

**Snapshot Day 10/2/07 Data
(Salt Front RM 78.2)
RIVER MILE 18.5W**

Alpine Boat Basin

**Tamara Browning - Tenafly Middle School 16 students 7-8th grade
Latitude 40°57'N, Longitude 73°55 'W**

Location: North end of the Alpine Boat Basin, adjacent to a sandy beach area

Area: Used for picnics, boats, seining and education programs

Surrounding Land Use: Forested 50% (at the foot of the Palisades, Man made Sandy Beach 5%, Recreationally developed boat mooring & picnic table 45%

Sampling Site: sandy beach, no water vegetation, sandy area, bulkhead and riprap on shoreline, no pipe outlets into river but a waterfall and a stream from the top of the Palisades entered the river at the southern end of the site.

Plants in area: no plants in the water

Water depth:

River Bottom – sandy/rocky bottom with no natural vegetation growing in or near the water

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	12:25 PM	21°C		
Wind Speed	1-3 mph	Southeast	No wind to very light breeze	
Cloud Cover	Partly cloudy			
Weather today	Partly cloudy, partly sunny and dry all day			
Weather recently	Clear and warm			
<i>Water Temperature</i>	1:30 PM	22°C		
<i>Turbidity</i>	1:30 PM	60 JTU		Site tube
<i>Chlorophyll</i>	11:20 AM	0.7		
<i>Chemical</i>				
DO	1:30 PM	4.0 mg/L	22°C	45%
pH	1:30 PM	7.0	tablet test kit	
Phosphate	2:00 PM	1ppm		
Nitrate	2:00 PM	0 mg/L		
Alkalinity				
Salinity	1:30 PM	14-16 ppt		Aquarium Hydrometer – uncertain of

				accuracy
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>	<i>Size</i>	<i>Seine</i>
Seined 5 runs during a rising tide – 2 were successful	11	Striped bass	Largest 12 cm	<i>Seined for 1.5 hrs. 1:30 -3:00 PM</i>
	24	Atlantic silversides	Largest 10 cm	
	6	Juvenile blue crab	3 cm @ carapace	
	8	Adult blue crab	6 male 2 female	Larges 14 cm @ carapace
<i>Tides</i>	8:00: AM – 2:20 PM		Rising	
	After 2:20 PM		Falling	5.7m/minute
<i>Currents</i>	10:55 AM	Flood		
<i>Traffic</i>	10:45 AM	“The Patriot” Black Barge w/ tug - stationary @ site		Pointing north – not moving for whole visit
	10:45 AM	3 other barges		Pointing north – not moving for whole visit
	Noon	“Energie 8701” black barge with yellow trim -		Turned from Northbound to southbound by its tug
	12:10 PM	3 barges: DBL 103 KSea RTC80		Southbound
<i>Other Items</i>				
	Throughout the day we noticed several Monarch butterflies. There were also Canada geese in the river and chipmunks scurrying on the bank by the picnic facilities. There were several fishermen using the boat marina area to fish from. One was setting out crab traps.			