

**Day in the Life of the Hudson River 10/16/18 Data  
LASHER MEMORIAL PARK, RIVER MILE: 108.5  
Germantown, Columbia County, NY**

*Salt Front: ~RM 24*

**Hudson High School- Jim McDarby  
31 students 11<sup>th</sup> -12<sup>th</sup> grade AP Biology, Marine Environmental Club , 7 adults  
Columbia Land Conservancy- Heidi Bock  
Latitude 42.1591 N & Longitude - 73.8858 W**



**Location:** Lasher Memorial Park, Boat Launch, Norther Germantown Landing, Columbia County, NY

**Area:** Grassy area, boat launch, pier, parking lot- used for picnics and boating

**Surrounding Land Use:** 40% Forested; 50% Urban/Residential; 5% Beach; 5% Grassy Park

**Sampling Site:** Park with mowed lawn, beach, riprap in area

**Shoreline:** 75% Sandy; 20% Muddy; 5% Rocky

**Water:** 1 foot; calm

**Plants in area:** 60-80% water chestnuts, 10% sweetflag, 10% bulrush (cattails), 5-10% spatterdock, 5-10% duck weed, common reed, golden club, water celery

**River Bottom description:** Muddy, weedy, Sandy

<i><b>ITEM</b></i>	<i><b>Time</b></i>	<i><b>Reading</b></i>		<i><b>Comments</b></i>
<i><b>Physical</b></i>				
<i>Air Temperature:</i>	9:39 AM	9 °C	48.2 °F	
	10:31 AM	12.5 °C	54.5 °F	
	12:23 PM	18 °C	64.4 °F	
	1:13 PM	23 °C	73 °F	
<i>Wind Speed:</i>	9:42 AM	Beaufort 2	2.5 mph	West; clear NW; partly cloudy NE; Partly cloudy N; clear
	10:34 AM		5.5 mph	
	12:20 PM		0 mph	
	1:15 PM		0 mph	
<i>Weather Previous:</i>	Yesterday there was 8 hours of rain and wind, flooding			
<i><b>Turbidity - long sight tube</b></i>	9:49 AM	32 cm		
	10:46 AM	28 cm		
	12:20 PM	29.2 cm		
	1:20 PM	22.2 cm		
<i><b>Chemical</b></i>				
<i>Salinity- LR Quantabs</i>	9:38 AM	31 ppm Cl <sup>-</sup>		
	10:30 AM	31 ppm Cl <sup>-</sup>		

	12:27 PM 1:12 PM	31 ppm Cl <sup>-</sup> < 31 ppm Cl <sup>-</sup>	Below Detection		
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>	
*Fairly high - suspect that they didn't swirl as they titrated	9:40 AM	7 °C	14	117%	
	10:28 AM	7 °C	13	108%	
	12:20 PM	14 °C	12	115%	
	1:02 PM	6 °C	15	120%	
<i>pH – color match test kit</i>	9:51 AM 10:45 AM 12:35 PM 1:28 PM	7.25 7.5 7.5 7			
<b><i>Fish- Seine- 25 feet</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of longest</i></b>		
9:45 AM 12:15 PM	2 5 6 6 1 11 1 1 11 2 2 2 2 2 10 6 9 3	Spottail Shiner Yellow Perch Tesselated Darter Striped Bass Banded Killifish Spottail Shiner Pumpkinseed White Perch Tesselated Darter Pumpkinseed Spottail Shiner Banded Killifish White Perch Yellow Perch Spottail Shiner Tesselated Darter Striped Bass	8.89 cm 9 cm 9 cm 7 cm 6.5 cm 7 cm 3cm 8 cm 2 cm 8 cm 8 cm 8 cm 5 cm 7.62 cm 7.62 cm 7.62 cm 13.97 cm		
1:30 PM					
Group 4 (No Time)					
<b>Fish Totals</b>	<b>TOTAL: 80</b>	<b>Diversity: 7</b>			
<b><i>Macroinvertebrates- Seine- 25 feet</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of longest</i></b>		
9:45 AM 12:15 PM 1:30 PM	8 9 6	Blue Crab Blue Crab Blue Crab	male		
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 23</b>	<b>Diversity: 1</b>			
<b><i>Tides- Tide stick</i></b>	<b><i>Time</i></b>	<b><i>Rising, Falling, Still</i></b>	<b><i>Height (cm)</i></b>	<b><i>Rate of Tidal Change (cm/min)</i></b>	
	9:25 AM 10:20 AM 12:02 PM 12:57 PM	Falling Falling Falling	25 5 0 0	- 0.36 0.049	
<b><i>Currents Flow</i></b>	<b><i>Cm/second</i></b>	<b><i>Knots</i></b>	<b><i>North/South</i></b>	<b><i>Ebb/Flood/Still</i></b>	
9:34 AM 10:28 AM 12:08 PM 1:05 PM	7.8 10.8 23.8 15	0.15 0.21 0.46 .29	South South	Ebb Ebb	
<b><i>Boats</i></b>	<b><i>Time</i></b>	<b><i>Name</i></b>	<b><i>Color</i></b>	<b><i>North or South</i></b>	<b><i>Loaded or Light</i></b>
Recreational Recreational Recreational	10:00 AM 10:43 AM 12:48 PM	Unknown Boat Sailboat	White White White	Southbound Northbound Southbound	
<b><i>Other Observations</i></b>	1 Canadian goose, 1 dead catfish, gulls, scuds under rocks, animal prints, bees, chipmunks, spiders, crab shells, brick pieces, hawks				

