

# UPDATE OF NY BIGHT MONITORING PROGRAM

**August 25 - 31, 2001**

## NY Bight Sampling has been as follows:

August 25	NY/NJ Harbor Complex	Overflight
August 27	NY/NJ Harbor Complex	Overflight
August 28	NY/NJ Harbor Complex	Overflight
August 29	NY/NJ Harbor Complex	Overflight
	New Jersey Beaches	Sandy Hook to Cape May
August 30	NY/NJ Harbor Complex	Overflight
	NJ Perpendiculars	JC61, JC69, JC75, JC85, JC90
August 31	NY/NJ Harbor Complex	Overflight
	NJ Perpendiculars	NYB20's, JC14, JC27, JC41, JC53

## Projected Activities for Next Week:

September 1	NY/NJ Harbor Complex	Overflight
September 3	NY/NJ Harbor Complex	Overflight
	NJ Perpendiculars	JC61, JC69, JC75, JC85, JC90
September 4	NY/NJ Harbor Complex	Overflight
	DRBC	Delaware River
September 5	NY/NJ Harbor Complex	Overflight
	NJ 200 Station Network	Sandy Hook to Barnegat
September 6	NY/NJ Harbor Complex	Overflight
	NJ 200 Station Network	Barnegat to Delaware River

## **Floatables**

The New York/New Jersey Harbor Complex was monitored for floatables a total of five times from August 25 - 31, 2001. The harbor was not monitored for floatable on August 28 due to mechanical problems with the helicopter. The Harbor Complex was clear of significant floatables on August 25, 27, 29, 30 and 31, 2001.

## **Bacteria**

Bacteriological samples were not collected along the Long Island coast this week due to mechanical problems with the helicopter. Samples were collected along the New Jersey Coast, from Sandy Hook (JC01A) to Cape May (JC97), on August 29. All samples were tested for fecal coliform (FC) and enterococcus bacteria.

Along the New Jersey, the highest FC count, 48 FC/100ml, and the highest enterococcus count, 4 enterococci/100ml, occurred just south of Manasquan Inlet (JC37).

## **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 August 24 and 31. Results from August 24 were not available for last week's report. The results from August 31 are not available for this week's report and will be reported next week.

Bottom water samples were collected for dissolved oxygen (DO) analysis at the Barnegat (JC61), Beach Haven (JC69), Atlantic City (JC75), Strathmere (JC85), and Hereford Inlet (JC90) perpendiculars, on August 30.

Tables 1 and 2 present the bottom DO results for the perpendiculars sampled on August 24. The lowest DO value, 2.3 mg/l, occurred one nautical mile off Belmar. The remaining DO values were above 3.4 mg/l.

Table 3 presents the bottom DO results for the perpendiculars sampled on August 30. The lowest DO value, 2.0 mg/l, occurred three nautical miles off Strathmere. Eighty percent of the samples were above 3.1 mg/l. These values are typical for this time of year.

**Table 1**

Dissolved Oxygen Concentrations of Bottom Water Samples at the Sandy Hook perpendiculars (mg/l) - August 24, 2001.

Location (Nautical Miles Offshore)	Station	DO (mg/l)
2	NYB 20	6.1
4	NYB 21	5.6
6	NYB 22	5.9
7	NYB 23	5.0
8	NYB 24	5.8

**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) - August 24, 2001.

Location (Nautical Miles Offshore)	Long Branch JC 14	Belmar JC 27	Bay Head JC 41	Seaside Heights JC 53
1	3.8	2.3	3.8	4.7
3	5.7	3.4	4.8	5.0
5	5.0	4.7	5.2	5.2
7	5.3	5.7	8.8	5.3
9	6.2	6.1	6.2	6.6

**Table 4**

Dissolved Oxygen Concentrations of Bottom Water Samples at the Barnegat (JC61), Beach Haven (JC69), Atlantic City (JC75), Strathmere (JC85), and Hereford Inlet (JC90) perpendiculars (mg/l) - August 30, 2001.

Location (Nautical Miles Offshore)	Barnegat JC 61	Beach Haven JC 69	Atlantic City JC 75	Strathmere JC 85	Heneford Inlet JC90
1	6.8	6.2	5.2	7.5	2.7
3	5.3	5.6	4.6	2.0	4.4
5	5.4	5.5	5.0	2.2	3.1
7	5.0	5.3	4.2	3.3	6.3
9	6.3	7.5	2.4	2.3	5.9