

**Snapshot Day 10/18/11 Data
(Salt Front RM 35.7)
RIVER MILE 23**

**Kinnally Cove & MacEachron Waterfront Park, Hastings-on-Hudson
Melissa Shandroff – Hastings High School APES Class 49 students, 11-12th graders
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: 80% industrial/commercial (next to old Anaconda site), 4 % forested, 4% beach, 12% other
Sampling Site: beach, banks altered, riprap on shoreline, bulkhead
Plants in area: no water plants in area
Water depth: 3 ft.
River Bottom – sandy/muddy bottom

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	10:30 AM	68.7 °F 20.4°C	11:52 AM	67.5 °F 19.7°C
	1:21 PM	81.5 °F 27.5°C	1:35 PM	78 °F 25.6°C
Wind Speed	Beaufort 1	1.3 mph	South	
Cloud Cover	Clear, few clouds			

Weather today	No rain			
Weather recently	Windy 10/15, no unusual temps., little rain last night			
<i>Turbidity</i>	11:37 AM	25.0 cm 25.0cm 19.0 cm		Average 23.0 cm
<i>Chlorophyll</i>	10:50 AM	0.7		
<i>Water temperature</i>	10:55 AM	62.6 °F 62.6 °F 62.6 °F	17°C 17°C 17°C	Average 62.6 °F 17°C
	11:20 AM	59°F 59°F 59°F	15°C 15°C 15°C	59°F 15°C
	11:55 AM	64.4°F 68°F 64.4°F	18°C 20°C 18°C	65.6°F 19°C
	1:30 PM	61.7°F 62.6°F 61.7°F	16.5°C 17.0°C 16.5°C	62°F 16.7°C
<i>Chemistry</i>				
<i>pH</i>	1:40 PM	7.8 7.6 7.6		Average 7.7
<i>DO</i>	11:43 AM	8 ppm	18°C	85% saturation
<i>Salinity</i> Quantab high range	10:45 AM	645 ppm Cl- 645 645	1165.2 ppm salinity converted	
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>	<i>CPUE</i>	<i>Seine</i>
10:15 AM	1	<i>Atlantic Silverside</i>	<i>Menidia menidia</i>	10 cm
Dip net, minnow trap, plankton net	Macro-invertebrates	<i>Scubs, zooplankton</i>		
<i>Sediment Cores</i> Station #10 Sandy Beach		Sandy, Pebbly Sediment		
<i>Tide</i>	10:54 AM		38 cm	
	11:54 AM	Rising	59 cm	0.35 cm/min
<i>Currents</i>				
<i>Time</i>	<i>CM/60 sec</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>N/S Ebb/Flood Still</i>
10:49 AM	800cm/60	13.3cm/sec	0.26 kts	N - Flood

	sec			
11:45 AM	132	2.2	0.04	N - Flood
1:02 PM	250	4.17	0.08	N - Flood
1:32 PM	444	7.4	0.14	N - Flood
<i>Shipping</i>	1:00 PM	Barge	Turquoise	North - loaded
	1:25 PM	Small boat	White	North- loaded
<i>Almanac Entry</i>	The day was picture perfect! The Hastings students were thrilled to be outside, exploring the river and enjoying the sunshine. The favorite activity was putting on the waders and getting in the water to find fish. Other students commented that they liked the chemical analysis because they felt like real scientists. Overall, the day was a real success.			