

Day in the Life of the Hudson River 10/13/22
Ernest R Lasher Memorial Park, Germantown, NY

RIVER MILE: 108.5

Salt Front: ~ RM76

Columbia Land Conservancy – Jenifer Rosete

Hudson High School – Jim McDarby

40 students (10th and 11th grade) & 12 adults

Latitude 42.15°N & Longitude – 73.8°W



Location: Ernest R Lasher Memorial Park Boat Launch, Germantown, Columbia County, NY

Area: Park by the water near the pier

Sampling Site: Pier, grassy, parking lot, covered in vegetation, riprap (large rocks)

Surrounding Land Uses: 20% Urban/Residential, 30% Forested, 50% Field

Shoreline: 100% Rocky

River Bottom: Muddy, rocky

Water: Choppy

Plants in the Water: 1% Water Chestnut, 5% Chairmaker’s Rush, 1% Eurasian Water Milfoil; 1% Duckweed, 1% Water Celery

*NR = Not read/recorded

ITEM	Time	Reading		Comments
Physical				
Air Temperature-	10:50 AM 12:42 AM	8.3°C 11.7°C	47°F 53°F	
Wind Speed:	10:55 AM	<i>Anemometer</i> NR	<i>Beaufort</i> 1	<i>Direction</i> S
Weather today	10:55 AM	<25% cloud cover	No Rain	
Weather the past 3 days:	Unusual temperatures (relatively warm for this time of year – 50s-60s), no recent rain storms			
Tides- * Times do not make sense?	Time	Rising, Falling, Unchanged	Water Height (cm)	
	10:41 10:42 10:43	Rising Falling	90 cm 105 cm 90 cm	
Current-	Time	Cm/sec	Knots	North/South Ebb/Flood/Still
	9:42 AM 10:47 AM	30.48 24.384	0.59 0.47	Flooding Ebb
Water Temperature-	9:11 AM 10:11 AM 12:04 PM	12°C 10°C 13°C	54°F 50°F 55°F	
Turbidity- Secchi Disk (cm)	9:40 AM 10:47 AM 12:09 PM	106.68 cm 90 cm 82.5 cm		
Chemical				
Salinity-Low Range	10:11 AM	52 ppm Total Salinity	1.4 quantab units	29 ppm Cl-

<i>Quantabs</i>					
Standardized Salinity – NR					
DO – Hach Drop Count Kit	<i>Time</i> 9:11 AM 10:11 AM 12:08 AM	<i>Temp</i> 12°C 10°C 13°C	<i>ppm DO</i> 9.5 ppm 10 ppm 10 ppm	<i>% saturation</i> 95% 90% 100%	
pH – Color Match Kit	9:11 AM 10:11 AM 12:12 PM	8.5 8.5 8.5			
Nitrates- NR					
Phosphates- NR					
Alkalinity- NR					
Biological-					
Fish – Seine	Number	Name	Length of longest	Length of smallest	
9:30 AM-12:30 PM 10 pulls	11 7 5	*Herring sp. (recorded 7 as hickory shad) Spottail Shiner Banded Killifish	6 cm 10 cm 7.5 cm	5 cm 7 cm 4 cm	
Fish Totals	TOTAL: 30	Diversity: 3			
Macroinvertebrates	Number	Name	Length of longest	Length of smallest	
	1	Blue Crab (M)	2 cm		
Macroinvertebrate Totals	TOTAL: 1	Diversity: 1			
Sediment Core – NR					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
Boats-					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	9:19 AM	Stephen-B	White	Southbound	Loaded
	10:31 AM	Beatrix	White & Grey	Southbound	Loaded
Recreational	10:59 AM	American Star	White	Southbound	Loaded