

**Day in the Life of the Hudson River 10/16/18 Data**

**MEMORIAL PARK, NYACK**

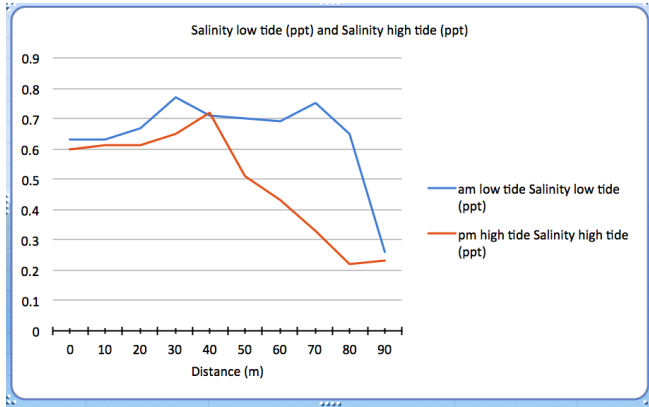
**RIVER MILE: 28**

*Salt Front: ~RM 24*

**Nyack High School- Kirsten Kleinman**

**85 students, 11th-12th graders, 8 adults**

**Latitude 41.08742 N & Longitude – 73.91576 W**



Salinity data mapped from 0 (up Nyack Creek to 10 at the Hudson River) every 10 meters using a sonde to measure. Salinity shows influence from the creek - road salt?

**Location:** Nyack Memorial Park, Nyack, Rockland County, NY

**Area:** Open and grassy, parking lot, picnics, fishing

**Surrounding Land Use:** 100% park

**Sampling Site:** beach, banks altered, riprap on shoreline, bulkhead

**Shoreline:**

**River Bottom:** sandy, muddy

**Plants in area:** no water plants in area

**Water:** calm, varied

**Morning Low Tide, Afternoon High Tide**

<i>ITEM</i>		<i>Time</i>	<i>Reading</i>		<i>Stations</i>
<i>Physical</i>					
<i>Air Temperature:</i>			°C	°F	
			°C	°F	
			°C	°F	
<i>Wind Speed:</i>					
<i>Weather Today:</i>					
<i>Weather Previous:</i>					
<i>Water Temperature AM</i>	<i>Station 1</i>	9:15 AM	15.05 °C	59.09 °F	up Nyack Brook- 0 meter
	<i>Station 2</i>	9:15 AM	15.6 °C	60.08 °F	10 meters
	<i>Station 3</i>	9:15 AM	15.75 °C	60.35 °F	20 meters
	<i>Station 4</i>	9:15 AM	15.8 °C	60.44 °F	30 meters
	<i>Station 5</i>	9:15 AM	15.75 °C	60.35 °F	40 meters
	<i>Station 6</i>	9:15 AM	15.5 °C	59.9 °F	50 meters
	<i>Station 7</i>	9:15 AM	15.6 °C	60.08 °F	60 meters
	<i>Station 8</i>	9:15 AM	15.4 °C	59.72 °F	70 meters
	<i>Station 9</i>	9:15 AM	15.4 °C	59.72 °F	80 meters

<b>Water Temperature PM</b>	Station 10	9:15 AM	16.15 °C	61.07 °F	Hudson- 90 meters
	Station 1	12:00 PM	15.25 °C	59.45 °F	up Nyack Brook- 0 meter
	Station 2	12:00 PM	15.6 °C	60.08 °F	10 meters
	Station 3	12:00 PM	16.3 °C	61.34 °F	20 meters
	Station 4	12:00 PM	16.1 °C	60.98 °F	30 meters
	Station 5	12:00 PM	11.5 °C	52.7 °F	40 meters
	Station 6	12:00 PM	17.4 °C	63.32 °F	50 meters
	Station 7	12:00 PM	17.9 °C	64.22 °F	60 meters
	Station 8	12:00 PM	18.45 °C	65.21 °F	70 meters
	Station 9	12:00 PM	18.5 °C	65.3 °F	80 meters
	Station 10	12:00 PM	17.6 °C	63.68 °F	Hudson- 90 m
<b>Turbidity- Secchi</b>		9:15 AM	10 cm		Main dock
		9:15 AM	30 cm		Middle dock
		9:15 AM	30 cm		Boat dock
		9:15 AM	23.33 cm		Average
		12:00 PM	20 cm		Main dock
		12:00 PM	38.5 cm		Middle dock
		12:00 PM	35 cm		Boat dock
12:00 PM	31.17	Average			
<b>Chemical</b>					
<b>Salinity-meter</b>	Station 1	9:15 AM	0.63 ppt TS	630 ppm TS	Up Nyack Brook- 0 meter
	Station 2	9:15 AM	0.63 ppt TS	630	10 meters
	Station 3	9:15 AM	0.67 ppt TS	670	20 meters
	Station 4	9:15 AM	0.77 ppt TS	770	30 meters
	Station 5	9:15 AM	0.71 ppt TS	710	40 meters
	Station 6	9:15 AM	0.7 ppt TS	700	50 meters
	Station 7	9:15 AM	0.69 ppt TS	690	60 meters
	Station 8	9:15 AM	0.75 ppt TS	750	70 meters
	Station 9	9:15 AM	0.65 ppt TS	650	80 meters
	Station 10	9:15 AM	0.26 ppt TS	260	Hudson- 90 m
	Station 1	12:00 PM	0.6 ppt TS	600	Up Nyack Brook- 0 meter
	Station 2	12:00 PM	0.61 ppt TS	610	10 meters
	Station 3	12:00 PM	0.61 ppt TS	610	20 meters
	Station 4	12:00 PM	0.65 ppt TS	650	30 meters
	Station 5	12:00 PM	0.72 ppt TS	720	40 meters
	Station 6	12:00 PM	0.51 ppt TS	510	50 meters
	Station 7	12:00 PM	0.43 ppt TS	430	60 meters
	Station 8	12:00 PM	0.33 ppt TS	330	70 meters
	Station 9	12:00 PM	0.22 ppt TS	220	80 meters
	Station 10	12:00 PM	0.23 ppt TS	230	Hudson- 90 m

