

# Harmful Algae Report

All data between 5/2/2011 and 5/26/2011

University of Delaware Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Assawoman Bay</b>							
<u>Roy Creek</u>							
BA01: Keenwick on Bay, Roy Creek							
	5/3/2011	8:48	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/3/2011	8:48	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/24/2011	8:20	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/24/2011	8:20	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.110
<b>Broadkill River</b>							
BR01: Broadkill river @ PEL dock.							
	5/5/2011	9:00	Net	<i>Dinophysis acuminata</i> (T)			
	5/5/2011	9:00	Net	<i>Heterocapsa triquetra</i> (B)			
	5/5/2011	9:00	Net	<i>Prorocentrum micans</i> (B)			
	5/5/2011	9:00	Net	<i>Rhizosolenia</i> spp. (T)			
	5/5/2011	9:00	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/5/2011	9:00	Surfc	<i>Rhizosolenia</i> spp. (T)		Present	0.050
	5/11/2011	9:00	Net	<i>Dinophysis acuminata</i> (T)			
	5/11/2011	9:00	Net	<i>Heterocapsa rotundata</i> (B)			
	5/11/2011	9:00	Net	<i>Heterocapsa triquetra</i> (B)			
	5/11/2011	9:00	Net	<i>Karlodinium veneficum</i> (T)			
	5/11/2011	9:00	Net	<i>Prorocentrum micans</i> (B)			
	5/11/2011	9:00	Net	<i>Prorocentrum minimum</i> (T)			
	5/11/2011	9:00	Net	<i>Rhizosolenia</i> spp. (T)			
	5/11/2011	9:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/11/2011	9:00	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/11/2011	9:00	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/18/2011	8:30	Net	<i>Ceratium pentagonum</i> (B)			
	5/18/2011	8:30	Net	<i>Dinophysis norvegica</i> (T)			
	5/18/2011	8:30	Net	<i>Heterocapsa triquetra</i> (B)			
	5/18/2011	8:30	Net	<i>Karlodinium veneficum</i> (T)			
	5/18/2011	8:30	Net	<i>Prorocentrum micans</i> (B)			
	5/18/2011	8:30	Net	<i>Prorocentrum minimum</i> (T)			
	5/18/2011	8:30	Net	<i>Prorocentrum scutellum</i> (B)			
	5/18/2011	8:30	Net	<i>Rhizosolenia</i> spp. (T)			
	5/18/2011	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/18/2011	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/18/2011	8:30	Surfc	<i>Rhizosolenia</i> spp. (T)		Present	
	5/25/2011	9:00	Net	<i>Chaetoceros</i> spp. (T)			
	5/25/2011	9:00	Net	<i>Ditylum</i> spp. (T)			
	5/25/2011	9:00	Net	<i>Heterocapsa rotundata</i> (B)			

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<b>Broadkill River</b>							
BR01: Broadkill river @ PEL dock.							
	5/25/2011	9:00	Net	<i>Heterocapsa triquetra</i> (B)			
	5/25/2011	9:00	Net	<i>Karlodinium veneficum</i> (T)			
	5/25/2011	9:00	Net	<i>Prorocentrum micans</i> (B)			
	5/25/2011	9:00	Net	<i>Prorocentrum minimum</i> (T)			
	5/25/2011	9:00	Net	<i>Prorocentrum triestinum</i> (B)			
	5/25/2011	9:00	Surfc	<i>Chaetoceros</i> spp. (T)		Present	
	5/25/2011	9:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.220
	5/25/2011	9:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/25/2011	9:00	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
BR20: Broadkill River at Milton tidal pond							
	5/4/2011	9:15	Surfc		No HABS found		
	5/25/2011	10:45	Surfc		No HABS found		
<b>Old Mill Creek</b>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	5/4/2011	12:25	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	5/25/2011	13:05	Surfc	<i>Microcystis</i> spp. (T)		Common	0.250
<b>Prime Hook Creek</b>							
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	5/4/2011	11:50	Surfc		No HABS found		
	5/25/2011	12:35	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.150
	5/25/2011	12:35	Surfc	<i>Heterosigma akashiwo</i> (T)		Abundant	56.540
	5/25/2011	12:35	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/25/2011	12:35	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
<b>Red Mill Pond</b>							
BR56: Red Mill Pond - Sycamore Drive							
	5/25/2011	11:15	Surfc	(Unknown) (B*)	Unknown	Abundant	30.800
	5/25/2011	11:15	Surfc	<i>Aphanizomenon</i> spp. (T)		Common	0.750
	5/25/2011	11:15	Surfc	<i>Microcystis</i> spp. (T)		Many	1.250
<b>Wagamon's Pond</b>							
BR44: Wagamon's Pond, Milton							
	5/5/2011	11:00	Surfc		No HABS found		
	5/25/2011	9:30	Surfc	<i>Lyngbya</i> (T)		Present	
<b>Delaware Bay</b>							
DB01: End of Cape Shores pier							
	5/6/2011	8:06	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/6/2011	8:06	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	5/6/2011	8:06	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/6/2011	8:06	Surfc	<i>Rhizosolenia</i> spp. (T)		Present	0.012
	5/10/2011	8:35	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/10/2011	8:35	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/10/2011	8:35	Surfc	<i>Prorocentrum micans</i> (B)		Present	

