

# Harmful Algae Report

University of Delaware Citizen Monitoring Program

All data between 9/18/2013 and 11/5/2013

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
RWPM83: Cape Henlopen Pier							
	9/24/2013	12:18	Surfc	<i>Ditylum spp. (T)</i>		Very Rare	
	9/24/2013	12:18	Surfc	<i>Karenia papilionacea (T)</i>		Rare	0.002
	9/24/2013	12:18	Surfc	<i>Prorocentrum scutellum (B)</i>		Very Rare	
	9/24/2013	12:18	Surfc	<i>Prorocentrum triestinum (B)</i>		Rare	0.004
	9/24/2013	12:18	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Rare	0.001
	9/24/2013	12:18	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
	9/24/2013	12:18	Surfc	<i>Scrippsiella sp. (B)</i>		Very Rare	
<b>Broadkill River</b>							
BR01: Broadkill river @ PEL dock.							
	9/18/2013	8:50	Net	<i>Karlodinium veneficum (T)</i>			
	9/18/2013	8:50	Net	<i>Prorocentrum scutellum (B)</i>			
	9/18/2013	8:50	Net	<i>Pseudo-nitzschia spp. (T)</i>			
	9/18/2013	8:50	Net	<i>Rhizosolenia spp. (T)</i>			
	9/18/2013	8:50	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	9/25/2013	8:50	Net	<i>Chaetoceros spp. (T)</i>			
	9/25/2013	8:50	Net	<i>Heterocapsa rotundata (B)</i>			
	9/25/2013	8:50	Net	<i>Rhizosolenia spp. (T)</i>			
	9/25/2013	8:50	Net	<i>Scrippsiella sp. (B)</i>			
	9/25/2013	8:50	Surfc		No HABs found		
	10/3/2013	8:45	Net	<i>Chaetoceros spp. (T)</i>			
	10/3/2013	8:45	Net	<i>Karlodinium veneficum (T)</i>			
	10/3/2013	8:45	Net	<i>Prorocentrum scutellum (B)</i>			
	10/3/2013	8:45	Net	<i>Prorocentrum triestinum (B)</i>			
	10/3/2013	8:45	Net	<i>Pseudo-nitzschia spp. (T)</i>			
	10/3/2013	8:45	Net	<i>Rhizosolenia spp. (T)</i>			
	10/3/2013	8:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	10/3/2013	8:45	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	10/3/2013	8:45	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	10/3/2013	8:45	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
	10/3/2013	8:45	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Common	0.100
	10/16/2013	8:45	Net	<i>Chaetoceros spp. (T)</i>			
	10/16/2013	8:45	Net	<i>Ditylum spp. (T)</i>			
	10/16/2013	8:45	Net	<i>Heterocapsa rotundata (B)</i>			
	10/16/2013	8:45	Net	<i>Prorocentrum scutellum (B)</i>			
	10/16/2013	8:45	Net	<i>Prorocentrum triestinum (B)</i>			
	10/16/2013	8:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	10/16/2013	8:45	Surfc	<i>Karenia papilionacea (T)</i>		Very Rare	

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.

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<b>Broadkill River</b>							
BR01: Broadkill river @ PEL dock.							
	10/16/2013	8:45	Surfc	<i>Karodinium veneficum (T)</i>		Very Rare	
	10/16/2013	8:45	Surfc	<i>Prorocentrum scutellum (B)</i>		Very Rare	
	10/16/2013	8:45	Surfc	<i>Prorocentrum triestinum (B)</i>		Very Rare	
	10/16/2013	8:45	Surfc	<i>Scrippsiella sp. (B)</i>		Very Rare	
BR20: Broadkill River at Milton tidal pond							
	10/16/2013	7:30	Surfc		No HABs found		
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	10/16/2013	12:25	Surfc	<i>Microcystis spp. (T)</i>		Many	2.125
<u>Wagamon's Pond</u>							
BR44: Wagamon's Pond, Milton							
	9/30/2013	12:30	Surfc	<i>Lyngbya (T)</i>		Present	
	10/16/2013	10:00	Surfc	<i>Lyngbya (T)</i>		Present	
<b>Delaware Bay</b>							
DB01: End of Cape Shores pier							
	9/18/2013	8:41	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/18/2013	8:41	Surfc	<i>Karodinium veneficum (T)</i>		Present	
	10/15/2013	8:31	Surfc	<i>Ditylum spp. (T)</i>		Rare	0.005
	10/15/2013	8:31	Surfc	<i>Heterocapsa rotundata (B)</i>		Very Rare	
	10/15/2013	8:31	Surfc	<i>Karenia papilionacea (T)</i>		Present	
	10/15/2013	8:31	Surfc	<i>Prorocentrum scutellum (B)</i>		Rare	0.001
	10/15/2013	8:31	Surfc	<i>Prorocentrum triestinum (B)</i>		Rare	0.001
	10/15/2013	8:31	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
<u>Canary Creek</u>							
BR40: Canary Creek at Pilottown Rd							
	10/1/2013	10:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	10/1/2013	10:20	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
	10/15/2013	9:43	Surfc		No HABs found		
<b>Indian River</b>							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, Ocean View Marina							
	10/7/2013	7:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	10/7/2013	7:30	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	10/7/2013	7:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	10/7/2013	7:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	10/7/2013	7:30	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	10/7/2013	7:30	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
<u>Indian River</u>							
IR04: Warwick Cove							

