Snapshot Day 10/18/11 (Salt Front RM 35.7) RIVER MILE 58

Kowawese Unique Area, Plum Point, New Windsor, Orange County, NY Judy Onufer & Pam Golben Museum of the Hudson Highlands Dr. Bhalla and Mt. St. Mary's College

Bernadette Kleister, Bishop Dunn Memorial School - 7th grade - 36 students GPS Latitude 41°27'44"N Longitude 74°00'41"W



Location: Sandy beach at Kowawese, New Windsor, Orange County, Public Shore, Picnic Area

Area: Sandy beach bordered by forested area and parking lot. Used for picnic, fishing,

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Surrounding Land Use: Forested 40%, beach 50%, Urban/residential 20%

Sampling Site: sandy beach (cove), rip rap in area of sampling site, debris in the area such as broken concrete, docking

Plants in area: Yes - < 10% of sampling area - 5% of plants Water Chestnut- 95% - other vegetation. (no water celery at all this year – more intact water chestnut than in prior years – perhaps storms and high water level dislodged plants that were washed downriver?)

Other trees in area – mostly wooded – oak, tulip, poplar and maple.

Water depth: <1 meter; Ebb tide early, followed by flood tide (low @ 10:14)

River Bottom –Mostly mud/sand with a few larger rocks.

ITEM	Time	Reading 1	Reading 2	Comments
Physical				
Air Temperature	10:30 AM	11°C		
		52°F		
Wind Speed	0 – calm early	Increased to 2		
_	in day	later in day		
Cloud Cover	Partly cloudy	No	Sky became more clear with sunny intervals by 11:30 AM	
		precipitation		

Weather today	Sunny 60s			
Weather recently				
Water Surface	calm			
Water	9:30 AM	59.9 ° F		
Temperature		15.5 °C		
	10:10 AM	60.3° F		
		15.7°C		
	11:45 AM	64.6° F		
		18.1°C		
	12:25 PM	65.3° F		
		18.5°C		
Water Calm	yes			
Turbidity	9:30 AM	50 JTU		56.7 JTU avg.
Short sight tube		60		
J		60		
Chlorophyll	8:50 AM	3.0	100cc only*	
Chemical				
DO	TIME	Temp	DO	% Sat
(drop kit)				
DO – drop count	9:30 AM	15.5 °C	9	90
test kits	10:15 AM	16.7	10	102.5
	11:40 AM	16.2	11	110
	12:30 PM	17.1	11	100
pH - meter	9:30 AM	7.20		
	10:15 AM	7.18		
	11:40 AM	7.18		
G 1: '4 O 4 1	12:30 PM	7.30	CI	TD 4 1
Salinity -Quantabs	TIME	ppt	Cl-	Total Salinity
	9:30 AM	1.0	23 ppm	41.6 ppm
	12:30 PM	1.2	29 ppm	52.4 ppm
Fish Catch 35 ' X 3 ' with 1/4 inch mesh	Time	Species	#	Size of largest (inches)
Water temp	9:30 AM X 2	Alewives	70	2
12°C	pulls	Allewives	70	2
		Spottail Shiner	7	3
		White Perch	4	5.5
		Gizzard Shad	3	4
Water temp 12°C	10:15 AM X 2 pulls	Alewives	63	2
	*	Spottail Shiner	7	3

		White Perch	3	5
		Gizzard Shad	6	4
Water temp	11:45 AM X	Alewives	45	2
18°C	2 pull			
		Spottail Shiner	4	3
		Gizzard Shad	1	4
		Striped Bass	2	2
		(yoy)		
Water temp	12:30 PM X 2	Alewives	29	2
18°C	pulls			
		Spottail Shiner	2	3
		Striped Bass	3	2.5
Tides -	Time	Height in cm	Rate of	Rising/falling
(low tide in			change	
Newburgh 10:14				
AM)				
	9:30AM	0 inch		
	10:33 AM	-1 inch		Falling
	11:30 AM	15 inch		Rising
	12:01 PM	18 inch		Risinf
Currents	Very little	Water very quiet		
		and still early in		
		the day		
Core	4 inch	1 inch top –	3 inch lower	
		sandy/pebbly	- clay-like –	
			sulfur odor	
Traffic				
Other				