

# Harmful Algae Report

All data between 8/15/2012 and 9/5/2012

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							
	8/21/2012	8:46	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	
	8/21/2012	8:46	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/21/2012	8:46	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/21/2012	8:46	Surfc	<i>Karodinium veneficum</i> (T)		Present	
<b>Atlantic Ocean</b>							
RWPM14: Tower Rd Ocean, Delaware Seashore State Park							
	8/23/2012	8:45	Surfc	<i>Akashiwo sanguinea</i> (T)		Very Rare	
	8/23/2012	8:45	Surfc	<i>Chaetoceros</i> spp. (T)		Present	0.062
	8/23/2012	8:45	Surfc	<i>Karenia papilionacea</i> (T)		Very Rare	
	8/23/2012	8:45	Surfc	<i>Polykrikos</i> sp. (B)		Very Rare	
	8/23/2012	8:45	Surfc	<i>Prorocentrum scutellum</i> (B)		Very Rare	
	8/23/2012	8:45	Surfc	<i>Prorocentrum triestinum</i> (B)		Rare	0.001
	8/23/2012	8:45	Surfc	<i>Pseudo-nitzschia</i> spp. (T)		Present	0.011
	8/23/2012	8:45	Surfc	<i>Rhizosolenia</i> spp. (T)		Rare	0.005
	8/23/2012	8:45	Surfc	<i>Scrippsiella</i> sp. (B)		Rare	0.002
RWPM8: Cape Henlopen State Park Beach (2)							
	8/16/2012	8:30	Surfc	<i>Chaetoceros</i> spp. (T)		Present	0.050
	8/16/2012	8:30	Surfc	<i>Cochlodinium</i> sp. (T)		Very Rare	
	8/16/2012	8:30	Surfc	<i>Ebria tripartita</i> (B)		Rare	0.001
	8/16/2012	8:30	Surfc	<i>Polykrikos</i> sp. (B)		Very Rare	
	8/16/2012	8:30	Surfc	<i>Prorocentrum scutellum</i> (B)		Rare	0.002
	8/16/2012	8:30	Surfc	<i>Prorocentrum triestinum</i> (B)		Rare	0.001
	8/16/2012	8:30	Surfc	<i>Pseudo-nitzschia</i> spp. (T)		Rare	0.005
	8/16/2012	8:30	Surfc	<i>Rhizosolenia</i> spp. (T)		Present	0.014
	8/16/2012	8:30	Surfc	<i>Scrippsiella</i> sp. (B)		Very Rare	
	8/30/2012	10:40	Surfc	<i>Ceratium fusus</i> (B)		Very Rare	
	8/30/2012	10:40	Surfc	<i>Chaetoceros</i> spp. (T)		Present	0.018
	8/30/2012	10:40	Surfc	<i>Fibrocapsa japonica</i> (T)		Rare	0.001
	8/30/2012	10:40	Surfc	<i>Prorocentrum scutellum</i> (B)		Very Rare	
	8/30/2012	10:40	Surfc	<i>Prorocentrum</i> sp. (T)		Very Rare	
	8/30/2012	10:40	Surfc	<i>Prorocentrum triestinum</i> (B)		Very Rare	
	8/30/2012	10:40	Surfc	<i>Pseudo-nitzschia</i> spp. (T)		Rare	0.003
	8/30/2012	10:40	Surfc	<i>Rhizosolenia</i> spp. (T)		Very Rare	
RWPMVIII: Town of Fenwick							
	8/23/2012	7:55	Surfc	<i>Akashiwo sanguinea</i> (T)		Very Rare	
	8/23/2012	7:55	Surfc	<i>Chaetoceros</i> spp. (T)		Rare	0.008

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

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Atlantic Ocean</b>							
RWPMVIII: Town of Fenwick							
	8/23/2012	7:55	Surfc	<i>Cochlodinium sp. (T)</i>		Very Rare	
	8/23/2012	7:55	Surfc	<i>Ebria tripartita (B)</i>		Very Rare	
	8/23/2012	7:55	Surfc	<i>Karenia papilionacea (T)</i>		Very Rare	
	8/23/2012	7:55	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Rare	0.001
	8/23/2012	7:55	Surfc	<i>Polykrikos sp. (B)</i>		Rare	0.001
	8/23/2012	7:55	Surfc	<i>Prorocentrum scutellum (B)</i>		Rare	0.004
	8/23/2012	7:55	Surfc	<i>Prorocentrum triestinum (B)</i>		Rare	0.001
	8/23/2012	7:55	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Rare	0.005
	8/23/2012	7:55	Surfc	<i>Rhizosolenia spp. (T)</i>		Rare	0.002
	8/23/2012	7:55	Surfc	<i>Scrippsiella sp. (B)</i>		Rare	0.001

**Broadkill River**

BR01: Broadkill river @ PEL dock.

