

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  
Deborah Szarro, 2DESA, via LAN  
Peter Brandt, 2CD, via LAN  
Mario Del Vicario, 2DEPP, via LAN  
Janice Rollwagen, 2DEPP, via LAN  
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Leslie McGeorge, NJDEP, via LAN  
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Elizabeth Cosgrove, MCHD, via EMAIL  
J. Fredrick Grassel, Rutgers via EMAIL  
Dr. Robert Howarth, Cornell, via EMAIL  
Robert Reid, NOAA, via EMAIL

2MOS-MAB-DESA:HGrebe:hg:x6797:bldg209:finalized:7/12/02  
2MOS-MAB 2MOS-MAB 2MAB-DESA

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<br>(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<br>(Nautical Miles Offshore) | Long Branch<br>JC 14 | Belmar<br>JC 27 | Bay Head<br>JC 41 | Seaside<br>Heights<br>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                         |