

Harmful Algae Report

Delaware Inland Bays Citizen Monitor Program

All data from 6/1/03

| Water Body | Tributary | Site | Date | Name | Comment if ID uncertain | Abundance | MCL |
|------------------------|------------------|--|---------|-----------------------------------|-------------------------|-----------|------|
| Assawoman Bay | | | | | | | |
| | <u>Roy Creek</u> | | | | | | |
| | | BA01: Keenwick on Bay, Roy Creek | | | | | |
| | | | 6/ 5/03 | <i>"Gymnodinioid" sp. (S)</i> | 15-25 um Grn | Common | 0.50 |
| | | | 6/ 5/03 | <i>Gyrodinium instriatum (B)</i> | | Present | |
| | | BA02: Keenwick Sound, entrance to canal system | | | | | |
| | | | 6/ 5/03 | <i>"Gymnodinioid" sp. (S)</i> | 15-25 um Grn | Common | |
| | | | 6/ 5/03 | <i>Gyrodinium instriatum (B)</i> | | Present | |
| | | | 6/ 5/03 | <i>Unknown flagellate sp. (B)</i> | 10 - 15 um Grn | Many | |
| Assawoman Canal | | | | | | | |
| | | LA10: BB: Assawoman Canal @ Kent Ave Bridge | | | | | |
| | | | 6/ 6/03 | <i>Heterocapsa triquetra (B)</i> | | Present | |
| Indian River | | | | | | | |
| | | IR07B: Holt's landing by boat | | | | | |
| | | | 6/ 6/03 | <i>"Gymnodinioid" sp. (S)</i> | 15 um Clear | Present | |
| | | | 6/ 6/03 | <i>Dinophysis sp. (T)</i> | | Present | 0.01 |
| | | | 6/ 6/03 | <i>Heterocapsa triquetra (B)</i> | | Present | |
| | | IR11: Big Ditch Point | | | | | |
| | | | 6/ 2/03 | <i>"Gymnodinioid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | | 6/ 2/03 | <i>Prorocentrum minimum (T)</i> | | Common | 0.15 |
| | | IR20: Bay Colony | | | | | |
| | | | 6/ 2/03 | <i>Heterocapsa triquetra (B)</i> | | Present | |
| | | | 6/ 2/03 | <i>Prorocentrum minimum (T)</i> | | Present | |
| | | | 6/ 2/03 | <i>Scrippsiella sp. (B)</i> | | Present | |
| | | IR36B: James Farm, Pasture Point | | | | | |
| | | | 6/ 6/03 | <i>Heterocapsa triquetra (B)</i> | | Present | |
| | | | 6/10/03 | <i>Heterocapsa triquetra (B)</i> | | Present | |
| | | IR40B: Clam bar off South Shore Marina, South of Inlet | | | | | |
| | | | 6/ 6/03 | <i>"Gymnodinioid" sp. (S)</i> | 15 um Clear | Present | |
| | | | 6/ 6/03 | <i>Prorocentrum minimum (T)</i> | | Present | |
| | | IR5S: DNREC site, Upper Indian River | | | | | |
| | | | 6/ 3/03 | <i>"Gymnodinioid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | | 6/ 3/03 | <i>"Gymnodinioid" sp. (S)</i> | 10 um Grn | Present | |
| | | IRB5W: shellfish site, upper Indian River Bay | | | | | |
| | | | 6/ 3/03 | <i>"Gymnodinioid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | | 6/ 3/03 | <i>Heterocapsa triquetra (B)</i> | | Common | 0.35 |
| | | | 6/ 3/03 | <i>Heterosigma akashiwo. (T)</i> | | Common | 0.15 |
| | | | 6/ 3/03 | <i>Prorocentrum minimum (T)</i> | | Present | 0.07 |
| <u>Pepper Creek</u> | | | | | | | |
| | | IP2S: DNREC site, upper Pepper Creek | | | | | |
| | | | 6/ 3/03 | <i>"Gymnodinioid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | | 6/ 3/03 | <i>Heterocapsa triquetra (B)</i> | | Present | |

Name subscripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially
MCL - Million Cells per Liter. Abundance Levels: Not Found: Looked for, but no cells found; Present: < 0.1 MCL;
Common: 0.1 - 1 MCL; Many: 1 - 10 MCL; Abundant: 10 - 100 MCL; Very Abundant: > 100 MCL.

