

Day in the Life of the Hudson River 10/22/19
QUIET COVER PARK, POUGHKEEPSIE
RIVER MILE: 78

Salt Front: ~ RM 53

G.W. Krieger Elementary School- Skip Hoover
108 students 5th grade, 20 adults

Cornell Cooperative Extension Dutchess County- Carolyn Klocker + 4 staff

NCLI Program from Poughkeepsie High School- 4 youth employees

NYS DEC Fisheries - Bob Adams and Jess

Latitude 41.73506 N & Longitude – 73.93632 W

Location: Quiet Cove, Poughkeepsie, Dutchess County, NY

Area: Grassy area with parking lot, beach like waterfront

Surrounding Land Use: 60% Park, 40% Industrial/Commercial (previous industrial site)

Sampling Site: An old industrial area that has been turned into a park. Used by people for picnics, boating, and fishing. Beach with altered banks, riprap, and wooden bulkhead. Boat launch is for kayaks and canoes.

Shoreline: Rocky shoreline with altered banks

Water: 160 cm in the area with concrete embankments

River Bottom: Muddy

Plants in water: No plants in water area

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>	<i>Comments</i>	
<i>Physical</i>				
<i>Air Temperature</i>	9:44 AM	53 ° F		
	10:16 AM	54 ° F		
	11:01 AM	55 ° F		
	12:11 PM	56 ° F		
	12:49 PM	59 ° F		
<i>Wind Speed:</i>	9:44 AM	Gentle Breeze	Northeast	
	10:16 AM	Light Breeze		
	11:01 AM	Light Breeze		
	12:11 PM	Beaufort 2	South	
	12:49 PM	NR	South	
<i>Weather today</i>	No rain, Overcast to mostly cloudy throughout the day			
<i>Weather past 3 days:</i>	Rainy and mostly cloudy			
<i>Tides- pier to water</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Water Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
	9:44 AM	Starting Data	20	
	10:16 AM	Falling	13	
	11:15 AM	Falling	Not Recorded	
	12:11 PM	Falling	Not Recorded	
	12:49 PM	Falling	Not Recorded	
<i>Current-</i>	<i>Time</i>	<i>cm/second</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	9:44 AM	14.7	South	Ebb
	10:16 AM	*orange got stuck in a side current	South	Ebb
	11:15 AM	50	South	Ebb
	12:11 PM	27.03	South	Ebb
	12:49 PM	35.7	South	Ebb
<i>Water Temperature-</i>	9:44 AM	25 ° C		
	10:15 AM	20 ° C		
	10:57 AM	20 ° C		
	12:30 PM	15 ° C		
	12:45 PM	15 ° C		

Turbidity- long sight tube	9:41 AM 10:13 AM 10:50 AM 12:10 PM 1:00 PM	42 cm, 37 cm 32 cm 20 cm, 22 cm >51 cm 40 cm	Average 39.5 cm 32 cm 21 cm >51 cm 40 cm	
Chemical				
Salinity- LR Quantab	12:45 PM	32 ppm		
DO –	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9:44 AM 10:15 AM 10:57 AM 12:30 PM 12:45 PM	25 ° C 20 ° C 20 ° C 15 ° C 15 ° C	8 8 8 8 8	
pH –	9:44 AM 10:15 AM 10:57 AM 12:30 PM 12:45 PM	8 8 7.5 8 7.5		
Nitrates- LaMotte Estuary wide kit – low resolution	9:44 AM 10:15 AM 10:57 AM 12:30 PM 12:45 PM	<5 ppm <5 ppm <5 ppm <5 ppm <5 ppm		
Phosphates - LaMotte Estuary wide kit – low resolution	9:44 AM 10:15 AM 10:57 AM 12:30 PM 12:45 PM	1.5 ppm 2 ppm 1.5 ppm 1.5 ppm 2 ppm		
Biological				
Fish	Number	Name	Length of longest	
Seine 9:30-12:30 PM	1 1 2	Golden Shiner Bluegill Banded Killifish	5 cm 4 cm 5.5 cm	
Fish Totals	TOTAL: 4	Diversity: 3		
Macroinvertebrates	Number	Name	Length of longest	
NR				
Macroinvertebrate Totals	TOTAL:	Diversity:		
Sediment Core	Time	Oxid Top	Grain Size	Other Features
	NA			
Boats	Time	Name/Color	North/South	Loaded/Light
Recreational	10:57 AM	Small White Boat	South	1 person
Observations	9:39 AM Female duck swimming around the dock 10:40 AM Single bird flying north 10:39 AM Freight oil train heading north 12:21 PM Birds flying in a V south 12:28 PM Freight train heading north 12:49 PM Train heading north			