

Harmful Algae Report

All data from 8/19/2004

Delaware Inland Bays Citizen Monitor Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Assawoman Canal							
IR50: Assawoman Canal at N end, marina dock							
	9/1/2004	9:28	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/1/2004	9:28	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	9/1/2004	9:28	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.41
	9/1/2004	9:28	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	9/1/2004	9:28	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/1/2004	9:28	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/1/2004	9:28	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
JC02B: Canal at junction with southern entrance to S Bethany canals							
	8/24/2004	9:35	.2 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/24/2004	9:35	.2 m	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/24/2004	9:35	.2 m	<i>Heterocapsa rotundata (B)</i>		Present	
	8/24/2004	9:35	.2 m	<i>Heterosigma akashiwo. (T)</i>		Present	
LA10: BB: Assawoman Canal @ Kent Ave Bridge							
	8/23/2004	8:00	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/23/2004	8:00	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	8/23/2004	8:00	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	8/30/2004	8:00	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.11
	8/30/2004	8:00	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/30/2004	8:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/30/2004	8:00	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
LA10B: Canal opposite 26 Waterside Drive							
	8/24/2004	8:46	.2 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.28
	8/24/2004	8:46	.2 m	<i>Gyrodinium instriatum (B)</i>		Present	
	8/24/2004	8:46	.2 m	<i>Heterocapsa rotundata (B)</i>		Present	
	8/24/2004	8:46	.2 m	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/24/2004	8:46	.2 m	<i>Kryptoperidinium foliaceum-1 (B)</i>		Present	
Bethany Loop Canal							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	8/30/2004	9:34	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/30/2004	9:34	Surfc	<i>Chattonella subsalsa (T)</i>		Many	3.60
	8/30/2004	9:34	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	1.35
	8/30/2004	9:34	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Many	1.35
IR64: Bethany Beach canal off dead end at 3rd street East of Evans Rd.							
	9/1/2004	9:16	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	1.00
	9/1/2004	9:16	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.13
	9/1/2004	9:16	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	9/1/2004	9:16	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Many	1.64
Salt Pond							

Name subscripts: (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

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Assawoman Canal							
<u>Salt Pond</u>							
IR66: National Guard Beach							
	8/20/2004	8:45	Surfc	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Present	
	8/20/2004	8:45	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/20/2004	8:45	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/20/2004	8:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/20/2004	8:45	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.41
	8/20/2004	8:45	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	8/20/2004	8:45	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	8/19/2004	15:37	Surfc	<i>Chaetoceros sp. (T)</i>		Present	
	8/19/2004	15:37	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
Indian River							
IR04: Warwick Cove							
	8/30/2004	10:30	Surfc	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Present	
	8/30/2004	10:30	Surfc	<i>Chaetoceros sp. (T)</i>		Common	0.15
IR07: Holt's Landing State Park							
	9/1/2004	9:57	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	9/1/2004	9:57	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/1/2004	9:57	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/1/2004	9:57	Surfc	<i>Kryptoperidinium foliaceum-1 (B)</i>		Present	
IR11: Big Ditch Point							
	8/30/2004	7:15	Surfc	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Present	
IR36B: James Farm, Pasture Point							
	9/1/2004	8:45	Surfc	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Present	
	9/1/2004	8:45	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	9/1/2004	8:45	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	9/1/2004	8:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/1/2004	8:45	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/1/2004	8:45	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	9/1/2004	8:45	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
<u>White Creek</u>							
IR23: Bethany Marina							
	9/1/2004	6:30	Surfc	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Present	
	9/1/2004	6:30	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	9/1/2004	6:30	Surfc	<i>Chaetoceros sp. (T)</i>		Common	
	9/1/2004	6:30	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.26
	9/1/2004	6:30	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	9/1/2004	6:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/1/2004	6:30	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/1/2004	6:30	Surfc	<i>Prorocentrum gracile (B)</i>		Present	
IR32: Holly Terrace Acres							
	8/24/2004	9:10	Surfc	<i>"Gymnodinoid" sp. (S)</i>	10-15 um Grn	Common	

