

Day in the Life of the Hudson River 10/14/21

Norrie Point Environmental Center

RIVER MILE: 84.5

Salt Front: ~ 49

Maija Niemisto, NYSDEC & FDR High School

10 students & 4 adults

Latitude 41° 49' 55'' N & Longitude – 73° 56' 32'' W

Location: Norrie Point Environmental Center, Norrie Point, Dutchess County, NY

Area: East side of the Hudson, far from the main channel in a protected cove. Substantial paved areas nearby, large environmental center building adjacent to the water. Shallow cove facing south onto the Hudson River, bordered by riprap embankment, dock

Surrounding Land Use: 90% Forested; 10% Residential

Sampling Site: Front banks altered with riprap, cove is very muddy with some riprap and the west side is rocky

Shoreline: beach area, shore with bulkhead, shoreline riprap, banks altered for DEC building, riprap along the railroad tracks, piping entering river area

River Bottom: 50% muddy, 50% rocky

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
<i>Physical</i>					
<i>Air Temperature</i>	10:00 AM	22.1 ° C		71.78° F	
<i>Wind Speed:</i>	10:00 AM	<i>Anemometer</i> 1.0 m/s		<i>Beaufort</i> NR	<i>Direction</i> S
<i>Weather today</i>	9:00 AM	26-50% cloud cover		No Rain	
<i>Weather the past 3 days:</i>	Foggy but no rain Warm, wind & foggy (in the mornings)				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
	9:00 AM 9:57 AM 11:06 AM	Falling Falling Falling		139.7 cm 133.35 cm 106.68 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	10:30 AM	1.94	0.0377	South	Ebb
<i>Water Temperature-</i>	12:00 PM	19.5° C		67.1° F	
<i>Turbidity- Long Sight Tube</i>	12:22 PM 3:50 PM	39 cm 23.5 cm			
<i>Chemical</i>					
<i>Salinity- Hydrometer Refractometer</i>	12:04 PM	0 ppm		*Below Detection for these methods	
<i>Standardized Salinity – LR Quantabs</i>	12:10 PM	76 ppm			
<i>DO – Hach Drop Kit</i>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% saturation</i>
	12:15 PM	19.5° C		9 ppm	100%

<i>pH – color match kit</i>	12:15 PM	7			
<i>Nitrates- NR</i>					
<i>Phosphates-NR</i>					
<i>Biological</i>					
<i>Fish -</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
<i>Seined 6 times</i>	1 11 18 6 1 12 28 11 1 7	American Eel Herring sp. Spottail Shiner Banded Killifish White Perch Redbreast Sunfish Pumpkinseed Bluegill Largemouth Bass Tessellated Darter	NR	NR	
Fish Totals	TOTAL: 96	Diversity: 10			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	1	Blue Crab	NR	NR	
Macroinvertebrate Totals	TOTAL: 1	Diversity: 1			
<i>Sediment Core</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
13.5 cm	No	No	No	Abundant: mud, sand Common: clay, gravel Rare: pebbles	Common: leaves Rare: wood
<i>Boats</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	9:50 AM 10:50 AM	Hamilton Ann	White/YellowRed/Black	Southbound Northbound	Light Loaded
Residential - NR					