

**Day in the Life of the Hudson River 10/13/22**

**Henry Hudson Park, Bethlehem, NY**

**RIVER MILE: 138**

*Salt Front: ~ RM76*

*The Albany Academy– Sarah Loya*

*19 students & 4 adults*

**Latitude 42.543455°N & Longitude – 73.759119°W**

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

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

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

**Surrounding Land Uses:** 100% parkland with 75% vegetated cover

**Shoreline:** NR

**River Bottom:** NR

**Water:** NR

**Plants in the Water:** Water chestnuts

\*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>			<i>Comments</i>
<i>Physical</i>					
<i>Air Temperature-</i>	10:13 AM	18°C	64.4°F		
	11:00 AM	20°C	68°F		
	11:41 AM	21°C	69.8°F		
	12:55 PM	21°C	69.9°F		
<i>Wind Speed:</i>	11:10 AM	<i>Anemometer</i> 4-7 mph	<i>Beaufort</i> 2	<i>Direction</i> N	
<i>Weather today</i>	11:00 AM	51-75% cloud cover	Drizzle		
<i>Weather the past 3 days:</i>	Scattered rain and seasonable temperatures- slightly warmer afternoons				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>	
	10:50 AM- 11:30 AM	Falling		Fell 13 cm	HT @ 8:19 AM LT @ 2:41 PM
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	11:00 AM 11:41 AM 12:00 PM	2 5 2	NR	South South North	NR
<i>Water Temperature-</i>	11:15 AM	18°C	64°F		
<i>Turbidity- Secchi Disk (cm)</i>	10:50 AM 11:30 AM 12:15 PM 1:40 PM	180 cm 190 cm 170 cm 180 cm			
<i>Chemical</i>					
<i>Salinity-LR Quantabs</i>	11:00 AM	70 ppm total	1.7 quantab units (between 1.6 and 1.8)	39 (between 34-42) ppm Cl-	
<i>Standardized Salinity – LR Quantabs</i>	10:52 AM	65 ppm	1.6 quantab units	36 ppm Cl-	
<i>DO – Hach Drop Count Kit</i>	<i>Time</i> 10:40 AM	<i>Temp</i> 18°C	<i>ppm DO</i> 10 ppm	<i>% saturation</i> NR	
<i>pH – Color Match Kit</i>	10:10 AM 10:50 AM 11:40 AM 12:55 PM	7.9 7.5 7.9 7.7			
<i>Nitrates- NR</i>					

<i>Phosphates- NR</i>					
<i>Alkalinity- NR</i>					
<b>Biological-</b>					
<i>Fish – Seine -16 seines</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
<i>10:00 AM-2:00 PM</i>	11	Spottail Shiner	5 cm	5 cm	
<b>Fish Totals</b>	<b>TOTAL: 11</b>	<b>Diversity: 1</b>			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 0</b>	<b>Diversity: 0</b>			
<b><i>Sediment Core – Too rocky; could not get sample</i></b>					
<b>Length</b>	<b>H2S smell</b>	<b>Oxid Top</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>
<b><i>Boats- NR</i></b>					
	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/Southbound</b>	<b>Light/Loaded</b>
Commercial					
Recreational					