Delaware Inland Bays Citizen Monitoring Program

| Water Body | Tributary | Site | Date | Name | Comment if ID uncertain | Abundance | MCL |
|-------------------------------|------------------------|--|------|----------------------------------|-------------------------|-----------|------|
| Indian River | | | | | | | |
| | <u>Pepper Creek</u> | | | | | | |
| | | IP2S: DNREC site, upper Pepper Creek | | | | | |
| | | 6/ 3/03 | | <i>Prorocentrum minimum</i> (T) | | Common | 0.13 |
| | <u>White Creek</u> | | | | | | |
| | | IR32: Holly Terrace Acres | | | | | |
| | | 6/ 3/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15-25 um Grn | Common | 0.50 |
| | | 6/ 3/03 | | <i>Prorocentrum minimum</i> (T) | | Common | 0.46 |
| Lewes - Rehoboth Canal | | | | | | | |
| | | RB02: Lewes - Rehoboth Canal at Lewes | | | | | |
| | | 6/ 3/03 | | <i>Heterocapsa rotundata</i> (B) | | Present | |
| | | 6/ 3/03 | | <i>Prorocentrum minimum</i> (T) | | Common | 0.15 |
| | | 6/10/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15-25 um Grn | Present | 0.07 |
| | | 6/10/03 | | <i>Amphidinium sp. (T)</i> | Arrowhead | Present | |
| | | 6/10/03 | | <i>Heterocapsa rotundata</i> (B) | | Present | |
| | | 6/10/03 | | <i>Prorocentrum minimum</i> (T) | | Present | 0.07 |
| | | RB45: Lewes-Rehoboth Canal - Rehoboth | | | | | |
| | | 6/ 2/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15-20 um Grn | Present | |
| | | 6/ 2/03 | | <i>Heterocapsa rotundata</i> (B) | | Present | |
| Little Assawoman Bay | | | | | | | |
| | | LA2S: DNREC site near the intesection of Dirickson Creek; surface sample | | | | | |
| | | 6/10/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | 6/10/03 | | <i>Dinophysis sp. (T)</i> | | Present | 0.01 |
| | | LA40B: Clam bed East of buoy 4A | | | | | |
| | | 6/ 5/03 | | <i>"Gymnodinoid" sp. (S)</i> | 30 um Clr | Present | |
| | | 6/ 5/03 | | <i>"Gymnodinoid" sp. (S)</i> | 20 um Clr | Present | |
| | | 6/ 5/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | LA41B: Off Coastal Kayak beach | | | | | |
| | | 6/ 5/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | 6/ 5/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15 um Clear | Present | |
| | | 6/ 5/03 | | <i>Gyrodinium instriatum</i> (B) | | Present | |
| | | LA42B: Narrows, clam bar South of state beach at point | | | | | |
| | | 6/ 5/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15 um Clear | Present | |
| | | 6/ 5/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | 6/ 5/03 | | <i>Heterosigma akashiwo. (T)</i> | | Present | |
| | <u>Dirickson Creek</u> | | | | | | |
| | | LA03: Mulberry Landing | | | | | |
| | | 6/ 9/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | LA09: Dirickson Creek at Road 381 bridge. | | | | | |
| | | 6/ 9/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15-25 um Grn | Common | 0.25 |
| | | LA22B: Dirickson Creek upper section between Williams Creek and the LA09, mid channel near duck blind. | | | | | |
| | | 6/ 5/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15 um Clear | Present | |
| | | 6/ 5/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | LA23B: Mid channel at point just upstream from Western Swann Keys entrance | | | | | |
| | | 6/ 5/03 | | <i>"Gymnodinoid" sp. (S)</i> | 15-25 um Grn | Common | 0.14 |

Name subsripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially
MCL - Million Cells per Liter. Abundance Levels: Not Found: Looked for, but no cells found; Present: < 0.1 MCL;
Common: 0.1 - 1 MCL; Many: 1 - 10 MCL; Abundant: 10 - 100 MCL; Very Abundant: > 100 MCL.

