

Day in the Life of the Hudson River 10/16/18 Data
SARAH LAWRENCE COLLEGE CURB: BECZAK, RIVER MILE: 18.3

Salt Front: ~RM 24

High School for Environmental Studies – Sean Abbot-Klafter

30 students 11th -12th grade, 5 adults

Elisa Caref, SLL CURB

Latitude 40.938483 N & Longitude -73.90291 W



Location: Sarah Lawrence College CURB at Beczak, Habirshaw County Park, Yonkers, Westchester County, NY

Area: 2 acre riverfront county park covered mostly by a grass lawn leading down to the river where it meets a tidal wetland and sandy beach. Property used for fishing, boats, seining, field trips and some education programs.

Surrounding Land Use: 75% Urban/Residential; 25% Beach/Waterfront

Sampling Site: Sandy beach, tidal marsh area covered with vegetation, banks altered, large riprap on shoreline, collected wood/debris in area

Plants in area: No plants in the water area; however in the marsh, there is mud wort, reed grass, salter cordgrass, big cordgrass

River Bottom: Muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature:</i>		17 ° C	60 ° F	
<i>Wind Speed:</i>	12:11 AM 12:40 PM 1:02 PM	Beaufort 2 2 Beaufort 2	Northwest Northwest Northwest	
<i>Weather Today:</i>	No rain, partly to mostly cloudy			
Water Temperature- <i>YSI Probe</i>	11:59 AM 12:40 PM 1:10 PM	15.6 ° C 16.1 ° C 16.1 ° C	60.08 ° F 60.98 ° F 60.98 ° F	
<i>Thermometer</i>	11:59 AM 12:40 PM 1:10 PM	15 ° C 15 ° C 15 ° C	59 ° F 59 ° F 59 ° F	
Turbidity - <i>YSI Probe</i>	11:59 AM 12:40 PM 1:10 PM	10.4 NTU 10.8 NTU 8.3 NTU		
<i>Long site tube</i>	11:59 AM 12:40 PM 1:10 PM	35 cm 35 cm 40 cm		
Chemical				
<i>Salinity-</i> <i>YSI Probe</i>	<i>Time</i>	<i>Total Salinity</i>		<i>*hydrometer is low resolution in comparison to YSI. 0 ppm isn't</i>
	11:59 AM	1.15 ppt		
	12:40 PM	1.08 ppt		
	1:10 PM	0.950 ppt		

<i>*Hand tool - hydrometer or Refractometer?</i>	11:59 AM 12:40 PM 1:10 PM	3 ppt 0 ppt 1 ppt		<i>realistic; maybe it was out of hydrometer range.</i>
<i>DO – YSI Probe</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	11:59 AM 12:40 PM 1:10 PM	15.6 ° C 16.1 ° C 16.1 ° C	9.77 ppm 9.66 ppm 9.84 ppm	90 91 93
<i>pH – YSI Probe</i>	11:59 AM 12:40 PM 1:10 PM	8.14 8.14 8.21		
<i>Fish- Seine 15 Total Hauls</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	80 8 2 1 12 2	Atlantic Silverside Blueback Herring Atlantic Menhaden Alewife Striped Bass White Perch		
	TOTAL: 105	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>
<i>Group 1</i>	11:52 AM 12:20 PM	- Rising	27 38	- 0.39
	<i>Group 2</i>	12:31 PM 12:52 PM	Rising Rising	40 48
<i>Group 3</i>		12:58 PM 1:20 PM	Still Rising	48 53
	<i>Currents Flow</i>	<i>Time</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	12:45 PM	North	Flood	
<i>Sediment Core</i>	<i>Description</i>	<i>Abundant</i>	<i>Common</i>	<i>Rare</i>
7 cm long core	H2S (Sulfur smell) Oxidized top	Mud	Clay, Sand, Pebbles	Gravel Wood Macroinvertebrates