FLOW Plankton Monitoring Program Report
Month: Jan   Year: 2014

Date	01/03/2014
Location	Tidal Inlet ☒ Wetland ☐
Time	1:48 PM
Collectors	Justin, Sandy
Tide	Going Out ☒ Slack ☐ Coming In ☐ NA ☐
Water T (°C)	16
Salinity (ppt)	34
Weather/ wind	Overcast with fog, wind nil, strong tide flow
pH	7.8
Ammonia	0.0
Nitrate	0.00
Phosphate	0.25
CDPH Bottle #	04916

List of plankton observed in sample

	Species/ genera/ groups	Estimated relative abundance*		
Diatoms	Asterionella	Low ☐	High ☐	Dominant ☐
	Astemphalus	Low ☐	High ☐	Dominant ☐
	Bacteriastrum	Low ☐	High ☐	Dominant ☐
	Chaetoceros	Low ☐	High ☒	Dominant ☐
	Coscinodiscus	Low ☒	High ☐	Dominant ☐
	Ditylum	Low ☐	High ☐	Dominant ☐
	Eucampia	Low ☐	High ☐	Dominant ☐
	Ginardia	Low ☒	High ☐	Dominant ☐
	Hemiaulus	Low ☐	High ☐	Dominant ☐
	Lauderia	Low ☐	High ☐	Dominant ☐
	Leptocylindrus	Low ☐	High ☐	Dominant ☐
	Licmophora	Low ☐	High ☐	Dominant ☐
	Lithodesmium	Low ☐	High ☐	Dominant ☐
	Melosira	Low ☐	High ☐	Dominant ☐
	Navicula	Low ☒	High ☐	Dominant ☐
	Nitzschia	Low ☒	High ☐	Dominant ☐
	Odontella	Low ☒	High ☐	Dominant ☐
	Pleurosigma	Low ☐	High ☐	Dominant ☐
	Pseudonitzschia	Low ☐	High ☒	Dominant ☐
	Rhizosolenia	Low ☐	High ☐	Dominant ☐
	Skeletonema	Low ☐	High ☐	Dominant ☐
	Thalassiosira	Low ☐	High ☐	Dominant ☐
	Thalassionema	Low ☐	High ☐	Dominant ☐
	Thalassiothrix	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐

Dinoflagellates		Low	High	Dominant
Dinoflagellates	Akashiwo	☐	☐	☒
	Alexandrium	☐	☐	☐
	Ceratium divaricatum	☐	☐	☐
	Ceratium furca	☐	☒	☐
	Ceratium fusus	☐	☒	☐
	Ceratium lineatum	☐	☐	☐
	Ceratium macroceros	☐	☒	☐
	Ceratium sp. (other)	☐	☐	☐
	Cochlodinium	☐	☐	☐
	Dinophysis acuminata	☐	☐	☐
	Dinophysis caudata	☒	☐	☐
	Dinophysis fortii	☐	☐	☐
	Gonyaulax	☐	☐	☐
	Lingoludinium	☒	☐	☐
	Noctiluca	☐	☐	☐
	Oxytoxum	☐	☐	☐
	Prorocentrum micans	☒	☐	☐
	Protoperidinium	☐	☐	☐
	Scrippsiella	☐	☐	☐
	Dictyocha	☒	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
Other groups	Dictyocha	☐	☐	☐
	Tintinnids	☐	☐	☐
	Radiolaria	☐	☐	☐
	Copepods	☐	☐	☐
	Crustacean larvae (nauplii/zoea)	☐	☐	☐
	Fish larvae/ eggs	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Summary

Water conditions (T, S, pH and nutrients) were within expected ranges ☒ /not within expected ranges ☐

Comparison with previous week(s):

Other Notes:

*No quantitative analysis/ Relative abundance is estimated visually and represents a general sense of which plankton groups seem to be present in higher amounts when compared to other groups.

FLOW Plankton Monitoring Program Report
Month: Jan   Year: 2014

Date	01/10/2014
Location	Tidal Inlet ☒ Wetland ☐
Time	9:52 AM
Collectors	Dennis, Terry, Tami
Tide	Going Out ☒ Slack ☐ Coming In ☐ NA ☐
Water T (°C)	16
Salinity (ppt)	35
Weather/ wind	Sunny, clear with light breeze
pH	8.0
Ammonia	0.00
Nitrate	0.00
Phosphate	0.00
CDPH Bottle #	05029

List of plankton observed in sample

	Species/ genera/ groups	Estimated relative abundance*		
Diatoms	Asterionella	Low ☐	High ☐	Dominant ☐
	Astemphalus	Low ☐	High ☐	Dominant ☐
	Bacteriastrum	Low ☐	High ☐	Dominant ☐
	Chaetoceros	Low ☒	High ☐	Dominant ☐
	Coscinodiscus	Low ☒	High ☐	Dominant ☐
	Ditylum	Low ☐	High ☐	Dominant ☐
	Eucampia	Low ☐	High ☐	Dominant ☐
	Ginardia	Low ☐	High ☐	Dominant ☐
	Hemiaulus	Low ☐	High ☐	Dominant ☐
	Lauderia	Low ☐	High ☐	Dominant ☐
	Leptocylindrus	Low ☐	High ☐	Dominant ☐
	Licmophora	Low ☐	High ☐	Dominant ☐
	Lithodesmium	Low ☐	High ☐	Dominant ☐
	Melosira	Low ☐	High ☐	Dominant ☐
	Navicula	Low ☒	High ☐	Dominant ☐
	Nitzschia	Low ☒	High ☐	Dominant ☐
	Odontella	Low ☐	High ☐	Dominant ☐
	Pleurosigma	Low ☐	High ☐	Dominant ☐
	Pseudonitzschia	Low ☒	High ☐	Dominant ☐
	Rhizosolenia	Low ☐	High ☐	Dominant ☐
	Skeletonema	Low ☒	High ☐	Dominant ☐
	Thalassiosira	Low ☐	High ☐	Dominant ☐
	Thalassionema	Low ☐	High ☐	Dominant ☐
	Thalassiothrix	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐

