

Snapshot Day 10/18/11 Data
(Salt Front RM 35.7)
RIVER MILE 200
Hudson Crossing Park, Lock 5, Schuylerville , Hudson River
Nancy Robertson, Cornell Cooperative Extension
Homeschool Group, 9 students 7-11 yrs.
43°06.989 N, 73°34.34.589'W



Location: Hudson Crossing Park, Lock 5 in Schuylerville, NY

Area: Old industrial site now used for recreation – waterfalls. Boating, fishing

Surrounding Land Use: 20% urban/residential; 70% forested; 10% industrial/commercial. West side of river is park, east side is residential

Sampling Site: Large trees, old factory walls, banks altered, covered in vegetation

Plants in area: Oak trees, sumac

Water Bottom: rocky bottom, sandy

Water depth: 2 meters

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	10:07 AM	12 °C 52 °F	12:05 PM	17 °C 62 °F
Wind Speed		Beaufort #1	Kts. 1-3	
Cloud Cover	Partly cloudy no rain			
Weather yesterday	Last 3 days windy, small amount of precip Sat & Sun. highs in the high 50s and low in the high 40s			
Water Temperature	11:20 AM	12°C 50 °F	Repeated 3 times with same results	Warmed by the morning sun, bedrock bottom
Water surface	Water calm			

<i>Turbidity</i>	11:00 AM	1 meter	Water is dark grey/black as it gets deeper	No vegetation in water
<i>Chlorophyll</i>	10:30 AM	0.6		
<i>Chemical</i>				
pH – color drop kit	10:20 AM	7.1 6.9		Average 7.0
Salinity – quantabs	0.2 on the strip 0.4	0.0005 Cl-	Below detection	
Dissolved Oxygen	10:15 AM	9.36 ppm	12° C	80% saturation
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>		<i>Minnow traps</i>
<i>Currents</i>	10:45 AM	61 cm/sec	Or 2 ft/sec	South
	Large eddys under old bridge by abutments	Calm yet fast		
<i>Core</i>	<i>Length</i>	<i>Common</i>	<i>Abundant</i>	<i>Comments</i>
<i>11:15 AM - In ½ meters of water</i>	8 inches/20 cms all the same	Sand size white pieces – shells?	sand	Entire core black/grey sand from recent floods
<i>Traffic</i>	small motor boats and sailboats going through the lock			
<i>Other</i>	2 men fishing by waterfall 100 Canadian geese overhead/in river cormorants When standing on the bank by the river, debris in a small tree indicates water level during recent rain events was 8 feet higher!			