

Harmful Algae Report

All data between 8/8/2008 and 8/21/2008

University of Delaware Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Assawoman Bay							
<u>Roy Creek</u>							
BA01: Keenwick on Bay, Roy Creek							
	8/12/2008	9:02	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	8/12/2008	9:02	Surfc	<i>Karodinium veneficum</i> (T)		Present	
Atlantic Ocean							
RWPM14: Tower Rd Ocean, Delaware Seashore State Park							
	8/21/2008	13:30	Surfc	<i>Prorocentrum micans</i> (B)		Rare	0.001
RWPM8: Cape Henlopen State Park Beach (2)							
	8/14/2008	9:35	Surfc	<i>Ceratium spp.</i> (T)		Very Rare	
	8/14/2008	9:35	Surfc	<i>Chaetoceros spp.</i> (T)		Very Rare	
	8/14/2008	9:35	Surfc	<i>Dinophysis norvegica</i> (T)		Very Rare	
	8/14/2008	9:35	Surfc	<i>Prorocentrum gracile</i> (B)		Very Rare	
	8/14/2008	9:35	Surfc	<i>Prorocentrum micans</i> (B)		Very Rare	
	8/14/2008	9:35	Surfc	<i>Rhizosolenia spp.</i> (T)		Rare	0.002
	8/18/2008	9:12	Surfc	<i>Ceratium spp.</i> (T)		Very Rare	
	8/18/2008	9:12	Surfc	<i>Chaetoceros spp.</i> (T)		Very Rare	
	8/18/2008	9:12	Surfc	<i>Dinophysis norvegica</i> (T)		Very Rare	
	8/18/2008	9:12	Surfc	<i>Karenia papilionacea</i> (T)		Very Rare	
	8/18/2008	9:12	Surfc	<i>Prorocentrum gracile</i> (B)		Very Rare	
	8/18/2008	9:12	Surfc	<i>Prorocentrum minimum</i> (T)		Very Rare	
	8/18/2008	9:12	Surfc	<i>Pseudo-nitzschia spp.</i> (T)		Rare	0.001
	8/18/2008	9:12	Surfc	<i>Rhizosolenia spp.</i> (T)		Very Rare	
RWPMIV: Fenwick Island State Park							
	8/21/2008	11:18	Surfc	<i>Heterocapsa rotundata</i> (B)		Rare	0.001
	8/21/2008	11:18	Surfc	<i>Prorocentrum gracile</i> (B)		Rare	0.001
	8/21/2008	11:18	Surfc	<i>Pseudo-nitzschia spp.</i> (T)		Rare	0.006
	8/21/2008	11:18	Surfc	<i>Rhizosolenia spp.</i> (T)		Rare	0.001
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	8/13/2008	9:26	Net	<i>Ceratium spp.</i> (T)			
	8/13/2008	9:26	Net	<i>Chaetoceros spp.</i> (T)			
	8/13/2008	9:26	Net	<i>Dinophysis norvegica</i> (T)			
	8/13/2008	9:26	Net	<i>Prorocentrum gracile</i> (B)			
	8/13/2008	9:26	Net	<i>Prorocentrum micans</i> (B)			
	8/13/2008	9:26	Net	<i>Prorocentrum minimum</i> (T)			
	8/13/2008	9:26	Net	<i>Prorocentrum sp.</i> (T)			
	8/13/2008	9:26	Net	<i>Pseudo-nitzschia spp.</i> (T)			
	8/13/2008	9:26	Net	<i>Rhizosolenia spp.</i> (T)			
	8/13/2008	9:26	Surfc	<i>Prorocentrum gracile</i> (B)		Present	

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.

