

Snapshot Day 10/14/10 Data
(Salt Front RM 36)
RIVER MILE 18.5W
Alpine Boat Basin
Christina Fehre, Alpine Park, Palisades Interstate Park
Lisa, Wolfelsperger, & Rivka Rosenstein, Alpine Elementary School
Alpine NJ – 6th grade – 14 students
N 40.57.22– W -73.53,55



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 80% (at the foot of the Palisades, Man made Sandy Beach 20%, Recreationally developed boat mooring & picnic table, parking lot

Sampling Site: sandy beach, banks altered, rip rap, bulkhead

Plants in area: water chestnut 2%, water celery 2%

Water depth:

River Bottom – sandy, muddy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	11:00 AM	21°C	12:00 noon	22°C
Wind Speed	Beaufort #4			S

Cloud Cover	Partly cloudy			
Weather today				
Weather recently	Rain prior to today			
<i>Water</i>	calm			
<i>Water Temperature</i>	11:30 AM	16.5°C	12:05 PM	18°C
<i>Turbidity</i>	11:00 AM	50 cm		Secchi Disk
<i>Chlorophyll</i>	11:28 AM	0.5		
<i>Chemical</i>				
DO -	12:05 PM	9 mg/L	18°C	95%
	12:05 PM	4 mg/L	18°C	42%
pH	11:15 AM	6		6 average
Nitrate				
Salinity - hydrometer	11:00 AM	17 ppt 13 ppt		15 ppt average
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>	<i>Size</i>	<i>Seine</i>
7 seines	2	Bluefish	6 in	
	2	Winter Flounder	2.5in	
	1	*American Smelt	3 inch	*while not impossible this would be an unusual catch – perhaps an Atlantic Silverside
	1	* Krill		* Expect this was a shrimp – not krill
	11	Crabs		
<i>Tides</i>	9:25 AM	8 cm		
	10:20 AM	12 cm	Rising	
	11:34 AM	20 cm	Rising	
	12:30 PM	30 cm	Rising	
<i>Currents-</i>	11:00 AM	83.3 cm/sec	South	Boats in the boatyard might impact current
<i>Sediment Core</i>	TOTAL Length	Common	Rare	Description
<i>11:30 AM</i>	2 inches –	Mud	Gravel	

<i>11:30 AM</i>	2 inches – 1 inch top 1 inch bottom	Mud sand	Gravel Pebbles	
<i>Shipping</i>	11:00 AM	Black	Northbound	empty
<i>Observations</i>	Birds flying & in water	People fishing		