

Day in the Life of the Hudson River 10/20/16 Data

RIVER MILE 152.2

(Salt Front ~ RM 83)

Hudson Shores Park, Watervleit, NY

Amy Parks/Stacey Shepard, North Colonie CSD Learning Enrichment Program

28 students, 5th grade students and 4 adults

Latitude 73° 41' 55" W Longitude 42° 43' 41" N

Location: Hudson Shores Park, Watervleit, Albany County, NY

Area: Rowing dock at park right on the river's edge

Surrounding Land Use: Fishing launch, Rocky with weedy vegetation and a few small shrubs (gravelly)

Sampling Site: 10% beach at low tide, 70% park/parking area, 20% planted/forested, - across the river land use 100% Industrial/Commercial

Shoreline: rocky and muddy

Plants in area: none in the water

Water depth: sharp drop off 8-10 feet out, rocky bottom

Water: Calm

River Bottom: mixture of sand/mud, small rocks

Note: A sinking boat had to be rescued with some large cranes in the afternoon blocking access to the sampling area!

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical - Air Temperature	Time	°F	°C	Average
	9:00 AM	61	17	
	12:05 PM	66	18	
Wind Speed:	Time	Beaufort	Anemometer	Direction
		1		
Cloud Cover	Clear (<25%)	Partly Cloudy (26-50%)	Mostly Cloudy (51-75%)	Overcast (>75%)
Morning				✓
Precipitation	Time	Rain	Describe	
YES	Starting at 12:15 PM steady rain	✓		
Weather last 3 days	Last three day nice and unseasonably warm			
Water	calm			
Water Temperature	Time	°C	°F	Average
	9:51 AM	17	61	
	10:30 AM	16	60	
	11:50 AM	16	60	
	12:25 PM	15	59	
Turbidity – long site tube	Reading 1	Reading 2	Reading 3	Average
9:45 AM	95 cm	122 cm	122 cm	116 cm

10:15 AM	122 cm	122 cm	122 cm	122 cm
11:45 AM	122cm	122 cm	122 cm	122 cm
12:20 PM	109 cm	100 cm	110 cm	106 cm
Chemical	Time	mg/L	Water Temp	% Saturation
DO (Hach Drop count)	9:51 AM	10	17	105%
	10:30 AM	9	16	95%
	11:50 AM	9	16	95%
	12:25 PM	9	15	95%
pH – color match test kit	Reading 1	Reading 2	Reading 3	Average
10:15 AM	7	7.5	7	7
10:50 AM	7.5	7.5	7.5	7.5
12:00 PM	7.5	7.5	7	7
12:45 PM	7.5	7.5	7.5	7.5
Salinity – quantab – Low Range	9:51 AM 12:20 PM	1.2 Units 1.2 Units	33 ppm Chl 33 ppm Chl	60 ppm TS 60 ppm TS
Fish Catch -	ID	Total	Length	
1 Seine	Spot-Tail Shiner Banded killifish	2 2	2 inch 2.5 inch	
2 Seine	Spot-Tail Shiner	1		
TOTALS	Abundance 5	Diversity 2		
In addition to seining the fisheries team brought some fish to ID – These included: 3 Striped Bass 2 Catfish Yellow Perch Walleye Smallmouth Bass Orange Sucker				
Tides –	Time	Water height		Rate of change
*used an 8 inch homemade tide stick!	8:30 AM	244 cm		
	10:01 AM	244 cm		
	10:32 AM	244 cm		
	12:00 PM	243 cm	falling	
	12:30 PM	232 cm	falling	0.4 cm/min
Currents -	cm/30 sec	Cm/sec	Knots	Flood/Edd
9:55 AM	104.8	3.5cm/s	0.07 kts	S E
10:37 AM	238	7.9cm/s	0.15	S E
12:07 PM	237.5	7.9cm/s	0.15	S E