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Broadkill River							
BR01: Broadkill river @ PEL dock.							
	8/13/2008	9:26	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	8/13/2008	9:26	Surfc	<i>Pseudo-nitzschia</i> spp. (T)		Present	
	8/13/2008	9:26	Surfc	<i>Rhizosolenia</i> spp. (T)		Present	
	8/20/2008	9:00	Net	<i>Chaetoceros</i> spp. (T)			
	8/20/2008	9:00	Net	<i>Heterocapsa rotundata</i> (B)			
	8/20/2008	9:00	Surfc	<i>Chaetoceros</i> spp. (T)		Present	0.022
BR20: Broadkill River at Milton tidal pond							
	8/13/2008	9:15	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	8/13/2008	12:20	Surfc	<i>Anabaena</i> spp. (T)		Common	0.188
	8/13/2008	12:20	Surfc	<i>Cylindrospermopsis</i> (T)		Abundant	11.800
	8/13/2008	12:20	Surfc	<i>Heterosigma akashiwo</i> (T)		Abundant	26.800
	8/13/2008	12:20	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/13/2008	12:20	Surfc	<i>Microcystis</i> spp. (T)		Common	0.188
	8/13/2008	12:20	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
<u>Prime Hook Creek</u>							
BR02: Prime Hook NWR Petersfield Ditch water control structure, 50m N of Rt 16.							
	8/13/2008	11:35	Surfc	<i>Gonyostomum depressa</i> (B)		Present	
	8/13/2008	11:35	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	8/13/2008	11:35	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	0.275
	8/13/2008	11:35	Surfc	<i>Oscillatoria</i> spp. (B)		Common	0.188
	8/13/2008	11:35	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	8/13/2008	11:52	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	8/13/2008	11:52	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/13/2008	11:52	Surfc	<i>Oscillatoria</i> spp. (B)		Common	0.562
Delaware Bay							
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	8/13/2008	9:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
BR40: Canary Creek at Pilottown Rd							
	8/13/2008	9:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/13/2008	9:30	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	8/13/2008	9:30	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
Indian River							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, marina dock							
	8/11/2008	9:08	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	8/11/2008	9:08	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/11/2008	9:08	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/11/2008	9:08	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	

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Indian River							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, marina dock							
	8/11/2008	9:08	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	8/11/2008	8:38	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/11/2008	8:38	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	8/19/2008	8:36	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.138
	8/19/2008	8:36	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
IR64: Bethany Beach canal off dead end at 3rd street East of Evans Rd.							
	8/11/2008	8:46	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/19/2008	8:45	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/19/2008	8:45	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/19/2008	8:45	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.200
	8/19/2008	8:45	Surfc	<i>Fibrocapsa japonica (T)</i>		Common	0.188
	8/19/2008	8:45	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	2.140
	8/19/2008	8:45	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	8/19/2008	8:45	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	8/19/2008	8:45	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
<u>Indian River</u>							
IR04: Warwick Cove							
	8/11/2008	10:00	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/11/2008	10:00	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
IR07: Holt's Landing State Park							
	8/12/2008	9:03	Surfc	<i>Amphidinium spp. (T)</i>		Present	
	8/12/2008	9:03	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/12/2008	9:03	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/12/2008	9:03	Surfc	<i>Prorocentrum gracile (B)</i>		Present	
IR11: Pot Nets Seaside Pier							
	8/11/2008	8:00	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.150
IR20: Bay Colony							
	8/11/2008	8:15	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR21: Entrance to Boat House Pond, Indian River Bay							
	8/11/2008	7:25	Surfc		No HABs found		
IR36B: James Farm, Pasture Point							
	8/12/2008	7:57	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/12/2008	7:57	Surfc	<i>Prorocentrum gracile (B)</i>		Present	
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	8/14/2008	8:38	Net	<i>Ceratium spp. (T)</i>			
	8/14/2008	8:38	Net	<i>Chaetoceros spp. (T)</i>			
	8/14/2008	8:38	Net	<i>Dinophysis acuminata (T)</i>			
	8/14/2008	8:38	Net	<i>Dinophysis norvegica (T)</i>			
	8/14/2008	8:38	Net	<i>Lyngbya (T)</i>			

