

**Snapshot Day 10/18/11 Data
(Salt Front RM 35.7)
RIVER MILE 153**

**River Park, Green Island Park, Green Island NY
Kate Perry & Lynn Schuster, Robert C. Parker School
37 students (17) 2nd & 3rd grade students and (20) 6th and 7th grade students
42.74 N -73.69 W**



Location: Green Island Park boat ramp, below the Troy Dam, Albany County, NY

Area: park above bluff and then beach below just south of the Troy dam

Surrounding Land Use: Fishing launch, Rocky with weedy vegetation and a few small shrubs (gravelly)

Sampling Site: 50% industrial/commercial, 25% urban/residential, 10% planted/forested, 15% gravel/rock, boat access

Shoreline: broken concrete docking, very rocky shoreline, and muddy in spots near trees, human-added concrete at the launch

Plants in area: If it were low tide not plants would be in the water – 25% covered with 10% purple loosestrife; 2 % narrow leaf cattail; 1 % jewelweed; plus dotted smartweed, joe pye weed, golden rod,

aspens, oaks and mulberry trees.

Water depth: 0-25 cm along shore

River Bottom: muddy, rocky bottom around vegetation

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				

Air Temperature	9:52 AM	62 °F 20°C		
	10:52 AM	55 °F 15°C		
Wind Speed	2 Beaufort 1 Beaufort	4-6 kts. 1-3 kts	South	
Cloud Cover	Mostly cloudy			
Weather today	No rain			
Weather recently	Seasonal or a bit warmer, a little rain			
Water surface	Water choppy			
Water Temperature (2 ft. water)	10:44 AM	55° F 57 54	13°C 14 12	55° F 13°C
Turbidity – site tube		11.4 cm 10.0 cm 11.8 cm	11.0 cm average	
Chlorophyll	10:05 AM	0.3		
Chemical				
DO (Drop count kit)	10:05AM 10:38 AM	10 mg/L 17 mg/L*	13°C	94% 150% * error in sampling
pH	10:20 AM	7.7 8.1 7.5		Average 7.8
Salinity - quantab	10:28 AM – Alene noted when she was picking up samples as a runner the reading was 0.8 on the quantabs which is less than the minimum of 0.005 %NaCl or 29 Cl- for the strips	< 29 Cl-	<52.39 ppm salinity	* site reported as 190 ppm –too high for this area – unless one specific sample had a patch of road salt in it.
Fish Catch - dip nets and a minnow trap	Time	Number Caught		Macroinvert.
To choppy to use seine	10:15 AM	No fish	Used kick nets	1 worm

<i>Tides</i>	<i>Time</i>	<i>Height in cm</i>	<i>Rising/Falling</i>	<i>Rate of change</i>
	9:50 AM	28 cm		
	10:05 AM	25 cm	Falling	0.2 cm/min
	10:18 AM	24 cm	Falling	0.08 cm/min
	10:46 AM	7 cm	Falling	0.6 cm/min
<i>Currents -</i>	9:50 AM	54.2 cm/sec	1.1 kts	S- ebb
	10:15 AM	44.7 cm/sec	0.9 kts	S- ebb
	10:20 AM	42.2 cm/sec	0.8 kts	S- ebb
	10:30 AM	40.4 cm/sec	0.8 kts	S- ebb
<i>Traffic</i>	No ships today			
<i>Other Items</i>	Many gulls noted!	Lot s of fishing line on shore so the fish must be here!	Across the river a firetruck was shooting water 50 ft. in the air	
<i>Core Description</i> <i>Water depth – 25 cm</i>	Length 10.4 cm length - no oxidized top – unremarkable solid color exterior some oxidation mixed in	Rare Clay	Common Wood, living vegetation and roots in the core	Abundant mud
<i>Almanac</i>	The water action was high today at the Hudson; waves lapped up over student's boots causing pleas and screeches! We had no luck catching fish or macroinvertebrates but our students were undaunted. They even looked under rocks and logs onshore to no avail. We were all enjoying the freedom of river sampling too much to be discouraged. Kate Perry			