		Low	High	Dominant
Dinoflagellates	Akashiwo	Low ☐	High ☒	Dominant ☐
	Alexandrium	Low ☐	High ☐	Dominant ☐
	Ceratium divaricatum	Low ☐	High ☐	Dominant ☐
	Ceratium furca	Low ☐	High ☐	Dominant ☐
	Ceratium fusus	Low ☐	High ☐	Dominant ☐
	Ceratium lineatum	Low ☐	High ☐	Dominant ☐
	Ceratium macroceros	Low ☒	High ☐	Dominant ☐
	Ceratium sp. (other)	Low ☐	High ☐	Dominant ☐
	Cochlodinium	Low ☐	High ☐	Dominant ☐
	Dinophysis acuminata	Low ☐	High ☐	Dominant ☐
	Dinophysis caudata	Low ☐	High ☐	Dominant ☐
	Dinophysis fortii	Low ☐	High ☐	Dominant ☐
	Gonyaulax	Low ☐	High ☐	Dominant ☐
	Lingoludinium	Low ☐	High ☐	Dominant ☐
	Noctiluca	Low ☐	High ☐	Dominant ☐
	Oxytoxum	Low ☐	High ☐	Dominant ☐
	Prorocentrum micans	Low ☐	High ☐	Dominant ☐
	Protoperidinium	Low ☐	High ☒	Dominant ☐
	Scrippsiella	Low ☐	High ☐	Dominant ☐
	Dictyocha	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Other groups	Dictyocha	Low ☐	High ☐	Dominant ☐
	Tintinnids	Low ☒	High ☐	Dominant ☐
	Radiolaria	Low ☐	High ☐	Dominant ☐
	Copepods	Low ☐	High ☐	Dominant ☐
	Crustacean larvae (nauplii/zoea)	Low ☒	High ☐	Dominant ☐
	Fish larvae/ eggs	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Summary	Water conditions (T, S, pH and nutrients) were within expected ranges ☒ /not within expected ranges ☐ Comparison with previous week(s): Other Notes:			

*No quantitative analysis/ Relative abundance is estimated visually and represents a general sense of which plankton groups seem to be present in higher amounts when compared to other groups.

FLOW Plankton Monitoring Program Report
Month: Jan   Year: 2014

Date	01/17/2014
Location	Tidal Inlet ☒ Wetland ☐
Time	2:00 PM
Collectors	Arthur, Dennis
Tide	Going Out ☒ Slack ☐ Coming In ☐ NA ☐
Water T (°C)	16
Salinity (ppt)	32
Weather/ wind	Clear, moderate wind
pH	7.9
Ammonia	0.13
Nitrate	0.00
Phosphate	0.00
CDPH Bottle #	05056

List of plankton observed in sample		
	Species/ genera/ groups	**Estimated relative abundance***
Diatoms	Asterionella	Low ☐ High ☐ Dominant ☐
	Astemphalus	Low ☐ High ☐ Dominant ☐
	Bacteriastrum	Low ☐ High ☐ Dominant ☐
	Chaetoceros	Low ☐ High ☐ Dominant ☐
	Coscinodiscus	Low ☐ High ☐ Dominant ☐
	Ditylum	Low ☐ High ☐ Dominant ☐
	Eucampia	Low ☐ High ☐ Dominant ☐
	Ginardia	Low ☐ High ☐ Dominant ☐
	Hemiaulus	Low ☐ High ☐ Dominant ☐
	Lauderia	Low ☐ High ☐ Dominant ☐
	Leptocylindrus	Low ☐ High ☐ Dominant ☐
	Licmophora	Low ☐ High ☐ Dominant ☐
	Lithodesmium	Low ☐ High ☐ Dominant ☐
	Melosira	Low ☐ High ☐ Dominant ☐
	Navicula	Low ☐ High ☐ Dominant ☐
	Nitzschia	Low ☐ High ☐ Dominant ☐
	Odontella	Low ☐ High ☐ Dominant ☐
	Pleurosigma	Low ☐ High ☐ Dominant ☐
	Pseudonitzschia	Low ☒ High ☐ Dominant ☐
	Rhizosolenia	Low ☐ High ☐ Dominant ☐
	Skeletonema	Low ☐ High ☐ Dominant ☐
	Thalassiosira	Low ☐ High ☐ Dominant ☐
	Thalassionema	Low ☐ High ☐ Dominant ☐
	Thalassiothrix	Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐

