

# Low Dissolved Oxygen

Less than 5.0 ppm

All data between 8/13/2011 and 9/1/2011

University of Delaware Citizen Monitoring Program

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

## Assawoman Bay

### Roy Creek

BA01: Keenwick on Bay, Roy Creek

|           |      |     |     |      |       |
|-----------|------|-----|-----|------|-------|
| 8/23/2011 | 8:52 | 4.2 | 59% | None | Minor |
|-----------|------|-----|-----|------|-------|

## Broadkill River

### Old Mill Creek

BR21: Old Mill Creek downstream from Red Mill Pond

|           |       |     |     |      |      |
|-----------|-------|-----|-----|------|------|
| 8/13/2011 | 8:35  | 1.1 | 15% | None | None |
| 8/24/2011 | 12:10 | 1.9 | 24% | None | None |

### Prime Hook Creek

BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/13/2011 | 8:00 | 1.6 | 23% | None | None |
| 8/20/2011 | 8:00 | 1.5 |     | None | None |
| 8/31/2011 | 9:00 | 2.0 | 26% | None | None |

## Delaware Bay

### Canary Creek

BR19: Canary Creek at New Road

|           |       |     |    |      |      |
|-----------|-------|-----|----|------|------|
| 8/25/2011 | 15:20 | 0.6 | 9% | None | None |
|-----------|-------|-----|----|------|------|

BR40: Canary Creek at Pilottown Rd

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/24/2011 | 8:50 | 4.2 | 60% | None | None |
|-----------|------|-----|-----|------|------|

## Indian River

### Assawoman Canal

IR50: Assawoman Canal at N end, marina dock

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/23/2011 | 8:10 | 3.5 | 49% | None | None |
|-----------|------|-----|-----|------|------|

### Bethany Loop Canal

IR62: Loop Canal, Pa Ave terminus, Bethany Beach

|           |      |     |    |      |      |
|-----------|------|-----|----|------|------|
| 8/22/2011 | 7:50 | 0.5 | 7% | None | None |
|-----------|------|-----|----|------|------|

### Indian River

IR04: Warwick Cove

|           |       |     |     |      |      |
|-----------|-------|-----|-----|------|------|
| 8/15/2011 | 10:34 | 4.4 | 63% | None | None |
| 8/22/2011 | 10:10 | 4.9 | 70% | None | None |

IR07: Holt's Landing State Park

|           |      |     |     |       |      |
|-----------|------|-----|-----|-------|------|
| 8/16/2011 | 7:15 | 4.3 | 61% | Minor | None |
|-----------|------|-----|-----|-------|------|

IR20: Bay Colony

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/15/2011 | 8:05 | 2.7 | 37% | None | None |
| 8/22/2011 | 8:00 | 3.2 | 44% | None | None |
| 8/29/2011 | 8:00 | 4.2 | 52% | None | None |

IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/24/2011 | 7:50 | 4.4 | 63% | None | None |
|-----------|------|-----|-----|------|------|

IR39: North side of Inlet at Wheelchair fishing platform under new bridge.

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.

### University of Delaware Citizen Monitoring Program

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

**Indian River**

Indian River

IR39: North side of Inlet at Wheelchair fishing platform under new bridge.

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/26/2011 | 8:10 | 4.6 | 60% | None | None |
|-----------|------|-----|-----|------|------|

Salt Pond

IR73: Western edge of Salt Pond

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/14/2011 | 8:10 | 2.5 | 36% | None | None |
|-----------|------|-----|-----|------|------|

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/21/2011 | 7:45 | 2.6 | 36% | None | None |
|-----------|------|-----|-----|------|------|

Vines Creek

IR38: Vines Lane

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/16/2011 | 7:00 | 3.0 | 42% | None | None |
|-----------|------|-----|-----|------|------|

White Creek

IR29: Holly Terrace Acres Canal, White Creek

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/17/2011 | 8:30 | 4.2 | 59% | None | None |
|-----------|------|-----|-----|------|------|

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/30/2011 | 8:30 | 2.2 | 28% | None | None |
|-----------|------|-----|-----|------|------|

