

**Day in the Life of the Hudson River 10/22/19 Data
FORT WADSWORTH, STATEN ISLAND
RIVER MILE: -7**

Salt Front: ~RM 53

**St. Clare School- Mary Lee
75 students 7th grade, 30 adults**

**NY Park Rangers- Kathy Garofalo, Hudson Valley SCA - Aaron Donato, New York City DEP-Robert Bauman,
Coast Guard**

Latitude 40.5993813 N & Longitude – 74.0536311 W



Location: Seabee Fishing Beach, Fort Wadsworth, just south of Verrazano Bridge, Staten Island, NY

Area: Beach with riprap; concrete broken in areas, pier nearby, behind beach covered with vegetation & lots of rocks

Surrounding Land Use: National Park Site

Sampling Site: Beach area with riprap to bridge side of where we were sampling

Shoreline: 80% Beach; 15% Forested, 5% other – parking lot, picnic area, fort

Plants in area: No plants in water area

Water: 12 inches deep, calm

River Bottom: Sandy

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature:</i>	10:50 AM	15 ° C	59 ° F	
	11:55 PM	15 ° C	59 ° F	
<i>Wind Speed:</i>	anemometer	7 kts or 9 mph	Beaufort 3	Varied
<i>Weather Today:</i>	Rained later in the day and evening			Water Choppy
<i>Weather Previous:</i>	Some rain			
Water Temperature	10:23 AM	15 ° C	59 ° F	Temp. constant all day – 1 reading per session
	10:45			
	11:10			
	11:35			
	12:05 PM			
Turbidity - Long sight tube	10:44 AM	22, 27, 23.4	AVERAGES	24.13 cm 22 cm
	11:55 AM	22, 27, 23.4		
Chemical				
<i>Salinity- hydrometer</i>	All day same	23 ppt Hydrometer 30 ppt Refractometer		*calibrate refractometer?
<i>DO – ampules</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
<i>Chemets (constant)</i>	11:35 AM	15 ° C	9	90
<i>pH - indicator</i>	All day long	7.9		

<i>solution</i>					
<i>Nitrates- API test kit</i>	All Day	0			
<i>Nitrites</i>	All Day	0.25 ppm			
<i>Ammonia</i>	All Day	0 ppm			
<i>Phosphates</i>	During Day	Raged 0.5 to 0.25 all day			<i>Average 0.35 ppm</i>
<i>Fish – seine 10ft X 15 ft - 11:25 AM 5 seine pulls – 1 fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	* Also found a dead dogfish shark(60 cm) & a dead seahorse 7.5 cm	
	1	Lookdown Fish (selene vomer)	3 cm		
	TOTAL: 1	Diversity: 1			
<i>Macroinvertebrates- Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>		
	27	Moon Jellies			
	1	Asian Shore Crab			
	1	Mole Crab			
	1	Grass Shrimp			
	1	Blue Mussel			
	1	Marine Amphipod			
TOTAL: 32	Diversity: 6				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Still</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>	
	10:52 AM	Rising	35 cm	-	
	10:59 AM	Rising	37.5 cm	0.357	
	11:10 AM	Rising	30 cm	0.681	
	11:20 AM	Rising	20 cm	1.0	
	11:31 AM	Rising	20 cm	0.0	
	11:42 AM	Rising	10 cm	0.91	
	11:51 AM	Rising	8 cm	0.22	
	12:02 PM	Rising	2.5 cm	0.5	
		*rising the whole time		*underwater after we left	
<i>Currents Flow - Time</i>	<i>Cm/30 sec</i>	<i>Cm/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
10:35 AM	82	2.73	0.0053	South	Should have been flooding throughout but was hard to tell as water very choppy
10:41 AM	370	12.3	0.239	North	
10:56 AM	235	7.83	0.15	South	
11:17 AM	478	16	0.31	South	
11:23 AM	336	11.2	0.22	South	
11:52 AM	228	8.26	0.16	North	
<i>Sediment Core</i>	<i>W370ater depth235</i>	<i>Length</i>	<i>Oxid Top</i>	<i>Grain Size</i>	<i>Other</i>
Not done					
<i>Boats</i>	<i>Time</i>	<i>Type</i>	<i>Color</i>	<i>North/South</i>	<i>Loaded/Light</i>

Com	10:21 AM	Barge		Stationary	Loaded
Com	10:22 AM	Small Coast Guard	Gray	North	Light
Com	10:21 AM	Ferry	White	North	Loaded
Rec.	10:29 AM	Sailboat	White	South	Light
Com	10:30 AM	Pilot	White	North	Loaded
Com	10:43 AM	Pilot 2	Dark Green	South	Light
Com	10:45 AM	Ferry	White/Black	North	Light
Com	10:46 AM	Bulk Carrier Cargo	Black	North	Loaded
Com	10:48 AM	Fishing Boat	White	Stationary	Light
Com	11:03 AM	Container – <i>Ocean Promise</i>	Blue & Red	North	Light
Com	11:38 AM	Pilot	Black	South	Light
Com	11:40 AM	Tugboat Pushing Barge	Black	North	Loaded
Com	11:42 AM	Ferry	Blue	South	Loaded
Com	11:46 AM	Pilot	Black	South	Light
<i>Other Observations</i>		NR			