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Great South Bay, Long Island, New York Summer Phytoplankton Identification & Monitoring Program

CERCOM, Molloy University

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**Center for Environmental Research and Coastal Oceans
Monitoring**

(CERCOM)

Molloy University

Great South Bay, Long Island, New York

Summer Phytoplankton Identification & Monitoring Program

Annual Inventory Report

2023

FINAL REPORT

A handwritten signature in blue ink, which appears to read 'John T. Tanacredi'. The signature is written in a cursive style and is positioned above the printed name of the director.

Director; **Dr. John T. Tanacredi**

Scientific Research Technical Assistant; **Mr. Kyle F. Maurelli**

Address:

132 Clyde Street

West Sayville, NY 11796

2023

Student Intern

Participation:

Caroline Kane

Molloy University Volunteer

Phytoplankton Collection Methodologies:

80 micron Plankton Tow Net with sample bottle attachment

Phytoplankton Protocol:

1. Gather Samples
2. Make one slide per sample
3. View slides using microscope connected with computer
4. Record findings using “ Row # ” and “ Column letter ”
5. Record using “ Tallies ” per species found within sample
6. Capture anything interesting “ Take Picture ”
7. Duplicate pictures taken
8. Make sure measurement of species found is taken
9. Email Jennifer Maucher at Jennifer.maucher@noaa.gov , include pictures, questions and names of the species you “guess” you found.

If requested by NOAA, Jennifer will ask for a water sample from our findings.

2023 Summer Plankton Tows

Total Species Identified: 27

Actinoptychus, Asterionella, Biddulphia, Chaetoceros, Corethron, Coscinodiscus, Ditylum, Dinophysis, Entomoneis, Fragilaria, Grammatophora, Gyrosigma, Hemiaulus, Lichmophora, Melosira, Navicula, Nitzschia, Paralia, Pleurosigma, P. lima, P. micans, Pseudonitzschia, Rhizosolenia, Skeletonema, Striatella, Thalassionema, Triceratium

Species Identified at Each Site:

Site 1	Site 2	Site 3	Site 4	Site 5
Biddulphia	Biddulphia	Actinoptychus	Actinoptychus	Asterionella
Chaetoceros	Chaetoceros	Biddulphia	Asterionella	Biddulphia
Coscinodiscus	Coscinodiscus	Chaetoceros	Biddulphia	Chaetoceros
Dinophysis	Dinophysis	Corethron	Chaetoceros	Coscinodiscus
Grammatophora	Ditylum	Coscinodiscus	Coscinodiscus	Lichmophora
Gyrosigma	Grammatophora	Entomoneis	Grammatophora	Grammatophora
Lichmophora	Gyrosigma	Fragilaria	Gyrosigma	Gyrosigma
Melosira	Hemiaulus	Grammatophora	Lichmophora	Navicula
Navicula	Lichmophora	Gyrosigma	Melosira	Nitzschia
Nitzschia	Navicula	Lichmophora	Navicula	Paralia
Paralia	Nitzschia	Navicula	Nitzschia	Pleurosigma
Pleurosigma	Paralia	Nitzschia	Paralia	Pseudonitzschia
Prorocentrum lima	Pleurosigma	Paralia	Pleurosigma	Rhizosolenia
Pseudonitzschia	Prorocentrum	Pleurosigma	Protoperidinium	Skeletonema
Skeletonema	micans	Skeletonema	Rhizosolenia	Striatella
Striatella	Pseudonitzschia	Striatella	Skeletonema	Thalassionema
Thalassionema	Rhizosolenia	Thalassionema	Striatella	Triceratium
	Skeletonema	Triceratium	Thalassionema	
	Striatella		Triceratium	
	Thalassionema			
	Triceratium			
17 Species Total	20 Species Total	18 Species Total	19 Species Total	17 Species Total

Site #1	Sexton
Site #2	Ocean Beach
Site #3	Ocean Bay Park
Site #4	Sailors Haven
Site #5	Cherry Grove