# Algal Conditions in New Jersey Estuarine and Coastal Waters
# Week of July 24, 2006

TO: Distribution

FROM: Bill Heddendorf, Environmental Specialist
Bureau of Marine Water Monitoring

DATE: July 27, 2006

SUBJECT: Report of Algal Conditions in New Jersey Coastal Waters
Week of July 24, 2006

Samples were collected by the USEPA helicopter and analyzed at the NJDEP Bureau of Marine Water Monitoring's Leeds Point Laboratory.

**Raritan/Sandy Hook Bay Area**

The waters of Raritan Bay and Sandy Hook Bay were generally clear with low concentrations of *Scrippsiella trochoidea*. No toxic species were detected.

**New Jersey Coastal Area**

The ocean waters from Long Branch to Manasquan are generally clear with low concentrations of *Eucanpia zodiacus*. The ocean waters from Ship Bottom to Cape May were generally clear with sparse algal concentrations. No toxic species were detected.

**Barnegat Bay Area**

The waters of Barnegat Bay from Toms River to Manahawkin had sparse algal concentrations with significant amounts of detritus. No toxic species detected in any samples from Barnegat Bay.

**Great Bay**

The waters of Great Bay are generally clear with sparse algal concentrations. No toxic species were detected.

**Great Egg Harbor**

The waters of the Great Egg Harbor had low concentrations of *Pleurosigma sp.* with significant amounts of detritus. No toxic species were detected.

**Delaware Bay/Capeshore Area**

The waters of the Delaware Bay near Dias Creek were experiencing a mild bloom of *Prorocentrum minimum* (Cell count of 780 cells/ml). No sample was collected near the mouth of the bay because of a heavy fog. No toxic species were detected.

***No samples collected in the New Jersey Coastal Waters were found to contain the Paralytic Shellfish Poisoning species *Alexandrium spp.***

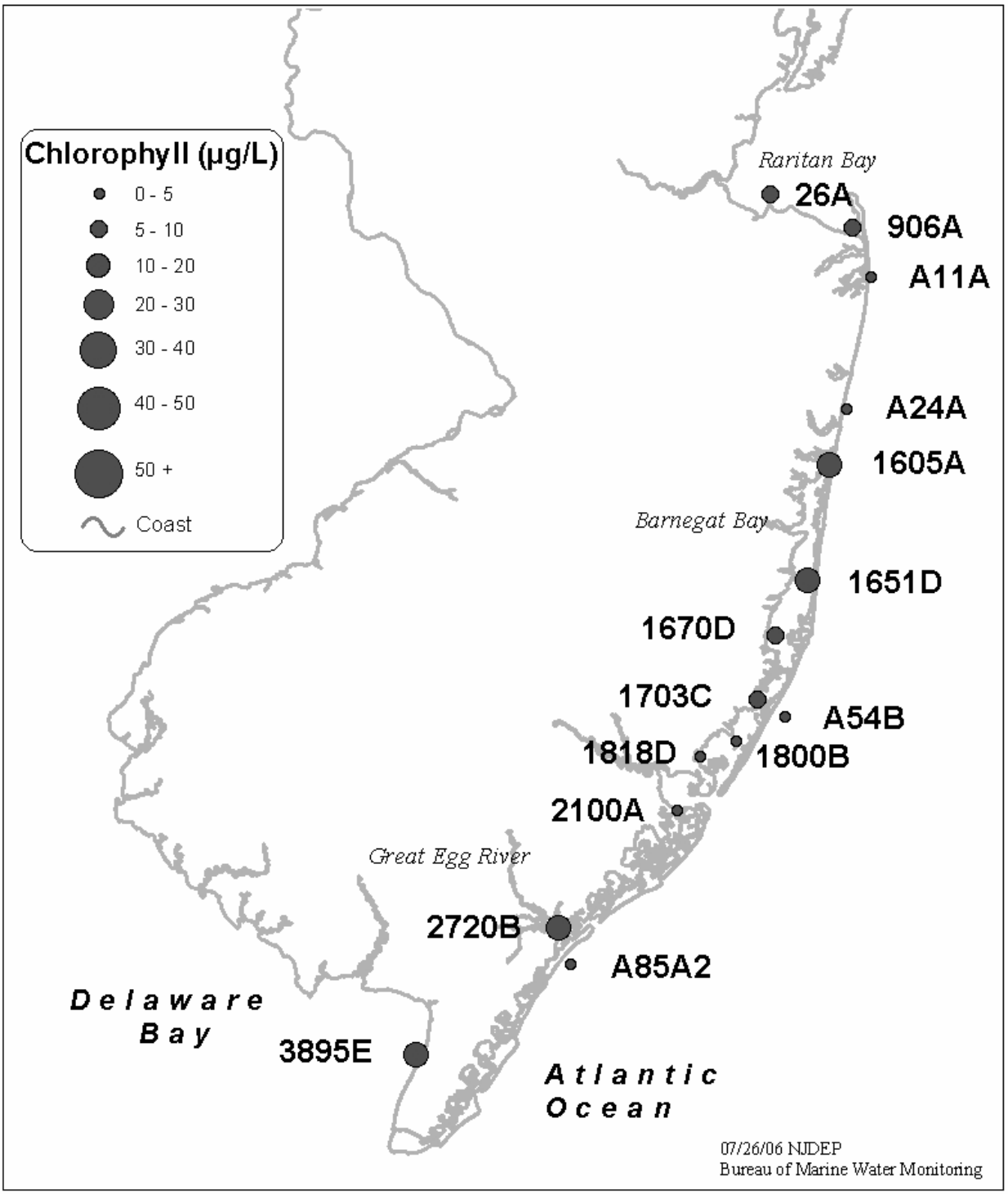
**NJDEP Leeds Point Laboratory**
**Phytoplankton Data Sheet**