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Indian River							
<u>White Creek</u>							
IR32: Holly Terrace Acres							
	8/24/2004	9:10	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/24/2004	9:10	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.11
	8/24/2004	9:10	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.39
	8/24/2004	9:10	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.88
	8/24/2004	9:10	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/24/2004	9:10	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Common	0.10
	8/24/2004	9:10	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	8/24/2004	9:10	Surfc	<i>Scrippsiella sp. (B)</i>		Many	1.01
	8/24/2004	9:15	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/24/2004	9:15	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/24/2004	9:15	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.63
	8/24/2004	9:15	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.15
	8/24/2004	9:15	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	3.45
	8/24/2004	9:15	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.16
	8/24/2004	9:15	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Common	0.20
	8/24/2004	9:15	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.10
	8/24/2004	9:15	Surfc	<i>Scrippsiella sp. (B)</i>		Many	6.00
	8/26/2004	10:05	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/26/2004	10:05	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.25
	8/26/2004	10:05	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.13
	8/26/2004	10:05	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	1.02
	8/26/2004	10:05	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	8/26/2004	10:05	Surfc	<i>Scrippsiella sp. (B)</i>		Common	0.57
	8/26/2004	10:10	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/26/2004	10:10	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.22
	8/26/2004	10:10	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/26/2004	10:10	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	2.22
	8/26/2004	10:10	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/26/2004	10:10	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Common	0.20
	8/26/2004	10:10	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	8/26/2004	10:10	Surfc	<i>Scrippsiella sp. (B)</i>		Many	2.55
	8/30/2004	9:38	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.15
	8/30/2004	9:38	Surfc	<i>Chaetoceros sp. (T)</i>		Common	
	8/30/2004	9:38	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Many	4.50
	8/30/2004	9:38	Surfc	<i>Chattonella subsalsa (T)</i>		Abundant	15.75
	8/30/2004	9:38	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.28
	8/30/2004	9:38	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.22
	8/30/2004	9:38	Surfc	<i>Prorocentrum gracile (B)</i>		Present	
	8/30/2004	9:38	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	8/30/2004	9:38	Surfc	<i>Scrippsiella sp. (B)</i>		Many	1.13
	8/30/2004	9:45	.2 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	

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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							
	8/30/2004	9:45	.2 m	<i>Chattonella cf. verruculosa (T)</i>		Many	4.10
	8/30/2004	9:45	.2 m	<i>Chattonella subsalsa (T)</i>		Abundant	10.30
	8/30/2004	9:45	.2 m	<i>Gyrodinium instriatum (B)</i>		Common	0.49
	8/30/2004	9:45	.2 m	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/30/2004	9:45	.2 m	<i>Kryptoperidinium foliaceum-1 (B)</i>		Present	
	8/30/2004	9:45	.2 m	<i>Prorocentrum gracile (B)</i>		Present	
	8/30/2004	9:45	.2 m	<i>Prorocentrum minimum (T)</i>		Present	
	8/30/2004	9:45	.2 m	<i>Protoperidinium quinquecorne (B)</i>		Present	
	8/30/2004	9:45	.2 m	<i>Scrippsiella sp. (B)</i>		Common	0.31
	8/30/2004	9:50	.6 m	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/30/2004	9:50	.6 m	<i>Chattonella subsalsa (T)</i>		Common	0.21
	8/30/2004	9:50	.6 m	<i>Gyrodinium instriatum (B)</i>		Common	0.76
	8/30/2004	9:50	.6 m	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/30/2004	9:50	.6 m	<i>Scrippsiella sp. (B)</i>		Common	0.54
	8/31/2004	9:55	Surfc	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Present	
	8/31/2004	9:55	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/31/2004	9:55	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Many	1.46
	8/31/2004	9:55	Surfc	<i>Chattonella subsalsa (T)</i>		Many	3.00
	8/31/2004	9:55	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	1.23
	8/31/2004	9:55	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.32
	8/31/2004	9:55	Surfc	<i>Prorocentrum gracile (B)</i>		Present	
	8/31/2004	9:55	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	8/31/2004	9:55	Surfc	<i>Scrippsiella sp. (B)</i>		Many	1.15
	9/1/2004	9:45	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Abundant	11.35
	9/1/2004	9:45	Surfc	<i>Chattonella subsalsa (T)</i>		Many	5.85
	9/1/2004	9:45	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	9/1/2004	9:45	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	5.05
	9/1/2004	9:45	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.63
	9/1/2004	9:45	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Common	
	9/1/2004	9:45	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	9/1/2004	9:45	Surfc	<i>Scrippsiella sp. (B)</i>		Many	2.85
	9/2/2004	9:10	Surfc	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Present	
	9/2/2004	9:10	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.28
	9/2/2004	9:10	Surfc	<i>Chattonella subsalsa (T)</i>		Common	
	9/2/2004	9:10	Surfc	<i>Gyrodinium instriatum (B)</i>		Abundant	18.00
	9/2/2004	9:10	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/2/2004	9:10	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Common	0.35
	9/2/2004	9:10	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	9/2/2004	9:10	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	9/2/2004	9:10	Surfc	<i>Scrippsiella sp. (B)</i>		Many	4.50
	9/2/2004	9:15	Surfc	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Present	

