

**Day in the Life of the Hudson River 10/21/14 Data  
(Salt Front RM 64.3)**

**RIVER MILE 23**

**Kinnally Cove & MacEachron Waterfront Park, Hastings-on-Hudson**

**Melissa Shandroff, Hastings High School APES 11<sup>th</sup>-12<sup>th</sup> grade, 70 students, 4 adults**

**Latitude 40°59'52"N, Longitude 73°53.03"W**



**Location:** Kinnally Cove, Hastings-on-Hudson, Westchester County

**Area:** Beach area with riprap shoreline, next to the park – used both spaces. Beach is totally covered during high tide.

**Surrounding Land Use:** 50% industrial/commercial (next to old Anaconda site) but mainly parking lot now, 15 % forested, 10% grassy, 25% beach

**Sampling Site:** beach, banks altered, riprap on shoreline, bulkhead

**Plants in area:** grass and weeds

**Water depth:**

**River Bottom** – sandy/rocky bottom

<i>ITEM</i>	<i>8:30 AM</i>	<i>10:30 AM</i>	<i>12:30 PM</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature (From Piermont HRECOS)	55 °F 13°C	58°F 14°C	57.5°F 14°C	
Wind Speed				
Cloud Cover	Overcast all day >75%			
Weather today	Overcast and cool – rain in the mid afternoon after sampling done			
Weather recently	cooling over the last few days, rain on weekend but clear yesterday			
<i>Water Surface</i>	calm			

<i>ITEM</i>	<i>8:30 AM</i>	<i>10:30 AM</i>	<i>12:30 PM</i>	<i>Comments</i>
<i>Turbidity – long site tube</i>	43 cm	33 cm	6.5 cm	
<i>Water temperature</i>	17 °C	Not collected	18°C	
<i>Chemistry</i>				
<i>pH - Pen</i>	7.6	7.9	<b>7.8</b>	
<i>pH strips</i>	6	7	<b>7</b>	
<i>pH LaMotte kit</i>	7	8	<b>7</b>	
<i>DO – Hach kit</i>	11 ppm	10 ppm	9 ppm	
<i>% saturation</i>	110%		95%	
<i>Salinity - hydrometer</i>	12 ppt	12 ppt	8 ppt	
<i>Nitrate – LaMotte Kits</i>	0 ppm	5 ppm	0 ppm	
<i>Phosphate – LaMotte kit</i>	1 ppm	2 ppm	1 ppm	
<b><i>Fish Catch</i></b> Seine 30 ft.	9 Atlantic Silversides 4 Bay Anchovy 2 Blue Crab (F) 5 shrimp	10 Atlantic Silversides 3 Shiners 1 Striped Bass 1 Blue Crab (F)	7 Atlantic Silverside 1 Striped Bass 2 Mummichogs	<b><i>DAY TOTAL FISH</i></b> <b><i>Diversity 5</i></b> <b><i>TC – 37</i></b>  <b><i>MACRO</i></b> <b><i>Diversity 2</i></b> <b><i>TC - 8</i></b>
<b><i>Fish Only</i></b>	Diversity 2	Diversity 3	Diversity 3	
<b><i>Total Catch</i></b>	T.C. 13	T.C. 14	T.C. 10	
<b><i>Macros</i></b>	Diversity 2	Diversity 1	Diversity 0	
<b><i>Total Catch</i></b>	T.C. 7	T.C. 1	T.C. 0	
<b><i>Sediment Cores</i></b>	<b>Length/description</b>	<b>Abundant</b>	<b>Common</b>	<b>Rare</b>
<b><i>Tide</i></b>	1:20 PM		90 cm	
	1:35 PM	Falling	89 cm	0/067 cm/min
<b><i>Currents</i></b>				
<b><i>Time</i></b>	<b><i>Cm/60 secs</i></b>	<b><i>Cm/sec</i></b>	<b><i>Knots</i></b>	<b><i>N/S</i></b> <b><i>Ebb/Flood</i></b> <b><i>Still</i></b>
<b><i>Shipping</i></b>				