

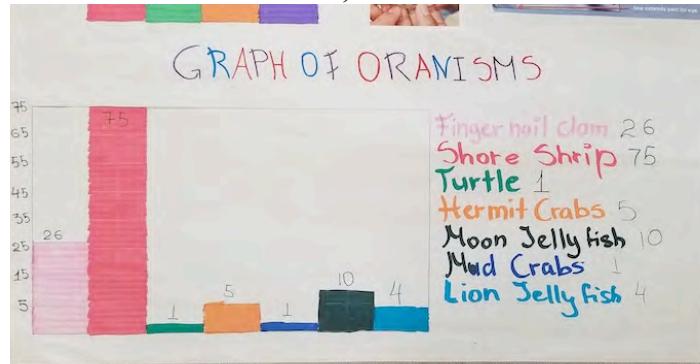
Day in the Life of the Hudson River 10/22/19 Data

RIVER MILE -5.3

Salt Front ~ RM 53

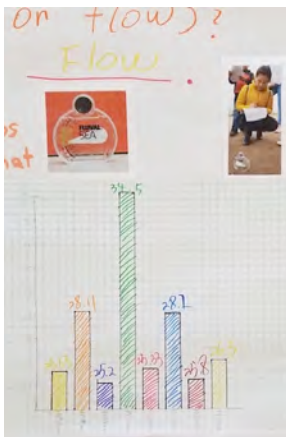
Canarsie Pier, Jamaica Bay, Brooklyn, NY

Teacher Kara MacDevitt, International High School at Lafayette, 9th graders – 81 students, 8 teachers



1 NYSDEC SCA member assistants

GPS Latitude N 40.37'49.0" - W-73.53'00.98"



Location: NW beach at Canarsie Pier, Jamaica Bay

Area: Pier and beach area along the bay

Surrounding Land Use: Beach – 50%; Pier/Urban/residential 50%

Sampling Site: mainly sandy beach (99%), rip rap, pipe entering water

Shoreline: beach and pier

Plants in area: 50% sea lettuce

Water: Choppy

River Bottom : sandy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Wind Speed mph</i>	<i>Wind Direction</i>
Physical				
Air Temperature	10:28 AM	15 C – 60 F	9 mph	E
	10:53 AM	18 C	10 mph	E
	11:16 AM	15 C - 60 F	10 mph	E
	11:33 AM	15 C - 60 F	14.6 mph	E
	11:55 AM	15 C- 60 F	11 mph	E
	12:10 PM	15 C- 60 F	11 mph	E
	12:16 PM	15 C- 60 F	11 mph	E
	12:28 PM	15 C- 60 F	10 mph	E
Wind Speed	ABOVE			
Cloud Cover	Full sampling	Overcast	100%	

	time			
Weather today	Misty wet			
Weather recently				
Water Temperature	11:00 AM 11:15 AM 12:00 PM	16.2 C 15 C 15 C	60 F 60 F	
Water calm				
Turbidity – long sight tube	10:13 AM 10:50 AM 11:11 AM 11:35 AM 12:11 PM 12:28 PM 12:30 PM 12:43 PM	28.66 cm 29.66 cm 30 cm 30.67 cm 35.3 cm 31.6 cm 31.6 cm 39.67 cm		Dark blue green water
DO	11:38 AM 11:46 AM 12:04 PM 12:25PM 12:43 PM	15 C	10 ppm 10 ppm 10 ppm 6 ppm 6 ppm	88% 88% 88% 53% 53%
pH –	11:38 AM 11:46 AM 12:04 PM 12:25PM 12:43 PM	8.5 8.5 8.5 6 6		
Salinity – hydrometer	10:27 AM 11:08 AM 11:27 11:49 12:09 PM 12:24 PM 12:39 PM	34.5 ppt (avg) 28.11 25.53 25.2 25.8 26.3 28.2		
Fish Catch seine net		Species	Number Caught	
All groups		Atlantic Silverside	36	
		Bay Anchovy	4	
		Mummichog	1	
		Striped Killifish	1	
		DIVERSITY 4	TOTAL 42	
11:30 AM Macros		Mud Crab	1	*Also found a trutle
		Hermit Crab	5	
		Moon Jellies	10	
		Lion's Mane	4	

		Jelly		
		Shore Shrimp (paleomonetes)	75	
		Fingernail clams	26	
		DIVERSITY 6	TOTAL 121	
<i>Water Currents</i>	<i>Distance</i>	<i>Cm/sec</i>	<i>Kts</i>	<i>Direction</i>
Separately	91.44 cm 183 cm.	3.048 cm/sec 6.096 cm/sec	0.06 0.12	NE – Ebb NE - Ebb
	<i>GROUP #</i>	<i>Compass Direction</i>	<i>Ebb/Flood/Still</i>	
GROUP	Group 1 Group 2 Group 3 Group 4 Group 5 Group 6 Group 7 Group 8	SW SW SW SW NE NE SE SE	Ebb Ebb Ebb Ebb Ebb Ebb Ebb Ebb	
<i>Tides</i>	<i>Time</i>	<i>Water Height Inches</i>	<i>Ebb/Flood/Still</i>	
	10:27 AM 11:08 AM 11:27 11:49 12:09 PM 12:24 PM 12:39 PM	14 inches 22 inches 32 inches	Flood Flood Flood Flood Flood Flood Flood	
<i>Sediment Core</i>	<i>Length</i>	<i>Rare</i>	<i>Common</i>	<i>Description</i>
	NR	Gravel	Gravel Pebbles	Sand
<i>Boats</i>	N/R	Tugboat Barge Speedboat Sailboat	Orange White White White	
<i>Other Items</i>	Shells & shell pieces	Coal	Crab molts	Area overgrown
	Sea gulls	Turtle	Water chestnut seeds	Shells and shell pieces
	Plovers	Butterfly	Brick	Dragonflies