

**Snapshot Day 10/2/07 Data
(Salt Front RM 78.2)**

RIVER MILE 14

Inwood Hill Park Nature Center, NYC

Latitude 40° 52.46'N/ Longitude 73° 55.264'W

New York City Park Rangers

Susan Vincent - Young Women's Leadership School – 12th grade – 22 students

Location: In the cove of Inwood Hill Park

Area: Forested

Surrounding Land Use: Forested 100% - although circleline: pipes that exit sewage, drainage, main pipes. Forested and used by people for picnics, jogging, sitting on park benches.

Sampling Site: large riprap on shoreline, drainage pipes in area

Plants in area: Phragmites australis, 50% cover in seine area

Water depth: 10-100 cm where seining

River Bottom – mostly mud with large rocks, some vegetation

Brackish tidal Marsh: 80% jewelweed, 5% mugwort, 0.5% saltwater cordgrass, 0.3% saltmeadow cordgrass

ALSO: Blackwillow, Birch, Crab Apple, Mulberry, Lemon plains wild onions

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:40 AM	18.3°C 65 °F	11:31 AM	24.9°C 71 °F
Wind Speed	2 knots	NW		
Cloud Cover	Cloud cover lifted			
Weather today	Temperature warmed during day			
Weather recently	Unseasonably warm and sunny			
<i>Water Temperature</i>	10:55AM	21.6 °C		
<i>Water surface:</i>	calm			
<i>Turbidity (Site tube)</i>	10:55 AM	18.2 cm		
	11:00 AM	24.1 cm		
	11:03 AM	28.4 cm		
	11:06 AM	23.6 cm		
<i>Chlorophyll</i>	10:49	1.0-2.0		
<i>Sediment Core description (11:11 AM) - Taken with PVC pipe as tube with ranger</i>	Clay & Sand abundant	Pebbles common		Gravel & Coal rare
	Water depth 37 cm	3-4 inches core length	No real layers	

<i>Chemical</i>				
DO (drop count kit)	12:36 PM	5.1 mg/L	Temp.21.6° C	60% saturated/chart 66.6 per meter
pH	10:35 AM	7.4 7.8 7.9	7.7 avg.	Indicator sol.
Phosphate				
Nitrate	11:18 AM	0.25-0.50		Test kit
Alkalinity				
Salinity	10:55 AM	15.8 ppt 15.7 ppt 15.7 ppt	15.7 ppt	YSI meter
			16 ppt	hydrometer
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>	<i>CPUE</i>	<i>Seine & Minnow traps</i>
Used seine 12 ft. Pull 18 ft. -	1	Atlantic mud crab		Seine net
Seined – 4 productive > 12 efforts	4	Atlantic Silverside		1 per seine
	2	Striped Bass		1 per seine
	3	Blue crab		1 per seine
Minnow trap	4	mummichogs		
Dip net	3	mummichogs		
<i>Tides</i>	12:00 noon	40cm	Rising	
2:25 PM High Tide per charts	12:28 PM	42 cm	Rising	
	12:43 PM	48cm	Rising	
	12:58 PM	53 cm	Rising	
	1:13 PM	58 cm	Rising	
	1:28 PM	61 cm	Rising	
	1:43 PM	63 cm	Rising	
<i>Currents</i>	450 cm/60 secs	7.5cm/sec	South (noted as flood?)	0.15 knots
<i>Traffic</i>	12:21 PM	Tuboa-Atlantic towing & salvage	Idle	light
<i>Other observations</i>	Lots of ducks & rocks			