

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

HAVERSTRAW BAY COUNTY PARK

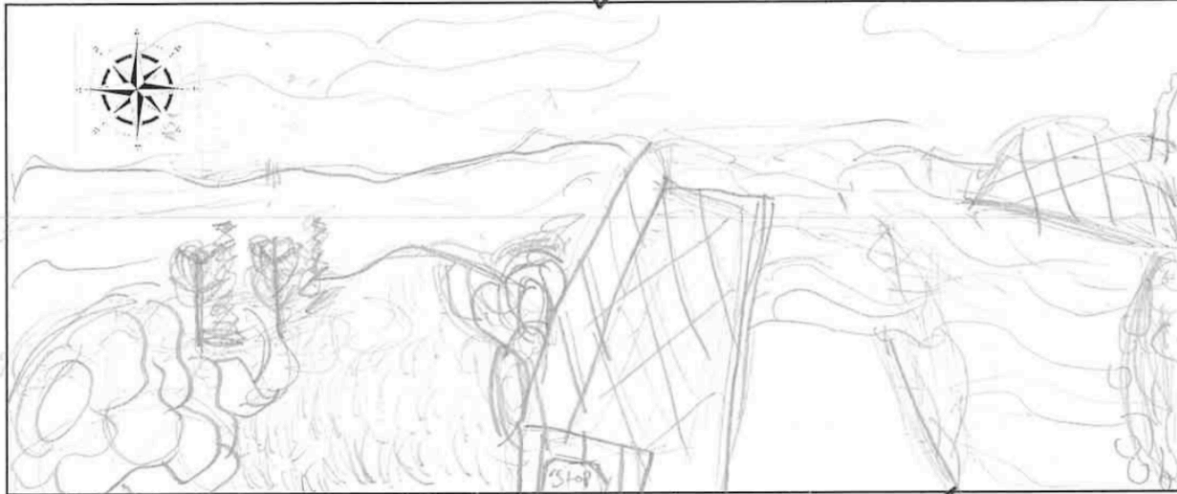
RIVER MILE: 38

Salt Front: ~RM 53

North Rockland High School- Jeanne Maguire 2 teachers, plus 2 Rockland County volunteers

68 students 10th-12th grade

Latitude 41.212559 N & Longitude – 73.963759 W



Location: Haverstraw Bay County Park, Village of Haverstraw, Rockland County, New York

Area: North Beach, dock/pier, grassy, forested, parking lot

Surrounding Land Use: 70% Forested; 20% Parkland; 10% Industrial/Commercial; 20% Urban/Residential

Sampling Site: small beach, banks altered, large riprap, concrete bulkhead, covered in vegetation.

Shoreline: 10% sandy; 90% rocky

River Bottom: muddy, sandy, rocky

Plants in area: Waterchestnuts; Nearby: bur-reed, wild rice, water celery

Water: 5-18 inches, choppy

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	9:25 AM	13 °C	54 ° F	
	9:59 AM	13 °C	54 ° F	
	10:30 AM	13 °C	54 ° F	
	10:56 AM	13 °C	54 ° F	
	11:27 AM	13 °C	54 ° F	
<i>Wind Speed:</i>	9:25 AM	1.9 knots	Northeast	
	11:27 AM	2.7 knots	Northeast	
<i>Weather today</i>	Overcast (100%); 11:30 AM misting			
<i>Weather the past 3 days:</i>	Rained on Sunday			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
Low Tide 12:10 PM per charts	9:25 AM	NA	42	NA
	9:37 AM	Falling	29	.32
	10:19 AM	Falling	24	.19
	10:36 AM	Rising –a wave?	35	.14
	11:15 AM	Falling	29	.26
<i>Current-</i>	<i>cm/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
9:31 AM	.003		South	Ebb
9:57 AM	6		South	Ebb
10:22 AM	3		South	Ebb
10:45 AM	1		South	Ebb
11:20 AM	1		South	Ebb

Water Temperature	9:31 AM 10:05 AM 10:30 AM 11:00 AM	15 °C 20 °C 20 °C 12 °C*	59 °F 68 °F 68 °F 53 °F	*seems low
Turbidity - long sight tube	9:21 AM 9:49 AM 11:16 AM	120 cm 46, 40 cm - Average 43 cm 15 cm, 18 cm, 13 cm - Average 15.33 cm		Brown, murky, cloudy water
Chemical				
Salinity- Quantabs	Time 9:19 AM 10:32 AM	Quantab units 4.8 quantab units 4.6 quantab units	Chloride ppm Cl 1872 ppm Cl- 1038 ppm Cl-	Total salinity ppm 3382 ppm TS 1875 ppm TS
DO –	Time	Temp	ppm DO	% saturation
	9:22 AM 9:47 AM 10:39 AM 10:57 AM 11:45 AM	15 °C 20 °C 20 °C 12 °C	9 9 9 8 9	85 85 80 60 90
pH – color match kit	9:14 AM 9:48 AM 10:20 AM 10:44 AM 11:18 AM 11:40 AM	7.4 7.4 7.4 7.4 7 7.4		
Fish	Number	Name	Length of longest	
Seine- 24'	2 21 2	Striped Bass Atlantic Silversides Large Mouth bass	9 cm 9.2 cm 7 cm	9:30-12pm *Seems unlikely
Fish Totals	TOTAL: 25	Diversity: 3		
Macroinvertebrates	Number	Name	Length of longest	
	2	Blue Crab	Female	
Macroinvertebrate Totals	TOAL: 2	Diversity: 1		
Sediment Core	Time	Oxid Top	Grain Size	Other Items
Length: 7 cm	9:00 AM	Yes	Abundant: mud, pebbles Rare: gravel	Common: Brick
Boats	Time	Name/Color	North/South	Loaded/Unloaded
Commercial	NA	Barge- Brown	South	Light
Commercial	9:30 AM	Tug	North	NA
Recreational	NA	Speed boat- white	South	NA
Observations	Bald eagle, 3 seagulls, osprey, 2 cormorant, 2 Canadian geese, squirrels, deer, stink bugs			