

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

NUTTEN HOOK

RIVER MILE: 124.5

Salt Front: ~ RM 53

Averill Park High School- Vicky Boulay and 2 teachers and SCA

70 students 9-10th grade

Latitude 42.358271 N & Longitude – 73.78818 W

Location: Nutten Hook, Green County, NY

Area: Beach, forested bluff, large march behind bluff, DEC public access, used for picnics, water access

Surrounding Land Use: 45% Beach; 55% Forested

Sampling Site:

Shoreline: Sandy and rocky, riprap, banks altered in some areas with bulkhead, brick and slag on ground

River Bottom: sandy, muddy

Water: 3 ft depth

Sampling Time: 8:30-1:30 PM

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	8:30-1:30PM	16.9 ° C 10 ° C 11.1 ° C 11.7 ° C 16.8 ° C 13.8 ° C		
<i>Wind Speed:</i>	8:30-1:30 PM	0.4 mph, 0.4 mph 0.2 mph 1.53 mph 0.36 mph 1.3 mph		
<i>Weather today</i>	Overcast (100%)			
<i>Weather the past 3 days:</i>				
<i>Tides- tide stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Change in Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
*Recorded as change in height of water in cms on tide stick.	8:30-1:30PM	<i>no direction noted</i> LT 5:06 AM HT10:53 AM	3 5.5 8.5 11 0 6	
<i>Water Temperature- probe</i>	8:30-1:30 PM	12.04 ° C 11.81 ° C 11.48 ° C 11.6 ° C 11.5 ° C 11.48 ° C		
<i>Turbidity- long sight tube</i>	8:30-1:30PM	22.8 cm, 26.8 cm, 25.12 cm, 33.3 cm, 23.96 cm, 23.2 cm		
Chemical				
<i>Salinity-</i>	<i>Time</i>	<i>Recorded as Salinity Probe but numbers indicate conductivity in micro siemen</i>		

	8:30-1:30 PM	360.3, 415.98, 422.19, 430.02, 442.08, 490.29		
DO –	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	8:30-1:30 PM	12.04 ° C 11.81 ° C 11.48 ° C 11.6 ° C 11.5 ° C 11.48 ° C	11.3 9.4 9.6 9.29 9.28 9.47	
pH –	8:30-1:30PM	6.14, 6.08, 5.8, 6, 5.69, 5.9		<i>* readings seem low</i>
Biological				
Fish	Number	Name	Length of longest	
Seine	11 2 1 1 1 2	Spottail Shiner Sunfish Small Mouth Bass White Perch Banded Killifish Herring	12.7 cm 15.2 cm NR NR 8.9 cm NR	<i>*fish were returned to water after each seine so possibility of recatch. Only recorder the largest of each catch</i>
Fish Totals	TOTAL: 18	Diversity: 6		
Macroinvertebrates	Number	Name	Length of longest	
	NR			
Macroinvertebrate Totals	TOTAL:	Diversity:		