

**Day in the Life of the Hudson River 10/15/14 Data  
(Salt Front RM 67.5)**

**RIVER MILE 144**

**Rensselaer Boat Launch, Forbes Rd., Rensselaer, NY**

**Leah Penniman, Tech Valley High School - 9<sup>th</sup> grade**

**Environmental Science & Geography – 54 students, 3 Adults**

**Location:** Rensselaer Boat Launch

**Area:** Boat launch – beach area

**Surrounding Land Use:** Boat launch with small beach, wooded, landscaped, adjacent to urban residential area

**Sampling Site:** boat launch with surrounding beach area

**Plants in area:**

**Water depth:** unknown

**River Bottom :**

**Times: All sampling 11:45 AM to 1:15 PM**

<i>ITEM</i>	<i>Time</i>	<i>Readings -</i>		<i>Averages</i>
<i>Physical</i>				
Air Temperature		26°C 27 27 26 27 27.5 17 26 24 25		25.5°C
Wind Speed				
Cloud Cover				
Weather today	Clear and humid			
Weather recently	Cool until last day or so has been humid			
<i>Water</i>	calm			
<i>Water Temperature</i>		19°C 18 18 20 17 18.5 18 17 16 17		17.85°C
<i>Turbidity (LaMotte)</i>		5cm 5		36.3 JTU

		120 5 10 15 5 120		
<b>Chemical</b>		<b>PPM</b>	<b>% saturation</b>	<b>Average</b>
DO (chemet color comparator)		5 ppm 8 11 8 12 10 10 8 10 9	72.6% saturation (average)	9.1 ppm
pH – pH meter		7.25 6 7.25 7.79 7.4 7.92 6.4 7.95 7.6		7.3
Phosphate - Chemet Color comparator		1.0 mg/L 1.0 0.4 0.2 0.5 0.2 0.1 0.4 0.2 0.2		0.42 mg/L
Nitrate – LaMotte color comparator		1.0 ppm 0 17.6* 0.4 0.45 0.03	*didn't include	0.45 mg/L
Alkalinity		60 ppm 50 130		80 ppm
Salinity		50 ppm		63 ppm Total

		75		Salinity
Electrical Conductivity		207 uS 107	microseimens	153.5 uS
<b>Coliform</b> <b>Petrifilm plate 1 ml water</b> • stated range is based on colonies per 100 ml sample		0 1900 2000 300 9200 0 7 65 400 112		1398.4 average
<b>Shipping Traffic</b>		2 boats		