

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

Norrie Point Environmental Center

RIVER MILE: 84.5

Salt Front: ~ 49

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9 students & 3 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>
Physical				
<i>Air Temperature</i>	3:38 PM	27° C	80.6 ° F	
<i>Wind Speed:</i>	3:38 PM	<i>Anemometer</i> 0.9 m/s	<i>Beaufort</i> NR	<i>Direction</i> SW
<i>Weather today</i>	3:40 PM	>75% 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>	
	3:33PM-4:15 PM	Slack Falling	36 cm 28 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i> <i>Ebb/Flood/Still</i>
	NR			
<i>Water Temperature-</i>	4:09 PM	12° C	53.6° F	
<i>Turbidity- Long Sight Tube</i>	3:50 PM	23.5 cm		
Chemical				
<i>Salinity- Hydrometer Refractometer</i>	4:05 PM	0 ppm	*Below Detection	
<i>Standardized Salinity – LR Quantabs</i>	NR			
<i>DO – Hach Drop Kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	4:14PM	12° C	11 ppm	105%
<i>pH – color match kit</i>	3:58 PM	7.5		
<i>Nitrates- NR</i>				
<i>Phosphates-NR</i>				
Biological				
<i>Fish -</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>
<i>Seined 2 times</i>	7	American Shad	NR	NR

	5	Golden Shiner			
	20	Spottail Shiner			
	9	Banded Killifish			
	2	Redbreast Sunfish			
	17	Pumpkinseed			
	10	Bluegill			
	1	Smallmouth Bass			
	3	Tessellated Darter			
Fish Totals	TOTAL: 172	Diversity: 13			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	2	Blue Crab	NR	NR	
Macroinvertebrate Totals	TOTAL: 2	Diversity: 1			
<i>Sediment Core</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
NR					
<i>Boats</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Residential - NR					