

Day in the Life of the Hudson River 10/4/12 Data

RIVER MILE 78

Quiet Cove, Poughkeepsie

Carolyn Klocker and Neil Curry from Cornell Cooperative Extension of Dutchess County, plus 6 youth employees from Poughkeepsie HS as part of NCLI

Robert Adams & Scott Jameson and other DEC Fisheries Dept.

Skip Hoover, G. W. Krieger Elementary School (27) 4th & (23) 5th grade students, 41.44°N and 73.56°W

Location: Quiet Cove, Poughkeepsie, Dutchess County

Area: Grassy area with parking lot, beach like waterfront

Surrounding Land Use: Picnics, boating and fishing – 60% is beach with rip rap banks, 40% previous industrial site

Sampling Site: An old industrial area that has been turned into a park. Used by people for picnics, fishing. Shoreline rocky, banks altered with rip rap and wooden bulkhead, boat launch for kayaks and canoes

Plants in area: none visible

Debris in area: remnants of industrial site and some papers in the water

Water depth: 160 cm in the area with concrete embankments

River Bottom – muddy in beach area

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Wind Speed</i>	<i>Precipitation & Clouds</i>
<i>Physical</i>				
Air Temperature	9:52 AM	69°F 21°C	1-3 north	Drizzle – heavy clouds and fog
	10:30 AM	69 °F 21°C	None	Showers – heavy cloud cover
	11:18 AM	77 °F 25°C	None	Rain - heavy cloud cover
	1:03 PM	77°F 25°C	None	Showers - heavy cloud cover
Wind Speed				South
Cloud Cover	cloudy			
Weather today	rain, cloudy			
Weather recently	Rain (sometimes heavy) and humid			
<i>Water Description</i>				
<i>Water Temperature</i>	1:15 PM	17°C		
<i>Turbidity – long site tube</i>	9:30 AM	35 cm	40 cm	45 cm-AVG 40 cm
	10:30 AM	49 cm	52 cm	60 cm-AVG 54 cm
	11:10 AM	55 cm	44 cm	NR -AVG 49.5 cm
	11:45 AM	30 cm	26 cm	NR- AVG 28 cm
<i>Chlorophyll</i>				

<i>Chemical</i>	TIME	DO (LaMotte elementary kit tablets)	DO - Vernier Probeware	Temp & Saturation
	9:30 AM	<4 ppm	5.1 ppm	20 °C - 42% saturated
	10:25 AM	<4 ppm	4.2 ppm	20 °C - 42% saturated
	11:05 AM	<4 ppm	4.5 ppm	21 °C - 42% saturated
	11:40 AM	<4 ppm	4.5 ppm	22 °C - 43% saturated
(LaMotte color match kit)	Time	PH	NITRATES	PHOSPHATES
	9:30 AM	7.5	<5 ppm	<1 ppm
	10:25 AM	8	<5 ppm	2 ppm
	11:05 AM	8	<5 ppm	2 ppm
	11:40 AM	7	<5 ppm	<2 ppm
Salinity				
<i>Fish Catch- 25 ft. – 3 pulls</i>	<i>Number Caught</i>	<i>Species</i>	<i>Length of largest</i>	<i>Seine - beach seine</i>
9:30-11:00 AM	1	Pumpkin Seed	14.5 cm	
	1	Red Breasted Shunfish	13 cm	
	6	Spottail Shiner	10 cm	
	1	White Perch	14 cm	
Total seine count	9	Total diversity - 4		
<i>Tides –</i>	<i>Time</i>	<i>Top of water to top of pier</i>	<i>water depth</i>	Currents
	9:33 AM	79 cm	134 cm	
	10:30 AM	78 cm	150 cm	nearly unchanged
	11:10 AM	45 cm	195 cm	rising
	11:45 AM	22 cm	195 cm	rising
<i>Currents</i>	<i>TIME</i>	<i>Time over 15 meters</i>	<i>Cm/sec</i>	<i>Direction</i>
	9:33 AM	39 secs	38.46 cm/sec	Ebb
	10:30 AM	6:55 mins	3.61 cm/sec	Ebb – nearly still
	11:10 AM	50 secs	30 cm/sec	Flood
	11:45 AM	56 secs	26.79 cm/sec	Flood
Traffic	9:30 AM	Tug boat	Cheyenne	North/Full dirt

	10:41 AM	Pleasure boat	Reinier	Southbound
	11:30AM	DEC Sheriff Boat		Southbound
	11:41 AM	Pleasure boat	white	Northbound
	11:47 AM	Mystic Cruise Ship		Northbound
	10:01PM	Pleasure Boat	White	Southbound
<i>Sediment Core – student descriptions</i>	Sample is slimy and smells like pool	The mud was fun to play with. It smells like the ocean	The mud feels sticky. It has small sticks in it and sand.	.