Dinoflagellates	Akashiwo	Low ☐	High ☒	Dominant ☐
	Alexandrium	Low ☐	High ☐	Dominant ☐
	Ceratium divaricatum	Low ☐	High ☐	Dominant ☐
	Ceratium furca	Low ☐	High ☐	Dominant ☐
	Ceratium fusus	Low ☒	High ☐	Dominant ☐
	Ceratium lineatum	Low ☐	High ☐	Dominant ☐
	Ceratium macroceros	Low ☐	High ☐	Dominant ☐
	Ceratium sp. (other)	Low ☐	High ☐	Dominant ☐
	Cochlodinium	Low ☐	High ☐	Dominant ☐
	Dinophysis acuminata	Low ☐	High ☐	Dominant ☐
	Dinophysis caudata	Low ☒	High ☐	Dominant ☐
	Dinophysis fortii	Low ☐	High ☐	Dominant ☐
	Gonyaulax	Low ☐	High ☐	Dominant ☐
	Lingoludinium	Low ☐	High ☐	Dominant ☐
	Noctiluca	Low ☐	High ☐	Dominant ☐
	Oxytoxum	Low ☐	High ☐	Dominant ☐
	Prorocentrum micans	Low ☐	High ☐	Dominant ☐
	Protoperidinium	Low ☐	High ☐	Dominant ☐
	Scrippsiella	Low ☐	High ☐	Dominant ☐
	Dictyocha	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Other groups	Dictyocha	Low ☐	High ☐	Dominant ☐
	Tintinnids	Low ☐	High ☐	Dominant ☐
	Radiolaria	Low ☐	High ☐	Dominant ☐
	Copepods	Low ☐	High ☐	Dominant ☐
	Crustacean larvae (nauplii/zoea)	Low ☐	High ☐	Dominant ☐
	Fish larvae/ eggs	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐

Summary

Water conditions (T, S, pH and nutrients) were within expected ranges ☒
/not within expected ranges ☐

Comparison with previous week(s):

Other Notes:

*No quantitative analysis/ Relative abundance is estimated visually and represents
a general sense of which plankton groups seem to be present in higher amounts
when compared to other groups.

FLOW Plankton Monitoring Program Report
Month: Jan   Year: 2014

Date	01/24/2014			
Location	Tidal Inlet ☒ Wetland ☐			
Time	10:05 AM			
Collectors	Sandy, Belen, Jim			
Tide	Going Out ☒ Slack ☐ Coming In ☐ NA ☐			
Water T (°C)	16			
Salinity (ppt)	33			
Weather/ wind	Cloudy, cold, slight wind			
pH	8.2			
Ammonia	0.25			
Nitrate	0.00			
Phosphate	0.25			
CDPH Bottle #	04914			
List of plankton observed in sample				
	Species/ genera/ groups	**Estimated relative abundance***		
Diatoms	Asterionella	Low ☐	High ☐	Dominant ☐
	Astemphalus	Low ☐	High ☐	Dominant ☐
	Bacteriastrum	Low ☐	High ☐	Dominant ☐
	Chaetoceros	Low ☒	High ☐	Dominant ☐
	Coscinodiscus	Low ☐	High ☐	Dominant ☐
	Ditylum	Low ☐	High ☐	Dominant ☐
	Eucampia	Low ☐	High ☐	Dominant ☐
	Ginardia	Low ☒	High ☐	Dominant ☐
	Hemiaulus	Low ☐	High ☐	Dominant ☐
	Lauderia	Low ☐	High ☐	Dominant ☐
	Leptocylindrus	Low ☒	High ☐	Dominant ☐
	Licmophora	Low ☐	High ☐	Dominant ☐
	Lithodesmium	Low ☐	High ☐	Dominant ☐
	Melosira	Low ☐	High ☐	Dominant ☐
	Navicula	Low ☐	High ☐	Dominant ☐
	Nitzschia	Low ☐	High ☐	Dominant ☐
	Odontella	Low ☐	High ☐	Dominant ☐
	Pleurosigma	Low ☐	High ☐	Dominant ☐
	Pseudonitzschia	Low ☐	High ☐	Dominant ☐
	Rhizosolenia	Low ☒	High ☐	Dominant ☐
	Skeletonema	Low ☐	High ☐	Dominant ☐
	Thalassiosira	Low ☐	High ☐	Dominant ☐
	Thalassionema	Low ☐	High ☐	Dominant ☐
	Thalassiothrix	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐

		Low	High	Dominant
Dinoflagellates	Akashiwo	Low ☐	High ☐	Dominant ☒
	Alexandrium	Low ☐	High ☒	Dominant ☐
	Ceratium divaricatum	Low ☐	High ☐	Dominant ☐
	Ceratium furca	Low ☐	High ☐	Dominant ☐
	Ceratium fusus	Low ☒	High ☐	Dominant ☐
	Ceratium lineatum	Low ☒	High ☐	Dominant ☐
	Ceratium macroceros	Low ☐	High ☐	Dominant ☐
	Ceratium sp. (other)	Low ☐	High ☐	Dominant ☐
	Cochlodinium	Low ☐	High ☐	Dominant ☐
	Dinophysis acuminata	Low ☐	High ☐	Dominant ☐
	Dinophysis caudata	Low ☐	High ☐	Dominant ☐
	Dinophysis fortii	Low ☐	High ☐	Dominant ☐
	Gonyaulax	Low ☐	High ☐	Dominant ☐
	Lingoludinium	Low ☐	High ☐	Dominant ☐
	Noctiluca	Low ☐	High ☐	Dominant ☐
	Oxytoxum	Low ☐	High ☐	Dominant ☐
	Prorocentrum micans	Low ☒	High ☐	Dominant ☐
	Protoperidinium	Low ☐	High ☐	Dominant ☐
	Scrippsiella	Low ☐	High ☐	Dominant ☐
	Dictyocha	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Other groups	Dictyocha	Low ☐	High ☐	Dominant ☐
	Tintinnids	Low ☐	High ☐	Dominant ☐
	Radiolaria	Low ☐	High ☐	Dominant ☐
	Copepods	Low ☐	High ☐	Dominant ☐
	Crustacean larvae (nauplii/zoea)	Low ☐	High ☐	Dominant ☐
	Fish larvae/ eggs	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Summary	Water conditions (T, S, pH and nutrients) were within expected ranges ☒ /not within expected ranges ☐ Comparison with previous week(s): Other Notes:			

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a general sense of which plankton groups seem to be present in higher amounts
when compared to other groups.

