

Day in the Life of the Hudson River 10/20/16 Data
(Salt Front ~RM 83)
RIVER MILE 19
Alpine Boat Basin
Christina Fehre, Alpine Park, Palisades Interstate Park
Brian Mohan, Clearwater
Lisa, Wolfesperger, Alpine Elementary School
Alpine NJ – 6th grade – 12 students, (5 adults total)
N 40.9458° – W -73.9183°

Location: North end of the Alpine Boat Basin, adjacent to a sandy beach area
Area: Pier, Forested, parking lot, used for picnics, boats, fishing and education programs
Surrounding Land Use: 75% Forested (at the foot of the Palisades, 10% Man made Sandy Beach; 15%, recreationally developed pier and park area
Sampling Site: sandy beach, banks altered, rip rap, bulkhead, pier, concrete
Plants in area: none in water
River Bottom – shallow depth - sandy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	9:43 AM	69.8 °F 21°C	10:43 AM	71.6 °F 22°C
Wind Speed	Beaufort 33	7-10 kts	8-12 mph	East
Cloud Cover	Mostly Cloudy			
Weather today	No rain			
Weather recently	Very warm			
Water	calm			
Water Temperature 11:20 AM	27°C* 80.6 °F* Reported	HRECOS notes it was closer to 59°F or 15°C		
Turbidity – short site tube	10:17 AM	50 cm 45 cm 60 cm	Average 51.7 cm	
Chemical	Not read onsite	HRECOS		
DO - Drop count kits	See HRECOS below	8.2 ppm		
pH – test strips	See below	~7.4		
Salinity -hydrometer	10:30 AM	16 ppt 17 ppt	Average 16.5 ppt	
Fish Catch - 8X4 ft. seine net	Number Caught	Species	Size	Seine
9:30-noon	1	Alewife Herring	~15 cm	

	10	*Atlantic Siverside	~9 cm	*reported as shiner but determined as Atlantic Siversides
TOTAL FISH CATCH	Abundance 11	Diversity 2		
	7 blue crab	1 male 6 female (1 female was a softshell)		
TOTAL MACRO CATCH	Abundance 7	Diversity 1		
<i>Tides</i>	NR			
<i>Currents-</i>	Time	Cm/Sec	Kts	
<i>A pier juts out and we are not in the main stem of the Hudson River</i>	9:54 AM	333	6.48	N/Flood
	9:57 AM	362.5	7.05	N/Flood
	10:00 AM	450	8.75	N/Flood
	10:02 AM	337.5	6.57	N/Flood
<i>Sediment Core:</i>	Length in cm	Rare	Common	Abundant
	~ 7.5 cm	-Mud -Pebbles -Living vegetation	- Gravel	- Sand
<i>Shipping - commercial</i>	9:36 AM 9:46 AM	Riverkeeper K-Sea - brown	North South	Light Loaded
<i>Other Items</i>	40 devil heads from water chestnut washed onto beach	~ 15 mallards		