Delaware Inland Bays Citizen Monitoring Program

| Water Body | Tributary | Site | Date | Name | Comment if ID uncertain | Abundance | MCL |
|------------|-----------|------|------|------|-------------------------|-----------|-----|
|------------|-----------|------|------|------|-------------------------|-----------|-----|

Little Assawoman Bay

Dirickson Creek

| | | | | | | | |
|--------|---|-----------------------------------|--|-----------------|--|----------|-------|
| LA23B: | Mid channel at point just upstream from Western Swann Keys entrance | | | | | | |
| | 6/ 5/03 | <i>Heterocapsa rotundata (B)</i> | | | | Present | |
| LA6S: | DNREC site downstream from bridge at road 381; surface sample | | | | | | |
| | 6/10/03 | " <i>Gymnodinoid</i> " sp. (S) | | 15-25 um Grn | | Common | 0.75 |
| | 6/10/03 | " <i>Gymnodinoid</i> " sp. (S) | | 10-15 um Lt Grn | | Common | 0.25 |
| | 6/10/03 | <i>Gyrodinium instriatum (B)</i> | | | | Present | 0.07 |
| | 6/10/03 | <i>Unknown flagellate sp. (B)</i> | | 10 - 15 um Grn | | Abundant | 20.00 |

Jefferson Creek

| | | | | | | | |
|--------|--|-----------------------------------|--|----------------|--|---------------|--------|
| JC08B: | SB, Jefferson Creek Basin between Assawoman canal extensions, access by boat only; by boat | | | | | | |
| | 6/ 5/03 | " <i>Gymnodinoid</i> " sp. (S) | | 15-25 um Grn | | Present | |
| | 6/ 5/03 | " <i>Gymnodinoid</i> " sp. (S) | | 15 um Grn | | Present | |
| | 6/ 5/03 | " <i>Gymnodinoid</i> " sp. (S) | | 20 um Clr | | Present | |
| | 6/ 5/03 | <i>Prorocentrum minimum (T)</i> | | | | Present | |
| SB10E: | SB: Russell Canal east dead end | | | | | | |
| | 6/ 6/03 | " <i>Gymnodinoid</i> " sp. (S) | | 15-25 um Grn | | Present | |
| | 6/ 6/03 | <i>Pleurochrysis carterae (B)</i> | | | | Very Abundant | 120.00 |
| SB10W: | SB: Russell Canal west dead end | | | | | | |
| | 6/ 6/03 | " <i>Gymnodinoid</i> " sp. (S) | | 15-25 um Grn | | Present | |
| | 6/ 6/03 | " <i>Gymnodinoid</i> " sp. (S) | | 10-15 um Clr | | Present | |
| | 6/ 6/03 | " <i>Gymnodinoid</i> " sp. (S) | | 15-20 um Clear | | Present | |
| | 6/ 6/03 | <i>Gyrodinium instriatum (B)</i> | | | | Present | |