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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							
	9/2/2004	9:15	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.11
	9/2/2004	9:15	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.44
	9/2/2004	9:15	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	9/2/2004	9:15	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.47
	9/2/2004	9:15	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/2/2004	9:15	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.10
	9/2/2004	9:15	Surfc	<i>Scrippsiella sp. (B)</i>		Common	0.19
WC15: White Creek - west prong near Food Lion							
	9/1/2004	9:42	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/1/2004	9:42	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
Lewes - Rehoboth Canal							
RB02: Lewes - Rehoboth Canal at Lewes							
	8/24/2004	8:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/24/2004	8:35	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/24/2004	8:35	Surfc	<i>Prorocentrum lima (T)</i>		Present	
	8/31/2004	8:40	Surfc	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Present	
	8/31/2004	8:40	Surfc	<i>Ditylum sp. (T)</i>		Present	
	8/31/2004	8:40	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
Little Assawoman Bay							
LA15B: Red channel marker #12							
	8/30/2004	10:03	Surfc	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Present	
	8/30/2004	10:03	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/30/2004	10:03	Surfc	<i>Chaetoceros sp. (T)</i>		Common	0.28
LA35B: Red Channel marker #28, across from Miller Creek							
	8/24/2004	9:18	.2 m	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Common	0.21
	8/24/2004	9:18	.2 m	<i>Akashiwo sanguineum (B)</i>		Present	
	8/24/2004	9:18	.2 m	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/24/2004	9:18	.2 m	<i>Chattonella subsalsa (T)</i>		Present	
	8/24/2004	9:18	.2 m	<i>Heterocapsa rotundata (B)</i>		Present	
	8/24/2004	9:18	.2 m	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/30/2004	9:50	Surfc	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Present	
	8/30/2004	9:50	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
LA42B: Narrows, South of state beach at point							
	8/30/2004	9:55	Surfc	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Present	
	8/30/2004	9:55	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
LA-8: Fenwick Ditch @ Harpoon Hannah's							
	8/25/2004	11:00	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/25/2004	11:00	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/25/2004	11:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	8/24/2004	8:40	Surfc	<i>"Gymnodinoid" sp. (S)</i>	15-25 um Grn	Common	0.14

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Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Little Assawoman Bay							
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	8/24/2004	8:40	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/24/2004	8:40	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/30/2004	8:20	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.11
	8/30/2004	8:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/30/2004	8:20	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/30/2004	8:20	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	8/30/2004	8:20	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	8/31/2004	9:05	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
LA20: Swann Keys: boat ramp at S end of Blue Teal Rd							
	8/23/2004	8:53	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.25
	8/23/2004	8:53	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/23/2004	8:53	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.21
	8/23/2004	8:53	Surfc	<i>Scrippsiella sp. (B)</i>		Common	0.21
	8/30/2004	8:35	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.13
LA22B: Dirickson Creek upper section between Williams Creek and the LA09, mid channel near duck blind.							
	8/30/2004	10:12	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/30/2004	10:12	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
<u>Jefferson Creek</u>							
JC01B: Jefferson Creek upstream of canals; by boat							
	8/24/2004	10:00	.2 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.14
	8/24/2004	10:00	.2 m	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/24/2004	10:00	.2 m	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/24/2004	10:00	.2 m	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	8/24/2004	10:00	.2 m	<i>Protoperidinium quinquecorne (B)</i>		Present	
	8/24/2004	10:00	.2 m	<i>Scrippsiella sp. (B)</i>		Present	
	8/24/2004	10:00	.2 m	<i>Unknown flagellate (B)</i>	5-10 um 'kidney bean'	Abundant	22.50
JC04B: South Bethany Jefferson Creek Basin, W of JC08 & defined by GPS; by boat							
	8/23/2004	10:30	.2 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.26
	8/23/2004	10:30	.2 m	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/23/2004	10:30	.2 m	<i>Chattonella subsalsa (T)</i>		Present	
	8/23/2004	10:30	.2 m	<i>Heterocapsa rotundata (B)</i>		Present	
	8/23/2004	10:30	.2 m	<i>Heterosigma akashiwo. (T)</i>		Many	1.18
	8/23/2004	10:30	.2 m	<i>Protoperidinium quinquecorne (B)</i>		Present	
	8/23/2004	10:30	.2 m	<i>Scrippsiella sp. (B)</i>		Present	
	8/23/2004	10:30	.2 m	<i>Unknown flagellate (B)</i>	5-10 um 'kidney bean'	Abundant	45.00
JC08B: SB, Jefferson Creek Basin between Assawoman canal extensions, access by boat only.							
	8/23/2004	10:12	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/23/2004	10:12	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
JC09B: Jefferson Creek lower end at marsh behind McCabe's							
	8/24/2004	9:42	.2 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/24/2004	9:42	.2 m	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Present	

