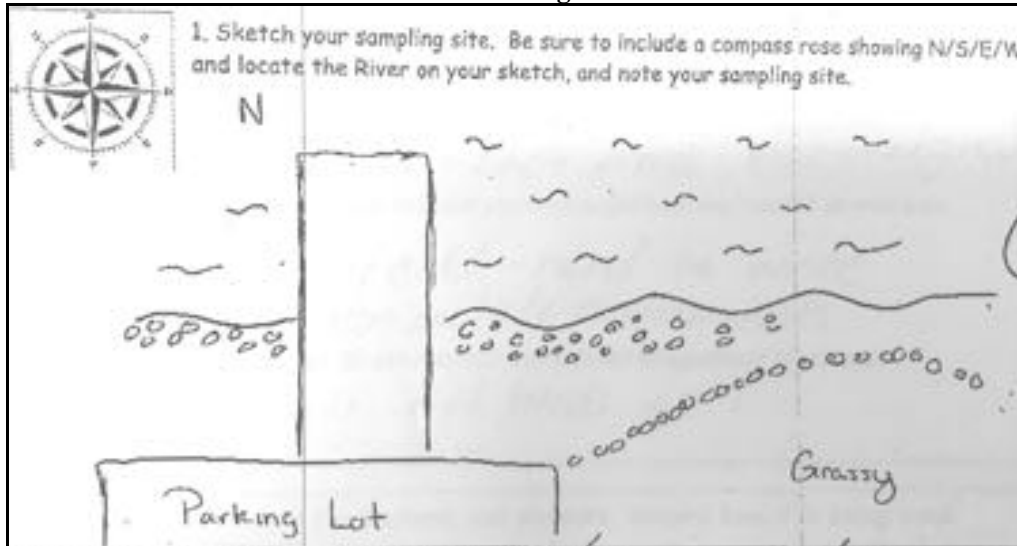


Day in the Life of the Hudson River 10/16/18 Data
STONY POINT MARINA, STONY POINT
Rockland County, NY
RIVER MILE: 39
Salt Front: ~RM 24
North Rockland High School-
50 students 11th and 12th grade, 4 adults
Jeanne Maguire, North Rockland HS
Latitude 41.2245828 N & Longitude - 73.99639967 W



Location: Stony Point Marina Riverfront Park, City of Stony Point in Rockland County
Area: Located along the side of the road at the south end of the marina- forested in the wider area, pier, grassy, parking lot
Surrounding Land Use: 50% Industrial/Commercial; 35% Urban/Residential; 15% Beach
Sampling Site: Along the seawall, sandy beach, banks altered, riprap (large rocks)
Shoreline: Sandy, rocky with bits of brick, coal and slag
Water Depth: 3 feet
Plants in area: 2% seaweed; water chestnuts on shore
River Bottom description: rocky, sandy

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	8:30 AM	6.1 °C	43 ° F	
	9:10 AM	9.4 ° C	49 ° F	
	9:30 AM	10 ° C	50 ° F	
<i>Wind Speed: anemometer (a)</i>	8:55 AM	5.6 mph	Beaufort 2	Northwest
	10:27 AM	14.6 mph	Beaufort 3	Water is choppy
<i>Weather today</i>	No rain, partly cloudy(26-50%)			
<i>Weather recently</i>	Rained on 10/15/18 less than an inch			
<i>Water Temperature</i>	8:56 AM	16 ° C	60.8 ° F	
	10:23 AM	18.8 ° C	65.84 ° F	
<i>Turbidity - long sight tube secchi disk</i>	11:10 AM	20 cm		<i>*Data sheet doesn't really specify what equipment they used</i>
		20 cm		
<i>Chemical</i>				
<i>Salinity- High Range Quantabs</i>	9:30 AM	Below Detection with this method		
<i>DO – drop count kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>

	8:56 AM 10:23 AM	18.8° C 16° C	*23 *25	* <i>D.O. Discount as not realistic -expect didn't swirl as they titrated</i>
<i>pH – color match kit</i>	9:12 AM 9:32 AM 10:30 AM	8 7.7 8		
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest (in)</i>	
<i>10:45 AM Seine- 9 foot net</i>	10 23	Herring (young) Striped Bass	3 2-3	
Fish Totals	TOTAL: 33	Diversity: 2		
<i>Tides- Dock to water</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
	9:15 AM 9:45 AM	- Falling	55 56	.033
<i>Current-</i>	<i>cm/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
*current pushed the orange to shore	5.08 7.68 6.73	0.099 0.149 0.131	South South South	Ebb Ebb Ebb
Core	Description	Rare	Common	Abundant
	7.62 cm	Clay Mud Shell bits Slag	Gravel Pebbles Brick	Sand
<i>Boat Traffic – commercial</i>	<i>Name</i>	<i>Color</i>	<i>North or South</i>	<i>Loaded or Light</i>
11:46 AM		Red and Black	North	Light
<i>Boat Traffic – recreational</i>	<i>Name</i>	<i>Color</i>	<i>North or South</i>	<i>Loaded or Light</i>
8:30 AM 11:00 AM	Sailboat – named 'Sea...2'	White	North	*anchored and left heading north
<i>Other Observations</i>	Bits of brick, lumps of coal, shell pieces on shoreline	1 seagull 3 Canadian Geese	Water chestnut seeds	