

Day in the Life of the Hudson River 10/16/18 Data

CROTON POINT PARK, CROTON

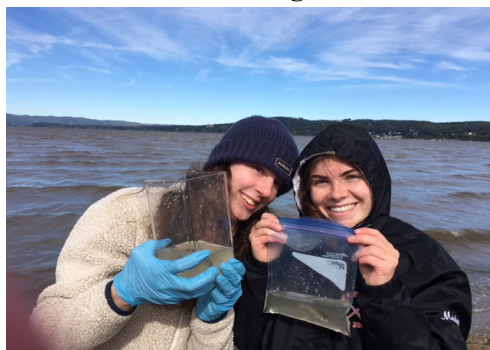
RIVER MILE: 35

Salt Front: ~RM 24

Croton-Harmon High School- Donna Light

45 students 9th-12th grade, AP Biology and Ecology, 2 adults

Latitude 41.1868 N & Longitude – 73.8923 W



Location: Croton Point Park, City of Croton, Westchester County, NY

Area: Rocky beach surrounded by rising forested land, pier, beach, grassy, landfill

Surrounding Land Use: 80% Beach; 20% Landfill across the road; Forested behind

Sampling Site: Beach area with riprap at north end

Shoreline:

River Bottom: sandy

Plants in area:

Water:

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature:</i>	11:25 AM	10.01 °C	50 °F	
	11:40 AM	10.01 °C	50 °F	
	11:50 AM	10.56 °C	51 °F	
	1:27 PM	13.90 °C	57 °F	
	1:36 PM	14.01 °C	57.2 °F	
<i>Wind Speed:</i>	6:00 PM	Beaufort 6		
	11:25 AM	Beaufort 5		
	1:28 PM	Beaufort 3	South	
<i>Weather Today:</i>	11:30 AM Partly cloudy (26-50%), 1:37 PM Partly cloudy			
<i>Weather Previous:</i>				
<i>Water Temperature</i>	8:44 AM	11 °C	51.8 °F	less than 1 ft
	8:59 AM	11 °C	51.8 °F	less than 1 ft
	11:45 AM	11.5 °C	52.7 °F	1ft
	11:55 AM	11.5 °C	52.7 °F	1ft
	12:00 PM	11 °C	51.8 °F	1ft

Turbidity - long sight tube	8:30 AM Avg: 11:20 AM Avg: 1:43 PM Avg:	11 cm, 11.6 cm, 10.2 cm 11cm 9 cm, 5 cm, 9 cm 7.7 5 cm, 10 cm 7.5	Very, very turbid; maybe because samples were collected close to shore	
Chemical				
Salinity - refractometer	8:47 AM 11:45 AM 11:50 AM 11:55 AM	3 ppt TS 28 ppt TS 28 ppt TS 34 ppt TS	Unrealistic Data	
Dissolved Oxygen –	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9:00 AM	11 °C	12 ppm	110%
	9:15 AM	11 °C	12 ppm	110%
	12:15 PM	11 °C	11 ppm	100%
	1:30 PM	11 °C	10 ppm	90%
Biological				
Fish – seine	Number	Name	Length of longest	
	19	Striped Bass	7 cm	11:40 AM
	1	White Perch	18 cm	
	1	Bay Anchovy	6 cm	
	1	Bay Anchovy	4.5 cm	2:00 PM
TOTAL: 22	DIVERSITY: 3			
Macroinvertebrates - Seine	Number	Name	Length of longest	
	1	Lady Crab (baby)	2 cm	2:00 PM
	TOTAL: 1	DIVERSITY: 1		
Tides	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)
	11:35 AM		20	-
	11:50 AM		24	0.27
	12:05 PM	Flood	26	0.13
	1:34 PM		15	0.12
	1:40 PM		14.5	0.08
	1:55 PM		20.5	0.4
	2:05 PM	Flood	30?	0.95
Other Observations	Seaweed and watermilfoil			