

Day in the Life of the Hudson River 10/05/2023
Donahue Memorial Park, Cornwall Landing, NY

RIVER MILE: 57

Salt Front: ~ 52

Willow Avenue Elementary School-Christine Cleeves

Trailside Museum & Zoo- Christopher O'Sullivan

NYS DEC – Tom Lake

50 students, 4th grade, 20 adults

Latitude 41.44384°N & Longitude -73.99961°W



Location: Donahue Memorial Park, Cornwall Landing, Village of Cornwall-on-Hudson, Town of Cornwall, Orange County, NY

Surrounding Land Use: 15% Forested, 5% Beach, 80% Open and Grassy Area

Sampling Site: Pier, sandy beach used for seining and chemical samples. Altered banks, shoreline riprap, concrete & wood bulkheads. Sampling site near small dock used for turbidity

Shoreline: 10% Sandy, 10% Muddy & 80% Rocky

Water: Choppy

River Bottom: Muddy & Rocky

Plants in the water: NR

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	10:09 AM	18° C	65° F	
<i>Wind Speed:</i>	10:09 AM	<i>Anemometer</i> 2.8 km/hr	<i>Beaufort</i> 3	<i>Direction</i> East
<i>Weather today</i>	10:09 AM	26-50% Cloud Cover	No Rain	
<i>Weather the past 3 days:</i>	Very warm for October			
<i>Tides- Tide Stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	
	9:53 AM	-	53	
	10:16 AM	Falling	50	
	10:53 AM	Slack	50	
	11:25 AM	Rising	54	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
	10:28 AM			Ebb
	10:50 AM			Slack
	11:05 AM			Slack
	11:32 AM			Flood
<i>Water Temperature-</i>	9:50 AM	19°C	66.2°F	
	10:23 AM	20°C	68°F	
	10:50 AM	20°C	68°F	
<i>Turbidity- Long Sight Tube (120 cm)</i>	9:53 AM	33 cm	Avg: 38 cm	
		43 cm		

Chemical

Student Salinity- Low Range Quantabs - 1.4 QT unit	10:00 AM	34 ppm Cl ⁻	61 ppm TS	
	10:28 AM	34 ppm Cl ⁻	61 ppm TS	
	10:50 AM	27 ppm Cl ⁻	49 ppm TS	
DO – Drop Count	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	12:50 PM	20°C	9 ppm	95%
pH – Color Match Kit	10:00 AM	7.5		
	10:22 AM	7.25		
	10:50 AM	7.5		

Biological

Fish- Seine (2 Hauls)	Number	Name	Length of longest	Notes		
	40	Blueback Herring	6.5 cm			
	15	Striped Bass	5.8 cm			
	1	Largemouth Bass	15.3 cm			
Fish Totals	TOTAL: 56	Diversity: 3				
Macroinvertebrates	Number	Name	Length of longest			
Macroinvertebrate Totals	TOTAL: 0	Diversity: 0				
Sediment Core - NR	Time	Oxid Top	H₂S Smell	Oil	Grain Size	Other Features

Boats-NR

Commercial/Recreational	Time	Name	Color	Southbound/ Northbound	Light/ Loaded