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<b>Delaware Bay</b>							
DB01: End of Cape Shores pier							
	5/19/2011	9:37	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.130
	5/19/2011	9:37	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/19/2011	9:37	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/19/2011	9:37	Surfc	<i>Prorocentrum micans</i> (B)		Present	
	5/19/2011	9:37	Surfc	<i>Prorocentrum scutellum</i> (B)		Present	
	5/26/2011	7:51	Surfc	<i>Chaetoceros</i> spp. (T)		Present	
	5/26/2011	7:51	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.110
	5/26/2011	7:51	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	5/26/2011	7:51	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.120
	5/26/2011	7:51	Surfc	<i>Prorocentrum triestinum</i> (B)		Present	
<b>Canary Creek</b>							
BR19: Canary Creek at New Road							
	5/26/2011	10:17	Surfc		No HABs found		
BR40: Canary Creek at Pilottown Rd							
	5/5/2011	9:30	Surfc		No HABs found		
	5/5/2011	9:30	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
<b>Dirickson Creek</b>							
<b>Dirickson Pond</b>							
LA38: Hamlet at Dirickson Pond							
	5/26/2011	8:57	Surfc		No HABs found		
<b>Indian River</b>							
<b>Assawoman Canal</b>							
IR50: Assawoman Canal at N end, marina dock							
	5/3/2011	8:00	Surfc		No HABs found		
	5/24/2011	7:50	Surfc	<i>Chaetoceros</i> spp. (T)		Present	
	5/24/2011	7:50	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<b>Bethany Loop Canal</b>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	5/2/2011	8:04	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	5/2/2011	8:04	Surfc	<i>Heterosigma akashiwo</i> (T)		Many	1.060
	5/2/2011	8:04	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/23/2011	7:55	Surfc	<i>Dinophysis acuminata</i> (T)		Present	0.012
	5/23/2011	7:55	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	5/23/2011	7:55	Surfc	<i>Heterosigma akashiwo</i> (T)		Many	6.800
	5/23/2011	7:55	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.280
	5/23/2011	7:55	Surfc	<i>Prorocentrum minimum</i> (T)		Many	4.600
<b>Indian River</b>							
IR04: Warwick Cove							
	5/2/2011	10:07	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	5/2/2011	10:07	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/2/2011	10:07	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	

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<b>Indian River</b>							
<u>Indian River</u>							
IR04: Warwick Cove							
	5/2/2011	10:07	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	5/23/2011	10:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/23/2011	10:00	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
IR07: Holt's Landing State Park							
	5/3/2011	7:25	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	5/24/2011	8:05	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.110
IR11: Pot Nets Seaside Pier							
	5/2/2011	11:38	Surfc		No HABs found		
	5/23/2011	10:55	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
IR20: Bay Colony							
	5/9/2011	7:50	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	
	5/9/2011	7:50	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	5/24/2011	7:55	Surfc		No HABs found		
IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore							
	5/3/2011	8:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/3/2011	8:35	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	5/17/2011	7:50	Surfc	<i>Ceratium pentagonum (B)</i>		Rare	0.002
	5/17/2011	7:50	Surfc	<i>Dinophysis acuminata (T)</i>		Very Rare	
	5/17/2011	7:50	Surfc	<i>Dinophysis norvegica (T)</i>		Very Rare	
	5/17/2011	7:50	Surfc	<i>Prorocentrum micans (B)</i>		Rare	0.007
	5/17/2011	7:50	Surfc	<i>Prorocentrum triestinum (B)</i>		Very Rare	
	5/17/2011	7:50	Surfc	<i>Rhizosolenia spp. (T)</i>		Present	0.012
<u>Vines Creek</u>							
IR38: Vines Lane							
	5/3/2011	7:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/3/2011	7:20	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	5/24/2011	7:45	Surfc		No HABs found		
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	5/2/2011	10:00	Surfc	<i>Dinophysis acuminata (T)</i>		Present	0.012
	5/2/2011	10:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/2/2011	10:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/9/2011	8:30	Surfc	<i>Dinophysis acuminata (T)</i>		Present	0.050
	5/9/2011	8:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/9/2011	8:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/16/2011	8:20	Surfc	<i>Dinophysis acuminata (T)</i>		Present	0.050
	5/16/2011	8:20	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	
	5/16/2011	8:20	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/23/2011	9:00	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	

