

# UPDATE OF NY BIGHT MONITORING PROGRAM

**June 9 - June 22, 2001**

**NY Bight Sampling has been as follows:**

June 9	NY/NJ Harbor Complex	Overflight
June 11	NY/NJ Harbor Complex	Overflight
	Long Island Beaches	Rockaway to Shinnecock Inlet
June 12	NY/NJ Harbor Complex	Overflight
June 13	NY/NJ Harbor Complex	Overflight
June 14	NY/NJ Harbor Complex	Overflight
June 18	NY/NJ Harbor Complex	Overflight
	NJDEP 200 station network	20 DO Samples
June 19	NY/NJ Harbor Complex	Overflight
	Long Island Beaches	Rockaway to Shinnecock Inlet
June 20	NY/NJ Harbor Complex	Overflight
	New Jersey Beaches	Sandy Hook to Longport
June 21	NY/NJ Harbor Complex	Overflight
	NJDEP 200 station network	20 DO Samples
June 22	NY/NJ Harbor Complex	Overflight

**Projected Activities for Next Week:**

June 23	NY/NJ Harbor Complex	Overflight
June 25	NY/NJ Harbor Complex	Overflight
	DRBC	Delaware River sampling
June 26	NY/NJ Harbor Complex	Overflight
	Long Island Beaches	Rockaway to Shinnecock Inlet
June 27	NY/NJ Harbor Complex	Overflight
	New Jersey Beaches	Sandy Hook to Cape May
June 28	NY/NJ Harbor Complex	Overflight
	New Jersey Perpendiculars	NYB's, JC14, 27, 41, 53
June 29	NY/NJ Harbor Complex	Overflight
	New Jersey Perpendiculars	JC61, 69, 75, 85, 90
June 30	NY/NJ Harbor Complex	Overflight

## **Floatables**

The New York/New Jersey Harbor Complex was monitored for floatables a total of ten times from June 9 - June 22, 2001. Floatable runs were not conducted on June 15 and 16 due to rain.

On June 16, a very narrow slick, approximately one and a half miles long, consisting of wood, paper and plastic was reported north of the Verrazano Bridge. On June 22 a slick approximately one half mile long with varying width and density consisting of wood, plastic and paper, was reported south of the Verrazano Bridge.

All slicks were reported to the Army Corps of Engineers, and cleanup was conducted as necessary.

## **Bacteria**

Bacteriological samples were collected along the Long Island coast, from Rockaway Point (LIC01) to Shinnecock Inlet East (LIC28), on June 11 and June 19. Samples were collected along the New Jersey Coast from Sandy Hook (JC01A) to Longport (JC79), on June 20. Samples were not collected along the New Jersey coast on June 13 due to rain. All samples were tested for fecal coliform (FC) and enterococcus bacteria.

Along the Long Island coast, on June 11, there were no findings of fecal coliform. The highest enterococcus count, 1 enterococci/100ml, occurred at Far Rockaway (LIC05). Along the Long Island coast on June 19, the highest FC count, 4 FC/100ml, occurred at Long Beach (LIC09) and Point Lookout (LIC10). The highest enterococcus count, 32 enterococci/100ml, occurred at Long Beach (LIC08).

Along the New Jersey on June 20, the highest FC count, 22 FC/100ml, occurred at Lavallette (JC49). The highest enterococcus count, 7 enterococci/100ml, occurred at Shark River Inlet (JC26). The majority of the remaining counts were zero.

## **Ocean Beach Closures**

York and Brown Avenue ocean beaches in Spring Lake were closed on Tuesday - Thursday, June 19 - June 21. The Monmouth County Health Department decided to close those beaches after one high bacteria sample result. Monmouth County received more than 3.5 inches of rain over the weekend and the stormwater outfall pipes at those beaches were still discharging on Tuesday. All beaches reopened on Friday, June 22.

## **Phytoplankton**

Phytoplankton samples were collected along the New Jersey coast, in Raritan Bay, Sandy Hook Bay, Barnegat Bay, Great Bay, Great Egg Harbor, and Delaware Bay on June 20. Samples were given to the New Jersey Department of Environmental Protection, Bureau of Marine Water Monitoring's Leeds Point Laboratory for analysis. The results, reported by NJDEP are as follows:

- **Raritan/Sandy Hook Bay Area**

A mix of diatoms were dominant in Raritan Bay waters, but not at bloom levels. *Prorocentrum* sp. was detected.

A mild bloom of mixed diatoms was occurring in Sandy Hook Bay waters. *Prorocentrum* sp. was detected.

- **New Jersey Coastal Area**

In coastal waters north of the Manasquan River, algal concentrations were sparse. No toxic species were detected.

At station A24A , near Manasquan Inlet, a below bloom level mix of diatoms was observed. No toxic species were detected.

At station A54B , near Ship Bottom, a below bloom level mix of diatoms was observed. No toxic species were detected.

- **Barnegat Bay Area**

A mild bloom of mixed diatoms occurred in northern Barnegat Bay. This area also showed a significant amount of detritus. The rest of the waters in this area contained significant amounts of detritus and sparse algal concentrations. At station 1703C, in Manahawkin Bay, picoplankters were present, but in relatively low numbers. No toxic species were detected.

- **Great Bay**

The waters of the Great Bay contained a significant amount of detritus with algal concentrations sparse. No toxic species were detected.

- **Great Egg Harbor**

Algal concentrations were sparse in the waters of the Great Egg Harbor. No toxic species were detected.

### **NJDEP 200 Station Network**

As part of our Performance Partnership Agreement with NJDEP and as part of NJDEP's 200 Station Network, 20 surface water samples were collected from Sandy Hook to Barnegat, on June 18, and 20 samples were collected on June 21 from Barnegat to Delaware Bay. The samples will be analyzed by NJDEP for chlorophyll, salinity, nitrate, nitrite, ortho-phosphate, ammonia, total nitrogen, and total suspended solids. Water samples were also collected for temperature and dissolved oxygen analysis, which was completed in the field and by our Edison Laboratory, respectively.