

FLOW Plankton Monitoring Program Report

Time 2:00 PM
Date 2-Sep-16
Collectors erry D, Nicole, Jessica, Chie
Location Tidal Inlet
Tide outgoing
Weather/Wind Sunny / 9 mph NW
Water T (deg C) 20
Salinity 37 ppt
pH 8
Ammonia 0.25 ppm
Phosphates 0.0 ppm
Nitrates 0.0 ppm
CDPH Bottle # not sent

Plankton Observed in Sample

	<u>Species/genera/groups</u>	<u>Est. Relative Abundance (Low, High)</u>
Diatoms	Asterionella	
	Astemphalus	
	Bacteriastrum	L
	Chaetoceros	L
	Coscinodiscus	
	Ditylum	
	Eucampia	
	Ginardia striata	L
	Hemiaulus	
	Lauderia	
	Leptocylindrus	
	Licmophora	
	Lithodesmium	
	Melosira	
	Navicula	
	Nitzschia	L
	Odontella	
	Pleurosigma	
	Pseudonitzschia	
	Rhizosolenia	L
Skeletonema		
Thalassiosira		
Thalassionema		
Thalassionthrix		
Dinoflagellates	Akashiwo	L
	Alexandrium	
	Ceratium furca	L
	Ceratium fusus	
	Ceratium lineatum	
	Ceratium macroceros	
	Cochlodinium	
Dinophysis	L	

Gonyalax
Lingoludinium
Noctiluca
Oxytoxum
Prorocentrum micans L
Protooperidinium L
Scrippsiella

Silicaflagellate Dictyocha

Other

Summary

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Yes/No

Other:

FLOW Plankton Monitoring Program Report

Time 2:20 PM
Date 2-Sep-16
Collectors Sharon, Jessica, Gemma
Location Wetlands Footbridge
Tide outgoing
Weather/Wind light breeze southwest
Water T (deg C) 21
Salinity 35 ppt
pH 7.8
Ammonia 0.2 ppm
Phosphates 0.1 ppm
Nitrates 0
CDPH Bottle #

Plankton Observed in Sample

	<u>Species/genera/groups</u>	<u>Est. Relative Abundance (Low, High)</u>
Diatoms	Asterionella	
	Astemphalus	
	Bacteriastrum	
	Chaetoceros	L
	Coscinodiscus	L
	Ditylum	
	Eucampia	
	Ginardia striata	
	Hemiaulus	
	Lauderia	
	Leptocylindrus	
	Licmophora	
	Lithodesmium	
	Melosira	
	Navicula	
	Nitzschia	H
	Odontella	
	Pleurosigma	L
	Pseudonitzschia	
	Rhizosolenia	
Skeletonema		
Thalassiosira		
Thalassionema		
Thalassionthrix		
Unidentified	L	
Dinoflagellates	Akashiwo	
	Alexandrium	
	Ceratium furca	
	Ceratium fusus	
	Ceratium lineatum	
	Ceratium macroceros	
Cochlodinium		

Dinophysis
Gonyalax
Lingoludinium
Noctiluca
Oxytoxum
Prorocentrum micans
Proto-peridinium
Scrippsiella
Unidentified

L

Silicaflagellate Dictyocha

Other

Summary

Yes/No

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

FLOW Plankton Monitoring Program Report

Time 10:00 AM
Date 9-Sep-16
Collectors Gwen, Chie
Location Inlet
Tide incoming
Weather/Wind sunny cloudy / sw winds
Water T (deg C) 65 F = 18 C
Salinity 34 ppt
pH 8
Ammonia 0.125 ppm
Phosphates 0.125 ppm
Nitrates 0.25 ppm
CDPH Bottle # 5024