FLOW Plankton Monitoring Program Report
Month: Jan   Year: 2014

Date	01/31/2014
Location	Tidal Inlet ☒ Wetland ☐
Time	2:00 PM
Collectors	Sandy, Belen, Dennis, Justin, Sandra, Elika
Tide	Going Out ☒ Slack ☐ Coming In ☐ NA ☐
Water T (°C)	61
Salinity (ppt)	32
Weather/ wind	Cold, strong onshore wind, overcast
pH	8.0
Ammonia	0.00
Nitrate	0.00
Phosphate	0.25
CDPH Bottle #	06043

List of plankton observed in sample		
	Species/ genera/ groups	**Estimated relative abundance***
Diatoms	Asterionella	Low ☐ High ☐ Dominant ☐
	Astemphalus	Low ☐ High ☐ Dominant ☐
	Bacteriastrum	Low ☐ High ☐ Dominant ☐
	Chaetoceros	Low ☒ High ☐ Dominant ☐
	Coscinodiscus	Low ☐ High ☐ Dominant ☐
	Ditylum	Low ☐ High ☐ Dominant ☐
	Eucampia	Low ☐ High ☐ Dominant ☐
	Ginardia	Low ☒ High ☐ Dominant ☐
	Hemiaulus	Low ☐ High ☐ Dominant ☐
	Lauderia	Low ☐ High ☐ Dominant ☐
	Leptocylindrus	Low ☐ High ☐ Dominant ☐
	Licmophora	Low ☐ High ☐ Dominant ☐
	Lithodesmium	Low ☐ High ☐ Dominant ☐
	Melosira	Low ☐ High ☐ Dominant ☐
	Navicula	Low ☒ High ☐ Dominant ☐
	Nitzschia	Low ☒ High ☐ Dominant ☐
	Odontella	Low ☐ High ☐ Dominant ☐
	Pleurosigma	Low ☐ High ☐ Dominant ☐
	Pseudonitzschia	Low ☐ High ☐ Dominant ☐
	Rhizosolenia	Low ☐ High ☐ Dominant ☐
	Skeletonema	Low ☐ High ☐ Dominant ☐
	Thalassiosira	Low ☐ High ☐ Dominant ☐
	Thalassionema	Low ☐ High ☐ Dominant ☐
	Thalassiothrix	Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐

Dinoflagellates	Akashiwo	Low ☐	High ☒	Dominant ☐
	Alexandrium	Low ☒	High ☐	Dominant ☐
	Ceratium divaricatum	Low ☐	High ☐	Dominant ☐
	Ceratium furca	Low ☐	High ☐	Dominant ☐
	Ceratium fusus	Low ☐	High ☐	Dominant ☐
	Ceratium lineatum	Low ☐	High ☐	Dominant ☐
	Ceratium macroceros	Low ☐	High ☐	Dominant ☐
	Ceratium sp. (other)	Low ☐	High ☐	Dominant ☐
	Cochlodinium	Low ☒	High ☐	Dominant ☐
	Dinophysis acuminata	Low ☐	High ☐	Dominant ☐
	Dinophysis caudata	Low ☐	High ☒	Dominant ☐
	Dinophysis fortii	Low ☐	High ☐	Dominant ☐
	Gonyaulax	Low ☐	High ☐	Dominant ☐
	Lingoludinium	Low ☐	High ☐	Dominant ☐
	Noctiluca	Low ☐	High ☐	Dominant ☐
	Oxytoxum	Low ☐	High ☐	Dominant ☐
	Prorocentrum micans	Low ☐	High ☒	Dominant ☐
	Protoperidinium	Low ☐	High ☒	Dominant ☐
	Scrippsiella	Low ☐	High ☐	Dominant ☐
	Dictyocha	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Other groups	Dictyocha	Low ☒	High ☐	Dominant ☐
	Tintinnids	Low ☐	High ☐	Dominant ☐
	Radiolaria	Low ☐	High ☐	Dominant ☐
	Copepods	Low ☐	High ☐	Dominant ☐
	Crustacean larvae (nauplii/zoea)	Low ☐	High ☐	Dominant ☐
	Fish larvae/ eggs	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐

Summary

Water conditions (T, S, pH and nutrients) were within expected ranges ☒ /not within expected ranges ☐

Comparison with previous week(s):

Other Notes:

*No quantitative analysis/ Relative abundance is estimated visually and represents a general sense of which plankton groups seem to be present in higher amounts when compared to other groups.

