

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

DATE:

SUBJECT: New York Bight Monitoring Program Observations, 2004

FROM: Helen Grebe, Regional Coastal Monitoring Coordinator
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TO: Barbara A. Finazzo, Director
Division of Environmental Science and Assessment (DESA)

THRU: Randy Braun, Chief
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Attached for your information is the sixth update of the 2004 NY Bight Monitoring Program. This update covers the period from July 12 - July 17, 2004.

Attachment

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Walter Mugdan, 2DEPP, via LAN
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Grebe Glogower Braun

UPDATE OF NY BIGHT MONITORING PROGRAM FROM July 12 - July 17, 2004

NY Bight Sampling has been as follows:

July 12 NY/NJ Harbor Complex	Cancelled due to weather
Perpendiculars	Cancelled due to weather
July 13 NY/NJ Harbor Complex	Overflight
Long Island Beaches	Cancelled due to weather
July 14 NY/NJ Harbor Complex	Overflight
New Jersey Beaches	Sandy Hook to Island Beach State Park
July 15 NY/NJ Harbor Complex	Overflight
Wet Weather	Sandy Hook to Sea Bright
July 16 NY/NJ Harbor Complex	Overflight
Perpendiculars	JC61, 69, 75, 85, 90
July 17 NY/NJ Harbor Complex	Overflight

Projected Activities for Next Week:

July 19 NY/NJ Harbor Complex	Overflight
Perpendiculars	NYB20's, JC14, 27, 41, 53
July 20 NY/NJ Harbor Complex	Overflight
Long Island Beaches	Rockaway to Shinnecock Inlet East
July 21 NY/NJ Harbor Complex	Overflight
New Jersey Beaches	Sandy Hook to Cape May Point
July 22 NY/NJ Harbor Complex	Overflight
NJDEP nutrient network	Sandy Hook to Barnegat
July 23 NY/NJ Harbor Complex	Overflight

Floatables

The New York/New Jersey Harbor Complex was monitored for floatables five of the six days from July 12 to July 17. The Harbor was clear of significant floatables on July 13.

On July 14, two slicks were reported in the Arthur Kill. One slick was approximately 1/4 mile long by 10 yards wide and consisted of paper and plastic. The other slick was approximately 1/4 mile long and 5 yards wide and consisted of paper and plastic. In the Kill van Kull one rainbow sheen was reported and it was approximately 1/2 mile long. In the East River two slicks were reported. One slick was approximately 1/2 mile long by 10 yards wide consisting of paper and plastic. The other slick was approximately 50 yards long by 2 yards wide consisting of paper, plastic, and large wood pieces. In the Upper New York Harbor, a slick approximately 1/2 mile long by 20 yards, was reported consisting of paper and plastic. One slick was reported in the Lower New York Harbor that was 1 mile long by 10 yards wide consisting of paper, plastic, and wood.

On July 15, two slicks were reported in the Kill van Kull. One was approximately 2 miles long and 10 yards wide consisting of large wood, paper, and plastic. The other slick that was reported was a rainbow sheen that was approximately 1/2 mile long by 10 to 20 yards wide. One slick was reported in the Hudson River that was approximately 1 mile long by 10 yards wide consisting of wood, paper, and plastic. One slick was reported in the Lower New York Harbor that was approximately 1 mile long by 10 to 30 yards wide consisting of paper, wood, and plastic.

On July 16, one rainbow sheen was reported in the Newark Bay. It was approximately 1/2 mile long by 20 yards.

On July 17, one slick was observed in the Upper New York Harbor that was approximately 1/2 mile long consisting of plastic.

All slicks were reported to the Army Corps of Engineers and clean ups were conducted as necessary.

Bacteria

On July 14, samples were taken along the New Jersey coast from Sandy Hook (JC01A) to Island Beach State Park (JC57). The run was not completed due to the thunderstorms. Samples were analyzed for enterococcus bacteria. The highest enterococcus count, 41 enterococci/100ml, occurred just north of Manasquan Inlet (JC35).

Dissolved Oxygen

The Barnegat (JC61), Beach Haven (JC69), Atlantic City (JC75), Strathmere (JC85) and Hereford (JC90) perpendiculars were sampled on July 16. Table 1 presents the bottom dissolved oxygen (DO) results for the perpendiculars sampled on July 16.

The lowest DO value 6.5 mg/l, occurred 9 nautical miles off Strathmere, (JC 85). These concentrations are typical for this time of year.

Table 1

Dissolved Oxygen Concentrations of Bottom Water Samples at the Barnegat (JC61), Beach Haven (JC69), Atlantic City (JC75), Strathmere (JC85) and Hereford (JC90) perpendiculars - July 16, 2004.

Location (Nautical Mile Offshore)	Barnegat JC 61	Beach Haven JC 69	Atlantic City JC 75	Strathmer e JC 85	Hereford JC 90
1	7.2	6.9	7.9	7.0	7.8
3	6.7	8.1	7.7	7.9	7.4
5	7.6	7.9	7.7	7.8	7.6
7	9.7	7.9	7.9	8.1	7.5
9	8.2	8.0	8.9	6.5	7.7