

**Snapshot Day 10/8/09 Data
(Salt Front RM 60.3)
RIVER MILE 144**

**Rensselaer Boat Launch, Forbes Rd., Rensselaer, NY
Alene Onion, Hudson River Estuary Program
Leah Penniman, Tech Valley High School - 9th grade – 34 students**



Location: Rensselaer Boat Launch
Area: Boat launch – beach area
Surrounding Land Use:
Sampling Site: boat launch with surrounding beach area
Plants in area:
Water depth: unknown
River Bottom :
Times: All sampling 8:30-10:00 AM

<i>ITEM</i>	<i>Readings</i>	<i>Readings</i>	<i>Average Reading</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10.9°C 15°C 15.6°C		13.83 °C	
Wind Speed				
Cloud Cover				
Weather today				
Weather recently				
<i>Water Temperature</i>	14°C 13.2°C 13.5°C 13.7°C 13°C	13.9°C 13.9°C 13°C 12°C	13.4 °C	
<i>Turbidity (LaMotte)</i>	10 JTU 15 5 5		8.1 JTU	
<i>Turbidity</i> Turbidity tube	50 cm 44 51 14.5 42	38.4 cm 40.6 21	37.7cm	
<i>Chlorophyll</i>				

Chemical				
DO (chemet color comparator)	12 mg/L 10 8 8 9	8 mg/L 8 8 6	8.6 mg/L	82%
pH – pH meter	7.82 7.96 7.5 7.75 6	8.95 7.95 6	7.49	
Phosphate - Chemet Color comparator	0.1 mg/L 0.1 0 0 0.5	1 mg/L 0.5	0.31 mg/L	
Nitrate – LaMotte color comparator	4.4 ppm 1.0 1.0 1.0 2.0	8.8 ppm 8.8	3.86 ppm	
Alkalinity (LaMotte)	55 ppm 40 143 40		69.5 ppm	
Salinity* (reported as ppt – too high a reading for this area)	0 .75 ppt		*0.375 ppt	* This salinity result is too high for this area of the river.
Quantab Reading	24 ppm chloride		30 ppm total salinity	
Conductivity	183 uS 187 297 179	184 93 121	*177.71 uS	
Current/Stream Flow	0.5 meters per second			
Coliform Petrifilm plate 1 ml water • stated range is based on a 100 ml sample	56 170 114 68 59	35 4 35	*68 Colonies per ml water	* Acceptable range more than 20% of the samples NOT in excess of 2,400-5,000