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Indian River							
<u>Indian River</u>							
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	8/14/2008	8:38	Net	<i>Prorocentrum micans</i> (B)			
	8/14/2008	8:38	Net	<i>Prorocentrum</i> sp. (T)			
	8/14/2008	8:38	Net	<i>Pseudo-nitzschia</i> spp. (T)			
	8/14/2008	8:38	Net	<i>Rhizosolenia</i> spp. (T)			
	8/14/2008	8:38	Surfc	<i>Ceratium</i> spp. (T)		Very Rare	
	8/14/2008	8:38	Surfc	<i>Chaetoceros</i> spp. (T)		Very Rare	
	8/14/2008	8:38	Surfc	<i>Dinophysis norvegica</i> (T)		Very Rare	
	8/14/2008	8:38	Surfc	<i>Karlodinium veneficum</i> (T)		Rare	0.008
	8/14/2008	8:38	Surfc	<i>Prorocentrum gracile</i> (B)		Very Rare	
	8/14/2008	8:38	Surfc	<i>Prorocentrum micans</i> (B)		Very Rare	
	8/14/2008	8:38	Surfc	<i>Prorocentrum minimum</i> (T)		Very Rare	
	8/14/2008	8:38	Surfc	<i>Prorocentrum</i> sp. (T)		Very Rare	
	8/14/2008	8:38	Surfc	<i>Rhizosolenia</i> spp. (T)		Very Rare	
	8/18/2008	8:22	Surfc	<i>Ceratium</i> spp. (T)		Rare	0.003
	8/18/2008	8:22	Surfc	<i>Chaetoceros</i> spp. (T)		Rare	0.002
	8/18/2008	8:22	Surfc	<i>Dinophysis norvegica</i> (T)		Very Rare	
	8/18/2008	8:22	Surfc	<i>Heterocapsa rotundata</i> (B)		Very Rare	
	8/18/2008	8:22	Surfc	<i>Prorocentrum gracile</i> (B)		Very Rare	
	8/18/2008	8:22	Surfc	<i>Prorocentrum micans</i> (B)		Rare	0.002
	8/18/2008	8:22	Surfc	<i>Prorocentrum minimum</i> (T)		Rare	0.004
	8/18/2008	8:22	Surfc	<i>Prorocentrum</i> sp. (T)		Rare	0.001
	8/18/2008	8:22	Surfc	<i>Rhizosolenia</i> spp. (T)		Very Rare	
<u>Vines Creek</u>							
IR38: Vines Lane							
	8/12/2008	7:25	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	8/12/2008	7:25	Surfc	<i>Chattonella</i> cf. <i>verruculosa</i> (T)		Present	
	8/12/2008	7:25	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/12/2008	7:25	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.150
	8/12/2008	7:25	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	8/12/2008	7:25	Surfc	<i>Karlodinium veneficum</i> (T)		Many	1.700
	8/12/2008	7:25	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/12/2008	7:25	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	8/19/2008	8:00	Surfc	<i>Amphidinium</i> spp. (T)		Present	
	8/19/2008	8:00	Surfc	<i>Chattonella</i> cf. <i>verruculosa</i> (T)		Many	1.800
	8/19/2008	8:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/19/2008	8:00	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	8/12/2008	9:42	Surfc	<i>Chattonella</i> cf. <i>verruculosa</i> (T)		Many	1.000
	8/12/2008	9:42	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	

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Indian River							
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	8/12/2008	9:42	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/12/2008	9:42	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	8/12/2008	9:42	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/12/2008	9:42	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/12/2008	9:42	Surfc	<i>Oscillatoria</i> spp. (B)		Present	
	8/12/2008	9:42	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
IR59: White Creek - west prong near Food Lion							
	8/11/2008	9:30	Surfc	<i>Amphidinium</i> spp. (T)		Present	
	8/11/2008	9:30	Surfc	<i>Anabaena</i> spp. (T)		Common	0.188
	8/11/2008	9:30	Surfc	<i>Chattonella</i> cf. <i>verruculosa</i> (T)		Common	0.950
	8/11/2008	9:30	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	8/11/2008	9:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/11/2008	9:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/11/2008	9:30	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/11/2008	9:30	Surfc	<i>Microcystis</i> spp. (T)		Many	1.000
	8/11/2008	9:30	Surfc	<i>Prorocentrum gracile</i> (B)		Present	
	8/11/2008	9:30	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Common	0.162
IR60A: Ocean View; E Branch of White Creek							
	8/11/2008	9:17	Surfc	<i>Anabaena</i> spp. (T)		Abundant	26.600
	8/11/2008	9:17	Surfc	<i>Chattonella</i> cf. <i>verruculosa</i> (T)		Common	0.138
	8/11/2008	9:17	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/11/2008	9:17	Surfc	<i>Oscillatoria</i> spp. (B)		Common	0.188
	8/11/2008	9:17	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
Little Assawoman Bay							
<u>Assawoman Canal</u>							
LA10: Assawoman Canal @ Kent Ave Bridge							
	8/11/2008	8:15	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/11/2008	8:15	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	8/11/2008	8:27	Surfc	<i>Chattonella</i> cf. <i>verruculosa</i> (T)		Present	
	8/11/2008	8:27	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/11/2008	8:27	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	8/11/2008	9:17	Surfc	<i>Chattonella</i> cf. <i>verruculosa</i> (T)		Present	
	8/11/2008	9:17	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/11/2008	9:17	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.375
	8/11/2008	9:17	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	8/11/2008	9:17	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.250
	8/11/2008	9:17	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/19/2008	8:39	Surfc	(Unknown) sp. (B*)	5-15 um Grn trdrp	Abundant	11.000

