## Snapshot Day 10/12/06 Data (Salt Front RM 52.5) RIVER MILE 58

## Kowawese Unique Area, Plum Point GPS Latitude 41°46'N Longitude 74°.01'W Pam Golben, Museum of the Hudson Highlands Sue Mitchell, Cornwall Central High School (11-12<sup>th</sup> grade)



Location: Sandy beach at Kowawese, New Windsor, Orange County

Area: Sandy beach surrounded by grass and trees and picnic area. Parkign above beach

area. No swimming. People fish and launch boats here.

Surrounding Land Use: Forested 10%, beach 70%, park 20%

Sampling Site: sandy beach (cove) – Moodna Creek just south of beach. Much wood,

plants and trash washed up on beach.

**Plants in area:** no plants growing in the water at the beach area

Washed up on shore: 85% water chestnut 15% water celery

Water depth: 2 feet

**River Bottom** – sandy with some rocks – no aquatic plants rooted, only washed up on

the beach

ITEM	Time	Reading 1	Reading 2	Comments
Physical				
Air Temperature	10:22 AM	17.7°C	17.7°C	17.2°C
		64°F	64°F	63°F
	11:18 AM	17.7°C	17.7°C	17.7°C
		64°F	64°F	64°F
	1:15 PM	20°C	19.4°C	20°C
		68°F	67°F	68°F
Wind Speed	2 knots	South	Water somewhat choppy	

Cloud Cover	Overcast to begin then went to partly cloudy					
Weather today	Drizzle in A	ΔM				
Weather recently	Heavy rain overnight, light rain day before, 2-3 days before					
	that warm and sunny					
Water	10:30 AM	63° F	11:30 AM	65° F		
Temperature		17.2°C		18.3°C		
Turbidity	10:22 AM	80 JTU	80 JTU	80JTU		
sight tube						
	11:00 AM	50 JTU	60 JTU	60 JTU		
	1:15 PM	60 JTU	80 JTU	60 JTU		
Chlorophyll	10:25	.7	1:15 PM	1.0		
Chemical						
DO	10:25 AM	10.0 mg/L	18°C	110%		
(drop kit)						
	12:45	11.0 mg/L	19°C	115%		
	1:40 PM	10.0 mg/L	19°C	105%		
pH (litmus paper)	10:22 AM	7.0	7.6	7.0		
Phosphate						
Nitrate						
Alkalinity						
Salinity	11:22 AM	36 ppm				
Quantabs						
	12:45 PM	57 ppm				
	1:40 PM	57 ppm				
Fish Catch	Number	Species	CPUE	Seine		
	Caught			25 ft net/ 20 ft		
				pull		
11:00 AM low tide	14	Unknown baby		Seine #1		
		fish w/forked		(2 pulls each		
		tail		group)		
		G 1 1 D		(17 total)		
	2	Striped Bass				
12.00	1	Blue crab		g : "2		
12:00 noon higher	1	Herring		Seine #2		
tide				(2 pulls each		
				group)		
	<i>E</i>	I In lan over 11		(12 total)		
	5	Unknown baby fish w/forked				
		tail				
	1	White perch				
	1	willie peren				
	2	Spottail chiner				
	2	Spottail shiner				
	1	Striped crab				
		-				

1:00 PM	6	Spottail Shiner		Seine #3 (2 pulls each group) (9 total)	
	2	Striped Bass			
	1	Sunfish			
Tides	11:15 AM	23 cm			
	11:50 AM	41 cm	Rising		
	12:50 PM	74 cm	Rising		
	1:10 PM	81 cm	Rising		
	1:35 PM	61 cm	Falling		
	1:45 PM	58 cm	Falling		
Currents			Beach is in a cove – no currents recorded		
Traffic	1:15 PM	Canoe with 2 sails	Southbound		
	1:50 PM	Large red barge	Southbound		
041	2	Conton on allege			
Other Items	2 2	Garter snakes			
	2	Monarch butterflies			
	12	People: fishing,	ople: fishing, with dogs, walking, picnicing		