

Day in the Life of the Hudson River 10/05/2023
Henry Hudson Park, Bethlehem, NY
RIVER MILE: 138
Salt Front: ~ RM 52
The Albany Academies-Sarah Loya
36 students, 5th grade, 5 adults
Latitude 42.543455°N & Longitude -73.759119°W

Location: Waterfront of Henry Hudson Park, Bethlehem, Albany County, NY

Surrounding Land Use: 100% parkland with 75% vegetated coverage- grassy, parking lot, used for picnics, boating, fishing

Sampling Site: West side of the Hudson River, park/boat launch just north of the Vloman Kill. Banks altered, ripraps, bulkhead

Shoreline: Rocky

Water: NR

River Bottom: NR

Plants in the water: NR

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
Physical					
<i>Air Temperature</i>	9:20 AM	22° C	71° F		
	9:57 AM	22° C	71° F		
	10:43 AM	25° C	77° F		
	11:20 AM	23° C	73° F		
	12:34 PM	26° C	78.8° F		
<i>Wind Speed:</i>	11:00 AM	<i>Anemometer</i> 3-5 mph	<i>Beaufort</i> 1-2	<i>Direction</i> South/Southeast	
<i>Weather today</i>	11:00	<25% Cloud Cover	No Rain		
<i>Weather the past 3 days:</i>	Unseasonably warm, no precipitation				
<i>Tides- Tide Stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
	9:03 AM-1:00 PM	Falling			
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	9:20 AM	2.68		South	Ebb
	9:57 AM	14.2		South	Ebb
	10:43 AM	23.3		South	Ebb
	11:20 AM	34.5		South	Ebb
	12:34 PM	7.6		North	Flood
<i>Water Temperature-</i>	11:00 AM	20°C	68°F		
<i>Turbidity- Long Sight Tube (120 cm)</i>	9:20 AM	86 cm			
	9:50 AM	55.6 cm			
	10:44 AM	87.4 cm			
	11:00 AM	83.2 cm			
Chemical					
<i>Student Salinity- Low Range Quantabs</i>	11:00 AM	29 ppm Cl		52 ppm Total Salinity	
<i>DO – Hach Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% saturation</i>
	9:10 AM	20°C		10 ppm	
	9:50 AM	20°C		9 ppm	

	11:00 AM 11:25 AM 12:45 PM	20°C 20°C 20°C	11 ppm 10 ppm 10 ppm			
<i>pH – Color Match Kit</i>	9:10 AM 9:50 AM 11:00 AM 11:25 AM 12:45 PM	7.3 7.5 7.3 7.8 7.3				
Biological						
<i>Fish-Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Notes</i>		
9:30 AM-1:15 PM	0	Note that in the area they seined they cleared a lot of water chestnut – perhaps the dense plant affected the fish catch?		*Seined 10 times and did not catch anything		
Fish Totals	TOTAL: 0	Diversity: 0				
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>			
Macroinvertebrate Totals	TOTAL: 0	Diversity: 0				
<i>Sediment Core</i>	<i>Time</i>	<i>Oxid Top</i>	<i>H₂S Smell</i>	<i>Oil</i>	<i>Grain Size</i>	<i>Other Features</i>
18 cm		No	No	No	<i>Abundant:</i> Sand, Gravel & Pebbles <i>Common:</i> Mud <i>Rare:</i> Clay	<i>Common:</i> Leaves <i>Rare:</i> Living vegetation

Boats-NR

Commercial/Recreational	Time	Name	Color	Southbound/Northbound	Light/Loaded