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Little Assawoman Bay							
<u>Dirickson Creek</u>							
LA09: Dirickson Creek at Road 381 bridge.							
	8/19/2008	8:39	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Many	3.300
	8/19/2008	8:39	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/19/2008	8:39	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/19/2008	8:39	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/19/2008	8:39	Surfc	<i>Karlodinium veneficum (T)</i>		Many	5.500
	8/19/2008	8:39	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
LA20: Swann Keys: boat ramp at S end of Blue Teal Rd							
	8/12/2008	8:45	Surfc	<i>Amphidinium spp. (T)</i>		Present	
	8/12/2008	8:45	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/12/2008	8:45	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/12/2008	8:45	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.125
<u>Jefferson Creek</u>							
SB07: Layton Canal, South Bethany							
	8/12/2008	16:36	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	8/12/2008	16:36	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/12/2008	16:36	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
SB10E: Russell Canal east dead end							
	8/12/2008	9:18	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/12/2008	9:18	Surfc	<i>Fibrocapsa japonica (T)</i>		Common	0.125
	8/12/2008	9:18	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/12/2008	9:18	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
SB10W: Russell Canal west dead end							
	8/12/2008	9:08	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/12/2008	9:08	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	8/12/2008	9:08	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/12/2008	9:08	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	8/12/2008	9:08	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
<u>Miller Creek</u>							
LA31: Double Bridges road bridge at Plantation Park							
	8/12/2008	8:30	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/12/2008	8:30	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/12/2008	8:30	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/12/2008	8:30	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.200
	8/12/2008	8:30	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.800
<u>Williams Creek</u>							
LA21: Williams Creek tributary, bridge on Rd 364a							
	8/11/2008	8:52	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Many	2.300
	8/11/2008	8:52	Surfc	<i>Heterocapsa rotundata (B)</i>		Many	2.300
	8/11/2008	8:52	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/11/2008	8:52	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	8/11/2008	8:52	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.800

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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
Little Assawoman Bay							
<u>Williams Creek</u>							
LA21: Williams Creek tributary, bridge on Rd 364a							
	8/11/2008	8:52	Surfc	<i>Prorocentrum gracile</i> (B)		Present	
	8/11/2008	8:52	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	8/19/2008	8:17	Surfc	(Unknown) sp. (B*)	5-15 um Grn trdrp	Abundant	66.000
	8/19/2008	8:17	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	8/19/2008	8:17	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.150
	8/19/2008	8:17	Surfc	<i>Heterosigma akashiwo</i> . (T)		Many	3.300
	8/19/2008	8:17	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/19/2008	8:17	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	0.125
	8/19/2008	8:17	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	8/19/2008	8:17	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Abundant	13.200
Rehoboth Bay							
ML: Massey's Landing							
	8/11/2008	11:30	Surfc	<i>Prorocentrum gracile</i> (B)		Present	
	8/11/2008	11:30	Surfc	<i>Scrippsiella</i> sp. (B)		Present	
RB07: West Bay Park							
	8/12/2008	8:30	Surfc		No HABs found		
<u>Arnell Creek</u>							
AC2S: DNREC Site, Arnell Creek, surface sample							
	8/15/2008	13:20	Surfc	"Gymnodinioid" sp. (S)	10-15 um Grn	Present	
	8/15/2008	13:20	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	8/15/2008	13:20	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Many	5.500
	8/15/2008	13:20	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.100
	8/15/2008	13:20	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	
	8/15/2008	13:20	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	8/15/2008	13:20	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.162
	8/15/2008	13:20	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	8/21/2008	9:55	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
<u>Bald Eagle Creek</u>							
RB69: Torquay Canal DNREC site. TC1							
	8/15/2008	14:10	Surfc	"Gymnodinioid" sp. (S)	10-15 um Grn	Present	
	8/15/2008	14:10	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.712
	8/15/2008	14:10	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.975
	8/15/2008	14:10	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/15/2008	14:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.425
	8/15/2008	14:10	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	8/15/2008	14:10	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.400
	8/15/2008	14:10	Surfc	<i>Leptocylindrus</i> spp. (B*)		Abundant	17.600
	8/15/2008	14:10	Surfc	<i>Scrippsiella</i> sp. (B)		Present	
	8/21/2008	9:20	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.262
	8/21/2008	9:20	Surfc	<i>Chattonella subsalsa</i> (T)		Many	1.280
	8/21/2008	9:20	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	

