

**Snapshot Day 10/18/11
(Salt Front RM 35.7)
RIVER MILE 84.5**

**Mills-Norrie Point Environmental Center, Staatsburgh, NY, Dutchess County
Jean McAvoy, Norrie Point Environmental Center
Bryan Woods, Poughkeepsie High School
Barbara Procario, Van Wyck Jr. High
20 AP Bio and 30 - 7th grade honors science
N412° 0248 W73° 924**



Location: Sampling done Norrie Cove and the SW corner of Norrie Point Env. Center Patio. 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. Shallow cove, facing south onto the HR, bordered by RR embankment, parking lot & the environmental center.

Surrounding Land Use: 95% Forested; 5% Beach

Sampling Site: Banks altered, Rip Rap
Shoreline: beach area, shore with bulkhead, shoreline rip rap, covered with vegetation (some duckweed on surface, water celery in the bay- mostly uprooted), banks altered for EEC building, riprap along RR tracks, collected wood and debris in shallow cove, piping entering river area

Plants in area: 0-5%

River Bottom – weedy, muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>	Time			
Air Temperature	10:03 AM	18°C 64.4°F		
	10:54AM	15°C 59 °F		
	12:19 PM	23.5°C 72.3 °F		
	1:07 PM	20°C	Cloud cover	

		68°F		
Wind Speed	10:03 AM Beaufort #2	10:54 AM- 12:19 PM Beaufort #1.5	1:07 PM Beaufort 1.25	
Cloud Cover	Mostly cloudy			
Weather today				
Weather recently				
Water calm	Water calm			
Water Temperature		13°C	12:17 PM	16°C
	10:15 AM	56°F		60.8°F
	10:55 AM	13 °C 56°F	12:50 PM	16°C 60.8°F
Turbidity Long Sight Tube	Time	cm		
Sight tube	1:00 PM	10 cm	8 cm	9 cm average
Chlorophyll	10:43 AM	0	12:19 AM	2
	11:35 AM	1	1:07 PM	2
Chemical				
DO (drop count)	10:15 AM	8 mg/L 10 mg/L	13°C	75-96%
	10:55 AM	8.5 mg/L 10 mg/L	13°C	80-94%
	12:17 PM	8 gm/L 8 mg/L	16°C	85%
	12:50 PM	9 mg/L 9 mg/L	16°C	93%
pH	10:15 AM	7.5	12:17 PM	7.5
	10:55 AM	7.5	12:50 PM	7.5
Salinity	Not recorded			

<i>Fish</i>	# of fish	size of largest	<i>Fish Species</i>	
<i>4 seines</i>	53		Spottail Shiner	
	18		Sunfish	
	1		Smallmouth Bass	
	4		bullhead	
	40		shiner	
	8		darter	
	1		killifish	
	14		White perch	
	68		Herring	
	2		American Eel	
<i>Tides</i>	<i>time</i>	<i>cm</i>	<i>Rising/Falling</i>	<i>cm</i>
	9:10 AM	120 cm		
	10:03 AM	103 cm	falling	
	10:54 AM	103 cm	Still	
	12:17 PM	105 cm	rising	
	1:07 PM	125 cm	rising	
<i>Currents</i>	10:03 AM	South	ebb	
	10:54 AM	South	ebb	
	12:19 PM	North	flood	
	1:07 PM	North	flood	
<i>Shipping</i>	10:29 AM	McAllister Tug and oil barge	North Bound	
	12:41 PM	Independence Tour Boat	Southbound Loaded with passengers	