

**Snapshot Day 10/12/06 Data**  
**(Salt Front RM 52.5)**  
**RIVER MILE 61E**  
**Long Dock, Beacon**  
**Latitude 42° 15'.407" Longitude 73° 48'.781"**  
**Rebecca Johnson, NYS DEC Hudson River Estuary Program**  
**Susan Hereth, Scenic Hudson**  
**Linda Houlihan, Beacon 5<sup>th</sup> grade**



**Location:** Long Dock in Beacon, Dutchess County NY

**Area:** Site is forested, open and grassy, includes a parking lot, used for picnics, and fishing

**Surrounding Land Use:** Forested 25%, beach 35%, urban-residential 2%, open area with grass and cement 38%

**Sampling Site:** beach, banks altered, shoreline rip rap, bulkhead, collected wood/debris

**Plants in area:**

Tidal Shallows Plants	water celery 15%	water chestnut 85%
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**Water depth:** 1-5 ft. deep

**Bottom Surface:** rocky and muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:20 AM	19°C 62 °F		
	11:20 AM	21°C 68 °F		
	1:20 PM	21°C 70 °F		
Wind Speed	10:20 AM	11-16 knots Beaufort	South	
	11:20 AM	10 knots		
Cloud Cover	overcast			Water choppy

Weather today	Mostly cloudy and overcast BUT at 11:30 sun came out			
Weather recently	Stormy and showers overnight, windy warm and sunny 2 days ago			
<b>Water Temperature</b>	10:15 AM	62° F 18°C	62° F 18°C	
	10:45 AM	61° F 17°C	61° F 17°C	
	11:15 AM	62° F 18°C	62° F 18°C	
	12:10 PM	63° F 19°C	60° F 17°C	Second temp. in shady spot
	12:51 PM	62° F 18°C	62° F 18°C	
	1:25 PM	62° F 18°C	62° F 18°C	
<b>Turbidity</b>	10:30 Am	80 JTU	80 JTU	Sight tube
	10:45 AM	80 JTU	80 JTU	
	11:30 AM	80 JTU	80 JTU	
	12:40 PM	80 JTU	80 JTU	
	12:50 PM	80 JTU	80 JTU	
	1:25 PM	80 JTU	80 JTU	
<b>Chlorophyll</b>	9:00	2.0		
<b>Chemical</b>				
DO (drop kit) 9.0 mg/L each test	10:15-1:25 PM	9.0 mg/L	17°C 63°F	95%
pH – <b>Indicator Sol.</b>	10:15-1:25	7.5	7.5	7.5
<b>pH pen</b>	10:15-1:25	8.0	8.1	7.9
Phosphate				
Nitrate				
Alkalinity	12:45 PM	120 ppm		
Salinity - %NaCl	10:15-1:25	.006	.005	.006

<b><i>Fish Catch</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>	<b><i>CPUE</i></b>	<b><i>Seine – 1 pull 80 ft.</i></b>
	4	Blueback Herring		
	1	Pumpkinseed		
	2	Smallmouth bass		
	1	Spottail shiner		
	6	Striped bass		
	5	White perch		
	1	American Shad	Y-o-y (young of the year)	
<b><i>Tides</i></b>	10:08 AM			
	10:35 AM		Falling	
	10:40 AM		Falling	
	11:28 AM		Rising	
	12:05 PM		Rising	
	12:40 PM		Rising	
	1:05 PM		Rising	
	1:45 PM		Rising	
<b><i>Currents</i></b>	Wind was pushing stick upriver (north) – wind too strong to determine current I believe			
<b><i>Traffic</i></b>	12:45 PM	Very large Barge	South	loaded – possible fill or dirt
<b><i>Other Items</i></b>		Immature bald eagle		
		Gulls		
		cormorant		
	2	Monarch butterflies		