

**Day in the Life of the Hudson River 10/16/14 Data
(Salt Front RM 65.9)
RIVER MILE 152.2**



**Hudson Shores Park, Watervleit, NY
Amy Parks/Stacey Shepard, North Colonie CSD
30 students, 5th grade students and 6 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: beach area, pier, shore with bulkhead, area covered with vegetation

Plants in area: none in the water

Water depth:

River Bottom: mixture of sand/mud, small rocks

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical - Air Temperature	Time	°F	°C	Average
	9:50 am	72*	22*	72* F/22*C
	10:46 am	74*	24*	
	12:09 pm	71*	21*	
	12:55 pm	72*	22*	
Wind Speed:	Time	Beaufort	Anemometer	Direction
	10:10 am	3	4.6 m/s	N
	10:48 am	3/4	5.6 m/s	N

	12:14 pm	3	4.5 m/s	N f
Cloud Cover	Clear (<25%)	Partly Cloudy (26-50%)	Mostly Cloudy (51-75%)	Overcast (>75%)
10:12 am				✓
10:53 am				✓
12:14 pm				✓
12:45 pm				✓
Precipitation	Time	Rain	Describe	
	10:12 am	N		
	10:54 am	N		
	12:00 pm	Y	Heavy mist	
	12:47 pm	N		
Weather last 3 days	Today is Thursday. Monday – Wednesday were nice days. Tuesday & Wednesday had humid weather. Heavy rains Wednesday night into Thursday morning.			
Water Temperature	Time	°C	°F	Average
	9:55 am	19.46*	67*	18.76C /65.75F
	10:31 am	18.9*	66*	
	11:52 am	17.79*	64*	
	12:25 pm	18.9*	66*	
Turbidity – long site tube	Reading 1	Reading 2	Reading 3	Average
9:55 am	73 cm	82 cm	95 cm	83 cm
10:50 am	74 cm	81 cm	89 cm	81 cm
12:04 pm	45 cm	47 cm	49 cm	47 cm
12:23 pm	57 cm	70 cm	64 cm	64 cm
Chemical	Time	mg/L	Water Temp	% Saturation
DO (Hach Drop count)	10:19 am	10 mg/L	20*	108%
	10:55 am	9 mg/L	20*	99%
	12:15 pm	7 mg/L	20*	80%
	12:55 pm	9 mg/L	20*	97%
pH – color match test kit	10:02 am	7.5		
	10:37 am	7.5		
	11:55 am	7.5		
		7.5		
Salinity - quantab				
Fish Catch -	Time	ID	Number	Longest
Set 2 minnow traps & seined	Nothing in traps			
Seined	10:00 AM	Spot-Tail	9	8 cm

		Shiner			
Seined	11:00 AM	Spot-Tail Shiner	1		6cm
TOTALS		Diversity 1	Totals 10		
Tides - <i>*calculate by: change in elevation/change in time</i>	Time	Water height			*Rate of change
	8:35 AM	204.47 cm	Base reading		
	9:42 AM	254 cm	Rising		
	10:37 am	271.78 cm	Rising		
HT in Albany 11:58 AM	11:53 am	287.02 cm	Rising		
	12:46 pm	259.08 cm	Falling		
Currents -	Feet	cm	cm/30 sec	Cm/sec	N/S*
10:00 am	6'2"	190	190cm/30 sec	6.3cm/sec	S
10:43 am	9'9"	297	297cm/30 sec	9.9 cm/sec	S
12:03 am	11' 6"	351	351cm/30 sec	11.7 cm/sec	S

**Samplers expected a North flowing current because of the flood tide but it seems the recent run off from the rains overwhelmed the tidal current and caused the orange to flow south.*