

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

DATE:

SUBJECT: New York Bight Monitoring Program Observations, 2002

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, Acting Chief
Monitoring and Assessment Branch (DESA-MAB)

Attached for your information is the seventh update of the 2002 NY Bight Monitoring Program. This update covers the period from July 6 - July 12, 2002.

Attachment

cc: Jane Kenny, 2RA, via LAN
William Muszynski, 2DRA, via LAN
Richard Caspe, DECA, via LAN
Walter Mugdam, DEPP, via LAN
Bonnie Bellow, 2CD, via LAN
Herbert Barrack, 2OPM, via LAN
Eric Schaaf, 2ORC, via LAN
Paul Molinari, 2DEPP, via LAN
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Peter Brandt, 2CD, via LAN
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Dr. Robert Howarth, Cornell, via EMAIL
Robert Reid, NOAA, via EMAIL

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Grebe Glogower Braun
UPDATE OF NY BIGHT MONITORING PROGRAM FROM July 6 - July 12, 2002

NY Bight Sampling has been as follows:

July 6	NY/NJ Harbor Complex	Overflight
July 8	NY/NJ Harbor Complex	Overflight
July 9	NY/NJ Harbor Complex	Overflight
	Long Island Beaches	Rockaway to Shinnecock Inlet
July 10	NY/NJ Harbor Complex	Overflight
	New Jersey Beaches	Sandy Hook to Cape May
July 11	NY/NJ Harbor Complex	Overflight
	Perpendiculars	Postponed due to bad weather
July 12	NY/NJ Harbor Complex	Overflight
	Perpendiculars	JC61's, JC69, JC75, JC85, JC90

Projected:

July 13	NY/NJ Harbor Complex	Overflight
July 15	NY/NJ Harbor Complex	Overflight
	Delaware River	Delaware River
	Basin Commission	
July 16	NY/NJ Harbor Complex	Overflight
	Long Island Beaches	Rockaway to Shinnecock Inlet
July 17	NY/NJ Harbor Complex	Overflight
	New Jersey Beaches	Sandy Hook to Cape May
July 18	NY/NJ Harbor Complex	Overflight
	NJDEP 200 Station Network	Sandy Hook to Delaware River
July 19	NY/NJ Harbor Complex	Overflight
	Perpendiculars	NYB20's, JC14, 27, 41, 53
July 20	NY/NJ Harbor Complex	Overflight

Floatables

The New York/New Jersey Harbor Complex was monitored for floatables a total of six times from July 6 to July 12, 2002. The Harbor Complex was clear of significant floatables on all days.

Bacteria

Bacteriological samples were collected along the Long Island coast, from Rockaway (LIC01) to Shinnecock Island (LIC28), on July 9 and along the New Jersey coast from Sandy Hook (JC01) to Cape May (JC99) on July 10. The samples were tested for fecal coliform (FC) and enterococcus bacteria.

Along the Long Island coast, the highest FC count, 4 FC/100ml, occurred at Rockaway (LIC03). The highest enterococcus count, 6 enterococci/100ml, occurred at Rockaway (LIC02). The majority of the remaining results was zero.

Along the New Jersey coast, the highest FC count, 11 FC/100ml, occurred at Cape May Inlet (JC96). The highest enterococcus count, 20 enterococcus/100ml, occurred at Brigantine (JC73). The majority of the remaining results was zero.

Ocean Beach Closures

Brown and York Avenue ocean beaches in Spring Lake, NJ were closed on Wednesday, July 10. These beaches are two newly designated rain provisional ocean beaches in Spring Lake and are required to close for 24 hours following a rainfall greater than .10 inches in a 24 hour period. Rainfall at Fort Monmouth was recorded at .12 inches, rainfall at the Howell station was recorded at .41 inches. The policy requires a 48-hour closing if rainfall exceeds 2.8 inches within a 24 hour period. Both beaches were reopened on Thursday.

Dissolved Oxygen

Bottom water samples were collected for dissolved oxygen (DO) analysis at the Sandy Hook (NYB20), Long Branch (JC14), Belmar (JC27), Bay Head (JC41) and Seaside Heights (JC53) perpendiculars on July 5. These results were not available for last week's report.

The tables below present the bottom dissolved oxygen results for the perpendiculars sampled on July 5. The lowest DO value, 4.0 mg/l, occurred one nautical mile off Belmar.

All DO concentrations are typical for this time of year.

Table 1

Dissolved Oxygen Concentrations of Bottom Water Samples at the Sandy Hook perpendiculars (mg/l) - July 5, 2002.

Location (Nautical Miles Offshore)	Station	DO (mg/l)
2	NYB 20	5.1
4	NYB 21	5.5
6	NYB 22	6.7
7	NYB 23	6.6
8	NYB 24	7.4

Table 2

Dissolved Oxygen Concentrations of Bottom Water Samples at the Long Branch (JC14), Belmar (JC27), Bay Head (JC41) and Seaside Heights (JC53) perpendiculars (mg/l) - July 5, 2002.

Location (Nautical Miles Offshore)	Long Branch JC 14	Belmar JC 27	Bay Head JC 41	Seaside Heights JC 53
1	4.8	4.0	5.4	5.4
3	5.0	4.9	5.8	5.4
5	6.2	5.1	6.6	5.5
7	6.6	7.8	6.7	5.5
9	7.1	6.4	6.1	5.9