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Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Rehoboth Bay							
<u>Bald Eagle Creek</u>							
RB69: Torquay Canal DNREC site. TC1							
	8/21/2008	9:20	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/21/2008	9:20	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	8/21/2008	9:20	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/21/2008	9:20	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/21/2008	9:20	Surfc	<i>Oscillatoria spp.</i> (B)		Common	0.250
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	8/11/2008	11:51	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	8/11/2008	11:51	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/11/2008	11:51	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/11/2008	11:51	Surfc	<i>Protooperidinium quinquecorne</i> (B)		Present	
RB06: Guinea Creek (Winding Creek Village)							
	8/11/2008	9:00	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	8/11/2008	9:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/11/2008	9:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/11/2008	9:00	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	8/11/2008	9:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/11/2008	9:00	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/11/2008	9:00	Surfc	<i>Prorocentrum gracile</i> (B)		Common	0.100
RB06A: Guinea Creek @ Rd 298 Bridge							
	8/11/2008	12:13	Surfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.812
	8/11/2008	12:13	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Lewes - Rehoboth Canal</u>							
RB02: Lewes - Rehoboth Canal at Lewes							
	8/11/2008	8:45	Net	<i>Ceratium spp.</i> (T)			
	8/11/2008	8:45	Net	<i>Chaetoceros spp.</i> (T)			
	8/11/2008	8:45	Net	<i>Heterocapsa rotundata</i> (B)			
	8/11/2008	8:45	Net	<i>Karlodinium veneficum</i> (T)			
	8/11/2008	8:45	Net	<i>Rhizosolenia spp.</i> (T)			
	8/11/2008	8:45	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/11/2008	8:45	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	8/11/2008	8:45	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/11/2008	8:45	Surfc	<i>Prorocentrum gracile</i> (B)		Present	
	8/11/2008	8:45	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	8/19/2008	8:25	Net	<i>Chaetoceros spp.</i> (T)			
	8/19/2008	8:25	Net	<i>Karlodinium veneficum</i> (T)			
	8/19/2008	8:25	Net	<i>Phalacroma rotundatum</i> (T)			
	8/19/2008	8:25	Net	<i>Prorocentrum gracile</i> (B)			
	8/19/2008	8:25	Net	<i>Rhizosolenia spp.</i> (T)			
	8/19/2008	8:25	Surfc		No HABs found		

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University of Delaware Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Rehoboth Bay							
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	8/12/2008	10:23	Surfc	<i>(Unknown) sp. (B*)</i>	5-15 um Grn trdrp	Very Abundant	200.000
	8/12/2008	10:23	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.125
	8/12/2008	10:23	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/12/2008	10:23	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/12/2008	10:23	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	8/12/2008	10:23	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	8/12/2008	10:23	Surfc	<i>Prorocentrum gracile (B)</i>		Present	
RLC2S: DNREC site, upper Love Creek							
	8/15/2008	12:30	Surfc	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Present	
	8/15/2008	12:30	Surfc	<i>(Unknown) sp. (B*)</i>	5-15 um Grn trdrp	Abundant	30.800
	8/15/2008	12:30	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/15/2008	12:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/15/2008	12:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/15/2008	12:30	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.150
	8/15/2008	12:30	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	8/21/2008	10:25	Surfc	<i>(Unknown) sp. (B*)</i>	5-15 um Grn trdrp	Abundant	99.000
	8/21/2008	10:25	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/21/2008	10:25	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/21/2008	10:25	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
Wagamon's Pond							
BR44: Wagamon's Pond, Milton							
	8/13/2008	10:30	Surfc	<i>Oscillatoria spp. (B)</i>		Present	

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