	8/15/2012	8:55	Net	<i>Chaetoceros spp. (T)</i>			
	8/15/2012	8:55	Net	<i>Ebria tripartita (B)</i>			
	8/15/2012	8:55	Net	<i>Karlodinium veneficum (T)</i>			
	8/15/2012	8:55	Net	<i>Polykrikos sp. (B)</i>			
	8/15/2012	8:55	Net	<i>Prorocentrum scutellum (B)</i>			
	8/15/2012	8:55	Net	<i>Prorocentrum triestinum (B)</i>			
	8/15/2012	8:55	Net	<i>Pseudo-nitzschia spp. (T)</i>			
	8/15/2012	8:55	Net	<i>Rhizosolenia spp. (T)</i>			
	8/15/2012	8:55	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.460
	8/15/2012	8:55	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/15/2012	8:55	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	
	8/15/2012	8:55	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	8/15/2012	8:55	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	8/22/2012	8:50	Net	<i>Anabaena spp. (T)</i>			
	8/22/2012	8:50	Net	<i>Ebria tripartita (B)</i>			
	8/22/2012	8:50	Net	<i>Gyrodinium instriatum (B)</i>			
	8/22/2012	8:50	Net	<i>Karlodinium veneficum (T)</i>			
	8/22/2012	8:50	Net	<i>Kryptoperidinium foliaceum (B)</i>			
	8/22/2012	8:50	Net	<i>Prorocentrum triestinum (B)</i>			
	8/22/2012	8:50	Net	<i>Pseudo-nitzschia spp. (T)</i>			
	8/22/2012	8:50	Net	<i>Rhizosolenia spp. (T)</i>			
	8/22/2012	8:50	Net	<i>Scrippsiella sp. (B)</i>			
	8/22/2012	8:50	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
	8/29/2012	8:55	Net	<i>Anabaena spp. (T)</i>			
	8/29/2012	8:55	Net	<i>Chaetoceros spp. (T)</i>			
	8/29/2012	8:55	Net	<i>Ebria tripartita (B)</i>			
	8/29/2012	8:55	Net	<i>Gyrodinium lachryma (B)</i>			
	8/29/2012	8:55	Net	<i>Prorocentrum scutellum (B)</i>			
	8/29/2012	8:55	Net	<i>Pseudo-nitzschia spp. (T)</i>			
	8/29/2012	8:55	Net	<i>Rhizosolenia spp. (T)</i>			

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**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Broadkill River</b>							
BR01: Broadkill river @ PEL dock.							
	8/29/2012	8:55	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
BR20: Broadkill River at Milton tidal pond							
	8/22/2012	7:15	Surfc	<i>Microcystis spp. (T)</i>		Many	5.600
<u>Diamond Pond</u>							
BR48: Diamond Pond							
	8/22/2012	11:14	Surfc	<i>Aphanizomenon spp. (T)</i>		Many	3.800
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	8/22/2012	12:48	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
<u>Prime Hook Creek</u>							
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	8/22/2012	12:13	Surfc	<i>Anabaena spp. (T)</i>		Very Abundant	1218.000
	8/22/2012	12:13	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.110
	8/22/2012	12:13	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	8.100
	8/22/2012	12:13	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/22/2012	12:13	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	8/22/2012	12:13	Surfc	<i>Microcystis spp. (T)</i>		Abundant	88.000
	8/22/2012	12:13	Surfc	<i>Protoperdinium quinquecorne (B)</i>		Present	
<u>Wagamon's Pond</u>							
BR44: Wagamon's Pond, Milton							
	8/22/2012	10:15	Surfc	<i>Lyngbya (T)</i>		Present	
<b>Delaware Bay</b>							
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	8/22/2012	10:22	Surfc	<i>Heterosigma akashiwo (T)</i>		Common	0.190
BR40: Canary Creek at Pilottown Rd							
	8/22/2012	8:15	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/22/2012	8:15	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
<b>Indian River</b>							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, Ocean View Marina							
	8/21/2012	7:40	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/21/2012	7:40	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/21/2012	7:40	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	8/21/2012	7:40	Surfc	<i>Protoperdinium quinquecorne (B)</i>		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	8/20/2012	7:40	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.640
	8/20/2012	7:40	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/20/2012	7:40	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	8/20/2012	7:40	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.210

