

Snapshot Day 10/8/09 Data
(Salt Front RM 60.3)
RIVER MILE 14HR - Boat
Alpine Boat Basin/Center of Hudson
Maija Niemisto, Hudson River Sloop Clearwater
Daine Langmuir – Dwight Englewood School
90 students AM/PM sessions – 7th graders
Latitude 40°57' Longitude 73°55'

Location: Docking at Alpine Boat Basin with sampling on the Hudson

Area: Channel Sampling, Rocky Shore

Surrounding Land Use: On the river – East 33% trees, 33% business; West 80% forested; 5% boats, marina; 15% rocks

Sampling Site: There are rock and timber bulkheads forming the shoreline. The Marina is made of some stationary and some floating docks. Parking lot, cliff, base, picnic area, boating and fishing

Plants in area: The shoreline is planted with trees (50%), shrubs and flowers. Grasses 5% and trees are sycamore 5%, other deciduous trees 90%,

Water depth: 5-8 ft. at sampling site – deeper at end of pier dirty but clear

River Bottom –unable to determine

Plants in water –

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature				
Wind Speed	9:30 AM AM	Beaufort #4	North	
	2:30 PM	Beaufort #2 gusts 4-5	4-6 kts. with Gusts 13-19 kts	North wind
	3:15 PM		10 mph	
Cloud Cover	Beautiful – few clouds in the east	Warm & a breezier during the day		
Weather yesterday	10/7 - Rainy and windy yesterday		10/6 - Sunny cool day before	
Water	choppy			
Water Temperature	10:55 AM	19° C		> 11 ft.
	11:10 AM	18.5° C		
	11:32 AM	20° C		
	11:49 AM	19.5° C		
Turbidity	Water seemed clear but with some cloudiness			
Chlorophyll	11:08 AM	0.5		

<i>Chemical</i>				
DO (drop count kit)	10:58 AM	9 mg/L	Temp 19° C	95% saturated
	11:10AM	8 mg/L	Temp 18.5° C	85% saturated
	11:33 AM	9 mg/l	Temp 20° C	95% saturated
	11:49 AM	9 mg/L	Temp 20° C	95% saturated
	2:50 PM	9 mg/L	Temp 23° C	100% saturated
		10 mg/L	Temp 25° C	120% saturated
pH	10:40 AM	7.5		
	11:10 AM	7.4		
	11:32 AM	7		
	11:40 AM	7		
	2:00 PM	8 8 7.5		
Salinity	<i>Time</i>	<i>Method</i>	<i>Reading</i>	
	10:45 AM	Hydrometer	6 ppt	
	10:55 AM		6 ppt	
	11:10 AM	Hydrometer	6 ppt	
	11:33 AM		6 ppt	
	11:41 AM		6 ppt	
	1:50 PM	Hydrometer	7.1 ppt	7.0 ppt
	2:08		7 ppt	8 ppt
	2:50 PM		8 pppt	6 ppt
			7 ppt	6 ppt
<i>Trawl</i>	<i>TIME</i>	<i>Species</i>	<i>Number</i>	<i>Max. Length</i>
<i>Fish – not as much fish diversity as in past D-E cruises</i>	10:00 AM	Oyster toadfish	1	10 inch
		Hog Chokers	4	4 inch
<i>Macros – blue crabs varied in size but the large 6.5 inch ones seemed huge!</i>		Blue crabs	Several male and female	6.5 inches
		Copepod		
		Comb Jelly		
		H2O Penny		
		Scud		
<i>Fish</i>	1-4 PM	White Perch	5	7 cinhes
		Spotted Hake	1	10 inches
		Hogchokers	17	4.5 inches
		Bay Anchovy	3	1.5 inches
		Atlantic Tomcod	2	5 inches
		Weakfish	4	3.75 inches
<i>Macros</i>		Blue Crab	5	7 inches
		Copepods		

		Comb Jelly		
		H2O Penny		
		Scud		
		Brown shrimp		
<i>Tides</i>				
<i>Currents</i>	9:30 AM	Flood	45.4 cm/sec	0.88 kts.
	1:24 PM	flood	17.27cm/sec	0.34 kts.
<i>Traffic</i>	10:28 AM	7 tugs/barge	Black color	anchored
	2:26 PM	Motorboat	White	southbound
	2:26 PM	3 Tug & Barge		anchored
	2:30 PM	Sailboat	White	southbound
<i>Other – AM</i>	Flocks of birds	Juvenile badl eagle		
<i>PM</i>	Eagle	Seagull	plane	