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<b>Indian River</b>							
<u>Indian River</u>							
IR04: Warwick Cove	10/14/2013	10:07	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
IR11: Pot Nets Seaside Pier	10/14/2013	10:57	Surfc	<i>Karenia papilionacea (T)</i>		Rare	0.002
	10/14/2013	10:57	Surfc	<i>Prorocentrum scutellum (B)</i>		Very Rare	
	10/14/2013	10:57	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Rare	0.004
IR20: Bay Colony	10/14/2013	8:00	Surfc	<i>Karenia papilionacea (T)</i>		Rare	0.004
	10/14/2013	8:00	Surfc	<i>Prorocentrum scutellum (B)</i>		Very Rare	
	10/14/2013	8:00	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
	10/14/2013	8:00	Surfc	<i>Scrippsiella sp. (B)</i>		Very Rare	
IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore	10/14/2013	8:01	Surfc		No HABs found		
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.	9/18/2013	7:45	Surfc	<i>Chaetoceros spp. (T)</i>		Present	0.020
	9/18/2013	7:45	Surfc	<i>Ditylum spp. (T)</i>		Rare	0.002
	9/18/2013	7:45	Surfc	<i>Fibrocapsa japonica (T)</i>		Rare	0.001
	9/18/2013	7:45	Surfc	<i>Karenia papilionacea (T)</i>		Very Rare	
	9/18/2013	7:45	Surfc	<i>Prorocentrum scutellum (B)</i>		Very Rare	
	9/18/2013	7:45	Surfc	<i>Prorocentrum triestinum (B)</i>		Rare	0.001
	9/18/2013	7:45	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Present	0.027
	9/18/2013	7:45	Surfc	<i>Rhizosolenia spp. (T)</i>		Rare	0.002
	10/2/2013	7:35	Surfc	<i>Ceratium spp. (T)</i>		Very Rare	
	10/2/2013	7:35	Surfc	<i>Chaetoceros spp. (T)</i>		Rare	0.001
	10/2/2013	7:35	Surfc	<i>Chattonella subsalsa (T)</i>		Rare	0.001
	10/2/2013	7:35	Surfc	<i>Ditylum spp. (T)</i>		Very Rare	
	10/2/2013	7:35	Surfc	<i>Karenia papilionacea (T)</i>		Present	0.022
	10/2/2013	7:35	Surfc	<i>Prorocentrum scutellum (B)</i>		Rare	0.002
	10/2/2013	7:35	Surfc	<i>Prorocentrum triestinum (B)</i>		Rare	0.001
	10/2/2013	7:35	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Rare	0.002
	10/2/2013	7:35	Surfc	<i>Rhizosolenia spp. (T)</i>		Rare	0.003
	10/2/2013	7:35	Surfc	<i>Scrippsiella sp. (B)</i>		Very Rare	
	10/17/2013	8:51	Surfc	<i>Ceratium pentagonum (B)</i>		Very Rare	
	10/17/2013	8:51	Surfc	<i>Chaetoceros spp. (T)</i>		Rare	0.004
	10/17/2013	8:51	Surfc	<i>Ditylum spp. (T)</i>		Very Rare	
	10/17/2013	8:51	Surfc	<i>Karenia papilionacea (T)</i>		Rare	0.005
	10/17/2013	8:51	Surfc	<i>Prorocentrum scutellum (B)</i>		Very Rare	
	10/17/2013	8:51	Surfc	<i>Prorocentrum triestinum (B)</i>		Very Rare	
	10/17/2013	8:51	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Rare	0.001
	10/17/2013	8:51	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
	11/5/2013	9:05	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.225
	11/5/2013	9:05	Surfc	<i>Ditylum spp. (T)</i>		Very Rare	