**Date: 07/26/2006**

**Collector: EPA**

| Station # | Time | Water Temp. | Chlorophyll (ug/l) | Dominant Species | Toxic Species* |
|---|---|---|---|---|---|
| 26A | 0817 | 23.8 | 5.89 | *Scrippsiella trochoidea* | None present |
| 906A | 0823 | 23.8 | 7.99 | *Scrippsiella trochoidea* | None present |
| A11A | 0835 | 19.4 | 1.26 | *Eucampia zodiacus* | None present |
| A24A | 0853 | 18.8 | 2.52 | *Eucampia zodiacus* | None present |
| 1605A | 0901 | 24.7 | 10.51 | Sparse algal concentrations<br>Significant amounts of detritus | None present |
| 1651D | 0916 | 25.0 | 10.93 | Sparse algal concentrations<br>Significant amounts of detritus | None present |
| 1670D | 0925 | 24.4 | 9.25 | Sparse algal concentrations<br>Significant amounts of detritus | None present |
| 1703C | 1012 | 25.9 | 9.67 | Sparse algal concentrations<br>Significant amounts of detritus | None present |
| A54B | 1016 | 22.2 | 3.36 | Sparse algal concentrations | None present |
| 1800B | 1022 | 25.1 | 3.36 | Sparse algal concentrations | None present |
| 1818D | 1026 | 25.1 | 2.94 | Sparse algal concentrations | None present |
| 2100A | 1034 | 25.6 | 4.20 | Sparse algal concentrations | None present |
| 2720B | 1054 | 25.7 | 13.03 | Low concentrations of *Pleurosigma sp*<br>Significant amounts of detritus | None present |
| A85A2 | 1059 | 23.4 | 2.10 | Sparse algal concentrations | None present |
| 3826A | | | | No Sample | No Sample |
| 3895E | 1130 | 26.9 | 15.56 | Mild bloom of *Prorocentrum minimum*<br>(Cell count of 780 cells/ml) | None present |

- **Toxic Species = toxic species associated with shellfish safety including; *Prorocentrum* lima., *Alexandrium* spp., *Dinophysis* spp., and *Pseudonitzschia* spp.**


Chlorophyll (µg/L)
0 - 5
5 - 10
10 - 20
20 - 30
30 - 40
40 - 50
50 +
Coast
Raritan Bay
26A
906A
A11A
A24A
1605A
Barnegat Bay
1651D
1670D
1703C
A54B
1818D
1800B
2100A
Great Egg River
2720B
A85A2
Delaware Bay
3895E
Atlantic Ocean
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