

**Day in the Life of the Hudson River 10/16/18 Data
QUIET COVE PARK, POUGHKEEPSIE, RIVER MILE: 78**

Salt Front: ~RM 24

**G.W. Krieger Elementary School- Skip Hoover
112 students 5th grade, 12 adults**

**Carolyn Klocker and 3 other staff members, Cornell Cooperative Extension Dutchess County
4 youth employees from No Child Left Inside (Poughkeepsie High School students)**

Bob Adams & Jess, NYSDEC

Latitude 41.44 N & Longitude - 73.56 W

Location: Quiet Cove Park, Poughkeepsie, Dutchess County, NY

Area: Grassy area with parking lot, beach waterfront; used for picnics, boating and fishing

Surrounding Land Use: 60% Beach (riprap banks); 40% Previous Industrial Site

Sampling Site: Old industrial area that has been turned into a park. Shoreline rocky, banks altered with riprap and wooden bulkhead, boat launch for kayaks and canoes

Plants in area: no plants in water area

River Bottom: Muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature:</i>	9:51 AM	7.78 ° C	46 ° F	
	10:16 AM	8.89 ° C	48 ° F	
	12:13 PM	11.11 ° C	52 ° F	
	12:50 PM	12.22 ° C	54 ° F	
<i>Wind Speed: Beaufort Force</i>	9:51 AM	2	Partly cloudy	No Rain
	10:16 AM	4 West	Mostly cloudy	
	12:13 PM	3 West	Mostly Sunny	
	12:50 PM	2 South	Clear	
<i>Weather Previous:</i>	Rainy and cloudy			
Water Temperature	9:53 AM	10 ° C	50 ° F	
	10:19 AM	10 ° C	50 ° F	
	10:57 AM	11 ° C	51.8 ° F	
	12:45 PM	14 ° C	57.2 ° F	
Turbidity – long site tube	9:44 AM	35 cm, 47 cm	Avg: 41 cm	
	10:16 AM	15 cm, 19 cm	Avg: 17 cm	
	10:52 AM	9 cm, 10 cm	Avg: 9.5 cm	
	12:11 PM	5 cm, 15 cm	Avg: 10 cm	
Chemical				
<i>Salinity- LR Quantabs</i>	<i>Time</i>	<i>Chloride</i>	<i>Total Salinity</i>	
	10:55 AM	<32 ppm	Below Detection	
<i>DO – Lamotte Estuary wide kits – low resolution</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:57 AM	11 ° C	4	35
	12:45 PM	14 ° C	4	37
<i>pH – Lamotte Estuary wide kits – low resolution</i>	10:19 AM	8		
	10:57 AM	7		
<i>Nitrates Lamotte Estuary wide kits – low resolution</i>	10:19 AM	2 ppm		
<i>Phosphates -Lamotte Estuary wide kits – low resolution</i>	9:53 AM	2 ppm		
	10:19 AM	2 ppm		
Fish- Seine 4 pulls	Number	Name	Length of longest	
	5	Spottail Shiner	9 cm	
	3	Pumpkinseed	11 cm	
	1	Largemouth Bass	13 cm	
	3	Darter	5 cm	

		TOTAL: 12	Diversity: 4		
<i>Macroinvertebrates</i>		<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
		2	Blue Crab	3 cm	
		TOTAL: 2	Diversity: 1		
<i>Tides- pier to water</i>	<i>Time</i>	<i>Rising, Falling, Still</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>	
	9:51 AM 10:16 AM 12:13 PM	Falling Falling Falling			
<i>Currents Flow</i> <i>*measured in a cove</i>	<i>Time cm/second</i>	<i>Rising, Falling, Unchanged – Cm/sec</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>	
	9:51 AM 10:16 AM 12:13 PM	No data	South South South	Ebb Ebb Ebb	
<i>Boats</i>	<i>Time</i>	<i>Name</i>	<i>Color</i>	<i>North or South</i>	<i>Loaded or Light</i>
Commercial	10:32 AM	Dutchess County Sheriff		South	
Commercial	1:08 PM	UBC Cement	Red	South	1 officer
<i>Other Observations</i>		10:01 AM Freight Train heading North 10:39 AM Helicopter heading North			