

Harmful Algae Report

All data between 7/1/2014 and 7/17/2014

University of Delaware Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Atlantic Ocean							
RWPM14: Tower Rd Ocean, Delaware Seashore State Park							
	7/16/2014	8:58	Surfc	<i>Ceratium pentagonum (B)</i>		Rare	0.001
	7/16/2014	8:58	Surfc	<i>Heterocapsa rotundata (B)</i>		Rare	0.001
	7/16/2014	8:58	Surfc	<i>Karenia papilionacea (T)</i>		Present	0.072
	7/16/2014	8:58	Surfc	<i>Karlodinium veneficum (T)</i>		Rare	0.001
	7/16/2014	8:58	Surfc	<i>Prorocentrum scutellum (B)</i>		Present	0.010
	7/16/2014	8:58	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	0.011
	7/16/2014	8:58	Surfc	<i>Scrippsiella sp. (B)</i>		Rare	0.003
RWPM9: Gordon's Pond (1)							
	7/10/2014	8:30	Surfc	<i>Ditylum spp. (T)</i>		Very Rare	
	7/10/2014	8:30	Surfc	<i>Fibrocapsa japonica (T)</i>		Rare	0.003
	7/10/2014	8:30	Surfc	<i>Prorocentrum minimum (T)</i>		Rare	0.001
	7/10/2014	8:30	Surfc	<i>Prorocentrum scutellum (B)</i>		Rare	0.002
	7/10/2014	8:30	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Very Rare	
	7/10/2014	8:30	Surfc	<i>Scrippsiella sp. (B)</i>		Rare	0.003
RWPMVIII: Town of Fenwick							
	7/16/2014	10:35	Surfc	<i>Chaetoceros spp. (T)</i>		Rare	0.008
	7/16/2014	10:35	Surfc	<i>Ditylum spp. (T)</i>		Very Rare	
	7/16/2014	10:35	Surfc	<i>Fibrocapsa japonica (T)</i>		Rare	0.001
	7/16/2014	10:35	Surfc	<i>Karenia papilionacea (T)</i>		Present	0.025
	7/16/2014	10:35	Surfc	<i>Prorocentrum triestinum (B)</i>		Rare	0.002
	7/16/2014	10:35	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
	7/16/2014	10:35	Surfc	<i>Scrippsiella sp. (B)</i>		Very Rare	
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	7/9/2014	8:52	Net	<i>Chattonella subsalsa (T)</i>			
	7/9/2014	8:52	Net	<i>Dinophysis acuminata (T)</i>			
	7/9/2014	8:52	Net	<i>Heterocapsa rotundata (B)</i>			
	7/9/2014	8:52	Net	<i>Prorocentrum minimum (T)</i>			
	7/9/2014	8:52	Net	<i>Prorocentrum scutellum (B)</i>			
	7/9/2014	8:52	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.100
	7/9/2014	8:52	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/9/2014	8:52	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
BR20: Broadkill River at Milton tidal pond							
	7/9/2014	6:50	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.180
Old Mill Creek							
BR21: Old Mill Creek downstream from Red Mill Pond							
	7/9/2014	12:00	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	

