

# Harmful Algae Report

All data between 4/1/2016 and 6/1/2016

University of Delaware Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Sample Depth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Broadkill River</b>							
<u>Broadkill River</u>							
BR01: Broadkill river @ PEL dock.							
	4/13/2016	8:45	Net	<i>Heterocapsa rotundata</i> (B) <i>Heterocapsa triquetra</i> (B) <i>Rhizosolenia</i> spp. (T)			
			Surfc	<i>Rhizosolenia</i> spp. (T)		Present	
	4/27/2016		Net	<i>Heterocapsa rotundata</i> (B) <i>Prorocentrum minimum</i> (T) <i>Rhizosolenia</i> spp. (T)			
			Surfc	<i>Rhizosolenia</i> spp. (T)		Present	
	5/11/2016	9:35	Net	<i>Heterocapsa rotundata</i> (B) <i>Prorocentrum minimum</i> (T) <i>Pseudo-nitzschia</i> spp. (T) <i>Rhizosolenia</i> spp. (T)			
			Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/16/2016	12:30		<i>Heterocapsa rotundata</i> (B) <i>Prorocentrum minimum</i> (T)		Abundant Common	11.000
	5/25/2016	8:45	Net	"Gymnodinioid" sp. (S) <i>Dinophysis acuminata</i> (T) <i>Heterocapsa rotundata</i> (B) <i>Karlodinium veneficum</i> (T) <i>Prorocentrum minimum</i> (T) <i>Rhizosolenia</i> spp. (T)	25-40 um Grn		
			Surfc	"Gymnodinioid" sp. (S) <i>Heterocapsa rotundata</i> (B) <i>Prorocentrum minimum</i> (T)	25-40 um Grn	Present Present Present	
	6/1/2016	8:50	Net	<i>Chaetoceros</i> spp. (T) <i>Heterocapsa rotundata</i> (B) <i>Prorocentrum minimum</i> (T) <i>Rhizosolenia</i> spp. (T)			
			Surfc	<i>Fibrocapsa japonica</i> (T) <i>Prorocentrum minimum</i> (T)		Present Present	
BR20: Broadkill River at Milton tidal pond							
	5/11/2016	6:30	Surfc	<i>Anabaena</i> spp. (T)		Many	1.500
	5/25/2016			<i>Centric diatom 5-10 um</i> (B*)		Abundant	11.000
<u>Diamond Pond</u>							
BR48: Diamond Pond at Spillway							
	5/11/2016	10:45	Surfc		No HABs found		
	5/25/2016	6:45		<i>Centric diatom 5-10 um</i> (B*)		Abundant	15.400
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	5/11/2016	11:50	Surfc		No HABs found		
	5/25/2016	11:25		<i>Kryptoperidinium foliaceum</i> (B)		Present	
<u>Prime Hook Creek</u>							

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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.

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Water Body Tributary Site	Date	Time	Sample Depth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Broadkill River</b>							
<u>Prime Hook Creek</u>							
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	4/13/2016	11:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/11/2016	11:24		<i>Heterocapsa rotundata</i> (B)		Common	0.563
	5/25/2016	11:00		(Unknown) sp. (B*)	5-10 um Obl/Grn	Abundant	15.400
<b>Delaware Bay</b>							
<u>Canary Creek</u>							
BR40: Canary Creek at Pilottown Rd							
	5/11/2016	7:26	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Rhizosolenia</i> spp. (T)		Present	
	5/31/2016	7:19		"Gymnodinioid" sp. (S)	25-40 um Grn	Present	
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
<u>Delaware Bay</u>							
DB01: End of Cape Shores pier							
	5/4/2016	9:12	Surfc	<i>Rhizosolenia</i> spp. (T)		Present	
	5/10/2016	8:32		<i>Rhizosolenia</i> spp. (T)		Present	
	5/31/2016	8:53		<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
				<i>Rhizosolenia</i> spp. (T)		Present	
<b>Indian River</b>							
<u>Indian River</u>							
IR11: Pot Nets Seaside Pier							
	5/9/2016	10:15	Surfc	<i>Chaetoceros</i> spp. (T)		Present	
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Rhizosolenia</i> spp. (T)		Present	
	5/26/2016			<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
				<i>Rhizosolenia</i> spp. (T)		Present	
	4/11/2016	9:25	Surfc		No HABs found		
	5/9/2016				No HABs found		
	5/26/2016	9:30		<i>Amphidinium</i> spp. (T)		Present	
	IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore						
	5/10/2016	7:55	Surfc	<i>Rhizosolenia</i> spp. (T)		Present	
	5/24/2016	8:25		<i>Karlodinium veneficum</i> (T)		Present	
<u>Vines Creek</u>							
IR38: Vines Lane							
	4/12/2016	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Heterocapsa triquetra</i> (B)		Present	
	5/10/2016			<i>Gyrodinium instriatum</i> (B)		Present	
	5/24/2016	8:00			No HABs found		
<b>Little Assawoman Bay</b>							
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	5/11/2016	6:59	Surfc	<i>Chaetoceros</i> spp. (T)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	