IR32: Holly Terrace Acres Canal Dead End, White Creek

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/15/2011 | 8:25 | 3.3 | 42% | None | None |
|-----------|------|-----|-----|------|------|

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/22/2011 | 9:10 | 3.2 | 45% | None | None |
|-----------|------|-----|-----|------|------|

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/30/2011 | 8:20 | 1.1 | 14% | None | None |
|-----------|------|-----|-----|------|------|

**Little Assawoman Bay**

LA43: Fenwick Island Lagoon

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/16/2011 | 9:05 | 4.7 | 66% | None | None |
|-----------|------|-----|-----|------|------|

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/23/2011 | 8:46 | 4.5 | 62% | None | None |
|-----------|------|-----|-----|------|------|

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/30/2011 | 8:23 | 4.2 | 54% | None | None |
|-----------|------|-----|-----|------|------|

LA44: Fenwick Island Cove

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/16/2011 | 7:40 | 4.8 | 66% | None | None |
|-----------|------|-----|-----|------|------|

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/23/2011 | 7:45 | 3.6 | 49% | None | None |
|-----------|------|-----|-----|------|------|

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/30/2011 | 7:40 | 4.4 | 58% | None | None |
|-----------|------|-----|-----|------|------|

LA45: Fenwick Island Bayside

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/16/2011 | 8:25 | 4.3 | 60% | None | None |
|-----------|------|-----|-----|------|------|

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/23/2011 | 8:15 | 3.0 | 42% | None | None |
|-----------|------|-----|-----|------|------|

LA47: Fenwick Island, Dagsboro Street, South Side

|           |      |     |     |      |       |
|-----------|------|-----|-----|------|-------|
| 8/23/2011 | 9:23 | 3.3 | 47% | None | Minor |
|-----------|------|-----|-----|------|-------|

LA48: Fenwick Island, W. Georgetown St.

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/29/2011 | 8:47 | 3.0 | 46% | None | None |
|-----------|------|-----|-----|------|------|

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/30/2011 | 7:45 | 4.7 | 61% | None | None |
|-----------|------|-----|-----|------|------|

Assawoman Canal

LA10: Assawoman Canal @ Kent Ave Bridge

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/22/2011 | 7:30 | 1.6 | 22% | None | None |
|-----------|------|-----|-----|------|------|

Dirickson Creek

LA03: Mulberry Landing

|           |      |     |     |       |       |
|-----------|------|-----|-----|-------|-------|
| 8/22/2011 | 8:10 | 3.6 | 51% | Minor | Major |
|-----------|------|-----|-----|-------|-------|

LA09: Dirickson Creek at Road 381 bridge.

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/23/2011 | 8:10 | 4.4 | 57% | None | None |
|-----------|------|-----|-----|------|------|

Jefferson Creek

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.