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Broadkill River							
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	7/9/2014	12:00	Surfc	<i>Microcystis spp. (T)</i>		Many	4.000
<u>Prime Hook Creek</u>							
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	7/9/2014	11:35	Surfc	<i>Chattonella subsalsa (T)</i>		Many	1.950
	7/9/2014	11:35	Surfc	<i>Chloromorom toxicum (T)</i>		Common	0.340
	7/9/2014	11:35	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.160
	7/9/2014	11:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.370
	7/9/2014	11:35	Surfc	<i>Heterosigma akashiwo (T)</i>		Common	0.160
	7/9/2014	11:35	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/9/2014	11:35	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	7/9/2014	11:35	Surfc	<i>Protoperdinium quinquecorne (B)</i>		Common	0.400
<u>Wagamon's Pond</u>							
BR44: Wagamon's Pond on Northern Shoreline, Milton							
	7/8/2014	10:45	Surfc	<i>Lyngbya (T)</i>		Present	
Delaware Bay							
DB01: End of Cape Shores pier							
	7/1/2014	8:46	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/1/2014	8:46	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	7/1/2014	8:46	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/9/2014	8:51	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
	7/17/2014	9:26	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/17/2014	9:26	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/17/2014	9:26	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>Canary Creek</u>							
BR40: Canary Creek at Pilottown Rd							
	7/8/2014	6:52	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
	7/8/2014	6:52	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	7/8/2014	6:52	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.180
	7/8/2014	6:52	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	7/8/2014	6:52	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/8/2014	6:52	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
Indian River							
IR24: Iron Branch - County road 331 at bridge							
	7/7/2014	9:54	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	7/7/2014	9:54	Surfc	<i>Heterosigma akashiwo (T)</i>		Abundant	42.900
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, Ocean View Marina							
	7/8/2014	7:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/8/2014	7:20	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	7/8/2014	7:20	Surfc	<i>Protoperdinium quinquecorne (B)</i>		Present	

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Indian River							
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	7/7/2014	7:45	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/7/2014	7:45	Surfc	<i>Protoperdinium quinquecorne</i> (B)		Present	
<u>Indian River</u>							
IR04: Warwick Cove							
	7/7/2014	10:22	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/7/2014	10:22	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
IR11: Pot Nets Seaside Pier							
	7/7/2014	11:04	Surfc	<i>Chaetoceros</i> spp. (T)		Present	
	7/7/2014	11:04	Surfc	<i>Chloromorom toxicum</i> (T)		Present	
	7/7/2014	11:04	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.113
	7/7/2014	11:04	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/7/2014	11:04	Surfc	<i>Prorocentrum scutellum</i> (B)		Present	
	7/7/2014	11:04	Surfc	<i>Prorocentrum triestinum</i> (B)		Present	
IR20: Bay Colony							
	7/7/2014	7:50	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore							
	7/7/2014	8:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.100
	7/7/2014	8:10	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/7/2014	8:10	Surfc	<i>Prorocentrum triestinum</i> (B)		Present	
	7/7/2014	8:10	Surfc	<i>Protoperdinium quinquecorne</i> (B)		Present	
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	7/10/2014	7:40	Surfc	<i>Ceratium pentagonum</i> (B)		Rare	0.001
	7/10/2014	7:40	Surfc	<i>Dinophysis acuminata</i> (T)		Very Rare	
	7/10/2014	7:40	Surfc	<i>Ditylum</i> spp. (T)		Rare	0.001
	7/10/2014	7:40	Surfc	<i>Fibrocapsa japonica</i> (T)		Rare	0.004
	7/10/2014	7:40	Surfc	<i>Karenia papilionacea</i> (T)		Rare	0.003
	7/10/2014	7:40	Surfc	<i>Prorocentrum scutellum</i> (B)		Present	0.020
	7/10/2014	7:40	Surfc	<i>Prorocentrum triestinum</i> (B)		Rare	0.001
	7/10/2014	7:40	Surfc	<i>Rhizosolenia</i> spp. (T)		Rare	0.001
	7/10/2014	7:40	Surfc	<i>Scrippsiella</i> sp. (B)		Very Rare	
<u>Vines Creek</u>							
IR38: Vines Lane							
	7/8/2014	7:45	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/8/2014	7:45	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/8/2014	7:45	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	7/7/2014	8:53	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.630
	7/7/2014	8:53	Surfc	<i>Chloromorom toxicum</i> (T)		Many	9.240
	7/7/2014	8:53	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	