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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
Little Assawoman Bay							
<u>Jefferson Creek</u>							
JC09B: Jefferson Creek lower end at marsh behind McCabe's							
	8/24/2004	9:42	.2 m	<i>Protoperidinium quinquecorne</i> (B)		Present	
	8/24/2004	9:42	.2 m	<i>Scrippsiella sp.</i> (B)		Present	
SB03B: Anchorage Canal at elbow							
	8/23/2004	10:22	Surfc	<i>"Gymnodinioid" sp.</i> (S)	15-25 um Grn	Present	
	8/23/2004	10:22	Surfc	<i>Heterosigma akashiwo.</i> (T)		Present	
	8/23/2004	10:22	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
SB10E: SB: Russell Canal east dead end							
	8/23/2004	8:28	Surfc	<i>"Gymnodinioid" sp.</i> (S)	15-25 um Grn	Common	0.10
	8/23/2004	8:28	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	8/23/2004	8:28	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.21
	8/23/2004	8:28	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	8/23/2004	8:28	Surfc	<i>Heterosigma akashiwo.</i> (T)		Common	0.68
	8/23/2004	8:28	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	8/23/2004	8:28	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	8/23/2004	8:28	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
	8/26/2004	9:45	Surfc	<i>"Gymnodinioid" sp.</i> (S)	15-25 um Grn	Common	0.35
	8/26/2004	9:45	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	8/26/2004	9:45	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/26/2004	9:45	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/26/2004	9:45	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Common	0.57
	8/26/2004	9:45	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Common	0.20
	8/26/2004	9:45	Surfc	<i>Unknown flagellate</i> (B)	5-10 um 'kidney bean'	Abundant	81.00
	8/30/2004	9:06	Surfc	<i>"Gymnodinioid" sp.</i> (S)	15-25 um Grn	Common	0.15
	8/30/2004	9:06	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	8/30/2004	9:06	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/30/2004	9:06	Surfc	<i>Heterosigma akashiwo.</i> (T)		Present	
	8/30/2004	9:06	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	8/30/2004	9:06	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
	9/2/2004	8:06	Surfc	<i>"Gymnodinioid" sp.</i> (S)	15-25 um Grn	Common	0.40
	9/2/2004	8:06	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Many	6.80
	9/2/2004	8:06	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	9/2/2004	8:06	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.13
	9/2/2004	8:06	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.10
	9/2/2004	8:06	Surfc	<i>Heterosigma akashiwo.</i> (T)		Common	0.19
	9/2/2004	8:06	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Common	0.45
	9/2/2004	8:06	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Common	0.10
SB10W: SB: Russell Canal west dead end							
	8/23/2004	8:35	Surfc	<i>"Gymnodinioid" sp.</i> (S)	15-25 um Grn	Present	
	8/23/2004	8:35	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	8/23/2004	8:35	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	8/26/2004	9:35	.6 m	<i>"Gymnodinioid" sp.</i> (S)	15-25 um Grn	Common	0.28
	8/26/2004	9:35	.6 m	<i>Chattonella subsalsa</i> (T)		Present	

