

Day in the Life of the Hudson River 10/22/19

CHELSEA BOAT LAUNCH

RIVER MILE: 65

Salt Front: ~ RM 53

Wappingers Jr High School- Rosellen Hardt

25 students 7th grade, 4 adults + 1 DEC

Latitude 41.553508 N & Longitude – 73.97024 W

Location: Chelsea Boat Launch, Wappinger Falls, Dutchess County, NY

Area: Rocky, sandy beach for core samples and seining, dock for chemistry

Surrounding Land Use: 25% Urban/Residential, 35% Beach; 40% Industrial/Commercial

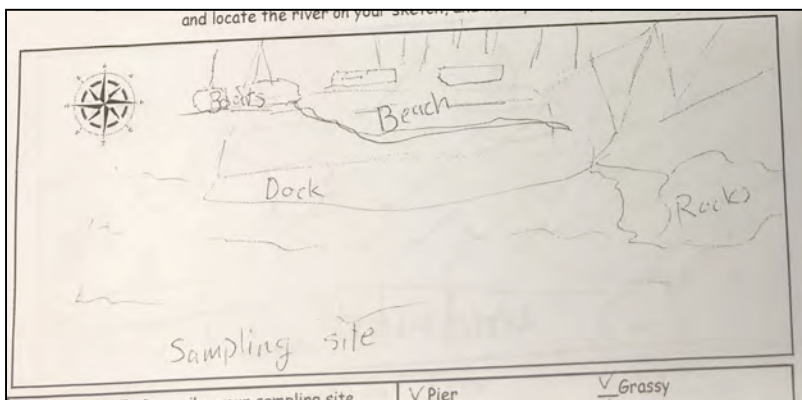
Sampling Site: beach area with pier, pipe entering the water, shoreline covered in vegetation, riprap

shoreline, concrete docking in area

Shoreline: 30% sandy; 40% muddy; 30% rocky

River Bottom: muddy, rocky

Water: Calm



ITEM	Time	Reading		Comments
<i>Physical</i>				
<i>Air Temperature</i>	9:40 AM	15 ° C		
	10:00 AM	15 ° C		
	11:30 AM	15.5 ° C		
<i>Wind Speed:</i>	10:00 AM	Beaufort 2	North	
<i>Weather today</i>	Mostly cloudy (51-75%)			
<i>Weather the past 3 days:</i>	No rain the past 3 days			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (in)</i>	<i>Rate of Tidal Change (cm/min)</i>
	NR			
<i>Current-</i>	<i>Time</i>	<i>cm/second</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	9:40 AM	7.47	North	Flood
	10:00 AM	8.86	North	Flood
<i>Water Temperature</i>	9:40 AM	15 ° C		
	10:40 AM	15 ° C		
	11:30 AM	15.25 ° C		
<i>Turbidity- long sight tube</i>	9:00 AM	34.9, 42, 51, 57, 49, 60 - Avg: 55.3 cm		Cloudy, gray
	10:00 AM	55.4, 53.3, 52.2 - Avg: 53.6 cm		
	10:30 AM	49.2, 54.2, 57.1 - Avg: 53.5 cm		
	11:01 AM	61, 65, 70.6 - Avg: 65.5 cm		
	11:20 AM	38, 46.1, 53.4 - Avg: 45.83 cm		
	12:45 PM	57, 62, 68.3 - Avg: 62.43 cm		
	12:55 PM	66.2, 58.4, 76 - Avg: 66.86 cm		
<i>Chemical</i>				
<i>Salinity- Quantab</i>	<i>Time</i>	<i>Quantab reading</i>	<i>Total Sal. Ppm</i>	
	9:18 AM	1.2	Below Detection	
	10:17 AM	1.2	Below Detection	
	10:45 AM	1.2	Below Detection	
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:00 AM	15 ° C	9	90%

	10:40 AM 11:30 AM	15 °C 15.25 °C	9 10	90% 100%
<i>pH – color match kit</i>	9:01 AM 9:56 AM 11:25 AM	7.5 7.5 7.5		
Biological				
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Totals</i>
9:10 AM	10	Spottail Shiner	5 cm	Spottail Shiner 37 Banded Killi 3 Striped Bass 2 Pumpkin Seed 1 White Perch 4
9:30 AM	7	Spottail Shiner	8 cm	
	2	Banded Killifish	13 cm	
9:45 AM	15	Spottail Shiner	5 cm	
10:30 AM	5	Spottail shiner	5 cm	
	1	Banded Killifish	8 cm	
	2	Striped Bass	8 cm	
12:30 PM	1	Pumpkin Seed	15 cm	
	4	White Perch	5 cm	
Fish Totals	TOTAL: 47	DIVERSITY: 5		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
9:45 AM	1	Blue Crab (M)		
10:30 AM	1	Blue Crab (M)		
Macroinvertebrate Totals	TOTAL:	Diversity:		
Observations	Pieces of shells, brick, water chestnut seeds, 1 bee, 1 blue heron, birds			