

Low Dissolved Oxygen

Less than 5.0 ppm

All data between 8/17/2010 and 9/8/2010

University of Delaware Citizen Monitoring Program

| Water Body | Tributary Site | Date | Time | Dissolved Oxygen | | Aquatic Vegetation | |
|------------|----------------|------|------|------------------|--------------|--------------------|-----------|
| | | | | ppm | % Saturation | On Shore? | In Water? |

Broadkill River

| | | | | | | | |
|--|--|----------|------|-----|-----|-------|-------|
| BR20: Broadkill River at Milton tidal pond | | | | | | | |
| | | 9/8/2010 | 6:30 | 4.7 | 55% | Minor | Minor |

Ingram Branch

| | | | | | | | |
|--|--|----------|-------|-----|-----|------|------|
| BR06: Ingram Ditch at the intersection of Rds 212 and 231. | | | | | | | |
| | | 9/1/2010 | 11:32 | 2.5 | 29% | None | None |

Old Mill Creek

| | | | | | | | |
|--|--|-----------|------|-----|-----|------|------|
| BR21: Old Mill Creek downstream from Red Mill Pond | | | | | | | |
| | | 8/22/2010 | 7:55 | 1.2 | 15% | None | None |
| | | 8/29/2010 | 7:50 | 2.3 | 26% | None | None |

Prime Hook Creek

| | | | | | | | |
|--|--|----------|-------|-----|--|------|------|
| BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters | | | | | | | |
| | | 9/5/2010 | 11:00 | 3.0 | | None | None |

Indian River

Assawoman Canal

| | | | | | | | |
|---|--|-----------|------|-----|-----|------|------|
| IR50: Assawoman Canal at N end, marina dock | | | | | | | |
| | | 8/31/2010 | 8:20 | 4.1 | 58% | None | None |

Bethany Loop Canal

| | | | | | | | |
|--|--|-----------|------|-----|-----|------|------|
| IR62: Loop Canal, Pa Ave terminus, Bethany Beach | | | | | | | |
| | | 8/30/2010 | 8:04 | 1.5 | 21% | None | None |

Indian River

| | | | | | | | |
|--|--|----------|------|-----|-----|------|------|
| IR12: Broken marshes, 1/4 mile SE of Quillens Point - 300 Bayfront Drive | | | | | | | |
| | | 9/5/2010 | 9:00 | 4.2 | 58% | None | None |

Pepper Creek

| | | | | | | | |
|-------------------------------|--|-----------|------|-----|-----|------|------|
| IR51: Pepper Creek, Creekside | | | | | | | |
| | | 8/17/2010 | 8:00 | 4.0 | 58% | None | None |

Salt Pond

| | | | | | | | |
|---------------------------------|--|-----------|------|-----|-----|------|------|
| IR73: Western edge of Salt Pond | | | | | | | |
| | | 8/21/2010 | 7:45 | 3.5 | 48% | None | None |
| | | 8/29/2010 | 7:30 | 3.0 | 39% | None | None |
| | | 9/4/2010 | 7:30 | 2.5 | 34% | None | None |

Vines Creek

| | | | | | | | |
|------------------|--|-----------|------|-----|-----|------|------|
| IR38: Vines Lane | | | | | | | |
| | | 8/17/2010 | 7:30 | 4.0 | 59% | None | None |
| | | 8/24/2010 | 8:00 | 4.7 | 65% | None | None |

White Creek

| | | | | | | | |
|--|--|-----------|------|-----|-----|------|------|
| IR29: Holly Terrace Acres Canal, White Creek | | | | | | | |
| | | 8/17/2010 | 7:30 | 2.5 | 38% | None | None |
| | | 8/25/2010 | 7:30 | 2.3 | 32% | None | None |
| | | 9/1/2010 | 8:00 | 1.9 | 27% | None | None |

The state instantaneous standard for Dissolved Oxygen is: the minimum shall not fall below 4.0 ppm.

Aquatic vegetation comments: "None" - none seen; "Minor" - bands up to 10 feet wide; "Major" - bands greater than 10' wide.

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| Water Body | Tributary | Site | Date | Time | Dissolved Oxygen ppm | % Saturation | Aquatic Vegetation On Shore? | In Water? |
|------------|-----------|------|------|------|-------------------------|--------------|---------------------------------|-----------|
|------------|-----------|------|------|------|-------------------------|--------------|---------------------------------|-----------|

Indian River

White Creek

| | | | | | | | | |
|---|--|--|-----------|------|-----|-----|------|------|
| IR29: Holly Terrace Acres Canal, White Creek | | | | | | | | |
| | | | 9/8/2010 | 8:30 | 1.7 | 24% | None | None |
| IR32: Holly Terrace Acres Canal Dead End, White Creek | | | | | | | | |
| | | | 8/23/2010 | 7:55 | 3.0 | 41% | None | None |
| | | | 8/30/2010 | 9:35 | 2.0 | 28% | None | None |
| | | | 8/30/2010 | 9:40 | 2.2 | 31% | None | None |
| | | | 9/7/2010 | 8:50 | 1.6 | 22% | None | None |

