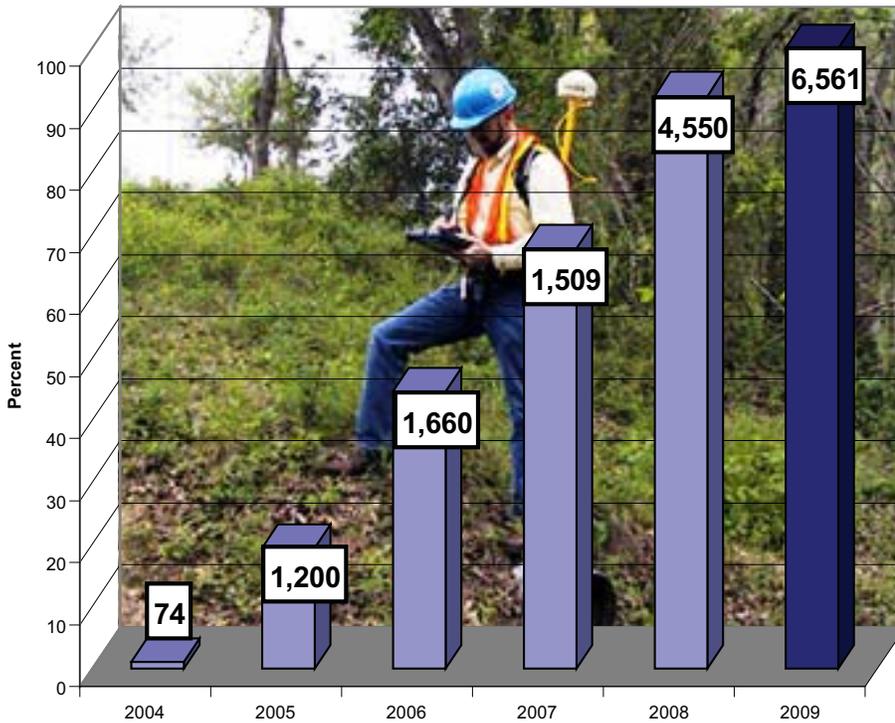
To keep floatables and trash from reaching New Jersey's waters, the municipal permits require the retrofitting of storm drain inlets. How many storm drain inlets have been retrofitted within the Barnegat Bay Watershed as a result of this program?



**8,181**  
storm sewers  
were retrofitted  
within the  
Barnegat Bay  
Watershed  
between  
2007-2009 to  
prevent  
floatables and  
trash from  
reaching the  
Barnegat Bay

## OUTFALL MAPPING

How many stormwater outfall pipes have been inspected and mapped within the Barnegat Bay Watershed?

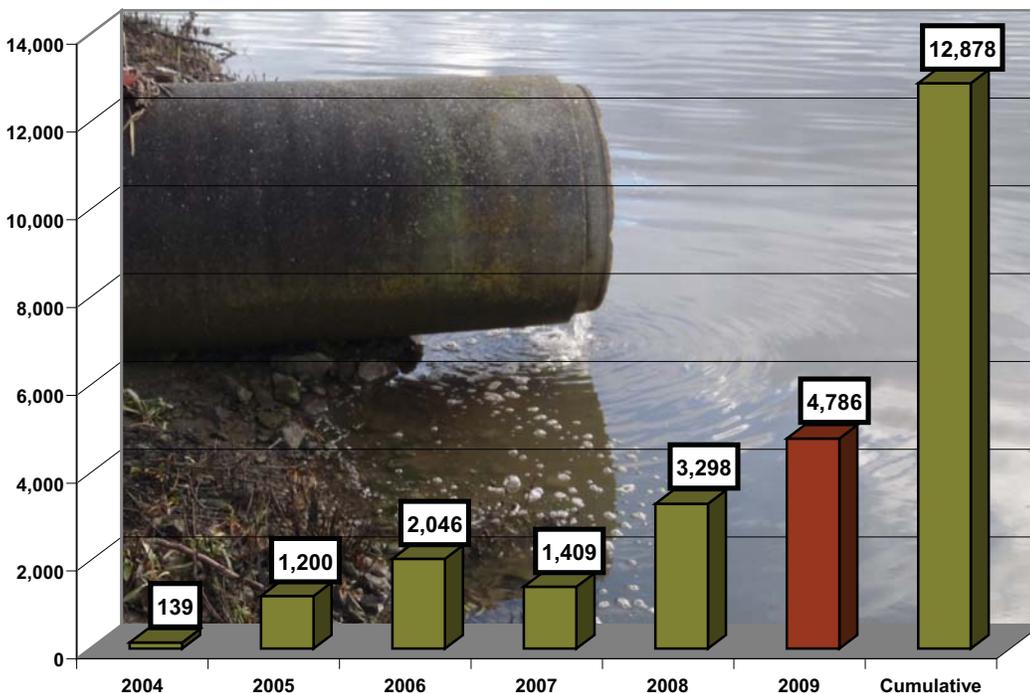


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**6,561**  
Outfall Pipes  
within Barnegat  
Bay Watershed  
have been  
mapped

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How many outfall pipe inspections have been conducted within Barnegat Bay Watershed since 2004?