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Indian River							
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	7/7/2014	8:53	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/7/2014	8:53	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/7/2014	8:53	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	7/7/2014	8:53	Surfc	<i>Prorocentrum triestinum</i> (B)		Present	
	7/7/2014	8:53	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Common	0.400
	7/7/2014	8:53	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
Little Assawoman Bay							
LA46: Fenwick Island Tide Gauge							
	7/8/2014	8:52	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/8/2014	8:52	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
<u>Assawoman Canal</u>							
LA10: Assawoman Canal S end, Kent Ave Bridge							
	7/7/2014	7:15	Surfc	<i>Chloromorom toxicum</i> (T)		Present	
	7/7/2014	7:15	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/7/2014	7:15	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	7/7/2014	7:32	Surfc	<i>Chloromorom toxicum</i> (T)		Present	
	7/7/2014	7:32	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	7/7/2014	8:12	Surfc	<i>Chloromorom toxicum</i> (T)		Common	0.120
	7/7/2014	8:12	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.230
	7/7/2014	8:12	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.300
	7/7/2014	8:12	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/7/2014	8:12	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.200
	7/7/2014	8:12	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	0.100
	7/7/2014	8:12	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	7/7/2014	8:12	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	7/1/2014	8:05	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	7/1/2014	8:05	Surfc	<i>Chloromorom toxicum</i> (T)		Present	
	7/1/2014	8:05	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/1/2014	8:05	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/8/2014	8:14	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.110
	7/8/2014	8:14	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/15/2014	7:26	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	7/15/2014	7:26	Surfc	<i>Chloromorom toxicum</i> (T)		Common	0.113
	7/15/2014	7:26	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	7/15/2014	7:26	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	

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Little Assawoman Bay							
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	7/15/2014	7:26	Surfc	<i>Karodinium veneficum</i> (T)		Common	0.175
SB10W: Russell Canal west dead end							
	7/1/2014	8:20	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	7/1/2014	8:20	Surfc	<i>Chloromorom toxicum</i> (T)		Common	0.180
	7/1/2014	8:20	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/1/2014	8:20	Surfc	<i>Karodinium veneficum</i> (T)		Common	0.150
	7/1/2014	8:20	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	7/8/2014	8:29	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.360
	7/8/2014	8:29	Surfc	<i>Chloromorom toxicum</i> (T)		Present	
	7/8/2014	8:29	Surfc	<i>Karodinium veneficum</i> (T)		Present	
	7/15/2014	7:41	Surfc	<i>Chloromorom toxicum</i> (T)		Common	0.180
	7/15/2014	7:41	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	7/15/2014	7:41	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/15/2014	7:41	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/15/2014	7:41	Surfc	<i>Karodinium veneficum</i> (T)		Present	
	7/15/2014	7:41	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
Rehoboth Bay							
RB07: West Bay Park							
	7/8/2014	8:30	Surfc	<i>Karodinium veneficum</i> (T)		Present	
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	7/7/2014	8:30	Surfc	<i>Chattonella subsalsa</i> (T)		Many	5.940
	7/7/2014	8:30	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.100
	7/7/2014	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.190
	7/7/2014	8:30	Surfc	<i>Heterosigma akashiwo</i> (T)		Abundant	19.800
	7/7/2014	8:30	Surfc	<i>Karodinium veneficum</i> (T)		Present	
	7/7/2014	8:30	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	0.180
	7/7/2014	8:30	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	7/7/2014	11:30	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	
	7/7/2014	11:30	Surfc	<i>Chloromorom toxicum</i> (T)		Present	
	7/7/2014	11:30	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/7/2014	11:30	Surfc	<i>Karodinium veneficum</i> (T)		Present	
	7/7/2014	11:30	Surfc	<i>Prorocentrum triestinum</i> (B)		Present	
RB06: Guinea Creek (Winding Creek Village)							
	7/7/2014	7:45	Surfc	<i>Karodinium veneficum</i> (T)		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	7/7/2014	9:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Many	5.700

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Rehoboth Bay							
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	7/7/2014	9:10	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	7/7/2014	9:10	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	

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