

Day in the Life of the Hudson River 10/12/17 Data
(Salt Front ~RM 65)
RIVER MILE 35E

Croton Point Park, Croton on Hudson

Donna Light-Donovan – Croton Point High School - 24 9th & 12th graders, 3 adults

Latitude 41.2084 N Longitude 73.8912 W

Location: Mother's Lap, Croton Park NY

Area: Rocky beach surrounded by rising forested land, pier, beach, grassy, landfill

Surrounding Land Use: Beach 80%, 20% landfill across the road, Forested behind

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

River Bottom – sandy bottom

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>		<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:30 AM 2:30 PM	21°C 20 °C		
Wind Speed	9:30 AM 2:00 PM	Beaufort #2 Beaufort #2		
Cloud Cover	clear			
Weather today	Clear			
Weather recently	Cold			
<i>Water Temperature</i>	9:30 AM 2:00 PM	21 ° C 20 ° C		
<i>Water</i>	Calm			
<i>Chemical</i>	<i>TIME</i>	<i>Reading</i>		
<i>DO - surface</i>	9:30 AM 2:00 PM	6.0 ppm 12 ppm	65% 130%	
pH	AM	6		
<i>Salinity – Quantabs HR</i>	9:30 AM	5426 ppm chloride	9802 ppm TS	10 ppt rounded
<i>Refractometer</i>	9:30 AM			10 ppt
<i>Turbidity - Secchi</i>	9:30 AM 2:15 PM	103.9 cm and 61 cm 391.2 cm		
<i>Turbidity – Long tube</i>	9:30 AM 2:15 PM	52.87 cm average 66 cm average	51.1, 45.1, 62.4 cm 85, 37, 76 cm	
<i>Sediment Core</i>	Comment	Abundant	Common	Rare
<i>1:45 PM in 3 ft. water</i>		Sand		Mud
<i>Fish –</i>	<i>AM & PM</i>	<i>Species</i>	<i>length</i>	
Seine 15 ft. X 4 ft. tall	4	Atlantic Silversides	5.5 cm	DIVERSITY 2
Students seined 2 times Am and in PM – all organisms caught in second	1	Northern Pipefish	2.2 cm	TOTAL CATCH 5

seine each time				
Macros - AM	1	Moon jelly		
	4	Crabs (blue)	2.5 cm	
PM	4	Crabs (blue)	2.5 cm	
	2	Crabs (blue)	5.08 cm	
Total Fish	5	Diversity 2		
Total Macro	11	Diversity 2		
Tides	9:00 AM	Low tide		
	2:00 PM	Tide flooding		
Currents	9:00 AM	Still – orange didn't move in over 30 minutes		Sample area is in a small embayment
	2:00 PM	119.48 cm/30 secs	3.98cm/sec	