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**12,878**  
illicit connection  
inspections have  
been conducted  
within the  
Barnegat Bay  
Watershed. Any  
illicit connections  
found during the  
inspection must  
be investigated  
and eliminated.

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## PUBLIC EDUCATION

Nonpoint Pollution is attributable to human activities. The most effective way to change public behavior is through education. In 2009 municipalities were given the flexibility to craft their own local public education program. This is what municipalities within the Barnegat Bay Watershed did in 2009 at the local level to educate the public and increase awareness about stormwater and nonpoint source pollution.

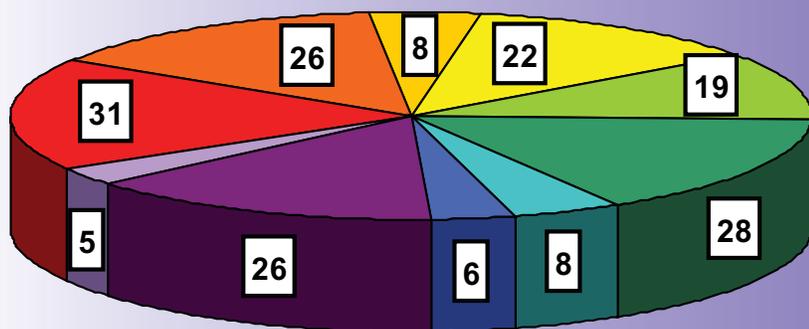


Municipalities within the  
Barnegat Bay  
Watershed held

**347**

local public educational  
activities since 2004

### Educational Activities



- 22 School presentations/stormwater poster contests
- 19 Websites created
- 28 Stormwater displays/murals
- 8 Distribute an item with a stormwater related message
- 6 Citizen Stormwater Advisory Committee
- 26 Utilize department material
- 5 Stormwater training for elected municipal officials
- 31 Mailing
- 26 Local events
- 8 Letter from Mayor on stormwater

## OPERATION & MAINTENANCE

Have all municipalities, public complexes and highway agencies in the Barnegat Bay Watershed implemented measures to properly handle the discharge of equipment and vehicle wash wastewater from their maintenance yard operations?



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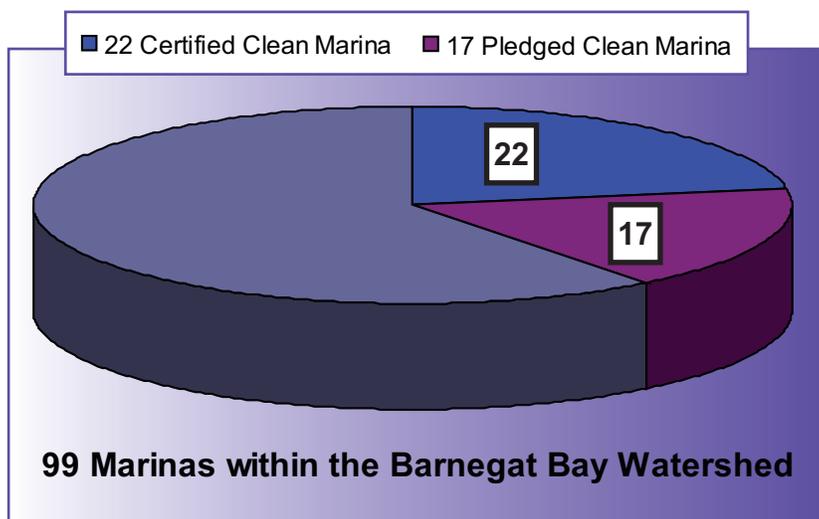
**100%**  
of all municipalities, public  
complexes & highway  
agencies within Barnegat  
Bay Watershed  
implemented measures  
to properly handle  
equipment and vehicle  
wash wastewater

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What is the Clean Marina Program?

The New Jersey Clean Marina Program is a voluntary education program that provides information, guidance, and technical assistance regarding the most effective practices to protect water quality and coastal resources.

How many marinas in the Barnegat Bay Watershed are certified or pledged New Jersey Clean Marinas?