Plankton Observed in Sample

	<u>Species/genera/groups</u>	<u>Est. Relative Abundance (Low, High)</u>
Diatoms	Asterionella	
	Astemphalus	
	Bacteriastrum	
	Chaetoceros	L
	Coscinodiscus	L
	Ditylum	
	Eucampia	
	Ginardia striata	L
	Hemiaulus	
	Lauderia	
	Leptocylindrus	L
	Licmophora	
	Lithodesmium	
	Melosira	L
	Navicula	
	Nitzschia	
	Odontella	
	Pleurosigma	
	Pseudonitzschia	L
	Rhizosolenia	
Skeletonema		
Thalassiosira		
Thalassionema		
Thalassionthrix		
Dinoflagellates	Akashiwo	
	Alexandrium	
	Ceratium furca	L
	Ceratium fusus	
	Ceratium lineatum	L
	Ceratium macroceros	
	Cochlodinium	
Dinophysis		

Gonyalax
Lingoludinium
Noctiluca
Oxytoxum
Prorocentrum micans H
Protooperidinium L
Scrippsiella

Silicaflagellate Dictyocha

Other

Summary

Yes/No

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

FLOW Plankton Monitoring Program Report

Time	10:35 AM
Date	9-Sep-16
Collectors	Terry et al
Location	Wetlands
Tide	incoming
Weather/Wind	clear/ breeze from NW
Water T (deg C)	21 C
Salinity	34 ppt
pH	7.8
Ammonia	0.25 ppm
Phosphates	0.25 ppm
Nitrates	0
CDPH Bottle #	

Plankton Observed in Sample

	<u>Species/genera/groups</u>	<u>Est. Relative Abundance (Low, High)</u>
Diatoms	Asterionella	
	Astemphalus	
	Bacteriastrum	
	Chaetoceros	
	Coscinodiscus	
	Ditylum	
	Eucampia	
	Ginardia striata	
	Hemiaulus	
	Lauderia	
	Leptocylindrus	
	Licmophora	
	Lithodesmium	
	Melosira	
	Navicula	
	Nitzschia	
	Odontella	
	Pleurosigma	
	Pseudonitzschia	
	Rhizosolenia	
	Skeletonema	
	Thalassiosira	
	Thalassionema	
	Thalassionthrix	
Dinoflagellates	Akashiwo	
	Alexandrium	
	Ceratium furca	
	Ceratium fusus	
	Ceratium lineatum	
	Ceratium macroceros	
	Cochlodinium	
	Dinophysis	
	Gonyalax	
	Lingoludinium	
	Noctiluca	

Oxytoxum
Prorocentrum micans
Protoperidinium
Scrippsiella

Silicaflagellate Dictyocha

Other

NOTE: "no activity"

Summary

Yes/No

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

FLOW Plankton Monitoring Program Report

Time	2:00 PM
Date	16-Sep-16
Collectors	Gwen, Chie et al
Location	Inlet
Tide	strong outgoing
Weather/Wind	sunny/sw
Water T (deg C)	18 C
Salinity	36 ppt
pH	8
Ammonia	0
Phosphates	0
Nitrates	0
CDPH Bottle #	6180

Plankton Observed in Sample

	<u>Species/genera/groups</u>	<u>Est. Relative Abundance (Low, High)</u>
Diatoms	Asterionella	
	Astemphalus	
	Bacteriastrum	
	Chaetoceros	H
	Coscinodiscus	
	Ditylum	
	Eucampia	
	Ginardia striata	L
	Hemiaulus	
	Lauderia	
	Leptocylindrus	
	Licmophora	
	Lithodesmium	
	Melosira	
	Navicula	
	Nitzschia	L
	Odontella	
	Pleurosigma	
	Pseudonitzschia	L
	Rhizosolenia	L
	Skeletonema	
	Thalassiosira	L
	Thalassionema	
	Thalassionthrix	
Dinoflagellates	Akashiwo	
	Alexandrium	
	Ceratium furca	L
	Ceratium fusus	
	Ceratium lineatum	
	Ceratium macroceros	
	Cochlodinium	
	Dinophysis	
	Gonyalax	
	Lingoludinium	
	Noctiluca	

