

**Snapshot Day 10/2/07 Data
(Salt Front RM 78.2)
RIVER MILE 7
79th Street Boat Basin**

**Norman & Joyce Baron, The School in the Forest @ Black Rock Forest
Judy Gutierrez & Diana Santos, PS/IS 311 4th grade – 44 students**

Location: 79th street boat basin.

Area: On docks

Surrounding Land Use: Urban/residential 85%; Commercial (restaurant) 5% ;

Sampling Site: There are rock and timber bulkheads forming the shoreline. The Marina is made of some stationary and some floating docks.

Plants in area:

The shoreline is planted with trees, shrubs and flowers.

Water depth: 5-8 ft. at sampling site – deeper at end of pier

River Bottom –unable to determine

Plants in water - none

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:00 AM	70° F	1:00 PM	74° F
Wind Speed	10:00 AM	1-3 mph	1:00 PM	4=6 mph
Cloud Cover	Partly cloudy	Warmer & a bit breezier during the day		
Weather yesterday	Clear & dry			
<i>Water Temperature</i>	11:12 Am	18.3° C 65 ° F		
	12:12 PM	18.3° C 65 ° F		
	12:40 PM	18.3° C 65 ° F		
	1:01 PM	18.3° C 65 ° F		
	1:20 PM	18.3° C 65 ° F		
<i>Turbidity</i>	10:30 AM- 1:00 PM	2.5 ft.	X 4 tests	secchi
<i>Chlorophyll</i>	10:45 Am – 1:00 PM	3 tests	.3 and .5	
<i>Chemical</i>				
DO (drop count kit)	10:45 AM	5 mg/L	Temp 18.3° C	60% saturated
	11:12 AM	6 mg/L	Temp 18.3° C	65% saturated

	12:12 PM	6 mg/L	Temp 18.3° C	65% saturated
	12:40 PM	6 mg/L	Temp 18.3° C	65% saturated
	1:01 PM	6 mg/L	Temp 18.3° C	65% saturated
	1:20 PM	6 mg/L	Temp 18.3° C	65% saturated
pH	Time	Digital Probe	Colorimeter	
	10:32 AM	7.7	7.3	
	11:09 AM	7.4	7.7	
	12:05 PM	7.5	7.5	
	12:30 PM	7.4	7.5	
	1:10 PM	7.4	7.5	
	1:23 PM	7.3	7.3	
Phosphate	n/a			
Nitrate	n/a			
Alkalinity	n/a			
Salinity	Time	Method	Reading	
	10:45	High range test strip	9.0	This test seems to not be working in this high a level of salinity – use data from hydrometer instead
	11:11	High range test strip	8.8	
	12:05	High range test strip	9.3	
	12:35	High range test strip	8.8	
	1:05	High range test strip	9.1	
	1:27	High range test strip	9.1	
	10:45	Hydrometer	1.15 spec. gravity	20.1 ppt
	12:45	Hydrometer	1.15 spec. gravity	20.1 ppt
	1:00	Hydrometer	1.14 spec. gravity	18.8 ppt
Fish Catch	Number Caught	Species		Minnow traps
Crab pot	1	Small clear jelly fish		
Tides	8:00	0		
	10:30 AM	30 inches (76.2 cm)		rising
	11:00 AM	36 inches (91.44 cm)		rising
	11:50 AM	42 inches (106.68 cm)		rising

	12:50 PM	46 inches (116.84 cm)		rising
	1:20 PM	47 inches (119.38 cm)		rising
	A yardstick was nailed to a piling at 8:00 AM with the bottom of the stick at water surface level. Students observed how the water moved up the yardstick until the top of the yardstick was 11 inches underwater at 1:20 PM.			
<i>Currents</i>	11:15 Am	254 cms/minute	Northward	Current was measured by dropping popsicle sticks into the River at the end of the pier.
	1:20 PM	763 cm/minute	Wind had picked up and was from the south – may have effected rate of movement north	
<i>Traffic</i>				