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<b>Indian River</b>							
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	5/23/2011	9:00	Surfc	<i>Dinophysis acuminata</i> (T)		Common	0.310
	5/23/2011	9:00	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/23/2011	9:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/23/2011	9:00	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/23/2011	9:00	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
<b>Little Assawoman Bay</b>							
LA45: Fenwick Island Bayside							
	5/2/2011	7:58	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/2/2011	7:58	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/24/2011	8:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/24/2011	8:05	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Assawoman Canal</u>							
LA10: Assawoman Canal @ Kent Ave Bridge							
	5/2/2011	7:39	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/2/2011	7:39	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/23/2011	7:30	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/23/2011	7:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/23/2011	7:30	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	5/2/2011	8:15	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.910
	5/2/2011	8:15	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.760
	5/23/2011	8:05	Surfc	<i>Dinophysis acuminata</i> (T)		Present	0.012
	5/23/2011	8:05	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.320
LA09: Dirickson Creek at Road 381 bridge.							
	5/3/2011	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/23/2011	8:35	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	5/23/2011	8:35	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.860
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	5/3/2011	8:00	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.390
	5/10/2011	7:50	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.590
	5/17/2011	7:48	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.460
	5/17/2011	7:48	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/24/2011	7:59	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.140
SB10W: Russell Canal west dead end							
	5/3/2011	8:20	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.390
	5/10/2011	8:04	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.150
	5/17/2011	8:03	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/24/2011	8:17	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.160

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<b>Rehoboth Bay</b>							
ML: Massey's Landing	5/2/2011	11:50	Surfc		No HABs found		
	5/23/2011	11:15	Surfc	<i>Prorocentrum micans (B)</i>		Present	
RB07: West Bay Park	5/3/2011	8:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/3/2011	8:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/24/2011	8:30	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<b>Bald Eagle Creek</b>							
RB64: Torquay Canal, west side of Land's End near UD Site #1	5/2/2011	8:31	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.230
	5/2/2011	8:31	Surfc	<i>Heterosigma akashiwo (T)</i>		Abundant	15.200
	5/9/2011	8:15	Surfc	<i>Amphidinium spp. (T)</i>		Present	
	5/9/2011	8:15	Surfc	<i>Dinophysis acuminata (T)</i>		Present	0.087
	5/9/2011	8:15	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	5/9/2011	8:15	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	5/9/2011	8:15	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.330
	5/16/2011	8:55	Surfc	<i>Dinophysis acuminata (T)</i>		Common	0.110
	5/16/2011	8:55	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	5/16/2011	8:55	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/16/2011	8:55	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/16/2011	8:55	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	5/16/2011	8:55	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.100
	5/23/2011	8:23	Surfc	<i>Dinophysis acuminata (T)</i>		Common	0.300
	5/23/2011	8:23	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	
	5/23/2011	8:23	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/23/2011	8:23	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.120
<b>Guinea Creek</b>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)	5/2/2011	12:05	Surfc		No HABs found		
	5/23/2011	11:35	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.210
RB06: Guinea Creek (Winding Creek Village)	5/2/2011	7:50	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/23/2011	12:10	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.760
<b>Love Creek</b>							
RB34: Love Creek at Rt 24 Bridge	5/2/2011	8:51	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/23/2011	8:42	Surfc		No HABs found		

Name subsripts: (B) - nontoxic bloom former; (B\*) - nontoxic bloom former reported only at levels > 10 MC/L; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell. MC/L - Million Cells per Liter.

Abundance Levels: Not Found: Looked for, but no cells found; Very Rare: < 0.001 MC/L; Rare 0.001 - 0.01 MC/L; Present: 0.01 - 0.1 MC/L; Common: 0.1 - 1 MC/L; Many: 1 - 10 MC/L; Abundant: 10 - 100 MC/L; Very Abundant: > 100 MC/L.

**University of Delaware Citizen Monitoring Program**