Name subscripts: (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**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Indian River</b>							
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	8/20/2012	7:40	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.120
<u>Indian River</u>							
IR04: Warwick Cove							
	8/20/2012	10:14	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.120
	8/20/2012	10:14	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
IR07: Holt's Landing State Park							
	8/21/2012	8:00	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/21/2012	8:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/21/2012	8:00	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
IR11: Pot Nets Seaside Pier							
	8/20/2012	11:39	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
	8/20/2012	11:39	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
IR20: Bay Colony							
	8/20/2012	7:55	Surfc		No HABs found		
IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore							
	8/21/2012	9:25	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	8/16/2012	8:35	Surfc	<i>Chaetoceros spp. (T)</i>		Present	0.063
	8/16/2012	8:35	Surfc	<i>Cochlodinium sp. (T)</i>		Rare	0.004
	8/16/2012	8:35	Surfc	<i>Dinophysis acuminata (T)</i>		Very Rare	
	8/16/2012	8:35	Surfc	<i>Ebria tripartita (B)</i>		Very Rare	
	8/16/2012	8:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Rare	0.001
	8/16/2012	8:35	Surfc	<i>Karenia papilionacea (T)</i>		Very Rare	
	8/16/2012	8:35	Surfc	<i>Polykrikos sp. (B)</i>		Rare	0.003
	8/16/2012	8:35	Surfc	<i>Prorocentrum scutellum (B)</i>		Rare	0.002
	8/16/2012	8:35	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	0.014
	8/16/2012	8:35	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Rare	0.007
	8/16/2012	8:35	Surfc	<i>Rhizosolenia spp. (T)</i>		Present	0.012
	8/16/2012	8:35	Surfc	<i>Scrippsiella sp. (B)</i>		Rare	0.002
	8/30/2012	8:05	Surfc	<i>Akashiwo sanguinea (T)</i>		Rare	0.001
	8/30/2012	8:05	Surfc	<i>Chaetoceros spp. (T)</i>		Present	0.037
	8/30/2012	8:05	Surfc	<i>Ebria tripartita (B)</i>		Very Rare	
	8/30/2012	8:05	Surfc	<i>Fibrocapsa japonica (T)</i>		Rare	0.001
	8/30/2012	8:05	Surfc	<i>Polykrikos sp. (B)</i>		Very Rare	
	8/30/2012	8:05	Surfc	<i>Prorocentrum scutellum (B)</i>		Rare	0.002
	8/30/2012	8:05	Surfc	<i>Prorocentrum triestinum (B)</i>		Very Rare	
	8/30/2012	8:05	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
	8/30/2012	8:05	Surfc	<i>Scrippsiella sp. (B)</i>		Rare	0.001