**University of Delaware Citizen Monitoring Program**

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

**Little Assawoman Bay**

Jefferson Creek

|   |  |  |           |      |     |     |      |      |
|---|--|--|-----------|------|-----|-----|------|------|
| SB01: Anchorage Canal @ Rt 1                    |  |  |           |      |     |     |      |      |
|   |  |  | 8/16/2011 | 7:40 | 1.9 | 25% | None | None |
|   |  |  | 8/23/2011 | 7:29 | 0.1 | 1%  | None | None |
|   |  |  | 8/30/2011 | 7:31 | 2.7 | 35% | None | None |
| SB02: Anchorage Canal near elbow                |  |  |           |      |     |     |      |      |
|   |  |  | 8/16/2011 | 7:47 | 3.2 | 43% | None | None |
|   |  |  | 8/23/2011 | 7:06 | 4.8 | 67% | None | None |
|   |  |  | 8/30/2011 | 7:09 | 2.5 | 32% | None | None |
| SB04: Petherton canal/rt1                       |  |  |           |      |     |     |      |      |
|   |  |  | 8/16/2011 | 7:35 | 2.4 | 29% | None | None |
|   |  |  | 8/23/2011 | 7:24 | 2.2 | 31% | None | None |
|   |  |  | 8/30/2011 | 7:26 | 3.7 | 46% | None | None |
| SB05: Petherton canal, between lots 156 and 162 |  |  |           |      |     |     |      |      |
|   |  |  | 8/16/2011 | 7:21 | 4.8 | 61% | None | None |
|   |  |  | 8/23/2011 | 7:16 | 4.6 | 64% | None | None |
|   |  |  | 8/30/2011 | 7:19 | 3.5 | 44% | None | None |
| SB07: Layton Canal, South Bethany               |  |  |           |      |     |     |      |      |
|   |  |  | 8/16/2011 | 7:12 | 3.2 | 41% | None | None |
|   |  |  | 8/30/2011 | 7:46 | 3.7 | 47% | None | None |
| SB09: Carlisle canal                            |  |  |           |      |     |     |      |      |
|   |  |  | 8/16/2011 | 7:04 | 3.0 | 37% | None | None |
|   |  |  | 8/23/2011 | 6:50 | 3.6 | 51% | None | None |
|   |  |  | 8/30/2011 | 6:48 | 4.0 | 50% | None | None |
| SB10E: Russell Canal east dead end              |  |  |           |      |     |     |      |      |
|   |  |  | 8/16/2011 | 7:51 | 4.0 | 50% | None | None |
|   |  |  | 8/23/2011 | 7:56 | 2.3 | 32% | None | None |
|   |  |  | 8/30/2011 | 7:55 | 4.4 | 56% | None | None |
| SB10W: Russell Canal west dead end              |  |  |           |      |     |     |      |      |
|   |  |  | 8/16/2011 | 8:08 | 4.3 | 56% | None | None |
|   |  |  | 8/23/2011 | 8:15 | 4.2 | 59% | None | None |
|   |  |  | 8/30/2011 | 8:15 | 4.1 | 51% | None | None |
| SB12: Jefferson Canal West side @ tidal gage    |  |  |           |      |     |     |      |      |
|   |  |  | 8/16/2011 | 8:02 | 3.1 | 40% | None | None |
|   |  |  | 8/23/2011 | 8:01 | 4.5 | 62% | None | None |
|   |  |  | 8/30/2011 | 8:05 | 2.7 | 33% | None | None |

**Rehoboth Bay**

|                     |  |  |           |      |     |     |      |      |
|---------------------|--|--|-----------|------|-----|-----|------|------|
| RB07: West Bay Park |  |  |           |      |     |     |      |      |
|                     |  |  | 8/16/2011 | 8:30 | 4.6 | 65% | None | None |
|                     |  |  | 8/23/2011 | 8:30 | 4.4 | 62% | None | None |

Bald Eagle Creek

|  |  |  |           |      |     |     |      |      |
|--|--|--|-----------|------|-----|-----|------|------|
| RB64: Torquay Canal, west side of Land's End near UD Site #1 |  |  |           |      |     |     |      |      |
|  |  |  | 8/15/2011 | 8:00 | 2.5 | 34% | None | None |
|  |  |  | 8/30/2011 | 9:15 | 2.2 | 29% | None | None |

Guinea Creek

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.

**University of Delaware Citizen Monitoring Program**

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

**Rehoboth Bay**

Guinea Creek

RB06: Guinea Creek (Winding Creek Village)

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/15/2011 | 8:30 | 4.7 | 61% | None | None |
|-----------|------|-----|-----|------|------|

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/22/2011 | 7:50 | 0.9 | 14% | None | None |
|-----------|------|-----|-----|------|------|

RB06A: Guinea Creek @ Rd 298 Bridge

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/22/2011 | 8:05 | 2.3 | 27% | None | None |
|-----------|------|-----|-----|------|------|

RB10: Guinea Creek above golf course

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/22/2011 | 8:17 | 3.0 | 35% | None | None |
|-----------|------|-----|-----|------|------|

Love Creek

RB34: Love Creek at Rt 24 Bridge

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/22/2011 | 8:37 | 3.2 | 42% | None | None |
|-----------|------|-----|-----|------|------|

RB63: Upper Love Creek near Webb Landing

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/16/2011 | 8:15 | 4.7 | 56% | None | None |
|-----------|------|-----|-----|------|------|

|           |      |     |     |      |      |
|-----------|------|-----|-----|------|------|
| 8/30/2011 | 5:35 | 4.0 | 45% | 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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