Oxytoxum	
Prorocentrum micans	L
Protoperidinium	L
Scrippsiella	H

Silicaflagellate Dictyocha

Other centric diatom, radiolarian cousin

Summary

Yes/No

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

FLOW Plankton Monitoring Program Report

Time	2:27 AM
Date	16-Sep-16
Collectors	Terry et al
Location	Wetlands
Tide	high/outgoing
Weather/Wind	clear w/breeze from west
Water T (deg C)	21 C
Salinity	35 ppt
pH	8
Ammonia	0.25 ppm
Phosphates	0
Nitrates	0
CDPH Bottle #	

Plankton Observed in Sample

	<u>Species/genera/groups</u>	<u>Est. Relative Abundance (Low, High)</u>
Diatoms	Asterionella	
	Astemphalus	
	Bacteriastrum	
	Chaetoceros	
	Coscinodiscus	
	Ditylum	
	Eucampia	
	Ginardia striata	
	Hemiaulus	
	Lauderia	
	Leptocylindrus	
	Licmophora	
	Lithodesmium	
	Melosira	
	Navicula	
	Nitzschia	
	Odontella	
	Pleurosigma	
	Pseudonitzschia	
	Rhizosolenia	
	Skeletonema	
	Thalassiosira	
	Thalassionema	
	Thalassionthrix	
Dinoflagellates	Akashiwo	
	Alexandrium	
	Ceratium furca	
	Ceratium fusus	
	Ceratium lineatum	
	Ceratium macroceros	
	Cochlodinium	
	Dinophysis	
	Gonyalax	
	Lingoludinium	
	Noctiluca	

Oxytoxum
Prorocentrum micans
Protoperidinium
Scrippsiella

Silicaflagellate Dictyocha

Note: none recorded

Other

Summary

Yes/No

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

FLOW Plankton Monitoring Program Report

Time 9:20 AM
Date 23-Sep-16
Collectors Jerry Donohue, Gwen Noda
Location inlet
Tide slack tide
Weather/Wind light breeze, variable
Water T (deg C) 16 C
Salinity 36 ppt
pH 8
Ammonia 0
Phosphates 0
Nitrates 0
CDPH Bottle # collected not recorded

Plankton Observed in Sample

	<u>Species/genera/groups</u>	<u>Est. Relative Abundance (Low, High)</u>
Diatoms	Asterionella	
	Astemphalus	
	Bacteriastrum	
	Chaetoceros	L
	Coscinodiscus	
	Ditylum	
	Eucampia	
	Ginardia striata	
	Hemiaulus	
	Lauderia	
	Leptocylindrus	
	Licmophora	
	Lithodesmium	
	Melosira	
	Navicula	
	Nitzschia	
	Odontella	
	Pleurosigma	
	Pseudonitzschia	6
	Rhizosolenia	
Skeletonema		
Thalassiosira		
Thalassionema		
Thalassionthrix		
Dinoflagellates	Akashiwo	
	Alexandrium	
	Ceratium furca	
	Ceratium fusus	
	Ceratium lineatum	
	Ceratium macroceros	
	Cochlodinium	
	Dinophysis	L
	Gonyalax	L
	Lingoludinium	
Noctiluca		

Oxytoxum
Prorocentrum micans L
Protoperidinium L
Scrippsiella

Silicaflagellate Dictyocha

Other

Summary

Yes/No

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

FLOW Plankton Monitoring Program Report

Time	9:23 AM
Date	23-Sep-16
Collectors	Nicole, Kevin, Derrick
Location	Wetland
Tide	high & outgoing
Weather/Wind	breezy/west
Water T (deg C)	19 C
Salinity	36 ppt
pH	7.8
Ammonia	0.25 ppm
Phosphates	0.25 ppm
Nitrates	0
CDPH Bottle #	

