

**Snapshot Day 10/12/06 Data  
(Salt Front RM 52.5)  
RIVER MILE 18.5W**

**Alpine Boat Basin**

**Tamara Browning - Tenafly Middle School 23 students 6-8<sup>th</sup> 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>
<b><i>Physical</i></b>				
Air Temperature	12:15 PM	22°C °F		
Wind Speed	1-3 mph	South	Light breeze	
Cloud Cover	overcast			
Weather today	100% overcast and misty in AM, clearing to sunny in the afternoon			
Weather recently	Heavy rain most of yesterday and last night			
<b><i>Water Temperature</i></b>	12:30	18°C		
<b><i>Turbidity</i></b>	1:30 PM	60 JTU		Site tube
<b><i>Chlorophyll</i></b>	12:55 PM	0.5		
<b><i>Chemical</i></b>				
DO	2:00 PM	4.0 mg/L	18°C	40%
pH	1:30 PM	8.0	tablet test kit	
Phosphate	2:00 PM	1ppm		
Nitrate	2:00 PM	0 mg/L		
Alkalinity				
Salinity	1:40 PM	10-14 ppt		Aquarium Hydrometer – uncertain of

				accuracy
<b><i>Fish Catch</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>	<b><i>CPUE</i></b>	<b><i>Seine</i></b>
	<i>1</i>	<i>shrimp</i>		<i>Seined for 1.5 hrs. 10:30-noon</i>
	<i>several</i>	<i>Jellyfish</i>		
<b><i>Tides</i></b>	7:30 AM – 2:00 PM		Rising	
	After 2:00 PM		Falling	
<b><i>Currents</i></b>	12:30 PM	Slight ebb		
<b><i>Traffic</i></b>	10:45 AM	Black Barge w/white stripe on hull pulled by tug	loaded	Southward
	11:00 AM	Buchanan barge		Southbound
	11:00 AM	Black barge with red funnel	light	Northbound
	11:20 AM	Black Barge with white cabin		Southbound
<b><i>Other Items</i></b>				
	Throughout the day we noticed Monarch butterflies crossing the river on their migration South to Mexico. Saw an osprey with a fish in its mouth, several gulls, raven and a red-tailed hawk.			