

**Snapshot Day 10/2/07 Data  
(Salt Front RM 78.2)  
RIVER MILE 124.5**

**Nutten Hook**

**Jenny Brinker, Columbia Land Conservancy**

**Jim McDarby, Hudson High School, 11<sup>th</sup> and 12<sup>th</sup> graders – 55 students**

**GPS Latitude 42 N Longitude 73 W**

**Location:** Nutten Hook

**Area:** Beach, forested bluff, large marsh behind bluff, DEC public access, used for picnics, water access

**Surrounding Land Use:** Beach - shoreline is sandy and rocky, riprap, banks altered in some areas with bulkhead

**Sampling Site:**

**Plants in area:**

<i><b>Tidal -Land plants</b></i>	Common reed 10%	Water Chestnut, seeds abundant but not growing plants	Poison Ivy 5%
	Willows 10%	Sumac 5%	Cottonwood trees 5%

**Water depth:**

**River Bottom :** Rocky with some sand

<i><b>ITEM</b></i>	<i><b>Time</b></i>	<i><b>Reading 1</b></i>	<i><b>Reading 2</b></i>	<i><b>Comments</b></i>
<i><b>Physical</b></i>				
Air Temperature	10:22 AM	17°C		
	10:31 AM	17C		
Wind Speed	10:00 AM	Beaufort 3	7-10 kts (gentle breeze)	
	12:30 PM	Beaufort 4	11-15 kts (moderate breeze)	
Cloud Cover				
Weather today	sunny			
Weather recently	sunny and warm,			
<i><b>Water Temperature</b></i>	10:00 AM	15°C		
	10:19 AM	18°C		
<i><b>Water calm</b></i>	yes			
<i><b>Turbidity</b></i>	9:30 AM	20 JTU 0 JTU 0 JTU		6.6 JTU average
	10:15 AM	0 JTU 0 JTU 20 JTU		6.6 JTU average
	11:35 AM	20 JTU 20 JTU		13.3 JTU average

		0 JTU		
	12:25 PM	20 JTU 20 JTU 0 JTU		13.3 JTU average
<b><i>Chlorophyll</i></b>	9:40 AM	0.4		
	10:25 AM	0.3		
	11:45 AM	0.3		
	12:40 PM	0.1		
<b><i>Chemical</i></b>				
DO (drop count kit)	9:30 AM	4.0 mg/L	18°C	42%
<i>Note: Water collected in shade- some choppiness</i>	10:15 AM	4.0 mg/L	18°C	40%
	11:30 AM	8 mg/L	17°C	84%
	12:30 PM	8 mg/L	19°C	82%
pH – indicator sol.	9:30 AM	7.3 6.8		
	12:30 PM	8 8		
<i>Litmus test strips</i>	9:30 AM	6.8 6.8		
	12:30 PM	8 8		
Phosphate				
Nitrate				
Alkalinity				
Salinity				
<b><i>Fish Catch</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>	<b><i>length</i></b>	<b><i>Seine 10 seines</i></b>
40 ft. seine net X 3/8 inch mesh	2	White Perch	4.5 in	
	10	Banded Killifish	3 in	
	20	Herring	2 in	
	35	Mummichog	3 in	
	25	Pumpkinseed	3.5 in	
<b><i>Tides</i></b>	10:10 AM	40 cm		
	10:28 AM	35 cm	falling	
<b><i>Currents</i></b>				
<b><i>Traffic</i></b>				
<b><i>Other Items</i></b>				
<b><i>Core</i></b>				
<b><i>Pollution</i></b>	Tissues, soda cans, grocery store bags			