

Day in the Life of the Hudson River 10/13/22

Haverstraw Bay Park, Haverstraw, NY

RIVER MILE: 38

Salt Front: ~ RM76

Millie Mendelson & Adam Yuan - Albertus Magnus High School

NYS SCA & Rockland County Parks

(Honor's Biology, 9th grade & Environmental Pollution, 11th & 12th grade) –

45 students & 4 adults

Latitude 41.212805 N & Longitude – 73.963990 W



Location: Haverstraw Bay Park, Haverstraw, NY

Area: North Shore of Haverstraw Bay Park

Surrounding Land Use: 65% Urban/Residential, 30% Industrial/Commercial, 5% Beach

Sampling Site: Pier, forested, grassy, beach, altered banks, parking lot, covered in vegetation, RipRap, concrete bulkhead, marshy

Shoreline: 40% Sandy, 20% Muddy, 40% Rocky

Water: Choppy

Plants in area: No plants in the water

River Bottom: muddy, sandy, and rocky

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
<i>Physical</i>					
<i>Air Temperature</i>	10:09 AM	17.8° C	64°F		
	10:29 AM	18.3° C	65°F		
	11:05 AM	17.8° C	64°F		
<i>Wind Speed:</i>	11:06 AM	<i>Anemometer</i> 12 mph	<i>Beaufort</i> 3	<i>Direction</i> S/SE	
<i>Weather today</i>	10:57 AM	> 75% cloud cover	Drizzle		
<i>Weather the past 3 days:</i>	Sunny high 60's; seasonable				
<i>Tides- Tide Stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>	
	9:50 AM	Rising		55 cm	
	10:14 AM	Rising		65 cm	
	10:22 AM	Rising		70 cm	
	10:32 AM-	Rising		75cm	
	10:57 AM	Rising		85cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	9:55 AM	53	NR	NR	Flood
	10:04 AM	203			Flood
	10:08 AM	33			Flood
	10:11 AM	21			Flood

	10:28 10:32 AM 10:46 11:02 AM	64 104 43 50			Flood Flood Flood Flood
Water Temperature-	9:52 AM 10:18 AM 10:36 AM 10:45 AM	17.15 ° C 17 ° C 17.4 ° C 17.4 ° C		62.87 ° F 62.6 ° F 63.3 ° F 63.3 ° F	Averages
Turbidity- Long sight tube (120 cm)	10:30 AM 10:54 AM 11:53 AM 12:03 PM	48.25 cm 27.25 cm 22.67 cm 27.56 cm		Each reading average of 3	
Secchi Disk (cm)	10:04 AM 10:37 AM	58 cm 44.33 cm		Each Reading Average of 3	
Chemical					
Salinity- HR Quantabs	10:11 AM 11:02 AM 12:10 PM	7.8 quantab units 7.9 quantab units 7.8 quantab units		3216 3365 3216	5,810 ppm 6079.ppm 5810 ppm
Standardized Salinity – HR Quantab	10:36 AM	7.8 quantab units		3216	5,810 ppm
DO – Hach Drop Count Kit	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% saturation</i>
	9:52 AM 19:18 AM 10:45 AM	17.2° C 17.0° C 17.4° C		10.5ppm 10ppm 8ppm	105% 104% 85%
pH – Color Match Kit	9:57 AM 10:30 AM 10:58 AM	7.0/7.2/7.2 7.2 7.2/7.3			Morning average 7.2
Nitrates- NR					
Phosphates- NR					
Alkalinity- NR					
Biological					
Fish – Seine	Number	Name		Length of longest	Length of smallest
9:50 AM- 12:15 PM	182 9	Atlantic Silverside Striped Bass			
Fish Totals	TOTAL: 191	Diversity: 2			
Macroinvertebrates	Number	Name		Length of longest	Length of smallest
Macroinvertebrate Totals	TOTAL: 0	Diversity: 0			
Sediment Core - NA, too rocky to core					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
Boats-					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	9:57 AM 10:13AM 10:26AM 10:36AM 12:20PM	NR Tug NR Cargo NR	White Black NR Grey Red, Brown	Northbound Southbound Northbound Southbound Southbound	Light Loaded Loaded Loaded Loaded
Residential	9:50 AM	Jetski	Blue	Northbound	N/A

	10:50AM	Speed Boat	White	Northbound	N/A
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