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<b>Indian River</b>							
<u>Indian River</u>							
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	11/5/2013	9:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Rare	0.001
	11/5/2013	9:05	Surfc	<i>Karenia papilionacea</i> (T)		Rare	0.001
	11/5/2013	9:05	Surfc	<i>Pseudo-nitzschia</i> spp. (T)		Rare	0.002
	11/5/2013	9:05	Surfc	<i>Rhizosolenia</i> spp. (T)		Rare	0.002
<u>Vines Creek</u>							
IR38: Vines Lane							
	10/8/2013	8:05	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	9/23/2013	8:28	Surfc	<i>"Gymnodinoid" sp.</i> (S)	25-40 um Grn	Common	0.588
	9/23/2013	8:28	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.112
	9/23/2013	8:28	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/23/2013	8:28	Surfc	<i>Heterosigma akashiwo</i> (T)		Common	0.225
	9/23/2013	8:28	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/23/2013	8:28	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	0.675
	9/23/2013	8:28	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	9/23/2013	8:28	Surfc	<i>Prorocentrum triestinum</i> (B)		Common	0.300
	9/23/2013	8:28	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Common	0.213
	9/23/2013	8:28	Surfc	<i>Scrippsiella</i> sp. (B)		Common	0.213
	9/30/2013	8:35	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/30/2013	8:35	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/30/2013	8:35	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/30/2013	8:35	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/30/2013	8:35	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	9/30/2013	8:35	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	9/30/2013	8:35	Surfc	<i>Prorocentrum triestinum</i> (B)		Present	
	9/30/2013	8:35	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	10/14/2013	9:00	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
<b>Little Assawoman Bay</b>							
LA45: Fenwick Island Bayside							
	10/15/2013	9:37	Surfc		No HABs found		
<u>Assawoman Canal</u>							
LA10: Assawoman Canal S end, Kent Ave Bridge							
	10/8/2013	7:20	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	10/8/2013	7:20	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	10/15/2013	8:55	Surfc		No HABs found		
LA09: Dirickson Creek at Road 381 bridge.							
	10/14/2013	8:20	Surfc		No HABs found		

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<b>Little Assawoman Bay</b>							
<u>Jefferson Creek</u>							
SB09: Carlisle canal							
	9/19/2013	16:15	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/19/2013	16:15	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	9/19/2013	16:15	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/19/2013	16:15	Surfc	<i>Oscillatoria spp.</i> (B)		Present	
SB10E: Russell Canal east dead end							
	9/20/2013	8:30	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/20/2013	8:30	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	9/20/2013	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/24/2013	8:02	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	
	9/24/2013	8:02	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/24/2013	8:02	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	9/24/2013	8:02	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	10/1/2013	8:01	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.388
	10/1/2013	8:01	Surfc	<i>Heterosigma akashiwo</i> (T)		Common	0.150
	10/1/2013	8:01	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.150
	10/1/2013	8:01	Surfc	<i>Prorocentrum triestinum</i> (B)		Present	
	10/15/2013	7:51	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	10/15/2013	7:51	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	10/15/2013	7:51	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	10/15/2013	7:51	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
SB10W: Russell Canal west dead end							
	9/24/2013	8:18	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	9/24/2013	8:18	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	10/1/2013	8:16	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.200
	10/1/2013	8:16	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	10/1/2013	8:16	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	10/1/2013	8:16	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	10/1/2013	8:16	Surfc	<i>Prorocentrum triestinum</i> (B)		Present	
	10/15/2013	8:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	10/15/2013	8:05	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.125
	10/15/2013	8:05	Surfc	<i>Oscillatoria spp.</i> (B)		Many	2.000

### Rehoboth Bay

RB07: West Bay Park

10/8/2013 8:50 Surfc *Karlodinium veneficum* (T) Present

### Bald Eagle Creek

RB64: Torquay Canal, west side of Land's End near UD Site #1

9/23/2013 9:00 Surfc *Chattonella cf. verruculosa* (T) Common 0.638  
9/23/2013 9:00 Surfc *Chattonella subsalsa* (T) Present  
9/23/2013 9:00 Surfc *Heterocapsa rotundata* (B) Present  
9/23/2013 9:00 Surfc *Heterosigma akashiwo* (T) Present  
9/23/2013 9:00 Surfc *Karlodinium veneficum* (T) Present

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<b>Rehoboth Bay</b>							
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	9/23/2013	9:00	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.163
	9/23/2013	9:00	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
	9/23/2013	9:00	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	9/23/2013	9:00	Surfc	<i>Scrippsiella sp. (B)</i>		Common	0.225
	9/30/2013	8:00	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	
	9/30/2013	8:00	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.410
	9/30/2013	8:00	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	9/30/2013	8:00	Surfc	<i>Heterosigma akashiwo (T)</i>		Common	0.420
	9/30/2013	8:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	9/30/2013	8:00	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	9/30/2013	8:00	Surfc	<i>Prorocentrum triestinum (B)</i>		Common	0.800
	9/30/2013	8:00	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	10/7/2013	8:35	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.390
	10/7/2013	8:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	10/7/2013	8:35	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	10/7/2013	8:35	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	10/14/2013	11:20	Surfc		No HABs found		
RB06: Guinea Creek (Winding Creek Village)							
	10/14/2013	8:58	Surfc		No HABs found		
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	10/30/2013	7:40	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	10/8/2013	9:10	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	10/8/2013	9:10	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.230
	10/8/2013	9:10	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	

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**