

Day in the Life of the Hudson River 10/22/19

CORNWALL LANDING

RIVER MILE: 57

Salt Front: ~ RM 53

Willow Avenue Elementary – Deborah Gilson

75 students, 4th grade, 6 adults

Palisades Interstate Park @ Bear Mountain- Chris O’Sullivan

Latitude 41.44384 N & Longitude – 73.99961 W

Location: Donahue Memorial Park, Cornwall Landing, Town of Cornwall, Orange County, NY

Area: Sandy beach

Surrounding Land Use: 100% open and grassy park

Sampling Site: Pier/dock, sandy beach, altered banks, shoreline riprap, bulkhead, collected wood and debris in area

Water: Choppy

River Bottom: Muddy, rocky

Plants in water: No plants in water area

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	12:08 PM	57.9 ° F	14.4 ° C	
<i>Wind Speed:</i>	12:08 PM	3.9 km/hr 2.9 knots 3.5 mph	Beaufort 1-2	South “So windy”
<i>Weather today</i>	Overcast (100%), no rain			
<i>Weather the past 3 days:</i>	Saturday: partly sunny. Sunday: Rainy. Monday: Sunny			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (in)</i>	<i>Rate of Tidal Change (cm/min)</i>
	12:41 PM	Falling	45 cm	
	12:43 PM	Falling	NA	
<i>Current-</i>	<i>cm/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	12:46 PM		North	Flood
<i>Water Temperature</i>	11:29 AM	14 ° C	56 ° F	
	11:35 AM	15 ° C		
<i>Turbidity- long sight tube</i>	11:09 AM	29 cm, 34 cm, 32 cm - Avg: 30 cm		
Chemical				
<i>Salinity- Quantabs</i>	<i>Time</i>	<i>Chloride ppm Cl⁻</i>	<i>Total Sal. Ppm</i>	
	10:50 AM	45 ppm Cl ⁻	81 ppm	
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	NR			
<i>pH – pH strips</i>	11:35 AM			
Biological				
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
Seine	4	Striped Bass	7-8 cm (yoy)*	Over 6 hauls (Lengths from Tom Lake)
*young of year	1	Spottail Shiner	7-8 cm	
Fish Totals	TOTAL: 5	Diversity: 2		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	NR			
Macroinvertebrate Totals	TOTAL:	Diversity:		