

**Day in the Life of the Hudson River 10/22/19**

**NORRIE POINT, STAATSBURG**

**RIVER MILE: 84.5**

*Salt Front: ~ RM 53*

**Poughkeepsie High School- Sharon Considine**

**24 students 11-12<sup>th</sup> grade AP. Environmental Science, 3 adults**

**NYS DEC Staff - Maija Niemisto, Jim Herrington, SCA**

**Latitude 41.83242 N & Longitude – 73.94129 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

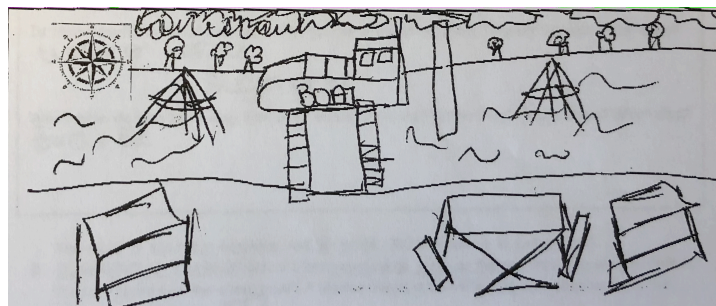
**Sampling Site:** Front banks altered with riprap, cove is very muddy with some riprap and the west side is rocky

**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

**Plants in water:** Water chestnuts and water celery remains

**Water:** calm



<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<b>Physical</b>				
<i>Air Temperature</i>	10:45 AM	57 ° F		
<i>Wind Speed</i>	12:05 PM	Beaufort 1	2 mph	West
<i>Weather today</i>	10:45 AM overcast (100%), no rain			
<i>Weather the past 3 days</i>	Rained yesterday, windy			
<i>Tides- tide stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (in)</i>	<i>Rate of Tidal Change (cm/min)</i>
*HT 8:21 AM	9:55 AM	Falling	56 inch	NA
	10:45 AM	Falling	50 inch	0.12
<i>Current</i>	<i>Time</i>	<i>Speed</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	NR			
<i>Water Temperature</i>	9:55 AM	52 ° F		
	10:45 AM	57 ° F		
	10:57 AM	52 ° F		11 ° C
<i>Turbidity-</i>	NR			
<b>Chemical</b>				
<i>Salinity- Hydrometer</i>	<i>Time</i>	<i>Chloride ppm</i>	<i>Total Sal. ppm</i>	
	10:45 AM		Below Detection for this instrument	
<i>DO – drop count</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9:55 AM	11 ° C	7	
	10:45 AM	11 ° C	*12	* Seems high compared to others
	11:12 AM	11 ° C	7	
<i>pH – Test strips color match kit</i>	10:45 AM	7.2		
	11:04 AM	7.5		
<b>Biological</b>				
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	

Seine 30'	18	Banded Killifish	11.5 cm	
	34	Spottail Shiner	13 cm	
	5	Goldfish	7.5 cm	
	47	Pumpkin Seed	5 cm	
	6	Tessellated Darter	7.5 cm	
	1	Red breasted sunfish	2.5 cm	
	2	Striped Bass	7.5 cm	
	3	American Eel	28 cm	
	11	Bluegill Sunfish	NR	
<b>Fish Totals</b>	<b>TOTAL: 127</b>	<b>Diversity: 9</b>		
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	
	3	Blue Crab		
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 3</b>	<b>Diversity: 1</b>		
<b>Sediment Core</b>	<b>Time</b>	<b>Oxid Top</b>	<b>Grain Size</b>	<b>Other Features</b>
NR				
<b>Boats</b>	<b>Time</b>	<b>Name/Color</b>	<b>North/South</b>	<b>Loaded/Light</b>
NR				
<b>Observations</b>	Water chestnut seeds, birds, bees			