Vines Creek

IR38: Vines Lane

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**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Indian River</b>							
<u>Vines Creek</u>							
IR38: Vines Lane							
	8/21/2012	7:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.610
	8/21/2012	7:30	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	8/21/2012	7:30	Surfc	<i>Microcystis</i> spp. (T)		Common	0.610
	9/5/2012	7:50	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/5/2012	7:50	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.180
	9/5/2012	7:50	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	8/20/2012	9:22	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.150
	8/20/2012	9:22	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	8/20/2012	9:22	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/20/2012	9:22	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	8/20/2012	9:22	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/20/2012	9:22	Surfc	<i>Prorocentrum triestinum</i> (B)		Present	
	8/20/2012	9:22	Surfc	<i>Protooperidinium quinquecorne</i> (B)		Present	
	8/27/2012	8:32	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.110
	8/27/2012	8:32	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	8/27/2012	8:32	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	0.110
	8/27/2012	8:32	Surfc	<i>Prorocentrum triestinum</i> (B)		Present	
	8/27/2012	8:32	Surfc	<i>Protooperidinium quinquecorne</i> (B)		Present	
	9/4/2012	8:16	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/4/2012	8:16	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.300
	9/4/2012	8:16	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/4/2012	8:16	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/4/2012	8:16	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	9/4/2012	8:16	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	0.100
<b>Little Assawoman Bay</b>							
LA45: Fenwick Island Bayside							
	8/21/2012	7:36	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/21/2012	7:36	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Assawoman Canal</u>							
LA10: Assawoman Canal S end, Kent Ave Bridge							
	8/20/2012	7:15	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	8/20/2012	7:15	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	8/20/2012	8:05	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	8/20/2012	8:05	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	8/20/2012	8:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/20/2012	8:05	Surfc	<i>Karlodinium veneficum</i> (T)		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**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Little Assawoman Bay</b>							
<u>Dirickson Creek</u>							
LA09: Dirickson Creek at Road 381 bridge.							
	8/20/2012	8:46	Surfc	<i>Chattonella subsalsa</i> (T)		Many	6.200
	8/20/2012	8:46	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/20/2012	8:46	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/20/2012	8:46	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/20/2012	8:46	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/20/2012	8:46	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	8/21/2012	8:07	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.180
	8/21/2012	8:07	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.150
	8/28/2012	8:05	Surfc	<i>Anabaena spp.</i> (T)		Many	6.200
	8/28/2012	8:05	Surfc	<i>Aphanizomenon spp.</i> (T)		Common	0.120
	8/28/2012	8:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.120
	8/28/2012	8:05	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/4/2012	7:48	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.120
	9/4/2012	7:48	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/4/2012	7:48	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.180
	9/4/2012	7:48	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
SB10W: Russell Canal west dead end							
	8/21/2012	8:25	Surfc	<i>Chattonella subsalsa</i> (T)		Many	1.060
	8/21/2012	8:25	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/28/2012	8:20	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/28/2012	8:20	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	8/28/2012	8:20	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	9/4/2012	8:08	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
<u>Williams Creek</u>							
LA21: Williams Creek tributary, bridge on Rd 364a							
	8/20/2012	8:32	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.200
	8/20/2012	8:32	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.140
	8/20/2012	8:32	Surfc	<i>Heterosigma akashiwo</i> (T)		Many	6.160
	8/20/2012	8:32	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/20/2012	8:32	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	0.680
	8/20/2012	8:32	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	8/20/2012	8:32	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Common	0.300
<b>Rehoboth Bay</b>							
ML: Massey's Landing							
	8/20/2012	11:24	Surfc	<i>Rhizosolenia spp.</i> (T)		Present	
RB07: West Bay Park							
	8/21/2012	8:00	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	8/21/2012	8:00	Surfc	<i>Heterocapsa rotundata</i> (B)		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**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Rehoboth Bay</b>							
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	8/20/2012	8:20	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/20/2012	8:20	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.300
	8/20/2012	8:20	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	8/20/2012	8:20	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/20/2012	8:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.380
	8/20/2012	8:20	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	8/27/2012	7:40	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/27/2012	7:40	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.480
	8/27/2012	7:40	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	8/27/2012	7:40	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.110
	8/27/2012	7:40	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	9/4/2012	7:40	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/4/2012	7:40	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.460
	9/4/2012	7:40	Surfc	<i>Fibrocapsa japonica (T)</i>		Common	0.110
	9/4/2012	7:40	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.150
	9/4/2012	7:40	Surfc	<i>Heterosigma akashiwo (T)</i>		Common	0.100
	9/4/2012	7:40	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	8/20/2012	12:03	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/20/2012	12:03	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
RB06: Guinea Creek (Winding Creek Village)							
	8/20/2012	8:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.210
	8/20/2012	8:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	8/22/2012	8:50	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/22/2012	8:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/22/2012	8:50	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	8/22/2012	8:50	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	8/22/2012	8:50	Surfc	<i>Microcystis spp. (T)</i>		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	8/20/2012	8:35	Surfc	<i>(Unknown) sp. (B*)</i>	5-15 um grn trdrp flag	Abundant	11.000
	8/20/2012	8:35	Surfc	<i>Heterocapsa rotundata (B)</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**