

Harmful Algae Report

All data between 6/10/2005 and 6/23/2005

Delaware Inland Bays Citizen Monitor Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Assawoman Bay							
<u>Roy Creek</u>							
BA01: Keenwick on Bay, Roy Creek							
	6/21/2005	8:35	Surfc		No HABs found		
Assawoman Canal							
IR50: Assawoman Canal at N end, marina dock							
	6/21/2005	8:42	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.67
LA10: Assawoman Canal @ Kent Ave Bridge							
	6/13/2005	8:15	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.10
	6/13/2005	8:15	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	6/20/2005	8:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/20/2005	8:20	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	6/13/2005	9:05	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/13/2005	9:05	Surfc	<i>Amphidinium sp. (T)</i>		Present	
	6/13/2005	9:05	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/21/2005	8:23	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/21/2005	8:23	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/21/2005	8:23	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/21/2005	8:23	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Common	0.11
	6/21/2005	8:23	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.56
IR64: Bethany Beach canal off dead end at 3rd street East of Evans Rd.							
	6/21/2005	8:30	Surfc		No HABs found		
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	6/14/2005	15:23	Net	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/14/2005	15:23	Net	<i>Chaetoceros sp. (T)</i>		Present	
	6/14/2005	15:23	Net	<i>Dinophysis acuminata (T)</i>		Present	
	6/14/2005	15:23	Net	<i>Ditylum sp. (T)</i>		Present	
	6/14/2005	15:23	Net	<i>Fibrocapsa japonica (T)</i>		Present	
	6/14/2005	15:23	Net	<i>Heterocapsa rotundata (B)</i>		Present	
	6/14/2005	15:23	Net	<i>Prorocentrum gracile (B)</i>		Present	
	6/14/2005	15:23	Net	<i>Prorocentrum minimum (T)</i>		Present	
	6/14/2005	15:23	Net	<i>Prorocentrum sp. (T)</i>		Present	
	6/14/2005	15:23	Net	<i>Rhizosolenia spp. (B)</i>		Present	
	6/14/2005	15:25	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	6/14/2005	15:25	Surfc	<i>Prorocentrum gracile (B)</i>		Present	
	6/21/2005	9:30	Net	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/21/2005	9:30	Net	<i>Dinophysis acuminata (T)</i>		Present	

Name subsripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell.

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MCL; Many: 1 - 10 MCL; Abundant: 10 - 100 MCL; Very Abundant: > 100 MCL.

Delaware Inland Bays Citizen Monitoring Program

23-Jun-05

University of Delaware SGMAS, 700 Pilottown Rd, Lewes, DE 19958 (302) 645-4252

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Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	6/21/2005	9:30	Net	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/21/2005	9:30	Net	<i>Prorocentrum lima (T)</i>		Present	
	6/21/2005	9:30	Net	<i>Rhizosolenia spp. (B)</i>		Present	
	6/21/2005	9:33	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/21/2005	9:33	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	
	6/21/2005	9:33	Surfc	<i>Prorocentrum gracile (B)</i>		Present	
	6/21/2005	9:33	Surfc	<i>Prorocentrum lima (T)</i>		Present	
Delaware Bay							
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	6/15/2005	9:10	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
BR40: Canary Creek at Pilottown Rd							
	6/22/2005	9:02	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/22/2005	9:02	Surfc	<i>Prorocentrum gracile (B)</i>		Present	
	6/22/2005	9:02	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
Indian River							
IR04: Warwick Cove							
	6/20/2005	9:00	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Many	1.10
	6/20/2005	9:00	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/20/2005	9:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.10
	6/20/2005	9:00	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/20/2005	9:00	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
IR07: Holt's Landing State Park							
	6/21/2005	9:17	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/21/2005	9:17	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR11: Big Ditch Point							
	6/20/2005	8:00	Surfc		No HABs found		
IR20: Bay Colony							
	6/20/2005	8:25	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/20/2005	8:25	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR41B: Indian River buoy #1							
	6/22/2005	10:00	Surfc	<i>Chaetoceros sp. (T)</i>		Present	
	6/22/2005	10:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR43B: Indian River buoy #22							
	6/22/2005	9:52	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR45B: Indian River Buoy #24							
	6/22/2005	9:45	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/22/2005	9:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR5S: DNREC site, Upper Indian River							
	6/16/2005	12:30	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/16/2005	12:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres							