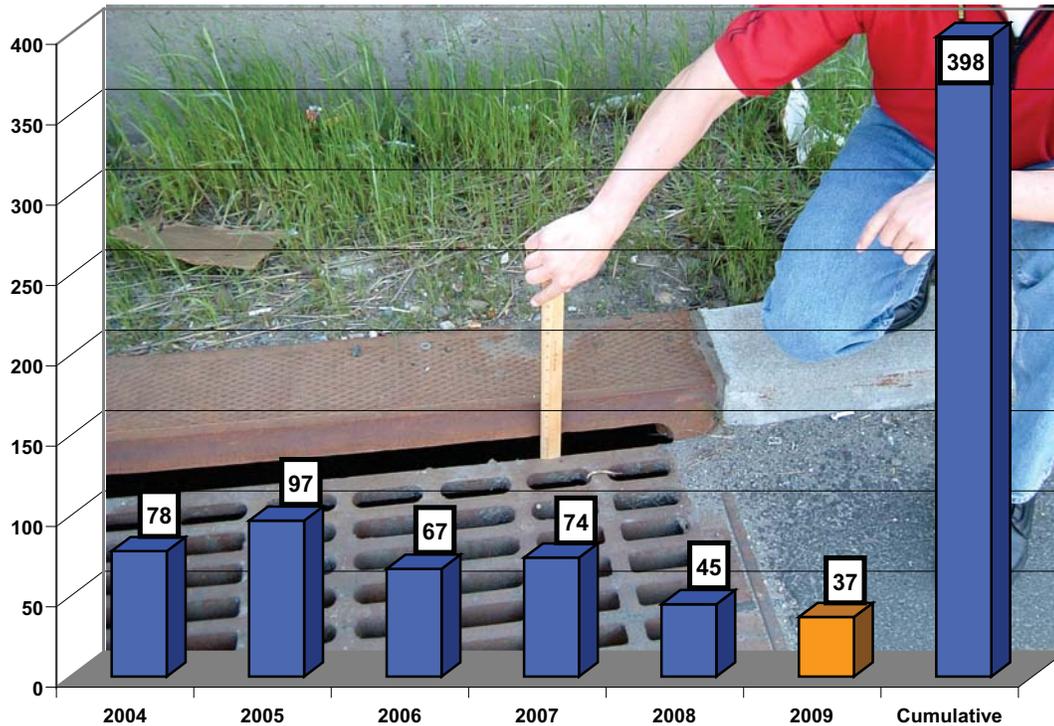


For more information on the Clean Marina Program visit: [www.njcleanmarina.org](http://www.njcleanmarina.org)



## COMPLIANCE & ENFORCEMENT

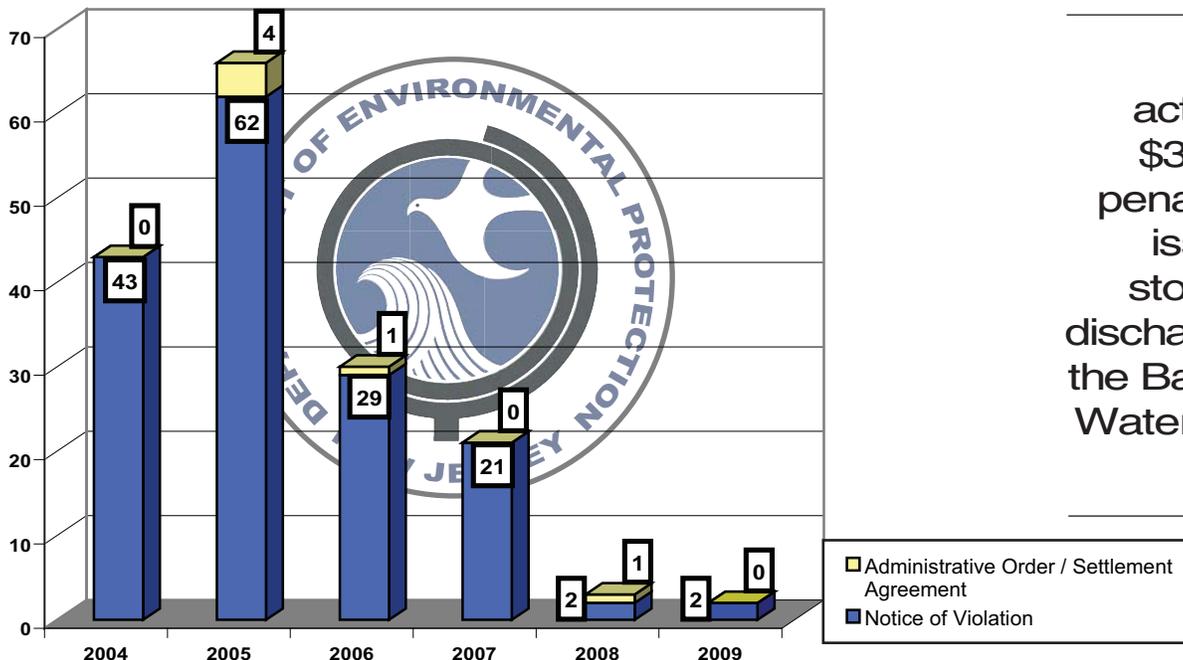
Is the Department conducting compliance assistance inspections of all municipalities, public complexes and highway agencies permitted within Barnegat Bay Watershed?



**398**  
Compliance  
Assistance  
Inspections  
within the  
Barnegat Bay  
Watershed  
since 2005

Note: In view of the fact that the primary requirements of the permit have been attained, the Department has shifted their efforts from routine inspections to identifying and correcting problem areas. Consequently the number of inspections and penalty money collected has decreased from previous years.

Has the Department taken enforcement actions and issued penalties for failure to comply with municipal permit conditions within the Barnegat Bay Watershed?



**165**  
actions and  
\$37,000 in  
penalties were  
issued to  
stormwater  
dischargers within  
the Barnegat Bay  
Watershed since  
2004