FLOW Plankton Monitoring Program Report
Month: Jan   Year: 2014

Date	01/03/2014
Location	Tidal Inlet ☐ Wetland ☒
Time	1:58 PM
Collectors	Dennis, Arthur
Tide	Going Out ☒ Slack ☐ Coming In ☐ NA ☐
Water T (°C)	16
Salinity (ppt)	33
Weather/ wind	Foggy with slight winds
pH	7.4
Ammonia	0.00
Nitrate	0.00
Phosphate	0.00
CDPH Bottle #	n/a

List of plankton observed in sample		
	Species/ genera/ groups	**Estimated relative abundance***
Diatoms	Asterionella	Low ☐ High ☐ Dominant ☐
	Astemphalus	Low ☐ High ☐ Dominant ☐
	Bacteriastrum	Low ☐ High ☐ Dominant ☐
	Chaetoceros	Low ☐ High ☐ Dominant ☐
	Coscinodiscus	Low ☐ High ☐ Dominant ☐
	Ditylum	Low ☐ High ☐ Dominant ☐
	Eucampia	Low ☐ High ☐ Dominant ☐
	Ginardia	Low ☐ High ☐ Dominant ☐
	Hemiaulus	Low ☐ High ☐ Dominant ☐
	Lauderia	Low ☐ High ☐ Dominant ☐
	Leptocylindrus	Low ☐ High ☐ Dominant ☐
	Licmophora	Low ☐ High ☐ Dominant ☐
	Lithodesmium	Low ☐ High ☐ Dominant ☐
	Melosira	Low ☐ High ☐ Dominant ☐
	Navicula	Low ☒ High ☐ Dominant ☐
	Nitzschia	Low ☒ High ☐ Dominant ☐
	Odontella	Low ☐ High ☐ Dominant ☐
	Pleurosigma	Low ☐ High ☐ Dominant ☐
	Pseudonitzschia	Low ☐ High ☐ Dominant ☐
	Rhizosolenia	Low ☐ High ☐ Dominant ☐
	Skeletonema	Low ☐ High ☐ Dominant ☐
	Thalassiosira	Low ☐ High ☐ Dominant ☐
	Thalassionema	Low ☐ High ☐ Dominant ☐
	Thalassiothrix	Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐

Dinoflagellates	Akashiwo	Low ☒	High ☐	Dominant ☐
	Alexandrium	Low ☐	High ☐	Dominant ☐
	Ceratium divaricatum	Low ☐	High ☐	Dominant ☐
	Ceratium furca	Low ☐	High ☐	Dominant ☐
	Ceratium fusus	Low ☐	High ☐	Dominant ☐
	Ceratium lineatum	Low ☐	High ☐	Dominant ☐
	Ceratium macroceros	Low ☐	High ☐	Dominant ☐
	Ceratium sp. (other)	Low ☐	High ☐	Dominant ☐
	Cochlodinium	Low ☐	High ☐	Dominant ☐
	Dinophysis acuminata	Low ☐	High ☐	Dominant ☐
	Dinophysis caudata	Low ☐	High ☐	Dominant ☐
	Dinophysis fortii	Low ☐	High ☐	Dominant ☐
	Gonyaulax	Low ☐	High ☐	Dominant ☐
	Lingoludinium	Low ☐	High ☐	Dominant ☐
	Noctiluca	Low ☐	High ☐	Dominant ☐
	Oxytoxum	Low ☐	High ☐	Dominant ☐
	Prorocentrum micans	Low ☐	High ☐	Dominant ☐
	Protoperidinium	Low ☐	High ☐	Dominant ☐
	Scrippsiella	Low ☐	High ☐	Dominant ☐
	Dictyocha	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Other groups	Dictyocha	Low ☐	High ☐	Dominant ☐
	Tintinnids	Low ☐	High ☐	Dominant ☐
	Radiolaria	Low ☐	High ☐	Dominant ☐
	Copepods	Low ☐	High ☐	Dominant ☐
	Crustacean larvae (nauplii/zoea)	Low ☐	High ☐	Dominant ☐
	Fish larvae/ eggs	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Summary	Water conditions (T, S, pH and nutrients) were within expected ranges ☒ /not within expected ranges ☐ Comparison with previous week(s): Other Notes:			

*No quantitative analysis/ Relative abundance is estimated visually and represents a general sense of which plankton groups seem to be present in higher amounts when compared to other groups.

FLOW Plankton Monitoring Program Report
Month: Jan   Year: 2014

Date	01/10/2014
Location	Tidal Inlet ☐ Wetland ☒
Time	10:00 PM
Collectors	Arthur, Justin, Jim
Tide	Going Out ☐ Slack ☐ Coming In ☐ NA ☐
Water T (°C)	15
Salinity (ppt)	35
Weather/ wind	Cool and sunny
pH	7.8
Ammonia	0.25
Nitrate	0.00
Phosphate	0.00
CDPH Bottle #	n/a

