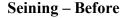
Snapshot Day 10/14/10 Data (Salt Front RM 36) **RIVER MILE 41**

Steamboat Dock Park, Verplanck, Westchester Beth Rhines, Teatown Lake Reservation

Bob Connick, Sott Rizzo, Mahopac High School - Chem Honors, Regents and APES - 9th - 12th graders - 41 students Latitude N 41°14'.56" Longitude W 73°57'.52"







Seining – After!

Location: Steamboat Dock Park beach, City of Verplanck in Westchester County **Area:** located in a small cove between a point and a bulkhead – sampled approximately 30 ft. from south end of dock/parking lot

Surrounding Land Use: Urban/residential 50%, beach 50%. Some buildings with large parking lots in front to the north. Beach, a street with houses with some trees to the south

Sampling Site: beach, riprap, banks altered, dock, bulkhead, vegetation

Plants in area: eel grass, Virginia creeper, wild grape, poison ivy, tree of heaven

Water depth: 61 cm

River Bottom – sandy and rocky

Observations- Bricks, houses, rockwalls, fences, parking lot, picnic benches, fencing

ITEM	Time	Reading 1	Reading 2	Comments
Physical				
Air Temperature		17.3 °C		

Sampled in direct sun off the dock for chemistry	Sampled in small cove for biology					
	and physica					
Wind Speed		0-5 knots	Northwest			
Cloud Cover	none					
Weather today	Partly cloudy					
Weather recently	Clear, cool, light showers					
Water Surface	Calm					
Water Temperature –	10:30 AM	18.6°C		Water depth 1ft.		
	11:05 PM	18.5°C		Water depth 1 ft.		
	12:15 PM	19°C		Water depth 1 ft.		
Turbidity – long- site tube	10:33 AM	26.4 cm 28.2 cm 26.0 cm 26.8 cm		26.9 cm		
	11:16 AM	26.8 cm 28.2 cm 26 cm 27 cm		27 cm		
	12:01 PM	29.2 cm 32.8 cm 34.0 cm		32.0 cm		
Chlorophyll						
Chemical						
DO	10:30 AM	4 mg/L (?)	18.5°C	41 %		
(drop kits)		8 mg/L	18.6	82%		
1 /		7 mg/L	18.6	74%		
	11:00 AM	8 mg/L	18.5°C	85%		
		8 mg/L	18.5	85%		
	11:45 AM	7 mg/L	19°C	75%		
		7 mg/L	18	61%		
	12:00 PM	7 mg/L	18°C	61%		
pH Indicator sol	10:25 AM	7.5	11:25 Am	8.5		
	11:05 AM	7.5	11:50 Am	7.5		
	11:16 AM	8.5	12:03 PM	7.5		
Salinity meter	11:05 AM	0.1 ppt 0.1 0.1	12:15 PM	0.1 ppt 0.1 0.1		

Conductivity		231	milliseimen/cm			
		234 235				
NOTES	Very low compared to other years. Possible reasons – lots of rain, very low tide					
Alkalinity		120 mg/L 100 110		Average 110 mg/L		
Nitrates		7.0 mg/L		Seems very high		
Phosphate		0.33 ppm 0.33 ppm				
Fish Catch- 11:30 AM	Number Caught	Species	CPUE	Seine		
20 ft net X 4ft– 50 ft. pull	1	White Perch				
4X6 mm openings	2	Striped Bass				
	1	Blueback Herring				
Tides	TIME	Water height	Rise/Fall			
	10:11 AM					
	11:40 AM	57 cm	rising			
	12:11 AM	215 cm	rising			
Currents	Time	Cm/60 sec	Knots	Direction		
Core –	TIME	Rare	Common	Abundant		
	12:05 PM	Clay Mud	Gravel Pebbles	Sand		
Traffic	11:45 AM	Millenium	White	Southbound		
	11:49 AM	Coast guard	Grey	Northbound		
	11:02 AM	Indian Point Guard	Grey Blue	Northbound		
	11:16 AM	Indian point guard	Grey/blue	Southbound		
	11:28 AM	Speedboat	White	Southbound		
Other Items	11 Ringed-Bill Gulls, 3 song birds (11:56 AM), 18 cormorants, 1 black duck, 2 mute swans and 1 dog					