

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

Henry Hudson Park, Bethlehem

RIVER MILE: 138

Salt Front: ~ 49

Sarah Loya & the 5th grade class of Albany Academy for Girls

18 students & 3 adults

Latitude 42.543455 N & Longitude – 73.759119 W

Location: Henry Hudson Park Waterfront, Bethlehem, Albany County, New York

Area: Park/boat launch, used for picnics, just north of Vloman Kill

Surrounding Land Use: 100% parkland with 75% vegetated coverage

Sampling Site: Grassy, parking lot, banks altered, riprap, bulkhead rocky

Plants in area: Water chestnuts – pulled out many of these

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
Physical					
<i>Air Temperature</i>	11:00 AM	22 ° C	71.6 ° F		
<i>Wind Speed:</i>	11:00 AM	<i>Anemometer</i> 1-3 mph	<i>Beaufort</i> 1	<i>Direction</i> North	
<i>Weather today</i>	11:00 AM	51-75% cloud cover	No rain		
<i>Weather the past 3 days:</i>	Dry and warm. 50s in the AM and low 70s by PM				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>		
	10:00 AM- 11:00 AM 1:00 PM	Start Rising Falling	Marked waters edge 8 cm change 6 cm change		
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	Full sampling period	NR	NR	South	Ebb
<i>Water Temperature-</i>	11:00 AM	20° C	68° F		
<i>Turbidity- Long Sight Tube</i>	10:00 AM 11:00 AM 12:45 PM	71, 76 cm 85, 97 cm 77 cm	Average 73.5 cm Average 91 cm		
Chemical					
<i>Salinity- Low Range Quantabs</i>	11:00 AM	1.0 to 1.2 quantab units (<32 ppm)	BD for this sampling instrument		
<i>Standardized Salinity-</i>	NR	NR			
<i>DO – Hach Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% Saturation</i>	
	11:00 AM	20° C	10	NR	
<i>pH – Color Match Kit</i>	11:00 AM	7.75			
<i>Nitrates-</i>		NR			
<i>Phosphates-</i>		NR			
Biological					
<i>Fish -</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
*9 seines, hard during high tide with rocks and concrete in the water					
Fish Totals	TOTAL: 0	Diversity: 0			

<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
Macroinvertebrate Totals	TOTAL:0	Diversity: 0			
<i>Observations</i>					
<p><i>AREA:</i> Many water chestnut <i>SEDIMENT CORE:</i> smelled fishy and muddy, texture was smooth and gritty, colors were brown, grey, green and orangish, included mud, sand, clay, tiny rocks, some leaves</p>					
<i>Sediment Core</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
8 cm	No	No	No	Rare: Gravel Common: Clay, Sand Abundant: Mud	Rare: Leaves
<i>Boats-NR</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	10:09	Tugboat			
Residential	10:38	Motorboat			