List of plankton observed in sample		
	Species/ genera/ groups	**Estimated relative abundance***
Diatoms	Asterionella	Low ☐ High ☐ Dominant ☐
	Astemphalus	Low ☐ High ☐ Dominant ☐
	Bacteriastrum	Low ☐ High ☐ Dominant ☐
	Chaetoceros	Low ☐ High ☐ Dominant ☐
	Coscinodiscus	Low ☐ High ☐ Dominant ☐
	Ditylum	Low ☐ High ☐ Dominant ☐
	Eucampia	Low ☐ High ☐ Dominant ☐
	Ginardia	Low ☐ High ☐ Dominant ☐
	Hemiaulus	Low ☐ High ☐ Dominant ☐
	Lauderia	Low ☐ High ☐ Dominant ☐
	Leptocylindrus	Low ☐ High ☐ Dominant ☐
	Licmophora	Low ☐ High ☐ Dominant ☐
	Lithodesmium	Low ☐ High ☐ Dominant ☐
	Melosira	Low ☐ High ☐ Dominant ☐
	Navicula	Low ☒ High ☐ Dominant ☐
	Nitzschia	Low ☒ High ☐ Dominant ☐
	Odontella	Low ☐ High ☐ Dominant ☐
	Pleurosigma	Low ☒ High ☐ Dominant ☐
	Pseudonitzschia	Low ☐ High ☐ Dominant ☐
	Rhizosolenia	Low ☐ High ☐ Dominant ☐
	Skeletonema	Low ☐ High ☐ Dominant ☐
	Thalassiosira	Low ☐ High ☐ Dominant ☐
	Thalassionema	Low ☐ High ☐ Dominant ☐
	Thalassiothrix	Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐

Dinoflagellates	Akashiwo	Low ☐	High ☐	Dominant ☐
	Alexandrium	Low ☐	High ☐	Dominant ☐
	Ceratium divaricatum	Low ☐	High ☐	Dominant ☐
	Ceratium furca	Low ☐	High ☐	Dominant ☐
	Ceratium fusus	Low ☐	High ☐	Dominant ☐
	Ceratium lineatum	Low ☐	High ☐	Dominant ☐
	Ceratium macroceros	Low ☐	High ☐	Dominant ☐
	Ceratium sp. (other)	Low ☐	High ☐	Dominant ☐
	Cochlodinium	Low ☐	High ☐	Dominant ☐
	Dinophysis acuminata	Low ☐	High ☐	Dominant ☐
	Dinophysis caudata	Low ☐	High ☐	Dominant ☐
	Dinophysis fortii	Low ☐	High ☐	Dominant ☐
	Gonyaulax	Low ☐	High ☐	Dominant ☐
	Lingoludinium	Low ☐	High ☐	Dominant ☐
	Noctiluca	Low ☐	High ☐	Dominant ☐
	Oxytoxum	Low ☐	High ☐	Dominant ☐
	Prorocentrum micans	Low ☐	High ☐	Dominant ☐
	Protoperidinium	Low ☐	High ☐	Dominant ☐
	Scrippsiella	Low ☐	High ☐	Dominant ☐
	Dictyocha	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Other groups	Dictyocha	Low ☐	High ☐	Dominant ☐
	Tintinnids	Low ☐	High ☐	Dominant ☐
	Radiolaria	Low ☐	High ☐	Dominant ☐
	Copepods	Low ☐	High ☐	Dominant ☐
	Crustacean larvae (nauplii/zoea)	Low ☐	High ☐	Dominant ☐
	Fish larvae/ eggs	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Summary	Water conditions (T, S, pH and nutrients) were within expected ranges ☒ /not within expected ranges ☐ Comparison with previous week(s): Other Notes:			

*No quantitative analysis/ Relative abundance is estimated visually and represents
a general sense of which plankton groups seem to be present in higher amounts
when compared to other groups.

FLOW Plankton Monitoring Program Report
Month: Jan   Year: 2014

Date	01/17/2014
Location	Tidal Inlet ☐ Wetland ☒
Time	2:00 PM
Collectors	Jerry and Terry
Tide	Going Out ☐ Slack ☐ Coming In ☐ NA ☐
Water T (°C)	17
Salinity (ppt)	32
Weather/ wind	Sunny, light breeze
pH	8.0
Ammonia	0.00
Nitrate	0.00
Phosphate	0.25
CDPH Bottle #	n/a

List of plankton observed in sample		
	Species/ genera/ groups	**Estimated relative abundance***
Diatoms	Asterionella	Low ☐ High ☐ Dominant ☐
	Astemphalus	Low ☐ High ☐ Dominant ☐
	Bacteriastrum	Low ☐ High ☐ Dominant ☐
	Chaetoceros	Low ☐ High ☐ Dominant ☐
	Coscinodiscus	Low ☐ High ☐ Dominant ☐
	Ditylum	Low ☐ High ☐ Dominant ☐
	Eucampia	Low ☐ High ☐ Dominant ☐
	Ginardia	Low ☐ High ☐ Dominant ☐
	Hemiaulus	Low ☐ High ☐ Dominant ☐
	Lauderia	Low ☐ High ☐ Dominant ☐
	Leptocylindrus	Low ☐ High ☐ Dominant ☐
	Licmophora	Low ☐ High ☐ Dominant ☐
	Lithodesmium	Low ☐ High ☐ Dominant ☐
	Melosira	Low ☐ High ☐ Dominant ☐
	Navicula	Low ☐ High ☐ Dominant ☐
	Nitzschia	Low ☐ High ☐ Dominant ☐
	Odontella	Low ☐ High ☐ Dominant ☐
	Pleurosigma	Low ☐ High ☒ Dominant ☐
	Pseudonitzschia	Low ☐ High ☐ Dominant ☐
	Rhizosolenia	Low ☐ High ☐ Dominant ☐
	Skeletonema	Low ☐ High ☐ Dominant ☐
	Thalassiosira	Low ☐ High ☐ Dominant ☐
	Thalassionema	Low ☐ High ☐ Dominant ☐
	Thalassiothrix	Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐

