Snapshot Day 10/12/06 Data (Salt Front RM 52.5) RIVER MILE 84.5

Mills-Norrie Point Environmental Center, Staatsburgh, NY, Dutchess County Jean Villa McAvoy & Laurie Fila, Hudson River National Estuarine Research Reserve (HRNERR)

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Location: Sampling done on the southern inlet of Norrie Point. East side of Hudson far from the main channel in a protected cove

Area: Substantial paved areas nearby, large environmental center building adjacent to the water.

Surrounding Land Use: forested 60%; Environmental Education Center (EEC) and concrete patio, parking lots and access area 40%

Sampling Site: Seining area – large parking lot adjacent to shallows – fairly protected bay. By water chemistry area: samples collected off concrete patio adjacent to dock and EEC; Wind and weather taken from inside EEC & concrete patio between building and river

Shoreline: covered with vegetation (some duckweed on surface, water celery in the baymostly uprooted), banks altered for EEC building, riprap along RR tracks, collected wood and debris in shallow cove

Plants in area: 7% of water in sampling site is covered with plants.

cattail
duckweed
water celery
water chestnut
sedge (unknown variety)
yellow flag (iris)

Water depth: 3-6 feet deep where chemistry water collected **River Bottom** – gravel and rock bottom where chemistry done. Rocky and partly muddy where seining/sediment/plankton done.

ITEM	Time	Reading 1	Reading 2	Comments					
Physical									
Air Temperature			Average Daily	19.2°C					
	9:36am	18°C	Тетр						
	10:17am	18°C							
	10:50am	17°C							
	12:18pm	23°C							
	1:01 AM	20°C							
Wind Speed	9:36am			Overcast					
•	10:17am	south	7 to 10	Overcast					
	10:50am	south	4 to 6	Mostly cloudy					
	12:18pm	south	4 to 6	Overcast					
	1:01pm	south	4 to 6	Mostly cloudy					
Cloud Cover	Yes all day								
Weather today	No rain								
Weather recently	Rainy afterno	on and evening,	windy						
Water		17°C	18°C						
Temperature	9:52am								
	10:31am	17°C	17°C						
	11:04am	17°C	17°C						
	12:15pm	17°C	17°C						
	1:03pm	17°C	17°C						
Turbidity	Time	Secchi	Sight tube						
Results posted as	9:44am	90cm (2)	48 cm						
averages of 3	10:26am	70cm							
groups except	11:08am	34cm							
where noted with	12:30pm	45cm							
(2)	1:15pm	45cm	54 cm (2)						
Chlorophyll	9:30 AM	5.0	11:20 AM	2.0					
Chemical									
DO		8.0 mg/L	17.5°C	83%					
(drop count)	9:32am								
	10:28am	8.0 mg/L	17°C	82%					
	11:04am	9.0 mg/L 17°C		93%					
	12:18pm	9.0 mg/L 17°C		93%					
	12:42pm	9.0 mg/L	93%						

рН									
Phosphate									
Nitrate									
Alkalinity									
Salinity	9:35am		40 mg/l		35 mg/L		37.5 mg/L		
-drop count kit	10:14am		35 mg/L		35 mg/L		35 mg/L		
•	10:55 AM			ng/L	35 mg/L		37.5 mg/L		
	12:10pm			ng/L	40 mg/L		42.5 mg/L		
	12:56pm			ng/L	40 mg/L	40 mg		į/L	
Fish seined	Group1	Grou	<i>up 2</i>	Group 3	*Group	Group 5			
39X4 ft. X 0.375	1		-	•	4		•		
mesh									
American Eel	5	4		1	1	7		18	
Golden Shiner						1		1	
Herring						6		6	
Pumpkinseed	6	4		4		15		29	
Smallmouth Bass				1				1	
Spottail Shiner	3				1	2		6	
Sunfish					6			6	
Tesselated Darter	1							1	
Killifish	1			1	6	2		10	
Blue Crab	2	1		1				4	
TOTALS	18	9		7	14	33	3	81	

Macros: 2 boatmen, 1 water beetle, 1 damselfly, isopods

* noted that they thought a large or small mouth bass was in this count but it wasn't recorded on the sheet

30 ft net/60 ft pull	548.64 m	5 total	0.009	Seine #1	
30 ft net/60 ft pull	548.64 m	2 total	0.004	Seine #2	
30 ft net/60 ft pull	548.64 m	1 total	0.002	Seine #3	
30 ft net/60 ft pull	548.64 m	6 total	0.011	Seine #4	
30 ft net/60 ft pull	548.64 m	9 total	0.016	Seine	
30 ft net/60 ft pull	548.64 m	9 total	0.016	Seine #6	
30 ft net/60 ft pull	548.64 m	17 total	0.031	Seine #7	
30 ft net/60 ft pull	548.64 m	16 total	0.029	Seine #8	
30 ft net/60 ft pull	548.64 m	17 total	0.031	Seine #9	
30 ft net/60 ft pull	548.64 m	10 total	0.018	Seine #10	
Tides		cm	Ebb or flood		
	9:30am	59	ebb		
	10:10am	49	ebb		
	10:38am	41	ebb		
	10:45am	39	ebb		
	11:10am	36	ebb		
	12:11pm	33	flood		
	12:36 PM	38	flood		

	12:5	55pm 46			flood			
	1:25	pm	63	63		od		
Currents	Not							
	recorded							
* Site is far from ma	* Site is far from main channel – unable to calculate current due to site restrictions							
Traffic		Time	Direc	tion				
Sailboat under powe	Sailboat under power		South	South				
Freighter (Intermaria	Freighter (Intermarine)		North	North				
Tanker	Tanker		North	North				
Pleasure Boat		12:19	South	South				
Tugboat		12:21	South	South				
Commercial Tour Boat		12:52	South	South				
Other Items	Bald eagle flew by and landed in a tree just south of the							
		cove near the site.						
		We also saw the Pilot boat motor out to exchange boat						
		pilots.						
		It was an exciting, informative and fun-filled day;						
		basically it was AWESOME!! A number of Haviland						
		students were heard to say that it was the best field trip						
		they had been on!						