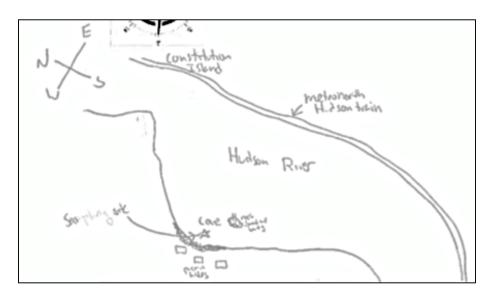
## Day in the Life of the Hudson River 10/16/18 Data SOUTH DOCK, WEST POINT RIVER MILE: 52

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		-		
Air Temperature:	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	
Wind Speed:	9:52 AM	1.5 m/s	2.916 knots	
Weather Today:	No rain, part			
Weather Previous:	Light rain, co			
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 -	9:36 AM	15.7 NTUs,	Avg: 15.75	A higher third
Turbidimeter		9.86 NTUs,	NTUs	reading because a
		21.7 NTUs		boat passed by
				which stirred up
Chemical				some silt/sand.
	0.20 434	205 204 204	HDECOC O	ψ 1·
Salinity- meter – read in	9:30 AM	285 ppm, 284 ppm, 284 ppm	HRECOS @	*readings seem
Total Salinity	9:53 AM	283 ppm, 280 ppm, 278 ppm	South Dock:	high, meter wasn't
D.O.	10:01 AM	279 ppm, 277 ppm, 277 ppm	125 ppm	calibrated
DO – meter	Time	Тетр	ppm DO	% saturation
	11:45 AM	12.3 ° C	10.03	
	11:50 AM	15.5 ° C	9.63	95.8%
pH - meter	9:45 AM	5.92, 5.90, 5.88	HRECOS @	*readings seem
	9:55 AM	5.85, 5.86, 5.87	South Dock: pH	low, meter was not
	10:03 AM	5.84, 5.87, 5.88	~7.5	calibrated
Fish – 30 foot seine	Number	Name	Length of longest	Seine #1: Catch
12:00 PM	2	Banded Killifish		Total 84, Length
	80	Alewife		of Pull: 150'

		2	Striped Bass			<b>CPUE</b> : 1.837
		1	American Eel		Hand capture	
3:00 PM		6	White Perch		Fishing pole	Seine #2: Catch
		30	Alewife			Total 30, Length
		1	Spottail Shiner Diversity: 7			of Pull: 50'
		TOTAL:				<b>CPUE</b> : 1.969
		122	_			
Macroinvertebrates-		Number	Name		Length of longest	
Seine		3	Blue Crabs		Male	
		TOTAL: 3	Diversity: 1			1
Tides-		Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)	
		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	
Currents Flow		Time	Cm/second	Knots	North/South	Ebb/Flood/Still
			8.33	0.16		
Sediment Core		Water depth	Length	Oxid Top	Grain Size	Other
NA						
Boats	Time	Name	Color		North/South	Loaded/Light
Recreational	9:50 AM	Small boat	White		North	Light
9:57 AM		Med. boat	White		South	Light
Other Observations		Water chestn wood, large				