Dinoflagellates	Akashiwo	Low ☐	High ☐	Dominant ☐
	Alexandrium	Low ☐	High ☐	Dominant ☐
	Ceratium divaricatum	Low ☐	High ☐	Dominant ☐
	Ceratium furca	Low ☐	High ☐	Dominant ☐
	Ceratium fusus	Low ☐	High ☐	Dominant ☐
	Ceratium lineatum	Low ☐	High ☐	Dominant ☐
	Ceratium macroceros	Low ☐	High ☐	Dominant ☐
	Ceratium sp. (other)	Low ☐	High ☐	Dominant ☐
	Cochlodinium	Low ☐	High ☐	Dominant ☐
	Dinophysis acuminata	Low ☐	High ☐	Dominant ☐
	Dinophysis caudata	Low ☐	High ☐	Dominant ☐
	Dinophysis fortii	Low ☐	High ☐	Dominant ☐
	Gonyaulax	Low ☐	High ☐	Dominant ☐
	Lingoludinium	Low ☐	High ☐	Dominant ☐
	Noctiluca	Low ☐	High ☐	Dominant ☐
	Oxytoxum	Low ☐	High ☐	Dominant ☐
	Prorocentrum micans	Low ☐	High ☐	Dominant ☐
	Protoperidinium	Low ☐	High ☐	Dominant ☐
	Scrippsiella	Low ☐	High ☐	Dominant ☐
	Dictyocha	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Other groups	Dictyocha	Low ☐	High ☐	Dominant ☐
	Tintinnids	Low ☐	High ☐	Dominant ☐
	Radiolaria	Low ☐	High ☐	Dominant ☐
	Copepods	Low ☐	High ☐	Dominant ☐
	Crustacean larvae (nauplii/zoea)	Low ☐	High ☐	Dominant ☐
	Fish larvae/ eggs	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Summary	Water conditions (T, S, pH and nutrients) were within expected ranges ☒ /not within expected ranges ☐ Comparison with previous week(s): Other Notes: Five net pulls rather than normal 10.			

*No quantitative analysis/ Relative abundance is estimated visually and represents a general sense of which plankton groups seem to be present in higher amounts when compared to other groups.

FLOW Plankton Monitoring Program Report
Month: Jan   Year: 2014

Date	01/24/2014
Location	Tidal Inlet ☐ Wetland ☒
Time	10:05 AM
Collectors	Sandy, Belen, Jim
Tide	Going Out ☒ Slack ☐ Coming In ☐ NA ☐
Water T (°C)	16
Salinity (ppt)	31
Weather/ wind	Haze
pH	8.1
Ammonia	0.25
Nitrate	0.00
Phosphate	0.00
CDPH Bottle #	n/a

List of plankton observed in sample		
	Species/ genera/ groups	**Estimated relative abundance***
Diatoms	Asterionella	Low ☐ High ☐ Dominant ☐
	Astemphalus	Low ☐ High ☐ Dominant ☐
	Bacteriastrum	Low ☐ High ☐ Dominant ☐
	Chaetoceros	Low ☐ High ☐ Dominant ☐
	Coscinodiscus	Low ☐ High ☐ Dominant ☐
	Ditylum	Low ☐ High ☐ Dominant ☐
	Eucampia	Low ☐ High ☐ Dominant ☐
	Ginardia	Low ☐ High ☐ Dominant ☐
	Hemiaulus	Low ☐ High ☐ Dominant ☐
	Lauderia	Low ☐ High ☐ Dominant ☐
	Leptocylindrus	Low ☐ High ☐ Dominant ☐
	Licmophora	Low ☐ High ☐ Dominant ☐
	Lithodesmium	Low ☐ High ☐ Dominant ☐
	Melosira	Low ☐ High ☐ Dominant ☐
	Navicula	Low ☐ High ☐ Dominant ☐
	Nitzschia	Low ☐ High ☐ Dominant ☐
	Odontella	Low ☐ High ☐ Dominant ☐
	Pleurosigma	Low ☐ High ☐ Dominant ☐
	Pseudonitzschia	Low ☐ High ☐ Dominant ☐
	Rhizosolenia	Low ☐ High ☐ Dominant ☐
	Skeletonema	Low ☐ High ☐ Dominant ☐
	Thalassiosira	Low ☐ High ☐ Dominant ☐
	Thalassionema	Low ☐ High ☐ Dominant ☐
	Thalassiothrix	Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐

Dinoflagellates	Akashiwo	Low ☐	High ☐	Dominant ☐
	Alexandrium	Low ☐	High ☐	Dominant ☐
	Ceratium divaricatum	Low ☐	High ☐	Dominant ☐
	Ceratium furca	Low ☐	High ☐	Dominant ☐
	Ceratium fusus	Low ☐	High ☐	Dominant ☐
	Ceratium lineatum	Low ☐	High ☐	Dominant ☐
	Ceratium macroceros	Low ☐	High ☐	Dominant ☐
	Ceratium sp. (other)	Low ☐	High ☐	Dominant ☐
	Cochlodinium	Low ☐	High ☐	Dominant ☐
	Dinophysis acuminata	Low ☐	High ☐	Dominant ☐
	Dinophysis caudata	Low ☐	High ☐	Dominant ☐
	Dinophysis fortii	Low ☐	High ☐	Dominant ☐
	Gonyaulax	Low ☐	High ☐	Dominant ☐
	Lingoludinium	Low ☐	High ☐	Dominant ☐
	Noctiluca	Low ☐	High ☐	Dominant ☐
	Oxytoxum	Low ☐	High ☐	Dominant ☐
	Prorocentrum micans	Low ☐	High ☐	Dominant ☐
	Protoperidinium	Low ☐	High ☐	Dominant ☐
	Scrippsiella	Low ☐	High ☐	Dominant ☐
	Dictyocha	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Other groups	Dictyocha	Low ☐	High ☐	Dominant ☐
	Tintinnids	Low ☐	High ☐	Dominant ☐
	Radiolaria	Low ☐	High ☐	Dominant ☐
	Copepods	Low ☐	High ☐	Dominant ☐
	Crustacean larvae (nauplii/zoea)	Low ☐	High ☐	Dominant ☐
	Fish larvae/ eggs	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Summary	Water conditions (T, S, pH and nutrients) were within expected ranges ☒ /not within expected ranges ☐ Comparison with previous week(s): Other Notes:			

