

Day in the Life of the Hudson River 10/16/18 Data
JFK MARINA, YONKERS,
RIVER MILE: 19.5
Salt Front: ~RM 24
Riverside High School- Kelly Jakob
Museum School 25
40 students 9th grade, 40 5th-6th grade, 10 adults
Latitude 40°59'52"N, Longitude 73°53.03"W

Location: JFK Marina, Yonkers Waterfront, Westchester County, NY

Area: Waterfront marina with a north facing boat ramp for seining and a wooden walkway along the edge of the ramp.

Surrounding Land Use: 40% Grassy park fenced from water, 60% cement boat ramp on the northside and large parking lot.

Sampling Site: Bulkheaded waterfront, cement ramp for seining

Plants in area: No plants in the water area

Sampling Time Frame: 8:30 AM- 1:00 PM

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Water Temperature</i>		18 °C	64.4 °F	
Chemical				
<i>Salinity- Hydrometer</i>	<i>Time</i>	<i>Chloride</i>	<i>Total Salinity</i>	
			Below Detection with method	
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9:00 AM	18 ° C	27	*These readings are very high and out of range. I suspect the students did not swirl the titrant after each drop
	10:00 AM	18 ° C	22	
<i>pH –</i>	9:00 AM – 10:00 AM	7.6-7.8		
Fish	Number	Name	Length of longest	
	30	Atlantic Silversides	4 inches	
	4	Striped Bass	3 inches	
	4	Herring	3.5 inches	
	TOTAL: 38	Diversity: 3		
Macroinvertebrates	Number	Name	Length of longest	
	8	Blue Crab	1 inch	
	1	Shrimp	.5 inch	
	TOTAL: 9	Diversity: 2		
Tides- Tide stick	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)
	10 AM	-	-	-
	11 AM	Rising	+61 cm	1.017
Currents Flow	Cm/second	North/South	Ebb/Flood/Still	

9:05 AM		South	Ebb	<i>*This data doesn't make sense. The current flow shouldn't be switching between North and South that quickly. Perhaps they sampled off the boat ramp which is sheltered from the main part of the Hudson.</i>
9:10 AM		North	Flood	
9:27 AM		South	Ebb	
9:33 AM		North	Flood	
9:42 AM		South	Ebb	
9:48 AM		North	Flood	
10:43 AM		South	Ebb	
10:45 AM		North	Flood	
10:56 AM		-	Still	
11:02 AM		South	Ebb	
11:28 AM		North	Flood	
11:39 AM		South	Ebb	
11:58 AM		North	Flood	
12:03 PM		North	Flood	
12:04 PM		South	Ebb	
12:10 PM		North	Flood	
12:15 PM		North	Flood	