

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

**George's Island County Park, NY**

**RIVER MILE: 40**

*Salt Front: ~ RM76*

**Fox Meadow Elementary School– Alethea Lynch**

*100 students & 30 adults*

**Latitude 41.24936 N & Longitude -73.936474 W**

**Location:** George's Island County Park, Westchester County, NY

**Area:** waterfront park, banks altered, bulkhead with wooden timbers, boat launch

**Surrounding Land Use:** Primarily, park picnic area and boat launch; forested area; parking lot

**Sampling Site:** Beach, riprap, and concrete bulkhead

**Shoreline:** sandy rocky with brick pieces

**Plants in area:** grass covers > than ½ of site – low cut, deciduous trees cover ¼ of site include sugar maples, black locust, willows, hophorn beam, Common reed (Phragmites) covers

**River Bottom:** muddy

\*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
<b>Physical</b>					
<i>Air Temperature-</i>	11:15 AM	20°C	68°F		
	11:36 AM	20	68		
	11:45 AM	19	67		
	12:30 PM	18	60		
<i>Wind Speed:</i>	11:15 AM	<i>Anemometer</i> 1.4 mph	<i>Beaufort</i> 3	<i>Direction</i> S	
	11:43 AM	2 mph	3	S	
<i>Weather today</i>	11:15 AM	51-75% cloud cover	Rain after 11:45 AM		
<i>Weather the past 3 days:</i>	Warm, clear				
<i>Tides- NR</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	11:15 AM	NR	NR	NR	Flood
	11:30 AM				Flood
	11:45 AM				Flood
	12:30 PM				Flood
<i>Water Temperature-</i>	10:40 AM	17°C	60°F		
	11:15 AM	15°C	60°F		
	11:45 AM	19°C	65°F		
<i>Turbidity- Secchi Disk (cm)</i>	11:05 AM	36 cm			
<b>Chemical</b>					
<i>Salinity-Hydrometer*</i>	10:13 AM	3 ppt	*expect salt built up in the hydrometer as it go higher throughout the day		
	11:11 AM	6 ppt			
	11:45 AM	10 ppt			
	12:26 PM	11 ppt			
	12:38 PM	12 ppt			
<i>Standardized Salinity – NR</i>					
<i>DO – Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>	
	10:30 AM	16°C	5 ppm	NR	
	11:15 AM	15°C	4 ppm	NR	

	12:36 PM	17°C	4 ppm		
<i>pH – Test Strips</i>	10:07 AM 10:57 AM 11:15 AM	6 7 7			
<i>Nitrates- NR</i>					
<i>Phosphates- NR</i>					
<i>Alkalinity- NR</i>					
<b>Biological-</b>					
<i>Fish – Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
<i>11:30 AM-12:30 PM</i>	2 19 3 4	American Eel Atlantic Silverside White Perch Striped Bass			
<b>Fish Totals</b>	<b>TOTAL: 28</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 1 1 1	Green Crab* Lady Crab* Moon Jellies Palaemonetes			
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 8</b>	<b>Diversity:4</b>			
<b>Sediment Core – NR</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- NR</b>					
	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/Southbound</b>	<b>Light/Loaded</b>
Commercial					
Recreational					