

Day in the Life of the Hudson River 10/13/22
Norrie Point, Staatsburg, NY
RIVER MILE: 84.5
Salt Front: ~ RM76
NYS DEC- Maija Liisa Niemisto
Poughkeepsie High School- Nicole Vilardi
12 students & 4 adults
Latitude °N & Longitude – °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

Water: NR

Plants in the Water: NR (but area has lots of water chestnut)

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature-</i>	11:30 AM	18.95°C		66.11°F
<i>Wind Speed:</i>	10:03 AM	<i>Anemometer</i> 0.9 m/s	<i>Beaufort</i> NR	<i>Direction</i> NW
<i>Weather today</i>	11:30 AM	>75% cloud cover		Drizzle
<i>Weather the past 3 days:</i>	No Rain			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>
	11:30 AM			Recorded as Low
<i>Current- NR</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i> <i>Ebb/Flood/Still</i>
<i>Water Temperature-</i>	10:43 AM	17°C		63°F
<i>Turbidity- Long Sight Tube (120 cm)</i>	10:23 AM	38 cm/23.8/19 cm		Average 27 cm
	11:51 AM	15/34/27.3 cm		Average 25.33 cm
Chemical				
<i>Salinity-Hydrometer</i>	10:31 AM	NR		
<i>Standardized Salinity – LR Quantabs</i>	11:45 AM	78 ppm		
<i>DO – Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:51 AM	17°C	10 ppm	100%
	12:23 PM	17°C	8 ppm	85%
<i>pH – Test Strips* not recommended for sampling</i>	11:01 AM	6.8/7.2/6.8		7.0
	11:59 AM	6.8/6.8/6.8		6.8
<i>Nitrates- NR</i>				
<i>Phosphates- NR</i>				
<i>Alkalinity- test strip</i>	11:54 AM	120/120/120/ average 120 ppm 180/170/180 average 178 ppm		
Biological				

<i>Fish – Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
10:27 AM & 11:57 AM	8 2 1 22 2 1	Shiner Banded Killifish Redbreast Sunfish Pumpkinseed Bluegill Tessellated Darter	*listed as spottail shiner on full sheet based on prior catches		
Fish Totals	TOTAL: 36	Diversity: 6			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	13 (1F,12M)	Blue Crab			
Macroinvertebrate Totals	TOTAL: 13	Diversity: 1			
<i>Sediment Core – 1:50 PM collected</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
NR	No	Yes (6.25 cm)	No	Abundant: gravel Common: mud & sand	Rare: oyster shells, mussel shells, macroinvertebrates, living vegetation
<i>Boats- NR</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Recreational					