Little Assawoman Bay

| | | | | | | | | |
|---|--|--|-----------|------|-----|-----|-------|-------|
| LA43: Fenwick Island Lagoon | | | | | | | | |
| | | | 8/17/2010 | 8:41 | 3.8 | 56% | None | None |
| | | | 8/24/2010 | 8:00 | 4.3 | 59% | None | None |
| | | | 8/31/2010 | 8:46 | 3.7 | 53% | None | None |
| | | | 9/7/2010 | 8:42 | 4.5 | 63% | None | None |
| LA44: Fenwick Island Cove | | | | | | | | |
| | | | 8/17/2010 | 7:41 | 4.5 | 67% | None | None |
| | | | 8/31/2010 | 7:35 | 4.4 | 63% | None | None |
| | | | 9/7/2010 | 7:40 | 4.8 | 68% | None | None |
| LA45: Fenwick Island Bayside | | | | | | | | |
| | | | 8/24/2010 | 8:20 | 4.8 | 67% | None | None |
| | | | 8/31/2010 | 8:15 | 4.3 | 61% | None | None |
| LA46: Fenwick Island Tide Gauge | | | | | | | | |
| | | | 8/31/2010 | 8:55 | 4.2 | 60% | None | None |
| LA47: Fenwick Island, Dagsboro Street, South Side | | | | | | | | |
| | | | 8/31/2010 | 9:10 | 4.0 | 57% | Minor | Minor |

Assawoman Canal

| | | | | | | | | |
|---|--|--|-----------|------|-----|-----|------|------|
| LA10: Assawoman Canal @ Kent Ave Bridge | | | | | | | | |
| | | | 8/30/2010 | 7:50 | 3.5 | 48% | None | None |

Dirickson Creek

| | | | | | | | | |
|---|--|--|-----------|------|-----|-----|------|------|
| LA03: Mulberry Landing | | | | | | | | |
| | | | 8/30/2010 | 8:30 | 4.1 | 58% | None | None |
| LA19B: Mid Dirickson Creek off Swann Keys | | | | | | | | |
| | | | 8/25/2010 | 7:45 | 4.5 | 59% | None | None |

Jefferson Creek

| | | | | | | | | |
|---|--|--|-----------|------|-----|-----|------|-------|
| JC08B: SB, Jefferson Creek Basin between Assawoman canal extensions, access by boat only. | | | | | | | | |
| | | | 8/25/2010 | 7:15 | 4.8 | 64% | None | None |
| SB01: Anchorage Canal @ Rt 1 | | | | | | | | |
| | | | 8/17/2010 | 7:34 | 2.9 | 44% | None | None |
| | | | 8/24/2010 | 7:36 | 2.4 | 34% | None | None |
| | | | 8/31/2010 | 7:38 | 2.3 | 33% | None | Minor |
| | | | 9/2/2010 | 7:45 | 0.3 | 5% | None | None |
| | | | 9/7/2010 | 7:29 | 0.2 | 3% | None | None |
| SB02: Anchorage Canal near elbow | | | | | | | | |
| | | | 8/17/2010 | 7:12 | 4.6 | 70% | None | None |
| | | | 8/24/2010 | 8:00 | 3.3 | 46% | None | None |

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Aquatic vegetation comments: "None" - none seen; "Minor" - bands up to 10 feet wide; "Major" - bands greater than 10' wide.

University of Delaware Citizen Monitoring Program

| Water Body | Tributary | Site | Date | Time | Dissolved Oxygen ppm | % Saturation | Aquatic Vegetation On Shore? | In Water? |
|------------|-----------|------|------|------|-------------------------|--------------|---------------------------------|-----------|
|------------|-----------|------|------|------|-------------------------|--------------|---------------------------------|-----------|

