

Day in the Life of the Hudson River 10/22/19 Data
(Salt Front ~RM 53)
RIVER MILE 35E
Croton Point Park, Croton on Hudson
Alethea Lyncg– Croton Point High School - 80 3rd graders, 30 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 raprap @ north end, collected wood debris in area

River Bottom – sandy bottom

***SAMPLED WITH ESTUARY WIDE SAMPLING KIT**

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>		<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:31 AM	14, 14°C,	56, 57 °F	
	10:57	14.6, 14.5	58, 58	
	11:00	14, 14.5	58, 58	
	11:22	14, 14	58, 58	
	11:54	14,14	58. 58	
	12:20 PM	14,14	58, 58	
	1:10 PM	14.5,14.5	58, 59	
	1:20 PM	15, 15	59, 59	
Wind Speed – Beaufort and Anemometer*	10:31 AM	Beaufort #1	2.6 mph*	
	10:52	Beaufort #0	0.0	
	11:15	#2	2.6	
	11:30	#3	4.5	
	11:54	#3	3.2	
	12:20 PM	#0	0	
	1:10 PM	#1	0	
	~1:30 PM	#2	6.9	
Cloud Cover	All sampling Mostly cloudy	Stratus Clouds	No precip.	
Weather today	Clear			
Weather recently	Cold			
Water Temperature	10:35 AM	57 ° F	14 ° C	
	10:50 AM	61° F	16 ° C	
	11:10 AM	61	16	
	11:30 AM	61	16	
	11:45 AM	55	12	
	12:45 PM	61	16	
	1:05 PM	58	14	
	1:20 PM	58	14	
Water	Calm			
<i>Chemical</i>	<i>TIME</i>	<i>Temp in °C</i>	<i>DO reading</i>	<i>% saturation</i>
DO – surface estuary wide kit in	10:45 AM	14°C	4	
	11:06 AM	16	0	

<i>the shade</i>	11:20 AM 11:40 AM 12:00 PM 1:00 PM 1:15 PM 1:30 PM	16 16 17 16 14 14	4 4 4 4 4 4	
pH	Time	Reading 1	Reading 2	Average
	10:36 AM 10:50 AM 11:07 AM 11:28 AM 11:46 AM 12:44 PM 1:05 PM 1:17 PM	7 7 7 7 6 6 6.5 6	7 7 7 7 6 6 6 7	7 7 7 7 6 6 6 6.5
Nitrates	10:49 AM 11:10 AM 11:19 AM 11:32 AM 11:40 AM 11:50 AM 12:00 PM 12:49 PM 1:08 PM 1:20 PM 1:28 PM	2-3 ppm 7 ppm 6 ppm 4 ppm 5 ppm 6 ppm 7ppm 5 ppm 5 ppm 5ppm 5ppm	61 degrees F 61 61 61 61 61 61 61 61 58 58	
Salinity – Hydrometer	10:40 – 1:30 PM	Below Detection for this tool		
Turbidity	N/R			
Sediment Core	Comment	Abundant	Common	Rare
NR				
Fish –	Catch #	Species	length	
Seine	7	Atlantic Silversides	5.5 cm	DIVERSITY 2
	3	American eel		TOTAL CATCH 10
Macros - AM	13	Blue Crab		DIVERSITY 4
	5	Shore Shrimp (palaemonetes)		TOTAL CATCH 37
	5	Sand Shrimp (crangon)		
	16	Moon Jelly		

Tides	NR			
Currents	NR			
	2:00 PM	119.48 cm/30 secs	3.98cm/sec	
Commercial Boats	Time	Color	Full/Empty	Type
Direction				
S	10:33 AM	Red	Full	Large Red Barge
Recreational Boats	Time	Color	Gas, Wind, Human	Type
Direction				
NE	11:08 AM	White	Gas	Motorboat/fish
S	12:40 PM	White	Gas	Motorboat
S	12:40 PM	White/Black	Gas	Motorboat
Observations	Saw smoke from Indian Point			