

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

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>		<i>Comments</i>
<i>Physical</i>				
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 12:00 PM	0-25% cover		
Weather today	No rain			
Weather recently	Windy and cold			
Water Surface	Calm & choppy at times			
Water Temperature	9:20 AM 10:30 11:35	17.5°C 16 20	1-2 ft water	
Turbidity – short site tube	12:04 PM	88 JTU 130 JTU 200 JTU		
Chemical				
DO -colorimetric analysis	9:36 AM 10:46 11:49	7 mg/L 8 10	17.5°C 16 20	72.5 % 80% 107%
pH – color match test	Time	Reading		Averages
	9:25 AM 9:29 AM 10:30 AM 11:32 AM	6 7 6.5, 7.5 7, 7.5		
Salinity - quantab	9:49 AM 10:39 AM 11:52 AM	780 ppm Cl 675 675	1409 ppm 1219 1219	Total Salinity
Tides	Time	Inches		
	9:29 AM 9:45 10:00 10:15 10:52 11:14 11:35	42 “ 43 44 46 6 below original 1.3 below 5.75 below	Flood Flood Flood Flood Ebb Ebb Ebb	
Currents/Time	Cm/30 secs	Cm/Sec	Knots	Ebb/Flood/Still
10:10 AM 10:58 AM 11:55 AM 12:15 PM	165/30 210 cm 120/30	5.5 cm/sec 7 cm/sec 4 cm		Ebb Flood Still
Seine – 60 ft. X 94.2 ft. pull – ¼ inch mesh	SPECIES	9:30 SEINE	10:40 SEINE	11:06 SEINE
	Hog Choker	4	4	0
	White Perch	5	8	0

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