		<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
<i>Dissolved Oxygen – meter</i>	<i>Station 1</i>	9:15 AM	15.05 °C	10 ppm	
	<i>Station 5</i>	9:15 AM	15.75 °C	6 ppm	
	<i>Station 10</i>	9:15 AM	16.15 °C	8 ppm	
	<i>Station 1</i>	12:00 PM	15.25 °C	10 ppm	
	<i>Station 5</i>	12:00 PM	11.5 °C	8 ppm	
	<i>Station 10</i>	12:00 PM	17.6 °C	12 ppm	
<i>pH - meter</i>	<i>Station 1</i>	9:15 AM	6.5	up Nyack Brook- 0 meter	
	<i>Station 2</i>	9:15 AM	6.7	10 meters	
	<i>Station 3</i>	9:15 AM	6.9	20 meters	
	<i>Station 4</i>	9:15 AM	6.6	30 meters	
	<i>Station 5</i>	9:15 AM	6.9	40 meters	
	<i>Station 6</i>	9:15 AM	6.9	50 meters	
	<i>Station 7</i>	9:15 AM	6.8	60 meters	
	<i>Station 8</i>	9:15 AM	6.5	70 meters	
	<i>Station 9</i>	9:15 AM	6.9	80 meters	
	<i>Station 10</i>	9:15 AM	6.5	Hudson- 90 meters	
	<i>Station 1</i>	12:00 PM	7	up Nyack Brook- 0 meter	
	<i>Station 2</i>	12:00 PM	6.7	10 meters	
	<i>Station 3</i>	12:00 PM	6.6	20 meters	
	<i>Station 4</i>	12:00 PM	6.9	30 meters	
	<i>Station 5</i>	12:00 PM	6.7	40 meters	
	<i>Station 6</i>	12:00 PM	6.8	50 meters	
	<i>Station 7</i>	12:00 PM	7	60 meters	
	<i>Station 8</i>	12:00 PM	6.6	70 meters	
	<i>Station 9</i>	12:00 PM	6.8	80 meters	
	<i>Station 10</i>	12:00 PM	6.2	Hudson- 90 meters	
<i>Nitrates-titration kit</i>	<i>Station 1</i>	9:15 AM	8.8	up Nyack Brook- 0 meter	
	<i>Station 10</i>	9:15 AM	8.8	Hudson- 90 meters	
	<i>Station 1</i>	12:00 PM	8.8	up Nyack Brook- 0 meter	
	<i>Station 10</i>	12:00 PM	8.8	Hudson- 90 meters	
<i>Phosphate</i>	<i>Station 1</i>	12:00 PM	0.8	up Nyack Brook- 0 meter	
	<i>Station 10</i>	12:00 PM	0	Hudson- 90 m	

<i>Biological</i>				
<i>Fish – seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	1	American Eel	inch	
	1	Common Carp	inch	
	20	Mummichog	inch	
	6	Atlantic Silverside	inch	
	1	White Perch	inch	
	34	Striped Bass	inch	
	1	Naked Goby	inch	
<b>TOTAL: 64</b>	<b>DIV</b>	<b>7</b>		
<i>Macroinvertebrates- Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	5	Blue Crab		
	9	Mud Crab		
	<b>TOTAL: 14</b>	<b>DIV</b>	<b>2</b>	