Snapshot Day 10/18/11 Data (Salt Front RM 35.7)

RIVER MILE 35 – Bowline Park, Haverstraw Waterfront Tom Lake, DEC helped with seining Chuck Barone, Nanuet High School – 12th grade – 20 students 41.° 12'11" N 73.° 57' 48" W



Location: Bowline Park, Haverstraw waterfront, Rockland County NY

Area: Parking lot, recreation, fishing

Surrounding Land Use: 15% beach, 75% Industrial/commercial, 10% other

Sampling Site: shoreline is sandy, muddy, rocky, small beach, bank altered, large rip rap, bulkhead, industrial tress spans the water to the north and east, bricks in the sand

Piping coming into river

Plants in area: water chestnut seed pods (devil-heads) in area 2% (traveled on

waterway), uprooted vallisneria (water celery) 2%, trees 2%

Water depth: 1 meter/3 ft.

River Bottom -sandy, muddy, rocky

ITEM	Time	Reading 1	Reading 2	Comments
Physical				
Air Temperature	8:45 am	53°F		
		11.8°C	Per Tom Lake	
	10:05 am	59.2°F		
		15.1°C		
	10:50 AM	68°F		
		20°C		
	11:56 AM	66°F		
		18°C		
Wind Speed				NW shifting to
				S in the last
	Beaufort #2	4-7 miles/hr	4-6 knots	rotations

Cloud Cover	Partly	Sunny and		
	cloudy	windy		
Weather today	No rain			
Weather last 3	No rain last	Overcast in	Sunny during	
days	few days	AMs	day	
Water				
Temperature –				
depth 63 cm		17.0°C	63°F	
average	8:45 AM			
			65.25°F	Average
		17.5°C	66.5	18.25°C
		19	67.5	66.5°F
	10:15 AM	18.5		
Depth 80 cm		20°C	68°F	
-F 00 	11:17 AM			
		20°C	68°F	
	12:25 PM	20 0	001	
Turbidity – secchi	10:02 AM	22.2 cm	Student	Average 22.5
AND turbidity	10.027111	22.3	comment –	11101450 22.5
meter		23.0	relatively turbid	
meter.		23.0	Totally of y tarola	
	11:06 AM	20 cm	75.6 NTU	
	11:50	19.5 cm	99.5 NTU	
Chlorophyll	10:20 AM	0.9	33.51110	
emorophyn	10:56	0.7		
	12:07	0.7		
Chemical	12.07	0.7		
DO				
Drop count	11:30 am	20 C	9.6 PPM	105 % sat
	12:27 pm	20 C	4.6 PPM	50 % sat
рН	10:14 AM	7.9		Average 8.1
pH pen	rotation	8.2		11,010,80 0.1
PIIPON		8.1		
		8.1		
	11:14 AM	7		6.95
		6.9		
	12:23 PM	7		7.05
		7.1		
Salinity				
Titrator strips –&		Chloride	Total Salinity	
meter	Quantab	reading	conversion	Meter reading
10:14 AM	Quantab	188 mg/L		
	strip 4.4	chloride	339.63 ppm	200 ppm
11:14 AM	1.4	35 mg/L	63.29 ppm	200 ppm
12:25 PM				200 ppm
Fish Catch	Time	Number	Species	Length of
		Caught	1	largest
Seine 12 ft. X 6ft.	8:45 - 10AM	40	Blueback	60-65 mm;

M 1 0 25 : 1	/ T	1	1 .	
Mesh 0.25 inch	w/ Tom Lake		herring	yoy
		12	American Shad	85-90 mm; yoy
		4	Gizzard Shad	80-85 mm; yoy
		6	Striped Bass	70-75 mm;
	0.56.434	2	D1 1 1	yoy
	9:56 AM	2	Blueback herring	75 mm
		1	American shad	90 mm
	11:05 AM	1	Striped bass	14.3 cm
		3	Blueback herring	8.0 cm
	11:45 AM	1	Herring	
Tides	9:56 am	72.3 cm	110111115	
10000	10:26 am	85 cm	rising	
	10:50 am	100 cm	rising	
	12:15 PM	140 cm	rising	
Currents	CM/60 secs	Cm/Sec	North/South Ebb/Flood/Still	Knots
			Ebb* (recorded	
			ebb but expect	
			it should be	
10:00 AM	1040/60 sec	17.3 cm/sec	flood)	0.34 Knots
10:50 AM	802/60 sec	13.4 cm/sec	Flood	0.26Knots
12:05 PM	700/60 sec	11.6 cm/sec	Ebb* (recorded	0.23 Knots
			ebb but expect	
			it should be	
			flood)	
Core – 3 cores	Length	Rare	Common	Abundant
10:25 AM –	7.9 cms –	Pebbles.	Clay	
water depth 1.0 m			Sand	
	oxidized top		Gravel	
	2.4 cm		brick	
	bottom 5.5			
10:59 AM –	*13 cm - no	Mud		Clay
10:59 AM – water depth 1 ft.	layers	Leaves		Clay Sand
wиter аерін 1 Jt.	*one line	wood		Gravel
	says 13 cm	Wood		Pebbles
	and another			brick
	says 6 cm			
12:10 PM	11 cm – no	Clay	Gravel	pebbles
	layers – all	Mud		1
	rocks	brick		
Shipping	12:20 PM	Sailboat	White	southbound

	12:21	Speedboat	White/black	Northbound
Observations	Giant industrial tresses for Bowline power plant. Plastic and			
	glass along the shores and many bricks were along the beach			
	showing how there were old brick factories in the area.			
	Few birds flying over water – seagulls.			