

**Day in the Life of the Hudson River 10/22/19**  
**NEWBURGH WATERFRONT- PEOPLE'S WATERFRONT**  
**RIVER MILE: 60.5**  
*Salt Front: ~ RM 53*  
**NFA P-Tech- Joyce D'Imperio**  
**50 students 9<sup>th</sup> grade, 6 adults**  
**Scenic Hudson- Kate Phipps**  
**Latitude 41.4934 N & Longitude – 74.00741 W**

**Location:** Newburgh Waterfront- People's Waterfront and Boat Launch, Newburgh, Orange County, NY  
**Area:** Pier, dock with bulkhead, riprap, and wood bulkhead d  
**Surrounding Land Use:** 75% Industrial/Commercial; 25% Park  
**Sampling Site:** Shore with bulkhead, banks altered with riprap, debris in area  
**Shoreline:** rocky  
**River Bottom:** Muddy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		
<i>Physical</i>				
<i>Air Temperature</i>	10:10 AM	14 ° C		
	11:05 AM	15 ° C		
	12:30 PM	16 ° C		
	1:15 PM	15 ° C		
<i>Wind Speed:</i>	10:10 AM	2 mph		
	11:05 AM	2 mph		
	12:30 PM	3 mph		
	1:15 PM	2 mph		
<i>Weather today</i>				
<i>Weather the past 3 days:</i>				
<i>Tides- measured from dock</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
HT 7:01 AM LT 1:43 PM	9:28 AM	Falling	165	*Should be falling all day
	10:12 AM	Falling	170	
	10:24 AM	Falling	183	
	10:56 AM	Rising	174	
	11:56 AM	Rising	163	
	12:34 PM	Rising	157	
	12:43 PM	Still	157	
	1:19 PM	Still	154	
<i>Current-</i>	<i>Time</i>	<i>Speed</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	10:10 AM	0.5	South	Ebb
	11:05 AM	0.6	South	Ebb
	12:30 PM	0.4	South	Ebb
	1:15 PM	0.3	South	Ebb
<i>Water Temperature</i>	9:32 AM	15 ° C		
	10:32AM	15 ° C		
	12:01 PM	13 ° C		
	12:59 PM	14 ° C		
<i>Turbidity- long sight tube</i>	10:10 AM	76 cm		
	11:05 AM	68 cm		
	12:30 PM	57 cm		
	1:15 PM	75 cm		

<i>Chemical</i>				
<i>Salinity-</i>	<i>Time</i>	<i>Total Sal. ppm</i>		
	9:32 AM	27 ppm		
	10:32AM	27 ppm		
	12:01 PM	27 ppm		
	12:59 PM	27 ppm		
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9:32 AM	15 ° C	11	
	10:32AM	15 ° C	11	
	12:01 PM	13 ° C	10	
	12:59 PM	14 ° C	12	
<i>pH –</i>	9:32 AM	7.2		
	10:32AM	7.4		
	12:01 PM	7.2		
	12:59 PM	7.2		
<i>Biological</i>				
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	17	Spottail Shiner		
	1	Yellow Perch		
	3	Striped Bass		
	2	Banded Killifish		
	1	Darter		
<b>Fish Totals</b>	<b>TOTAL: 24</b>	<b>Diversity: 5</b>		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	NR			
<b>Macroinvertebrate Totals</b>	<b>TOTAL:</b>	<b>Diversity:</b>		