Miller Creek

| | | | | | | | |
|--------|---|---------------------------------------|--|--------------|--|---------|------|
| LA33B: | Camp Barnes dock - by boat | | | | | | |
| | 6/ 5/03 | " <i>Gymnodinoid</i> " sp. (S) | | 15-25 um Grn | | Present | |
| LA34B: | Strawberry Landing - by boat at mid channel | | | | | | |
| | 6/ 5/03 | " <i>Gymnodinoid</i> " sp. (S) | | 15-25 um Grn | | Present | |
| LA5S: | DNREC site near Sassafras landing; surface sample | | | | | | |
| | 6/10/03 | " <i>Gymnodinoid</i> " sp. (S) | | 15-25 um Grn | | Present | |
| | 6/10/03 | <i>Gyrodinium instriatum (B)</i> | | | | Present | 0.07 |
| | 6/10/03 | <i>Gyrodinium uncatenum (B)</i> | | | | Present | |
| | 6/10/03 | <i>Heterosigma akashiwo. (T)</i> | | | | Present | |
| | 6/10/03 | <i>Kryptoperidium foliaceum-1 (B)</i> | | | | Present | |
| | 6/10/03 | <i>Prorocentrum minimum (T)</i> | | | | Present | |

Rehoboth Bay

| | | | | | | | |
|-------|---|----------------------------------|--|--------------|--|---------|------|
| MD: | Massey's Ditch | | | | | | |
| | 6/ 2/03 | <i>Prorocentrum minimum (T)</i> | | | | Present | |
| | 6/ 3/03 | <i>Prorocentrum minimum (T)</i> | | | | Present | |
| RB07: | West Bay Park | | | | | | |
| | 6/ 2/03 | " <i>Gymnodinoid</i> " sp. (S) | | 15 um Grn | | Present | |
| | 6/ 2/03 | <i>Heterocapsa rotundata (B)</i> | | | | Present | |
| RB50: | Delaware Seashore State Park at New Road. | | | | | | |
| | 6/13/03 | " <i>Gymnodinoid</i> " sp. (S) | | 15-25 um Grn | | Common | |
| | 6/13/03 | <i>Chaetoceros sp. (T)</i> | | | | Many | 8.40 |

Name subscripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially
MCL - Million Cells per Liter. Abundance Levels: Not Found: Looked for, but no cells found; Present: < 0.1 MCL;
Common: 0.1 - 1 MCL; Many: 1 - 10 MCL; Abundant: 10 - 100 MCL; Very Abundant: > 100 MCL.