Name subscripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell.
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Delaware Inland Bays Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Indian River							
<u>White Creek</u>							
IR32: Holly Terrace Acres							
	6/20/2005	10:00	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/20/2005	10:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/20/2005	10:00	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
IR59: White Creek - west prong near Food Lion							
	6/21/2005	9:02	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/21/2005	9:02	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/21/2005	9:02	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.25
	6/21/2005	9:02	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
IR60A: 4 Cristy Lane, Ocean View; E Branch of White Creek							
	6/21/2005	8:51	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.19
	6/21/2005	8:51	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.15
	6/21/2005	8:51	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/21/2005	8:51	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	6/21/2005	8:51	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
Lewes - Rehoboth Canal							
RB02: Lewes - Rehoboth Canal at Lewes							
	6/13/2005	20:05	Net		No HABs found		
	6/14/2005	8:20	Surfc		No HABs found		
	6/21/2005	8:45	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/21/2005	8:50	Net	<i>Chaetoceros sp. (T)</i>		Present	
	6/21/2005	8:50	Net	<i>Prorocentrum lima (T)</i>		Present	
	6/21/2005	8:50	Net	<i>Rhizosolenia spp. (B)</i>		Present	
Little Assawoman Bay							
LA15B: Red channel marker #12							
	6/16/2005	8:25	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/16/2005	8:25	Surfc	<i>Chaetoceros sp. (T)</i>		Present	
LA35B: Red Channel marker #28, across from Miller Creek							
	6/16/2005	8:10	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/16/2005	8:10	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	6/16/2005	8:10	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/16/2005	8:10	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
LA42B: Narrows, South of state beach at point							
	6/16/2005	8:17	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/16/2005	8:17	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
LA45: Fenwick Island Bayside							
	6/21/2005	8:05	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	6/20/2005	8:45	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/20/2005	8:45	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	6/20/2005	9:13	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	

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Little Assawoman Bay

Dirickson Creek

LA09: Dirickson Creek at Road 381 bridge.

6/20/2005	9:13	Surfc		<i>Gyrodinium instriatum</i> (B)		Common	0.13
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LA20: Swann Keys: boat ramp at S end of Blue Teal Rd

6/20/2005	9:00	Surfc		<i>Gyrodinium instriatum</i> (B)		Common	0.10
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6/20/2005	9:00	Surfc		<i>Heterocapsa rotundata</i> (B)		Present	
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6/20/2005	9:00	Surfc		<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
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6/20/2005	9:00	Surfc		<i>Protoperidinium quinquecorne</i> (B)		Common	0.65
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LA22B: Dirickson Creek upper section between Williams Creek and the LA09, mid channel near duck blind.

6/16/2005	8:37	Surfc		<i>"Gymnodinioid" sp.</i> (S)	15-25 um Grn	Present	
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6/16/2005	8:37	Surfc		<i>Gyrodinium instriatum</i> (B)		Present	
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6/16/2005	8:37	Surfc		<i>Heterocapsa rotundata</i> (B)		Present	
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Jefferson Creek

JC08B: SB, Jefferson Creek Basin between Assawoman canal extensions, access by boat only.

6/16/2005	9:35	Surfc		<i>"Gymnodinioid" sp.</i> (S)	15-25 um Grn	Present	
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6/16/2005	9:35	Surfc		<i>Gyrodinium instriatum</i> (B)		Present	
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SB03B: Anchorage Canal at elbow

6/16/2005	9:46	Surfc		<i>Protoperidinium quinquecorne</i> (B)		Present	
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6/16/2005	9:46	Surfc		<i>Scrippsiella sp.</i> (B)		Present	
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SB10E: SB: Russell Canal east dead end

6/13/2005	8:50	Surfc		<i>"Gymnodinioid" sp.</i> (S)	15-25 um Grn	Present	
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6/13/2005	8:50	Surfc		<i>Prorocentrum minimum</i> (T)		Present	
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6/20/2005	9:50	Surfc		<i>Chattonella cf. verruculosa</i> (T)		Common	0.35
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6/20/2005	9:50	Surfc		<i>Heterosigma akashiwo.</i> (T)		Present	
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6/21/2005	9:12	Surfc		<i>"Gymnodinioid" sp.</i> (S)	15-25 um Grn	Present	
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6/21/2005	9:12	Surfc		<i>Chattonella cf. verruculosa</i> (T)		Present	
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6/21/2005	9:12	Surfc		<i>Chattonella subsalsa</i> (T)		Present	
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6/21/2005	9:12	Surfc		<i>Heterosigma akashiwo.</i> (T)		Present	
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6/21/2005	9:12	Surfc		<i>Protoperidinium quinquecorne</i> (B)		Present	
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SB10W: SB: Russell Canal west dead end

