

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 third update of the 2003 NY Bight Monitoring Program. This update covers the period from June 27- July 3, 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
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Robert Reid, NOAA, via EMAIL
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2MOS-MAB-DESA:HGrebe:hg:x6797:bldg209:finalized:7/3/03
2MOS-MAB 2MOS-MAB 2MAB-DESA

Grebe Glogower Braun
UPDATE OF NY BIGHT MONITORING PROGRAM FROM June 27- July 3, 2003

NY Bight Sampling has been as follows:

June 27	NY/NJ Harbor Complex Perpendiculars	Cancelled due to mechanical problems NYB20's, JC 14, JC27
June 27	NY/NJ Harbor Complex Perpendiculars	Overflight JC41, JC53, JC61, JC69, JC75, JC85, JC90
June 30	NY/NJ Harbor Complex	Cancelled due to mechanical problems
July 1	NY/NJ Harbor Complex LI Beaches	Overflight Rockaway to Shinnecock Inlet
July 2	NY/NJ Harbor Complex NJ Beaches	Overflight Sandy Hook to Sea Bright

Projected Activities for Next Week:

July 4	NY/NJ Harbor Complex	Overflight
July 5	NY/NJ Harbor Complex	Overflight
July 7	NY/NJ Harbor Complex Perpendiculars	Overflight NYB20's, JC14, 27, 41, 53
July 8	NY/NJ Harbor Complex LI Beaches	Overflight Rockaway to Shinnecock Inlet
July 9	NY/NJ Harbor Complex NJ Beaches	Overflight Sandy Hook to Cape May
July 10	NY/NJ Harbor Complex NJDEP 200 station	Overflight 20 DO samples, nutrients
July 11	NY/NJ Harbor Complex Perpendiculars	Overflight JC61, JC69, JC75, JC85, JC90

Floatables

The New York/New Jersey Harbor Complex was monitored for floatables a total of four times from June 28 - July 4, 2003.

The harbor complex was clear of significant floatables on all four days.

Bacteria

Bacteriological samples were collected from Rockaway (LI01) to Shinnecock Inlet (LI28) on July 1 and from Sandy Hook (JC01A) to Sea Bright (JC08) on July 2. The samples were tested for fecal coliform (FC) and enterococcus bacteria.

Along the Long Island beaches, the highest FC count, 31 FC/100ml, and the highest enterococcus count, 5 enterococci/100ml, occurred at Rockaway Point. The majority of the remaining results were zero.

Along the New Jersey coast, all FC and enterococcus counts were zero.

Dissolved Oxygen

Bottom water samples were collected for dissolved oxygen (DO) analysis at the Sandy Hook (NYB20), Long Branch (JC 14) and Belmar (JC27) perpendiculars on June 27. These results were not available for last week's report. Samples were collected on June 28 at the Bay Head (JC41), Seaside Heights (JC53), Barnegat (JC61), Beach Haven (JC69), Atlantic City (JC75), Strathmere (JC85) and Hereford Inlet (JC90) perpendiculars.

Tables 1, 2 and 3 present the bottom dissolved oxygen results for the perpendiculars sampled on June 27 and June 28. The lowest DO value, 4.5 mg/l, occurred three nautical miles off Bay Head. These values are very good for this time of year.

Table 1

Dissolved Oxygen Concentrations of Bottom Water Samples at the Sandy Hook Perpendiculars (mg/l)- June 27, 2003.

Location (Nautical Miles Offshore)	Station	DO (mg/l)
2	NYB20	7.5
4	NYB21	6.8
6	NYB22	7.4
7	NYB23	5.9
8	NYB24	6.5

Table 2

Dissolved Oxygen Concentrations of Bottom Water Samples at the Long Branch (JC14) and Belmar (JC27) perpendiculars (mg/l) - June 27, 2003.

Location (Nautical Miles Offshore)	Long Branch JC14	Belmar JC27
1	6.4	6.5
3	7.3	6.6
5	6.9	6.9
7	7.2	7.0
9	7.0	7.1

Table 3

Dissolved Oxygen Concentrations of Bottom Water Samples at the Bay Head (JC 41), Seaside Heights (JC53), Barnegat (JC61), Beach Haven (JC 69), Atlantic City (JC57), Strathmere (JC 85) and Hereford Inlet (JC90) perpendiculars (mg/l) - June 28, 2003.

Location (Nautical Miles Offshore)	Bay Head JC 41	Seaside Heights JC 53	Barnegat JC 61	Beach Haven JC 69	Atlantic City JC 57	Strathmere JC 85	Hereford Inlet JC 90
1	6.3	5.3	6.2	5.4	4.9	5.4	5.9
3	4.5	6.7	7.7	5.0	5.1	5.7	Lab accident
5	6.6	7.4	6.5	6.1	5.9	-	-
7	7.2	6.1	6.3	6.0	6.4	-	-
9	7.2	7.0	7.4	5.6	6.3	-	-

- = sample not collected