Delaware Inland Bays Citizen Monitoring Program

| Water Body | Tributary | Site | Date | Name | Comment if ID uncertain | Abundance | MCL |
|--------------|-----------|--|---------|-----------------------------------|-------------------------|-----------|------|
| Rehoboth Bay | | RB50: Delaware Seashore State Park at New Road. | 6/13/03 | <i>Heterocapsa rotundata</i> (B) | | Present | |
| | | | 6/13/03 | <i>Prorocentrum minimum</i> (T) | | Present | |
| | | <u>Arnell Creek</u> | | | | | |
| | | AC2S: DNREC Site, Arnell Creek, surface sample | 6/ 3/03 | <i>"Gymnodinioid" sp. (S)</i> | 20 um Clr | Present | |
| | | | 6/ 3/03 | <i>"Gymnodinioid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | | 6/ 3/03 | <i>Chaetoceros sp. (T)</i> | | Present | |
| | | | 6/ 3/03 | <i>Heterosigma akashiwo. (T)</i> | | Present | 0.03 |
| | | <u>Guinea Creek</u> | | | | | |
| | | RB05: Mouth of Guinea Creek (Pot Nets Creekside) | 6/ 2/03 | <i>Prorocentrum minimum</i> (T) | | Present | |
| | | RB06: Guinea Creek (Winding Creek Village) | 6/ 2/03 | <i>"Gymnodinioid" sp. (S)</i> | 10 um Clear | Present | |
| | | | 6/ 2/03 | <i>"Gymnodinioid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | | 6/ 2/03 | <i>Heterocapsa triquetra</i> (B) | | Present | |
| | | | 6/ 2/03 | <i>Prorocentrum minimum</i> (T) | | Present | |
| | | <u>Herring Creek</u> | | | | | |
| | | RB40: Burton Prong | 6/ 2/03 | <i>Heterocapsa rotundata</i> (B) | | Present | |
| | | | 6/ 2/03 | <i>Heterocapsa triquetra</i> (B) | | Present | |
| | | <u>Love Creek</u> | | | | | |
| | | RLC1W: shellfish site, mouth of Love Creek. | 6/ 3/03 | <i>"Gymnodinioid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | | 6/ 3/03 | <i>"Gymnodinioid" sp. (S)</i> | 10 um Grn | Present | |
| | | | 6/ 3/03 | <i>Chaetoceros sp. (T)</i> | | Present | |
| | | | 6/ 3/03 | <i>Dinophysis sp. (T)</i> | | Present | 0.02 |
| | | | 6/ 3/03 | <i>Prorocentrum minimum</i> (T) | | Present | |
| | | | 6/ 6/03 | <i>"Gymnodinioid" sp. (S)</i> | 15-25 um Grn | Common | 0.22 |
| | | | 6/ 6/03 | <i>Chaetoceros sp. (T)</i> | | Present | |
| | | | 6/ 6/03 | <i>Dinophysis sp. (T)</i> | | Common | 0.14 |
| | | | 6/ 6/03 | <i>Heterocapsa rotundata</i> (B) | | Common | 0.19 |
| | | | 6/ 6/03 | <i>Heterosigma akashiwo. (T)</i> | | Present | |
| | | | 6/ 6/03 | <i>Prorocentrum minimum</i> (T) | | Common | 0.31 |
| | | | 6/10/03 | <i>Chaetoceros sp. (T)</i> | | Common | |
| | | | 6/10/03 | <i>Dinophysis sp. (T)</i> | | Common | 0.19 |
| | | | 6/10/03 | <i>Prorocentrum minimum</i> (T) | | Common | |
| | | RLC2S: DNREC site, upper Love Creek | 6/ 3/03 | <i>"Gymnodinioid" sp. (S)</i> | 15-25 um Grn | Present | |
| | | | 6/ 3/03 | <i>"Gymnodinioid" sp. (S)</i> | 20 um Grn | Present | |
| | | | 6/ 3/03 | <i>Prorocentrum minimum</i> (T) | | Common | 0.15 |
| | | | 6/ 3/03 | <i>Unknown flagellate sp. (B)</i> | 10 - 15 um Grn | Many | 2.00 |
| | | <u>Torquay Canal</u> | | | | | |
| | | RB46: Torquay Canal at bulkhead | 6/12/03 | <i>"Gymnodinioid" sp. (S)</i> | 30 um Clr | Present | |

Name subsripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially
MCL - Million Cells per Liter. Abundance Levels: Not Found: Looked for, but no cells found; Present: < 0.1 MCL;
Common: 0.1 - 1 MCL; Many: 1 - 10 MCL; Abundant: 10 - 100 MCL; Very Abundant: > 100 MCL.

Delaware Inland Bays Citizen Monitoring Program

| Water Body | Tributary | Site | Date | Name | Comment if ID uncertain | Abundance | MCL | |
|---------------------|----------------------|---------------------------------|------|---------------------------------------|-------------------------|-----------|------|--|
| Rehoboth Bay | | | | | | | | |
| | <u>Torquay Canal</u> | | | | | | | |
| | | RB46: Torquay Canal at bulkhead | | | | | | |
| | | 6/12/03 | | <i>Chaetoceros sp. (T)</i> | | Present | | |
| | | 6/12/03 | | <i>Dinophysis sp. (T)</i> | | Present | 0.02 | |
| | | 6/12/03 | | <i>Heterocapsa rotundata (B)</i> | | Present | | |
| | | 6/12/03 | | <i>Kryptoperidium foliaceum-2 (B)</i> | | Present | 0.01 | |
| | | 6/12/03 | | <i>Prorocentrum minimum (T)</i> | | Present | 0.02 | |

Name subscripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially
MCL - Million Cells per Liter. Abundance Levels: Not Found: Looked for, but no cells found; Present: < 0.1 MCL;
Common: 0.1 - 1 MCL; Many: 1 - 10 MCL; Abundant: 10 - 100 MCL; Very Abundant: > 100 MCL.

Delaware Inland Bays Citizen Monitoring Program