

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

**TIVOLI SOUTH BAY, RIVER MILE: 98**

*Salt Front: ~RM 24*

**Kingston High School- Duane Wolff**

**23 students 12<sup>th</sup> grade, 3 adults**

**Marco Spodek, Bard College EUS**

**Latitude 42° 01'04.6" N & Longitude 73°55'04.0" W**

**Location:** Tivoli South Bay, Bard College Field Station, Annandale on Hudson, Dutchess County, NY

**Area:** Embayment, between mouth of Saw Kill and Blithewood Manor

**Sampling Site:** Mudflats

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<b>Physical</b>				
<i>Air Temperature</i>	11:17 AM		49 °F	
	12:25 PM		53 °F	
	12:50 PM		54 °F	
<i>Wind Speed: Beaufort Force</i>	11:17 AM	2		
	12:25 PM	1		
	12:50 PM	0		
<i>Weather today</i>	Clear (0% cloud cover)			
<b>Turbidity - long sight tube</b>	11:23 AM	75.6 cm		
	11:27 AM	75.6 cm		
	12:30 PM	104.15 cm		
	12:55 PM	94 cm		
	1:01 PM	93.9 cm		
<b>Chemical</b>				
<i>Salinity- Low Range Quantabs</i>	<i>Time</i>	<i>Chloride</i>	<i>Total Salinity</i>	<i>*Below Detection on LR Quantabs</i>
	12:50 PM	30 ppm Cl <sup>-</sup>	54 ppm	
<i>DO -</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	11:17 AM		8	
	12:43 PM		11	
	12:50 PM		11	
<i>pH -</i>	11:22 AM	7.4		
	12:37 PM	7.4		
	1:05 PM	7.4		
<b>Fish Seine net</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	
	1	White Perch		
	1	Banded Killifish		
	1	Darter		
	1	American Eel		
	<b>TOTAL: 18</b>	<b>Diversity: 8</b>		
<b>Tides-</b>	<b>Time</b>	<b>Rising, Falling, Unchanged</b>	<b>Height (cm)</b>	<b>Rate of Tidal Change (cm/min)</b>
	11:16 AM		33	-
	12:34 PM	Unchanged/Rising	35.5	0.032
	1:11 PM	Unchanged/Rising	36	0.013