

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

**Bob Sheppard Highland Landing Park**

**RIVER MILE: 76.4**

*Salt Front: ~ RM76*

**Highland Middle School– Cody Weaver, Lia Harris**

**Volunteer: Steve Stanne**

*40 students & 6 adults*

**Latitude 41.706°N & Longitude – 73.9448°W**



**Location:** Bob Sheppard Highland Landing Park, Highland, Dutchess, NY

**Area:** Park with boat landing and small beach

**Sampling Site:** Pier with concrete bulkhead, grassy, parking lot, beach

**Surrounding Land Uses:** Industrial/Commercial, Beach

**Shoreline:** Rocky

**River Bottom:** Muddy, sandy, and rocky

**Water:** NR

**Plants in the Water:** NR

\*NR = Not read/recorded

ITEM	Time	Reading		Comments	
Physical					
Air Temperature-	11:14 AM 12:10 PM	15.5°C 19.2 °C	60°F 66°F		
Wind Speed:	10:04 AM	Anemometer 1.2 m/s	Beaufort 1	Direction NR	
Weather today	10:30 AM	>75% cloud cover	Start & Stop Rain		
Weather the past 3 days:	Windy and overcast				
Tides-	Time	Rising, Falling, Unchanged		Water Height (cm)	
	9:30 AM 10:11 AM 12:09 AM 12:12 PM	Rising Rising Rising		32 cm 39 cm 72 cm 75 cm	
Current- NR	Time	Cm/sec	Knots	North/South	Ebb/Flood/Still
Water Temperature-	10:30 AM 12:00 PM	16.9°C		62.5°F 67.5 °F	
Turbidity- Long Sight Tuber (cm)	9:56 AM 10:48 AM 12:03 PM	47 cm average 45.9 cm average 63.3 cm average			
Chemical					
Salinity-not record methods	-3.4 recorded?				
Standardized Salinity	NR	52 ppm	1.4 quantab units	29 ppm Cl-	

<i>- LR Quantabs</i>					
<b>DO – Meter/probe</b>	<i>Time</i> 10:24 AM	<i>Temp</i> 16.9°C	<i>ppm DO</i> 8.22 ppm	<i>% saturation</i> 81%	
<b>pH –Probe</b>	11:36 AM	6.35 *very low noted a suspected problem with meter			
<b>Nitrates- Probe*</b>	10:55 AM	1 mg/L			Recorded only this on field sheet?
<b>Phosphates- Probe*</b>	10:55 AM	1 mg/L			Recorded only this on submitted data?
<b>Alkalinity- NR</b>					
<b>Biological-</b>					
<b>Fish –</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	<b>Length of smallest</b>	
9:30 AM-1:00 PM 30 hauls	13 5 1	Spottail Shiner Banded Killifish White Perch	4 cm 4 cm 10 cm	2 cm 3 cm -	
<b>Fish Totals</b>	<b>TOTAL: 19</b>	<b>Diversity: 3</b>			
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	<b>Length of smallest</b>	
	1 1 1 1 4	Blue Crab Damselfly nymph Dragonfly nymph Freshwater Worm scud	15 cm		
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 8</b>	<b>Diversity:5</b>			
<b>Sediment Core –</b>					
<b>Length</b>	<b>H2S smell</b>	<b>Oxid Top</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>
<b>Boats-</b>					
	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/Southbound</b>	<b>Light/Loaded</b>
Commercial					
Recreational	9:30 AM	NR	White	Southbound	Light
	10:00 AM	NR	White & Blue	Northbound	Light
	10:00 AM	Speedboat	Blue & White	Southbound	Light
	11:30 AM	NR	Red & White	Northbound	Light