Little Assawoman Bay

Jefferson Creek

| | | | | | | | | |
|---|--|--|-----------|------|-----|-----|------|-------|
| SB02: Anchorage Canal near elbow | | | | | | | | |
| | | | 9/2/2010 | 8:02 | 4.0 | 58% | None | None |
| | | | 9/7/2010 | 7:09 | 2.5 | 35% | None | None |
| SB04: Petherton canal/rt1 | | | | | | | | |
| | | | 8/17/2010 | 7:30 | 2.1 | 32% | None | None |
| | | | 8/24/2010 | 7:31 | 2.5 | 35% | None | None |
| | | | 8/31/2010 | 7:30 | 4.8 | 68% | None | None |
| | | | 9/2/2010 | 7:38 | 3.9 | 57% | None | None |
| | | | 9/7/2010 | 7:25 | 2.6 | 36% | None | None |
| SB05: Petherton canal, between lots 156 and 162 | | | | | | | | |
| | | | 8/17/2010 | 7:22 | 3.8 | 57% | None | None |
| | | | 8/24/2010 | 7:25 | 4.8 | 65% | None | None |
| | | | 9/2/2010 | 7:30 | 4.7 | 68% | None | None |
| | | | 9/7/2010 | 7:18 | 3.5 | 49% | None | None |
| SB07: Layton Canal, South Bethany | | | | | | | | |
| | | | 8/17/2010 | 7:48 | 4.0 | 60% | None | None |
| | | | 8/31/2010 | 7:12 | 4.3 | 61% | None | None |
| | | | 9/2/2010 | 7:19 | 3.5 | 51% | None | Minor |
| | | | 9/7/2010 | 7:42 | 3.7 | 51% | None | None |
| SB09: Carlisle canal | | | | | | | | |
| | | | 8/17/2010 | 6:56 | 2.9 | 43% | None | None |
| | | | 8/24/2010 | 7:01 | 4.8 | 63% | None | None |
| | | | 8/31/2010 | 6:54 | 3.7 | 52% | None | None |
| | | | 9/2/2010 | 7:07 | 2.8 | 40% | None | None |
| | | | 9/7/2010 | 6:52 | 1.2 | 17% | None | None |
| SB10E: Russell Canal east dead end | | | | | | | | |
| | | | 8/17/2010 | 7:50 | 1.3 | 20% | None | None |
| | | | 8/17/2010 | 8:33 | 1.0 | 15% | None | None |
| | | | 8/24/2010 | 7:48 | 2.1 | 29% | None | None |
| | | | 8/24/2010 | 8:07 | 0.4 | 6% | None | None |
| | | | 9/7/2010 | 8:08 | 1.8 | 25% | None | None |
| | | | 9/7/2010 | 8:20 | 1.7 | 24% | None | None |
| SB10W: Russell Canal west dead end | | | | | | | | |
| | | | 8/17/2010 | 8:05 | 1.3 | 20% | None | None |
| | | | 8/17/2010 | 8:27 | 0.9 | 13% | None | None |
| | | | 8/24/2010 | 8:05 | 3.3 | 46% | None | None |
| | | | 8/24/2010 | 8:22 | 0.6 | 9% | None | None |
| | | | 9/7/2010 | 8:02 | 3.1 | 44% | None | None |
| | | | 9/7/2010 | 8:10 | 3.2 | 45% | None | None |
| SB12: Jefferson Canal West side @ tidal gage | | | | | | | | |
| | | | 8/17/2010 | 8:00 | 3.6 | 54% | None | None |
| | | | 8/24/2010 | 8:16 | 4.7 | 66% | None | None |
| | | | 8/31/2010 | 8:10 | 4.0 | 56% | None | None |
| | | | 9/2/2010 | 8:22 | 3.9 | 56% | None | None |
| | | | 9/7/2010 | 7:54 | 3.7 | 51% | None | None |

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| Water Body | Tributary | Site | Date | Time | Dissolved Oxygen ppm | % Saturation | Aquatic Vegetation On Shore? | In Water? |
|---------------------|-------------------------|--|-----------|------|-------------------------|--------------|---------------------------------|-----------|
| Rehoboth Bay | | | | | | | | |
| | | RB07: West Bay Park | 8/24/2010 | 8:30 | 4.6 | 63% | None | None |
| | <u>Bald Eagle Creek</u> | | | | | | | |
| | | RB46: Torquay Canal at East bulkhead on Land's End. | 8/30/2010 | 8:29 | 2.2 | 31% | None | None |
| | | RB64: Torquay Canal, west side of Land's End near UD Site #1 | 8/23/2010 | 8:30 | 1.4 | 20% | None | None |
| | | | 8/30/2010 | 8:35 | 2.2 | 31% | None | None |
| | | | 9/7/2010 | 8:38 | 2.2 | | None | None |
| | <u>Guinea Creek</u> | | | | | | | |
| | | RB05: Mouth of Guinea Creek (Pot Nets Creekside) | 8/19/2010 | 7:50 | 3.2 | 45% | None | None |
| | | | 9/3/2010 | 8:20 | 3.5 | 50% | None | None |
| | | RB06: Guinea Creek (Winding Creek Village) | 9/6/2010 | 9:00 | 4.2 | 59% | None | None |
| | | RB06B: Guinea Creek (Winding Village) by Boat | 9/1/2010 | 7:05 | 4.6 | 67% | None | None |
| | | RB76B: Herring Creek at Rehoboth Bay | 9/1/2010 | 7:20 | 3.4 | 50% | None | None |
| | <u>Herring Creek</u> | | | | | | | |
| | | RB75B: Junction of Guinea and Herring Creeks | 9/1/2010 | 7:14 | 3.9 | 56% | None | None |

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