

**Snapshot Day 10/7/08 Data
(Salt Front RM 63.4)**

RIVER MILE 36

Croton Point Park, Croton on Hudson

Westchester County Parks Dept. – Scott Williamson

Hudson River Clearwater - Maija Niemisto

Donna Light-Donovan & Ray Ferrara – Croton on Harmon High School – 40 APES

Patricia Alberry-Lynch - Carrie E. Tompkins –120 4th graders

144 fourth grade & High School students

Latitude 41degrees 11.174’N Longitude 73 degrees 53.913’W

Location: Mother’s Lap, Croton Park NY

Area: Rocky beach surrounded by rising forested land and small yard and driveway

Surrounding Land Use: Forested 70%, Beach 30%

Sampling Site: Beach area with with raprap @ north end, collected wood debris in area

Plants in area: plants in the water - water celery beds

Water depth:

River Bottom – sandy/rocky bottom

Tide: 1.39 ft. low tide (P)*

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>		<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:00 AM	10°C		
	9:30 AM	11 °C		
	10:00AM	13 °C		
	10:30AM	13°C		
	11:00AM	17°C		
	11:30AM	18°C		
	12:00PM			
	12:30PM			
	1:00 PM	16.5°C		
	1:30 PM	17 °C		
Wind Speed	Time	Beaufort #		
	9:00 AM	1		
	9:30 AM	1		
	10:00AM	4		
	10:30AM	4		
	11:00AM	3		
	11:30AM	3		
	12:00PM	3		
	12:30PM	3		

	1:00 PM	3			
	1:30 PM	3			
Cloud Cover	None - clear				
Weather today					
Weather recently					
Water Temperature	9:00 AM	17°C			
	9:30 AM	17°C			
	10:00AM	16°C			
	10:30AM	18°C			
	11:00AM	18°C			
	11:30AM	19 °C			
	12:00PM				
	12:30PM				
	1:00 PM	17°C			
	1:30 PM	17°C			
Turbidity – Small site tube	9:00 AM	40 JTU			
	9:30 AM	50 JTU			
	10:00AM	15 JTU			
	10:30AM	15 JTU			
	11:00AM	5 JTU			
	11:30AM	5 JTU			
	12:00PM	45 JTU ???			
	12:30PM	45 JTU ???			
	1:00 PM	5 JTU			
	1:30 PM	5 JTU			
Chlorophyll	9 :00	taken	9:30 AM	taken	
Sediment Core	9:00 AM	Brown, rocky, mainly clay, because it maintains a shape, has 1 worm			
	9:30 AM	Brown, rocky, mainly clay, because it maintains a shape,			
	10:00AM	3 inches – light to dark brown, shell pieces, sand			
	10:30AM	2 inches light grey to dark brown, shell fragments, sand particles			
	11:00AM	13 cm. light brown to black, no plant material, very fine			
Chemical	TIME	DO	pH	Nitrates	Phosphates

	9:00 AM	10 ppm	7.5	1.5 ppm	1 ppm
	9:30 AM	10 ppm	7.5	1.0 ppm	0 ppm
	10:00AM	7 ppm	7	1.0 ppm	1 ppm
	10:30AM	7 ppm	6	1.0 ppm	1 ppm
	11:00AM	11 ppm	7.5	1.0 ppm	1 ppm
	11:30AM	11 ppm	7.5	1.0 ppm	1 ppm
	12:00PM		7.5	2.5 ppm	
	12:30PM		8	2.5 ppm	
	1:00 PM	11 ppm	8	2 ppm	1 ppm
	1:30 PM	8 ppm	7	2 ppm	1 ppm
Salinity -	9:00 AM	4.5 ppt chloride			
Chloride test kit -	9:30 AM	4.5 ppt chloride			
	12:00PM	4.5 ppt chloride			
	12:30PM	4.5 ppt chloride			
Tides	Time	Tide Stick			
	1:00 PM	1.39 ft. low tide (P)*			
Currents	9:00 AM	ebb			
	9:30 AM	ebb			
	10:00AM	ebb			
	10:30AM	ebb			
	11:00AM	flood			
	11:30AM	flood			
	12:00PM	flood			
	12:30PM	flood			
	1:00 PM	flood			
	1:30 PM	flood			
Fish Catch & Macros	Macros	Fish Species		Count	Largest
9:00 AM – Seine #1 – 50 foot net 125 foot pull	Crab* Anabena	Striped Bass Yellow Perch Pipe Fish Silversides Darter Shrimp Blue Claw Crab*	12 6 1 36 2 3 3	2.5 inch 3 inch 2.5 inch 3 inch 0.5 inch 1.5 inch 1.0 inch	
TOTAL CATCH: 72					
10:00AM	Crab Worm				
10:30AM - Seine #2 - 50 foot net 125 foot pull	Anabena	Striped Bass Pipefish Silverside White Perch Darter Shrimp	14 4 13 7 2 5	5 inch 8 inch 5 inch 3 inch .75 inch .75 inch	
TOTAL CATCH:					

59		Blue Claw Crab	4	3 inch
12:00PM Seine #3 - 50 foot net 200 foot pull TOTAL CATCH : 125	Algae Hyaella Chaetogaster	Stickle Back Silverside White Perch Darter Striped Bass Large Mouth Bass Killifish Pipefish Mummichog American Eel Shrimp Crab	5 29 41 3 11 6 9 3 1 1 16 4	.75 inch 2.5 inch 3.5 inch 1 inch 2.5 inch 2 inch 2.5 inch 4 inch .75 inch 4 inch 1.5 inch 3.5 inch
1:00 PM	Oyster shells			
1:30 PM	Algae crassostrea virginica (oyster) Water celery			
Traffic	10:00AM	Boat		
	10:30AM	Boat		