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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
Little Assawoman Bay							
<u>Jefferson Creek</u>							
SB10W: SB: Russell Canal west dead end							
	8/26/2004	9:35	.6 m	<i>Gyrodinium instriatum</i> (B)		Present	
	8/26/2004	9:35	.6 m	<i>Heterocapsa rotundata</i> (B)		Present	
	8/26/2004	9:35	.6 m	<i>Heterosigma akashiwo</i> . (T)		Present	
	8/26/2004	9:35	.6 m	<i>Kryptoperidinium foliaceum-2</i> (B)		Common	0.13
	8/26/2004	9:35	.6 m	<i>Protoperidinium quinquecorne</i> (B)		Common	0.10
	8/26/2004	9:35	.6 m	<i>Unknown flagellate</i> (B)	5-10 um 'kidney bean'	Abundant	44.00
	8/30/2004	9:22	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Common	0.28
	8/30/2004	9:22	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	8/30/2004	9:22	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/30/2004	9:22	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.11
	8/30/2004	9:22	Surfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.29
	8/30/2004	9:22	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Common	0.22
	8/30/2004	9:25	.6 m	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Common	0.25
	8/30/2004	9:25	.6 m	" <i>Gymnodinioid</i> " sp. (S)	10-15 um Grn	Present	
	8/30/2004	9:25	.6 m	<i>Heterocapsa rotundata</i> (B)		Common	0.10
	8/30/2004	9:25	.6 m	<i>Kryptoperidinium foliaceum-2</i> (B)		Common	0.51
	8/30/2004	9:25	.6 m	<i>Protoperidinium quinquecorne</i> (B)		Present	
	9/2/2004	8:14	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Common	0.14
	9/2/2004	8:14	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/2/2004	8:14	Surfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.13
	9/2/2004	8:14	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
<u>Miller Creek</u>							
LA31: Double Bridges road bridge at Plantation Park							
	8/23/2004	9:20	Surfc		No HABS found		
LA33B: Camp Barnes dock - by boat							
	8/30/2004	9:42	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Common	0.22
	8/30/2004	9:42	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
<u>Williams Creek</u>							
LA21: Williams Creek tributary, bridge on Rd 364a							
	8/23/2004	9:10	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
Rehoboth Bay							
ML: Massey's Landing							
	8/30/2004	9:00	Surfc	<i>Amphidinium</i> sp. (T)		Present	
RB07: West Bay Park							
	9/1/2004	10:55	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	9/1/2004	10:55	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/1/2004	10:55	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
	8/24/2004	10:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/24/2004	10:00	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	

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Delaware Inland Bays Citizen Monitoring Program

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Rehoboth Bay							
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
	8/24/2004	10:00	Surfc	<i>Prorocentrum gracile (B)</i>		Present	
	8/24/2004	10:00	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	8/24/2004	10:00	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	9/2/2004	9:50	Surfc	<i>Akashiwo sanguineum (B)</i>		Common	0.22
	9/2/2004	9:50	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/2/2004	9:50	Surfc	<i>Chattonella subsalsa (T)</i>		Many	3.00
	9/2/2004	9:50	Surfc	<i>Ditylum sp. (T)</i>		Present	
	9/2/2004	9:50	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	9/2/2004	9:50	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	9/2/2004	9:50	Surfc	<i>Scrippsiella sp. (B)</i>		Common	0.47
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	8/30/2004	11:10	Surfc	<i>Ditylum sp. (T)</i>		Present	
RB05D: Ditch at Potnets Creekside, mouth of Guinea Creek							
	8/30/2004	11:20	Surfc		No HABs found		
RB06: Guinea Creek (Winding Creek Village)							
	8/30/2004	11:40	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.14
	8/30/2004	11:40	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/30/2004	11:40	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.10
	8/30/2004	11:40	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
RB06A: Guinea Creek @ Rd 298 Bridge							
	8/31/2004	10:50	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/31/2004	10:50	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
RB60: Community Dock at Creek's End							
	8/25/2004	10:00	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/25/2004	10:00	Surfc	<i>Akashiwo sanguineum (B)</i>		Common	0.10
	8/25/2004	10:00	Surfc	<i>Chaetoceros sp. (T)</i>		Present	
	8/25/2004	10:00	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/25/2004	10:00	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/25/2004	10:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/25/2004	10:00	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/25/2004	10:00	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	8/30/2004	12:00	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/30/2004	12:00	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/30/2004	12:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
RB40: Burton Prong							
	8/31/2004	8:00	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/31/2004	8:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/31/2004	8:00	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	

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Rehoboth Bay							
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	8/23/2004	9:00	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	8/23/2004	9:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Many	2.35
	8/23/2004	9:00	Surfc	<i>Heterosigma akashiwo</i> . (T)		Many	7.63
	8/23/2004	9:00	Surfc	<i>Kryptoperidinium foliaceum-1</i> (B)		Present	
	8/23/2004	9:00	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Common	0.26
	8/23/2004	9:00	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	8/23/2004	14:00	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.10
	8/23/2004	14:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Abundant	16.05
	8/23/2004	14:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/23/2004	14:00	Surfc	<i>Heterosigma akashiwo</i> . (T)		Many	4.95
	8/23/2004	14:00	Surfc	<i>Kryptoperidinium foliaceum-1</i> (B)		Many	1.06
	8/23/2004	14:00	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Common	0.82
	8/23/2004	14:00	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	8/23/2004	14:00	Surfc	<i>Scrippsiella</i> sp. (B)		Present	

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