*No quantitative analysis/ Relative abundance is estimated visually and represents
a general sense of which plankton groups seem to be present in higher amounts
when compared to other groups.

FLOW Plankton Monitoring Program Report
Month: Jan   Year: 2014

Date	01/31/2014
Location	Tidal Inlet ☐ Wetland ☒
Time	1:50 PM
Collectors	Jerry, Terry
Tide	Going Out ☐ Slack ☒ Coming In ☐ NA ☐
Water T (°C)	16
Salinity (ppt)	34
Weather/ wind	Overcast, 15 mph W
pH	8.0
Ammonia	0.20
Nitrate	0.00
Phosphate	0.10
CDPH Bottle #	n/a

List of plankton observed in sample

	Species/ genera/ groups	Estimated relative abundance*
Diatoms	Asterionella	Low ☐ High ☐ Dominant ☐
	Astemphalus	Low ☐ High ☐ Dominant ☐
	Bacteriastrum	Low ☐ High ☐ Dominant ☐
	Chaetoceros	Low ☐ High ☐ Dominant ☐
	Coscinodiscus	Low ☐ High ☐ Dominant ☐
	Ditylum	Low ☐ High ☐ Dominant ☐
	Eucampia	Low ☐ High ☐ Dominant ☐
	Ginardia	Low ☐ High ☐ Dominant ☐
	Hemiaulus	Low ☐ High ☐ Dominant ☐
	Lauderia	Low ☐ High ☐ Dominant ☐
	Leptocylindrus	Low ☐ High ☐ Dominant ☐
	Licmophora	Low ☐ High ☐ Dominant ☐
	Lithodesmium	Low ☐ High ☐ Dominant ☐
	Melosira	Low ☐ High ☐ Dominant ☐
	Navicula	Low ☐ High ☐ Dominant ☐
	Nitzschia	Low ☐ High ☐ Dominant ☐
	Odontella	Low ☐ High ☐ Dominant ☐
	Pleurosigma	Low ☐ High ☐ Dominant ☐
	Pseudonitzschia	Low ☐ High ☐ Dominant ☐
	Rhizosolenia	Low ☐ High ☐ Dominant ☐
	Skeletonema	Low ☐ High ☐ Dominant ☐
	Thalassiosira	Low ☐ High ☐ Dominant ☐
	Thalassionema	Low ☐ High ☐ Dominant ☐
	Thalassiothrix	Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐
		Low ☐ High ☐ Dominant ☐

Dinoflagellates	Akashiwo	Low ☐	High ☐	Dominant ☐
	Alexandrium	Low ☐	High ☐	Dominant ☐
	Ceratium divaricatum	Low ☐	High ☐	Dominant ☐
	Ceratium furca	Low ☐	High ☐	Dominant ☐
	Ceratium fusus	Low ☐	High ☐	Dominant ☐
	Ceratium lineatum	Low ☐	High ☐	Dominant ☐
	Ceratium macroceros	Low ☐	High ☐	Dominant ☐
	Ceratium sp. (other)	Low ☐	High ☐	Dominant ☐
	Cochlodinium	Low ☐	High ☐	Dominant ☐
	Dinophysis acuminata	Low ☐	High ☐	Dominant ☐
	Dinophysis caudata	Low ☐	High ☐	Dominant ☐
	Dinophysis fortii	Low ☐	High ☐	Dominant ☐
	Gonyaulax	Low ☐	High ☐	Dominant ☐
	Lingoludinium	Low ☐	High ☐	Dominant ☐
	Noctiluca	Low ☐	High ☐	Dominant ☐
	Oxytoxum	Low ☐	High ☐	Dominant ☐
	Prorocentrum micans	Low ☐	High ☐	Dominant ☐
	Protoperidinium	Low ☐	High ☐	Dominant ☐
	Scrippsiella	Low ☐	High ☐	Dominant ☐
	Dictyocha	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Other groups	Dictyocha	Low ☐	High ☐	Dominant ☐
	Tintinnids	Low ☐	High ☐	Dominant ☐
	Radiolaria	Low ☐	High ☐	Dominant ☐
	Copepods	Low ☐	High ☐	Dominant ☐
	Crustacean larvae (nauplii/zoea)	Low ☐	High ☐	Dominant ☐
	Fish larvae/ eggs	Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
		Low ☐	High ☐	Dominant ☐
Summary	Water conditions (T, S, pH and nutrients) were within expected ranges ☒ /not within expected ranges ☐ Comparison with previous week(s): Other Notes:			

*No quantitative analysis/ Relative abundance is estimated visually and represents
a general sense of which plankton groups seem to be present in higher amounts
when compared to other groups.