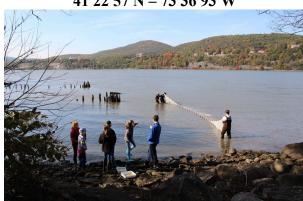
Snapshot Day 10/20/15 Data RIVER MILE 51.5

Garrison Landing Park

Cathy Bakker, Hudson Highlands Land Trust Kevin Keegan, Garrison Union Free School 7th graders 30 students, 5 adults 41 22 57 N – 73 36 93 W







Location: Garrison Landing Park, Garrison, Putnam County, NY

Area: Waterfront beach area on front of grassy park primarily used for boating & picnics

Surrounding Land Use: Beach 10%, Urban/residential 40%, Forested 50%

Sampling Site: Rocky shoreline, Pier, shore with bulkhead, forested, riprap, grassy,

parking lot

Shoreline: Sandy, muddy, rocky

Plants in area: no plants in the water but evidence of water chesnut

Water depth: 39.5 inches

River Bottom – muddy/rocky bottom

ITEM	Time	Reading 1		Comments
Physical				
Air Temperature	10:11 AM	48 °F	9°C	
	11:08 AM	63	17	
	11:57 AM	57	14	

Wind Speed	Beaufort #	Knots	Mph	Direction		
11:14 AM	Force #1.5			S,S,NE		
Cloud Cover	10:15 AM	0-25% cover				
	12:00 PM					
Weather today	No rain	-		1		
Weather recently	Windy and cold					
Water Surface	Calm & choppy at times					
Water	9:20 AM	17.5°C	1-2 ft water			
Temperature	10:30	16				
	11:35	20				
Turbidity – short	12:04 PM	88 JTU				
site tube	12.0.1111	130 JTU				
Sile tille		200 JTU				
Chemical		200010				
DO -colormetric	9:36 AM	7 mg/L	17.5°C	72.5 %		
analysis	10:46	8	16	80%		
anarysis	11:49	10	20	107%		
pH – color match	Time	Reading	20	Averages		
test	1 tme	Keuuing		Averages		
test	9:25 AM	6				
	9:29 AM	7				
	10:30 AM	6.5, 7.5				
	11:32 AM	7, 7.5				
Salinity - quantab	9:49 AM	780 ppm Cl	1409 ppm	Total		
Suimiy - quantuo	10:39 AM	675	1219	Salinity		
	11:52 AM	675	1219	Samily		
Tides	Time	Inches	1217			
Times	9:29 AM	42 "	Flood			
	9:45	42 43	Flood			
	10:00	44	Flood			
	10:00	46	Flood			
	10:13	6 below	Ebb			
	11:14	original	Ebb			
	11:35	1.3 below	Ebb			
	11.55	5.75 below	Loo			
Currents/Time	Cm/30 secs	Cm/Sec	Knots	Ebb/Flood/		
Currents/1tmc	Cin/50 sees	CIII/Sec	IXHOUS	Still		
10:10 AM	165/30	5.5 cm/sec		Ebb		
10:58 AM	210 cm	7 cm/sec				
11:55 AM		, 3333		Flood		
12:15 PM	120/30	4 cm		Still		
Seine – 60 ft. X	SPECIES	9:30 SEINE	10:40	11:06		
94.2 ft. pull – ¼			SEINE	SEINE		
	1		~=== ,==			
inch mesh	Hog Choker	4	4	0		

	Alewife	36	0	0
	American	4	0	0
	Shad			
	Smallmouth	1	0	0
	Bass			
	Atlantic	16	1	5
	Silverside			
	Striped Bass	3	2	1
	Pumpkinseed	1	2	0
	Spottail	1	5	0
	Shiner			
	Channel	2	0	0
	Catfish			
	American	2	0	0
	Eel			
	Yellow	11	0	0
	Perch			
	Tessellated	1	0	0
	Dater			
Fish TOTALS	DIV 13	87	22	6
115			_	
Macroinvertebrates	Blue Crab	0	5	0
Macro totals		Diversity 1	Totals 5	
Traffic –				
Commerical				
Sediment Core –	Length/	Abundant –	Common	Rare
	Description			
Core 1	3 inches	Clay	Mud	Sand
	H2S smell			
	Oil			
Core 2	12 inches	Clay	Mud	Sand
	H2S smell			