

Day in the Life of the Hudson River 10/20/15 Data
RIVER MILE 153
River Park, Green Island Park, Green Island NY
Kate Perry, Robert C. Parker School
42 students - 2nd & 3rd and 6th and 7th grade students, 14 adults
42.75 N -73.69 W



Location: Green Island Park boat ramp, below the Troy Dam, Albany County, NY

Area: Park above bluff and then beach below just south of the Troy dam

Surrounding Land Use: Forested, Rocky, Fishing access, gravel, some vegetation

Sampling Site: 25% urban/residential, 75% industrial/commercial

Shoreline: Rocky, broken concrete docking, very rocky shoreline, slag,

concrete at the launch, brick pieces, vegetation, pipe directly across sampling site

Plants in water: very few plants in the water – 1%

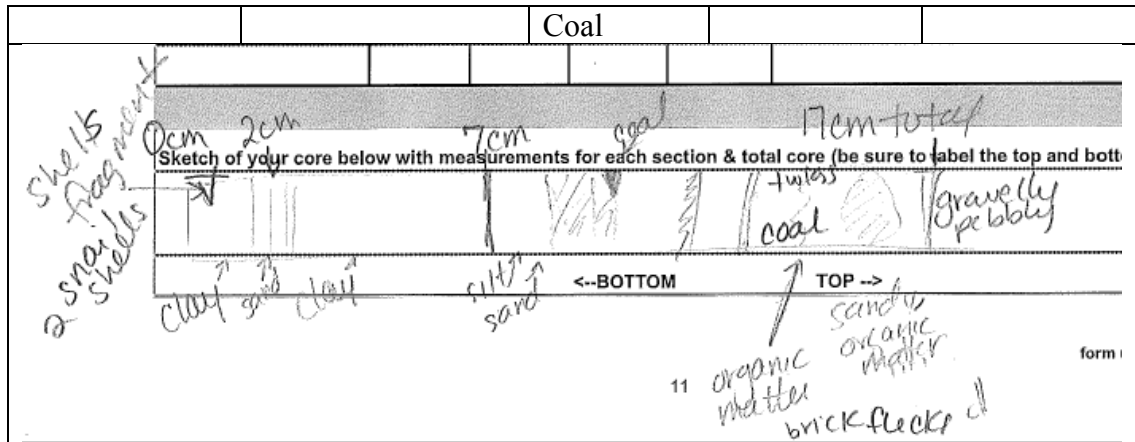
Plants in area: 10% of sample area had goldenrod, smartweed, ox eye daisy, grasses, speckle alder, purple loosestrife

Water depth: 0-10 cm along shore

River Bottom: mainly rocky, some muddy & weedy

ITEM	Time	Reading 1	Reading 2	Comments
Physical				
Air Temperature	10:23AM	41 °F 6°C	10:59 AM	41 °F 8°C
Wind Speed	#2 Beaufort	4-7 mph	4-6 kts.	South
Cloud Cover	Overcast			
Weather today	Light rain on and off <1 cm collected 9:30 -11:30 AM – light periods of showers			
Weather	Cold 3 days ago 10/17 – snow and small amount of hail. Sunnier			

recently	yesterday			
Water surface	Mostly calm			
Water Temperature	10:00 AM 10:20 AM	10°C 10	50°F 50	
Turbidity – long site tube	10:00 AM	28.33 cm 20.07 cm 31.67cm	26.69 cm average	
Chemical	10:00 AM	1.0		
DO (Drop count kit)	10:25 AM	10°C	16 ppm	140%
pH - paper	10:10 AM	6.0 X 3		Average 6.0
Salinity –meter	10:25 AM	250 ppm 230 230	236.6 ppm* expect this might be conductivity u/S	
Salinity quantab	1.2 reading	30 ppm Cl-		
Nitrates	10:00 AM	0 ppm		
Phosphates	10:00 Am	0 ppm		
Fish Catch – DEC shocked & shared catch	Time	Number Caught	Species	Size Largest
		2	Sucker	40 cm
		4	Striped Bass	220 cm
		2	Largemouth bass	16 cm
		2	Catfish	54 cm
		2	Redhorse	48 cm
		1	Walleye	39 cm
		1	Pumpkin seed	13 cm
		Diversity 7	14 Total	
	TOTAL CATCH	25	TOTAL SPECIES	4
	Macro-invertebrates	Waterboat man	snails	
Sediment Core	Length	RARE	NOTES	COMMON
9:45 Am Water 70 cm deep	17 cm	Gravel Pebbles Leaves Wood Shells Zebra Mus. Shell Macroinv Brick	Lowest 2 cm Lowest 2 cm Lowest 2 cm Lowest 4 cm	Clay Sand Living Vegetation



Tides	Time	Height in c	Rising/Fallin g	Rate of change	
	9:50 AM	10 cm			
	10:17 AM	12 cm	Rising 12 cm	0.06 cm/min	
	10:34 AM	11.5 cm	Falling		
	10:43 AM	12 cm?	Falling		
	10:48 AM	8 cm	Falling		
	10:54 AM	5 cm	Falling	0.17 cm/min	
Currents	Time	Cm/30 secs	Cm/sec	Knots	N/S Ebb/Fld/Still
Shoreline*	10:23AM	45 cm	1.5cm/sec	0.029	S- Ebb –
Channel*	10:55AM	1000	33.3cm/sec	0.65	S Ebb
Changed location for sampling current to compare shoreline to center channel					
Traffic commercial	10:30 AM		Tan	North	Loaded
	10:30 AM		DEC Boat	Stopped here	Fishing Boat
Recreational	10:30 Am		White	North & South	People
Other Items	Bald eagle soaring overhead, many gulls, few crows, pigeons, squirrel - too much garbage				
Almanac	Troy Dam – Cold rain greeted us at the river’s edge. We put up a tarp, got out our equipment and delved into the data collection A gift of time and effort, the DEC fisheries shocked fish, parents & teachers coordinated groups of inquiring students, and busy data collectors, set to work as official scientists. We were thrilled by a bald eagle, biting walleye and boat traffic.				
Marissa DeMartino – 7th grade Robert C. Parker School	As the footprint steps on the Hudson River We come to see how she is. As the trees blow and the rain comes down We go to the water and check her for problems to see if she is OK. Soon after, we find that all is good As we leave, the great river looks back at us. She thanks us and waves goodbye She might just be a river to you but she is my everything.				

