

Day in the Life of the Hudson River 10/12/17 Data

RIVER MILE 152.2

(Salt Front ~ RM 65)

Hudson Shores Park, Watervleit, NY

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

60 students, 5th grade students and 8 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
	9:43 AM	64°F	18 °C	
	11:40 AM	66	19	
	12:56 PM	66	19	
Wind Speed:	Time	Beaufort	Anemometer	Direction
Cloud Cover	Clear (<25%)	Partly Cloudy (26-50%)	Mostly Cloudy (51-75%)	Overcast (>75%)
Morning		✓		
Precipitation	Time	Rain	Describe	
Weather last 3 days				
Water Temp	Time	°C	°F	Average
	9:30 AM	20	68	
	11:09 AM	19	66	
	12:44 PM	21	70	
Turbidity – long site tube	Time	Reading 1	Reading 2	Average
	10:00 AM	121 cm		
	10:57 AM	120 cm		
	12:00 PM	122 cm		
Chemical	Time	mg/L	Water Temp	% Saturat.
DO (Hach Drop count)	9:30 AM	17	20	140%

	11:09 AM	19	19	140%
	12:44 PM	10	21	115%
pH – color match test kit	Reading 1	Reading 2	Reading 3	Average
9:45 AM	7.2	7.1	7.1	7.1
10:33 AM	7.1	7.0	7.0	7.0
12:04 PM	7.0	7.0	7.0	7.0
Salinity – quantab LR				
Fish Catch -	ID	Total	Length	
10:00 AM seine	Banded Killi	1	4.5 cm	DIV 1 TOTAL 1
The fisheries team brought some fish to ID – These included: Walleye: 39.40cm Catfish: 30cm White Sucker: 44cm				
Tides –	Time	Water height		Rate of change
	We have an 8 ft (244 cm) tide stick, it was above that all day			
Currents -	cm/30 sec	Cm/sec	Knots	Flood/Edd
9:43 AM	198	6.6cm/s		E
11:15 AM	345	11 cm/s		E
12:56 PM	457	15 cm/s		E