

FLOW Plankton Monitoring Program Report

Time 9:59 AM
Date 26-Aug-16
Collectors Jerry
Location Inlet
Tide outgoing
Weather/Wind overcast / 5 mph S
Water T (deg C) 18
Salinity 35 ppt
pH 8.2
Ammonia 0
Phosphates 0.5
Nitrates 0
CDPH Bottle # 5051

Hemiaulus

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 | |
| | Hemiaulus | |
| | Lauderia | |
| | Leptocylindrus | |
| | Licmophora | |
| | Lithodesmium | |
| | Melosira | |
| | Navicula | L |
| | Nitzschia | L |
| | Odontella | |
| | Pleurosigma | |
| | Pseudonitzschia | |
| | 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 L
Protooperidinium
Scrippsiella

Silicaflagellate Dictyocha L

Other Copepod L
Bactenastrum L
Radiolarian L

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 26-Aug-16
Collectors Terry, Chie
Location Wetlands *report is labeled "footbridge" but does not have a bottle # whereas the other report for this day has a bottle # so must be from the tidal inlet -JL
Tide High outgoing
Weather/Wind Overcast, 10 mph S
Water T (deg C) 20
Salinity 38
pH 8.2
Ammonia 0
Phosphates 0.25
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 | L |
| | Nitzschia | L |
| | Odontella | |
| | Pleurosigma | L |
| | 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

Summary

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

Other:

Yes/No

FLOW Plankton Monitoring Program Report

Time 9:50 AM
Date 19-Aug-16
Collectors Gwen Noda et al
Location Tidal Inlet
Tide Strong incoming movement
Weather/Wind Sunny, brisk, constant breeze
Water T (deg C) 18
Salinity 36 ppt
pH 7.8
Ammonia 0
Phosphates 0.25 ppm
Nitrates 0
CDPH Bottle # 4810

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 | L |
| | Lauderia | |
| | Leptocylindrus | |
| | Licmophora | |
| | Lithodesmium | |
| | Melosira | |
| | Navicula | H |
| | Nitzschia | L |
| | Odontella | L |
| | Pleurosigma | L |
| | Pseudonitzschia | |
| | Rhizosolenia | L |
| Skeletonema | | |
| Thalassiosira | | |
| Thalassionema | | |
| Thalassionthrix | | |
| Dinoflagellates | Akashiwo | H |
| | Alexandrium | |
| | Ceratium furca | L |
| | Ceratium fusus | |
| | Ceratium lineatum | L |
| | Ceratium macroceros | |
| | Cochlodinium | |
| Dinophysis | L | |

| | |
|----------------------------|---|
| Gonyalax | L |
| Lingoludinium | |
| Noctiluca | |
| Oxytoxum | L |
| Prorocentrum micans | L |
| Protooperidium | L |
| Scrippsiella | |

| | | |
|-------------------------|------------------|---|
| Silicaflagellate | Dictyocha | L |
|-------------------------|------------------|---|

| | | |
|--------------|-----------------------------|---|
| Other | Radiolarian | L |
| | Dinoflagellate cyst - dorma | L |
| | cochliodinium | L |
| | gymnogenealis | L |
| | ? | L |

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 | 19-Aug-16 |
| Collectors | Gwen Noda et al |
| Location | Wetlands |
| Tide | low |
| Weather/Wind | indiscernible |
| Water T (deg C) | 20 |
| Salinity | 37 ppt |
| pH | 7.8 |
| Ammonia | <.25 ppm |
| Phosphates | .25 ppm |
| Nitrates | 0 |
| CDPH Bottle # | n/a |

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 | L |
| | Hemiaulus | |
| | Lauderia | |
| | Leptocylindrus | |
| | Licmophora | |
| | Lithodesmium | |
| | Melosira | |
| | Navicula | L |
| | Nitzschia | H |
| | Odontella | |
| | Pleurosigma | |
| | Pseudonitzschia | L |
| | Rhizosolenia | |
| Skeletonema | | |
| Thalassiosira | | |
| Thalassionema | | |
| Thalassionthrix | | |
| Dinoflagellates | Akashiwo | |
| | Alexandrium | |
| | Ceratium furca | |
| | Ceratium fusus | |
| | Ceratium lineatum | |
| | Ceratium macroceros | |
| | Cochlodinium | |
| | Dinophysis | H |
| | Gonyalax | |
| | Lingoludinium | |
| Noctiluca | | |

Oxytoxum
Prorocentrum micans
Protoperidinium
Scrippsiella

HH
L
L

Silicaflagellate Dictyocha

Other

Summary

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

Other:

Yes/No

FLOW Plankton Monitoring Program Report

| | |
|-----------------|------------|
| Time | 9:40 AM |
| Date | 12-Aug-16 |
| Collectors | Gwen, Bill |
| Location | inlet |
| Tide | outgoing |
| Weather/Wind | |
| Water T (deg C) | 68 deg F |
| Salinity | 35 ppt |
| pH | 8 |
| Ammonia | 0 |
| Phosphates | 0 |
| Nitrates | 0 |
| CDPH Bottle # | 1000.? |

Plankton Observed in Sample (no report)

| | <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

Summary

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

Other:

Yes/No

FLOW Plankton Monitoring Program Report

Time 9:35 AM
Date 12-Aug-16
Collectors Terry
Location Wetlands
Tide outgoing
Weather/Wind partially cloudy lt w wd from north
Water T (deg C) 21
Salinity
pH 8
Ammonia .25 ppm
Phosphates .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 many zooplankton copepods, naulilii, radiolarian

Summary

Yes/No

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

Other:

FLOW Plankton Monitoring Program Report

Time 9:50 AM
Date 5-Aug-16
Collectors Gwen Noda, Nancy Boyd-Betstone
Location Inlet
Tide incoming
Weather/Wind cloudy/constant breeze
Water T (deg C) 19.5
Salinity 36
pH 8.2
Ammonia 0
Phosphates 0
Nitrates
CDPH Bottle # 6084

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 ? | L |
| | Lithodesmium | |
| | Melosira | |
| | Navicula | |
| | Nitzschia | |
| | Odontella | |
| | Pleurosigma | |
| | Pseudonitzschia | L |
| | 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

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 no report
Date
Collectors
Location
Tide
Weather/Wind
Water T (deg C)
Salinity
pH
Ammonia
Phosphates
Nitrates
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

Summary

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

Other:

Yes/No