

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

**Louis Engel Park, Ossining**

**RIVER MILE: 32.5**

*Salt Front: ~ 49*

**Bridget Kenny & Ossining High School: 11 students & 2 adults**

**Latitude & Longitude: 41.1629°N, -73.8615°W**

**Location:** Louis Engel Park, Ossining

**Area:** Beach area near the playground and the train station

**Surrounding Land Use:** 50% Urban/Residential; 50% Industrial/Commercial

**Sampling Site:** Beach; RipRap (large rocks); Parking lot

**Shoreline:** 80% Sandy; 20% Rocky

**Water Depth:** 60 cm; calm waters

**Plants in area:** 80% Vallisneria (water celery)

**River Bottom description:** sandy and rocky

\*NR = Not read/recorded

ITEM	Time	Reading		Comments
Physical				
Air Temperature	12:39 PM	22.2 ° C	72° F	
Wind Speed:	12:45 PM	Anemometer NR	Beaufort 2	Direction West
Weather today	12:30 PM	<25% cloud cover	No Rain	
Weather the past 3 days:	Clear, sunny			
Tides-	Time	Rising, Falling, Unchanged		Height (cm)
	12:30 PM-1:00 PM	Rising		NR
Current- NR	Time	Cm/sec	Knots	North/South
				Ebb/Flood/Still
Water Temperature-	12:15 PM	20° C		68° F
Turbidity- Long sight tube	12:15 PM	42.5 cm		Recorded as 14 NTUs
Chemical				
Salinity- Hydrometer	12:30 PM	10 ppt 6 ppt 6 ppt		Average 7.3 ppt
	1:00 PM	10 ppt 6 ppt 6 ppt		Average 7.3 ppt
Standardized Salinity – LR Quantab	NR			
DO – LaMotte Estuary wide kit	Time	Temp		ppm DO
*unreliable tests	12:45 PM	20° C		2
pH – LaMotte Estuary wide kit	12:45 PM	7		
Nitrates- LaMotte Estuary wide kit	1:00 PM	5 ppm		
Phosphates- LaMotte	1:00 PM	2 ppm		

<i>Estuary wide kit</i>					
<b>Biological</b>					
<b><i>Fish -</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of longest</i></b>	<b><i>Length of smallest</i></b>	
<b>12:30-1:30 seined 13 pulls</b>	24	Atlantic Silverside	9 cm	5 cm	
<b>Fish Totals –</b>	<b>TOTAL: 24</b>	<b>Diversity: 1</b>	<i>*1 dead catfish</i>		
<b><i>Macroinvertebrates-</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of longest</i></b>	<b><i>Length of smallest</i></b>	
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 0</b>	<b>Diversity: 0</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>
NR					Living Vegetation common; Brick rare
<b>Boats-NA</b>					
	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/Southbound</b>	<b>Light/Loaded</b>
Commercial					
Residential					