

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

DATE:

SUBJECT: New York Bight Monitoring Program Observations, 2003

FROM: Helen Grebe, Regional Coastal Monitoring Coordinator
Monitoring Operations Section (DESA-MOS)

TO: Barbara A. Finazzo, Director
Division of Environmental Science and Assessment (DESA)

THRU: Randy Braun, Chief
Monitoring and Assessment Branch (DESA-MAB)

Attached for your information is the second update of the 2003 NY Bight Monitoring Program. This update covers the period from June 21- 27, 2003.

Attachment

cc: Jane Kenny, 2RA, via LAN
William Muszynski, 2DRA, via LAN
Patrick Durack, 2DECA, via LAN
Walter Mugdan, 2DEPP, via LAN
Bonnie Bellow, 2CD, via LAN
Herbert Barrack, 2OPM, via LAN
Eric Schaaf, 2ORC, via LAN
Paul Molinari, 2DEPP, via LAN
Deb Szaro, 2DESA, via LAN
Peter Brandt, 2CD, via LAN
Mario Del Vicario, 2DEPP, via LAN
Janice Rollwagen, 2DEPP, via LAN
Felix Locicero, 2DEPP, via LAN
Larry Gaugler, 2DECA, via LAN
Pat Carr, 2CD, via LAN
Mary Mears, 2CD, via LAN
John Bourbon, 2DESA, via LAN
Jim Ferretti, 2DESA, via LAN
Deborah Kay, 2DESA, via LAN
Irwin Katz, 2DESA, via LAN
Bob Dieterich, 2DEPP, via LAN
Douglas Pabst, 2DEPP, via LAN
Robert Nyman, 2DEPP, via LAN
Leslie McGeorge, NJDEP, via LAN
Alfred Korndoerfer, NJDEP, via EMAIL
Eric Feerst, NJDEP, via EMAIL
Robert Connell, NJDEP, via EMAIL
Virginia Loftin, NJDEP, via EMAIL
Elaine Makatura, NJDEP, via EMAIL
Carol Hoffman, NYSDEC
Robert Nuzzi, SCHD, via EMAIL
Lester Jargowsky, MCHD, via EMAIL
Ann Marie Fournier, MCHD, via EMAIL
Williams Simmons, MCHD, via EMAIL
Elizabeth Cosgrove, MCHD, via EMAIL
J. Fredrick Grassel, Rutgers via EMAIL
Dr. Robert Howarth, Cornell, via EMAIL
Robert Reid, NOAA, via EMAIL
Richard M. Warren, OCUA, via EMAIL
Richard C. Kunze, OCUA, via EMAIL

2MOS-MAB-DESA:HGrebe:hg:x6797:bldg209:finalized:6/27/03

2MOS-MAB 2MOS-MAB 2MAB-DESA

Grebe Glogower Braun

UPDATE OF NY BIGHT MONITORING PROGRAM FROM June 21 - June 27, 2003

NY Bight Sampling has been as follows:

June 21	NY/NJ Harbor Complex	Overflight
June 23	NY/NJ Harbor Complex	Overflight
	NJDEP 200 station	20 DO samples
June 24	NY/NJ Harbor Complex	Overflight
	LI Beaches	Rockaway to Shinnecock Inlet
June 25	NY/NJ Harbor Complex	Overflight
	NJ Beaches	Sandy Hook to Cape May
	Phytoplankton	NJ Coast and Back Bays
June 26	NY/NJ Harbor Complex	Overflight
June 27	Perpendiculars	NYB20's, JC14, JC27

Projected Activities for Next Week:

June 30	NY/NJ Harbor Complex	Overflight
	NJDEP 200 station network	Atlantic City to Cape May
July 1	NY/NJ Harbor Complex	Overflight
	LI Beaches	Rockaway to Shinnecock Inlet
July 2	NY/NJ Harbor Complex	Overflight
	NJ Beaches	Sandy Hook to Cape May
July 3	NY/NJ Harbor Complex	Overflight
	Perpendiculars	25 DO samples
July 4	NY/NJ Harbor Complex	Overflight

Floatables

The New York/New Jersey Harbor Complex was monitored for floatables a total of five times from June 21 - June 27, 2003.

The harbor complex was clear of significant floatables on the following days: June 21, 23, and 26. Table 1 presents the significant floatables observed on all other days.

Table 1: Significant Floatable Debris Observations from June 21 - June 27, 2003

Date	Area	Approximate Size	Contents
June 24	Gravesend Bay	300 yards by 10 feet	wood, plastic, balloons
June 25	Coney Island	30 ft x 5 ft	moderate debris, wood, plastic

All slicks were reported to Corps of Engineers. Cleanup was conducted as necessary.

Bacteria

Bacteriological samples were collected from Rockaway Point (LIC01) to Shinnecock Inlet (LIC28) on June 24 and Sandy Hook (JC01A) to Cape May (JC99) on June 25. The samples were tested for fecal coliform (FC) and enterococcus bacteria.

Tables 2 and 3 present the highest bacteria counts for the period. The highest enterococcus count, 8 enterococci/100ml, occurring on June 25 in Belmar and Spring Lake. All fecal coliform counts were well below the 200FC/100ml state standard.

Table 2: Highest Bacteria Counts, New Jersey Beaches

New Jersey Beaches - Highest Bacteria Counts per Run				
Date	Station	FC/100ml	Station	Enterococcus/100ml
6/25	Monmouth Beach	31	Belmar and Spring Lake	8

Table 3: Highest Bacteria Counts, Long Island Beaches

Long Island Beaches - Highest Bacteria Counts per Run				
Date	Station	FC/100ml	Station	Enterococcus/100ml
6/24	Rockaway Point and Long Beach	3	Great South Beach	7

Phytoplankton

Phytoplankton samples were collected along the New Jersey coast, in Raritan Bay, Sandy Hook Bay, Barnegat Bay, Great Bay, Great Egg Harbor, and in Delaware Bay, on June 25. 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:

The northernmost stations in New Jersey, excluding the Raritan Bay, are experiencing mild blooms of mixed diatoms. Skelotonema is the dominant species. All other stations contained sparse algal concentrations. No toxic species were discovered in any of the sixteen stations.

NJDEP NEPPS

As part of our Performance Partnership Agreement with NJDEP, surface water samples were collected at 20 out of 41 stations from Sandy Hook to Barnegat on June 23. The samples will be analyzed by NJDEP for chlorophyll, salinity, nitrate, nitrite, ortho-phosphate, ammonia, total nitrogen, and total suspended solids. Samples were also collected for temperature and dissolved oxygen analysis, which were completed in the field and by our Edison Laboratory, respectively. The remaining stations from Barnegat to Delaware Bay will be sampled next week. These 41 stations are part of NJDEP's 200 Station Network.