

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

**Alpine Boat Basin**

**RIVER MILE: 19**

*Salt Front: ~ 76*

**Alpine School– Lisa Wolfe**

*24 students & 3 adults*

**Palisades Interstate Park Commission Ranger – Christina Fehre & staff**

**Latitude 40.9458 N & Longitude – 73.9183 W**

**Location:** Alpine Boat Basin

**Area:** At the beach and pier of the Alpine Boat Basin

**Sampling Site:** Pier, forested, beach, altered banks, grassy, parking lot

**Surrounding Land Uses:** 25% Urban/Residential, 40% Forested, 25% Industrial/Commercial, 10% Beach

**Shoreline:** 25% Sandy, 75% Rocky

**River Bottom:** Muddy and sandy

**Water:** Calm: 140 cm

**Plants in the Water:** No Plants in the water

\*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<b>Physical</b>				
<i>Air Temperature-</i>	9:59	21.5°C	72°F	
	10:54 AM	21°C	70°F	
<i>Wind Speed:</i>	9:57	<i>Anemometer</i> NR	<i>Beaufort</i> 3	<i>Direction</i> S
	10:56 AM	NR	4	S
<i>Weather today</i>	10:45 AM	>75% cloud cover	No Rain	
<i>Weather the past 3 days:</i>	A little windy			
<i>Tides- NR</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>
	NR			
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
	10:43 AM	25.6	NR	North
	10:47 AM	14.3		North
	10:51 AM	15.2		North
<i>Water Temperature-</i>	11:18 AM	17°C	62°F	
<i>Turbidity- Secchi Disk (cm)</i> <i>Long Sight Tube (120 cm)</i>	11:08 AM	28 cm		
	11:08 AM	25 cm		
<b>Chemical</b>				
<i>Salinity-Hydrometer</i>	11:37 AM	11 ppt 12 ppt		*HR quantabs also used but exceeded range
<i>Standardized Salinity – Refractometer</i>	NR	10 ppt		
<i>DO – NR</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
<i>pH – Test Strips* not accurate for a saline area</i>	11:39 AM	*6 (see note)		
<i>Nitrates- NR</i>				
<i>Phosphates- NR</i>				
<i>Alkalinity- NR</i>				

<i>Biological-</i>					
<i>Fish – Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
9:30 AM- 11:44 AM	2	Bay Anchovy	8.3 cm	5 cm	
	35	Atlantic Silverside	10.2 cm	3.2 cm	
	2	White Perch	19 cm	17.8 cm	
	1	Bluefish	10 cm		
<b>Fish Totals</b>	<b>TOTAL: 40</b>	<b>Diversity: 4</b>			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
*5 Male /5 Female	14	Blue Crab *	14 cm	1.9 cm	
Additionally noted most as just crab but generally these are blue crab	10	Ctenophore spp.	7.6 cm	4.4 cm	
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 25</b>	<b>Diversity:3</b>			
<i>Sediment Core – NR</i>					
<b>Length</b>	<b>H2S smell</b>	<b>Oxid Top</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>
<i>Boats-</i>					
	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/Southbound</b>	<b>Light/Loaded</b>
Commercial	10:20 AM	Barge	Black	Southbound	Loaded
Recreational	11:25 AM	Speedboat	Navy	Northbound	Light