

**A Day in the Life of the Hudson River 10/20/16 Data**  
**RIVER MILE 108.5**  
**(Salt Front ~RM 83)**  
**Lasher Memorial Park, Germantown, Columbia County**  
**John Horton, Columbia Land Conservancy**  
**Jim McDarby, Hudson High School, 11/12<sup>th</sup> graders – 42 students, 9 adults**  
**GPS Latitude 42.159115 Longitude 73.885823**

**Location:** Lasher Memorial Park, Boat Launch, North Germantown Landing

**Area:** Grassy area, used for picnics and boating, boat launch

**Surrounding Land Use:** Forested – 40%; Urban/residential 50%; Beach 5%, mowed park 5%

**Sampling Site:** Park with mowed lawn, rip rap in area

**Water depth:** 1 ft.

**River Bottom :** sandy, muddy

**Water Plants:** some plants in water but cover < 50% - water chestnut & spatterdock

**Plants in area:** phragmites

<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	10:58 AM	74°F	23°C	
	11:52 AM	64°F	18°C	
	1:10 PM	64°F	16°C	
Wind Speed	Beaufort #1	W	1:10 PM	
Cloud Cover	76-100%	Gradual clearing		
Weather today	Light intermittent sprinkling during last sample 1:10 PM	Rain at 2:00 PM		
Weather recently	Unseasonably warm			
<i><b>Water Temperature</b></i>	10:28 AM	16°C	61 °F	
	11:22 AM	17	63 °F	
	12:52 PM	16	61 °F	
<i><b>Water calm</b></i>	Calm			
<i><b>Turbidity – sight tube</b></i>	Time not noted	18.2 cm 28.0 34.2	Average 26.8 cm	
<i><b>Chemical</b></i>				
<i><b>DO – drop count kit</b></i>	10:51 AM	12 ppm	16 °C	>100%
	11:40 AM	11 ppm	17	
	1:09 PM	12 ppm	16	
<i><b>pH – indicator solution</b></i>	10:22 AM	7.5		Avg 7.5
	11:17 AM	7.5		
	12:46 PM	7.5		
Salinity –	12:50 PM	Below		

Hydrometer		detection		
<b><i>Fish Catch</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>	<b><i>Length of largest</i></b>	<b><i>Macro Species</i></b>
100 ft. seine net X 1/2 inch mesh	11	Tessellated Darter	7 cm	<b>DIV 5</b>
	17	Spottail Shiner	9 cm	<b>TOTAL 48</b>
	3	Banded Killi	9 cm	
	16	White Perch	13 cm	
	1	Carp		
<b><i>Macro</i></b>	1	Blue Crab	Male	<b>DIV 1 TOTAL 1</b>
<b><i>Tides</i></b>	9:53 AM 10:47 AM 11:13 AM	25 cm 2 cm 0 cm	Falling Falling Falling	Drop of 0.4cm/min 0.08 cm/min
<b><i>Currents</i></b> 10:51 AM 11:37 AM 1:10 PM	<b>Cm/30 Sec</b> 350 700 0	<b>Cm/Sec</b> 11.7. 23.3 0	<b>Kts</b> 0.227 kts 0.454 0	<b>N/S</b> South/Ebb South/Ebb Still
<b><i>Traffic</i></b>	NR			