Plankton Observed in Sample

	<u>Species/genera/groups</u>	<u>Est. Relative Abundance (Low, High)</u>
Diatoms	Asterionella	
	Astemphalus	
	Bacteriastrum	
	Chaetoceros	
	Coscinodiscus	
	Ditylum	
	Eucampia	
	Ginardia striata	
	Hemiaulus	
	Lauderia	
	Leptocylindrus	
	Licmophora	
	Lithodesmium	
	Melosira	
	Navicula	
	Nitzschia	
	Odontella	
	Pleurosigma	
	Pseudonitzschia	
	Rhizosolenia	
	Skeletonema	
	Thalassiosira	
	Thalassionema	
	Thalassionthrix	
Dinoflagellates	Akashiwo	
	Alexandrium	
	Ceratium furca	
	Ceratium fusus	
	Ceratium lineatum	
	Ceratium macroceros	
	Cochlodinium	
	Dinophysis	
	Gonyalax	
	Lingoludinium	
	Noctiluca	

Oxytoxum
Prorocentrum micans
Proto-peridinium
Scrippsiella

Silicaflagellate Dictyocha

Other

Note: no info recorded

Summary

Yes/No

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

FLOW Plankton Monitoring Program Report

Time 2:00 PM
Date 30-Sep-16
Collectors oana, Joanna, Jeanne, Chie
Location Inlet
Tide outgoing 1-5 ft
Weather/Wind sunny/nw 15 mph
Water T (deg C) 20 C (68 F)
Salinity 35 ppt
pH 7.8
Ammonia 0
Phosphates 0
Nitrates 0
CDPH Bottle # 5024

Plankton Observed in Sample

	<u>Species/genera/groups</u>	<u>Est. Relative Abundance (Low, High)</u>
Diatoms	Asterionella	
	Astemphalus	
	Bacteriastrum	
	Chaetoceros	L
	Coscinodiscus	
	Ditylum	
	Eucampia	
	Ginardia striata	L
	Hemiaulus	
	Lauderia	
	Leptocylindrus	
	Licmophora	
	Lithodesmium	
	Melosira	
	Navicula	
	Nitzschia	
	Odontella	
	Pleurosigma	
	Pseudonitzschia	L
	Rhizosolenia	L
	Skeletonema	
Thalassiosira		
Thalassionema		
Thalassionthrix		
Dinoflagellates	Akashiwo	
	Alexandrium	
	Ceratium furca	L
	Ceratium fusus	
	Ceratium lineatum	
	Ceratium macroceros	
	Cochlodinium	
	Dinophysis	L
	Gonyalax	L
	Lingoludinium	
Noctiluca		

Oxytoxum
Prorocentrum micans H
Protoperidinium
Scrippsiella

Silicaflagellate Dictyocha

Other assorted zooplankton H

Summary Yes/No
Water Conditions (T, S, pH and nutrients) were within expected ranges?
Other:

FLOW Plankton Monitoring Program Report

Time	2:20 PM
Date	30-Sep-16
Collectors	Terry et al
Location	wetlands
Tide	no entry
Weather/Wind	clear/west
Water T (deg C)	22 C
Salinity	34 ppt
pH	8
Ammonia	0.25 ppm
Phosphates	0.25 ppm
Nitrates	0
CDPH Bottle #	no

Plankton Observed in Sample

	<u>Species/genera/groups</u>	<u>Est. Relative Abundance (Low, High)</u>
Diatoms	Asterionella	
	Astemphalus	
	Bacteriastrum	
	Chaetoceros	
	Coscinodiscus	
	Ditylum	
	Eucampia	
	Ginardia striata	
	Hemiaulus	
	Lauderia	
	Leptocylindrus	
	Licmophora	
	Lithodesmium	
	Melosira	
	Navicula	
	Nitzschia	HH
	Odontella	
	Pleurosigma	
	Pseudonitzschia	
	Rhizosolenia	
	Skeletonema	
	Thalassiosira	
	Thalassionema	
	Thalassionthrix	
Dinoflagellates	Akashiwo	
	Alexandrium	
	Ceratium furca	
	Ceratium fusus	
	Ceratium lineatum	
	Ceratium macroceros	
	Cochlodinium	
	Dinophysis	
	Gonyalax	
	Lingoludinium	
	Noctiluca	

Oxytoxum
Prorocentrum micans
Protoperidinium
Scrippsiella

Silicaflagellate Dictyocha

Other zooplankton L
trichodesmia HH

Summary

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

Yes/No