

Day in the Life of the Hudson River 10/16/18 Data
SOUTH DOCK, WEST POINT
RIVER MILE: 52
Salt Front: ~RM 24
United States Military Academy- Patrick Baker
16 students K-12 grade, 4 adults
Latitude 41.393241 N & Longitude – 73.951802 W



Location: South Side of Gee's Point, West Point in the vicinity of Duck Island, Orange County, NY
Area: Beach area on the waterfront along the West Point property
Surrounding Land Use: 60% urban/residential; 40% forested
Sampling Site: Grassy, forested, parking lot
Shoreline: 60% muddy; 40% rocky; riprap, covered in vegetation, pipe entering the water (not used)
Plants in area: No plants in the water area; water chestnut seeds
Water: 6 inches water depth, calm
River Bottom: muddy, rocky

ITEM	Time	Reading		Comments
Physical				
<i>Air Temperature:</i>	9:48 AM	10.4 °C	50.72 °F	
	9:55 AM	10.1 °C	50.18 °F	
	10:13 AM	9.7 °C	49.46 °F	
<i>Wind Speed:</i>	9:52 AM	1.5 m/s	2.916 knots	
<i>Weather Today:</i>	No rain, partly cloudy (60%)			
<i>Weather Previous:</i>	Light rain, cooler temperatures			
Water Temperature	9:36 AM	Avg: 14.9 °C		58.82 °F
	9:53 AM	Avg: 16.15 °C		61.07 °F
	10:01 AM	Avg: 15.9 °C		60.62 °F
Turbidity - Turbidimeter	9:36 AM	15.7 NTUs, 9.86 NTUs, 21.7 NTUs	Avg: 15.75 NTUs	A higher third reading because a boat passed by which stirred up some silt/sand.
Chemical				
<i>Salinity- meter – read in Total Salinity</i>	9:30 AM	285 ppm, 284 ppm, 284 ppm		HRECOS @ South Dock: 125 ppm <i>*readings seem high, meter wasn't calibrated</i>
	9:53 AM	283 ppm, 280 ppm, 278 ppm		
	10:01 AM	279 ppm, 277 ppm, 277 ppm		
<i>DO – meter</i>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>
	11:45 AM	12.3 °C		10.03
	11:50 AM	15.5 °C		9.63
<i>pH - meter</i>	9:45 AM	5.92, 5.90, 5.88		HRECOS @ South Dock: pH ~7.5 <i>*readings seem low, meter was not calibrated</i>
	9:55 AM	5.85, 5.86, 5.87		
	10:03 AM	5.84, 5.87, 5.88		
Fish – 30 foot seine 12:00 PM	Number	Name		Length of longest
	2	Banded Killifish		Seine #1: Catch Total 84, Length of Pull: 150'
	80	Alewife		

3:00 PM	2	Striped Bass		Hand capture Fishing pole	CPUE: 1.837
	1	American Eel			
	6	White Perch			Seine #2: Catch Total 30, Length of Pull: 50' CPUE: 1.969
	30	Alewife			
	1	Spottail Shiner			
	TOTAL: 122	Diversity: 7			
<i>Macroinvertebrates- Seine</i>	<i>Number</i>	<i>Name</i>		<i>Length of longest</i>	
	3	Blue Crabs		Male	
	TOTAL: 3	Diversity: 1			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Still</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>	
	9:42 AM	Rising	50	-	
	9:54 AM	Rising	170	10	
	10:00 AM	Rising	240	11.67	
	10:10 AM	Rising	265	2.5	
	10:20 AM	Rising	300	3.5	
<i>Currents Flow</i>	<i>Time</i>	<i>Cm/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
		8.33	0.16		
<i>Sediment Core</i>	<i>Water depth</i>	<i>Length</i>	<i>Oxid Top</i>	<i>Grain Size</i>	<i>Other</i>
NA					
<i>Boats</i>	<i>Time</i>	<i>Name</i>	<i>Color</i>	<i>North/South</i>	<i>Loaded/Light</i>
Recreational	9:50 AM	Small boat	White	North	Light
	9:57 AM	Med. boat	White	South	Light
<i>Other Observations</i>	Water chestnut seeds, broken glass, broken brick, acorns, drift wood, large number of Canadian Geese, 1 caterpillar.				