6/13/2005	8:55	Surfc		<i>"Gymnodinioid" sp.</i> (S)	15-25 um Grn	Common	0.14
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6/13/2005	8:55	Surfc		<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
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6/13/2005	8:55	Surfc		<i>Prorocentrum minimum</i> (T)		Common	0.41
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6/13/2005	8:55	Surfc		<i>Protoperidinium quinquecorne</i> (B)		Present	
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6/20/2005	9:55	Surfc		<i>"Gymnodinioid" sp.</i> (S)	15-25 um Grn	Present	
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6/20/2005	9:55	Surfc		<i>Chattonella cf. verruculosa</i> (T)		Present	
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6/20/2005	9:55	Surfc		<i>Chattonella subsalsa</i> (T)		Present	
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6/20/2005	9:55	Surfc		<i>Protoperidinium quinquecorne</i> (B)		Common	0.20
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6/21/2005	9:20	Surfc		<i>Protoperidinium quinquecorne</i> (B)		Present	
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Miller Creek

LA31: Double Bridges road bridge at Plantation Park

6/22/2005	8:39	Surfc			No HABS found		
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LA33B: Camp Barnes dock - by boat

6/16/2005	8:02	Surfc		<i>Gyrodinium instriatum</i> (B)		Present	
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Little Assawoman Bay							
<u>Miller Creek</u>							
LA33B: Camp Barnes dock - by boat	6/16/2005	8:02	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
<u>Williams Creek</u>							
LA21: Williams Creek tributary, bridge on Rd 364a	6/22/2005	8:23	Surfc		No HABs found		
Pepper Creek							
<u>Indian River</u>							
IR46B: Pepper Creek Buoy #1	6/22/2005	9:35	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/22/2005	9:35	Surfc	<i>Chaetoceros sp. (T)</i>		Present	
Rehoboth Bay							
ML: Massey's Landing	6/20/2005	10:32	Surfc		No HABs found		
RB07: West Bay Park	6/21/2005	8:40	Surfc		No HABs found		
RB67B: Rehoboth Bay, Buoy #7A	6/21/2005	11:00	Surfc		No HABs found		
RB68B: Rehoboth Bay, Buoy # 3	6/21/2005	11:15	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/21/2005	11:15	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.	6/21/2005	10:13	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.22
	6/21/2005	10:13	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/21/2005	10:13	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/21/2005	10:13	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/21/2005	10:13	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
RB69: Torquay Canal DNREC site.	6/16/2005	14:15	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Many	3.93
	6/16/2005	14:15	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/16/2005	14:15	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.18
	6/16/2005	14:15	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	6/16/2005	14:15	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)	6/20/2005	10:50	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/20/2005	10:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
RB06: Guinea Creek (Winding Creek Village)	6/20/2005	11:16	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Abundant	29.90
	6/20/2005	11:16	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.26
	6/20/2005	11:16	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	
	6/20/2005	11:16	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	

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Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Rehoboth Bay							
<u>Guinea Creek</u>							
RB06: Guinea Creek (Winding Creek Village)							
	6/20/2005	11:16	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	6/21/2005	10:09	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Many	6.44
	6/21/2005	10:09	Surfc	<i>Chattonella subsalsa (T)</i>		Many	1.34
	6/21/2005	10:09	Surfc	<i>Heterocapsa rotundata (B)</i>		Many	3.68
	6/21/2005	10:09	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
RB06A: Guinea Creek @ Rd 298 Bridge							
	6/20/2005	11:07	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.26
	6/20/2005	11:07	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	6/20/2005	11:00	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.31
	6/20/2005	11:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/20/2005	11:00	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	6/20/2005	11:50	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Many	4.30
	6/20/2005	11:50	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	2.08
	6/20/2005	11:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	
	6/20/2005	11:50	Surfc	<i>Heterosigma akashiwo. (T)</i>		Many	6.62
	6/20/2005	11:50	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	6/20/2005	11:50	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	6/20/2005	11:50	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	6/20/2005	11:50	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	6/21/2005	10:40	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.11
	6/21/2005	10:40	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/21/2005	10:40	Surfc	<i>Gyrodinium instriatum (B)</i>		Abundant	30.80
	6/21/2005	10:40	Surfc	<i>Heterosigma akashiwo. (T)</i>		Abundant	71.70
	6/21/2005	10:40	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
RLC1W: shellfish site, mouth of Love Creek.							
	6/21/2005	11:31	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.10
	6/21/2005	11:31	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/21/2005	11:31	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/21/2005	11:31	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
RLC2S: DNREC site, upper Love Creek							
	6/16/2005	13:30	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.74
	6/16/2005	13:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/16/2005	13:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.15
	6/16/2005	13:30	Surfc	<i>Heterosigma akashiwo. (T)</i>		Abundant	84.30
	6/16/2005	13:30	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	

Name subsripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell.
MCL - Million Cells per Liter. Abundance Levels: Not Found: Looked for, but no cells found; Present: < 0.1 MCL; Common: 0.1 - 1
MCL; Many: 1 - 10 MCL; Abundant: 10 - 100 MCL; Very Abundant: > 100 MCL.

Delaware Inland Bays Citizen Monitoring Program