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<b>Little Assawoman Bay</b>							
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	5/26/2016	8:45	Surfc	"Gymnodinioid" sp. (S)	25-40 um Grn	Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	4/11/2016	7:56	Surfc	<i>Centric diatom 5-10 um</i> (B*)		Abundant	15.400
				<i>Prorocentrum minimum</i> (T)		Present	
	5/11/2016	8:06		<i>Gyrodinium instriatum</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
	5/24/2016	7:30			No HABs found		
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	4/12/2016	8:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
	5/10/2016	8:12		<i>Karlodinium veneficum</i> (T)		Common	0.100
	5/24/2016	7:54		<i>Karlodinium veneficum</i> (T)		Common	0.150
				<i>Oscillatoria</i> spp. (B)		Many	2.000
				<i>Pleurochrysis carterae</i> (B*)		Abundant	13.200
SB10W: Russell Canal west dead end							
	4/12/2016	8:15	Surfc	<i>Amphidinium</i> spp. (T)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
	5/10/2016	8:30		<i>Karlodinium veneficum</i> (T)		Present	
	5/24/2016	8:09		<i>Karlodinium veneficum</i> (T)		Common	0.200
				<i>Prorocentrum minimum</i> (T)		Present	
<u>Little Assawoman Bay</u>							
LA46: Fenwick Island Tide Gauge							
	5/10/2016	9:15	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
	5/24/2016	9:10		<i>Akashiwo sanguinea</i> (T)		Present	
				<i>Heterocapsa rotundata</i> (B)		Present	
<b>Rehoboth Bay</b>							
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	4/20/2016	9:00	Surfc	<i>Dinophysis acuminata</i> (T)		Common	0.588
				<i>Karlodinium veneficum</i> (T)		Present	
	5/4/2016	9:13		<i>Karlodinium veneficum</i> (T)		Present	
	5/26/2016	9:00		<i>Dinophysis acuminata</i> (T)		Many	1.740
				<i>Heterosigma akashiwo</i> (T)		Many	2.700
				<i>Prorocentrum minimum</i> (T)		Present	
	5/31/2016	13:25		<i>Karlodinium veneficum</i> (T)		Common	0.188
				<i>Prorocentrum minimum</i> (T)		Common	0.863
				<i>Scrippsiella</i> sp. (B)		Present	
<u>Guinea Creek</u>							
RB06: Guinea Creek (Winding Creek Village)							
	4/11/2016	8:20	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.675
	5/9/2016	7:45		<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	

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<b>Water Body</b>	<b>Date</b>	<b>Time</b>	<b>Sample</b>	<b>Name</b>	<b>Comment if</b>	<b>Abundance</b>	<b>MC/L</b>
<u>Tributary</u>			<b>Depth</b>		<b>ID uncertain</b>		
<u>Site</u>							

**Rehoboth Bay**

Guinea Creek

RB06: Guinea Creek (Winding Creek Village)

5/24/2016	7:25	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.200
			<i>Prorocentrum minimum (T)</i>		Common	0.350

Love Creek

RB34: Love Creek at Rt 24 Bridge

4/12/2016	11:40	Surfc		No HABs found		
5/9/2016	11:50		<i>Heterocapsa rotundata (B)</i>		Present	
5/26/2016	10:45			No HABs found		

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