

**Day in the Life of the Hudson River 10/16/18 Data  
ENGLEWOOD BOAT BASIN, ENGLEWOOD NJ**

**RIVER MILE: 14**

*Salt Front: ~RM 24*

**Pascack Hills High School- Natalie Macke**

**9 students, AP Environmental Class 12th grade, 1 adult**

**Latitude 40.882220 N & Longitude – 73.944440 W**



1. Sketch your sampling site. Be sure to include a compass rose showing N/S/E/W and locate the River on your sketch, and note your sampling site.

**Location:** Bloomers Beach (North end), Englewood Boat Basin, NJ

**Area:** Pier, grassy, forested, parking lot

Piping ~30 feet located at sampling site. 2 concrete bulkheads and stone breakwaters on shoreline

**Surrounding Land Use:** 80% Forested; 10% Beach; 10% Industrial/Commercial

**Sampling Site:** Sandy beach, banks altered, pier with riprap sections, wood bulkhead, covered in vegetation

**Shoreline:** 65% sandy; 5% muddy; 20% rocky

**River Bottom:** Muddy, sandy

**Plants in area:** no plants in the water area

**Water:** calm

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature:</i>	11:04 AM	12.2 °C	53.96 °F	
<i>Weather Today:</i>	11:07AM partly cloudy (26-50%)			
<i>Weather Previous:</i>				
<i>Water Temperature</i>	11:07 AM	17.6 °C	63.68 °F	Surface, water collection in direct sun
<i>Turbidity-</i>	11:04 AM	185 NTU 100 NTU 100 NTU		yellowish gray, murky
	Avg:	128 NTU (~10 cm)		
<i>Chemical</i>				
<i>Salinity- refractometer</i>	11:00 AM	4 ppt TS		
<i>Dissolved Oxygen – 1st reading- PASCO 2nd reading- titration</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	11:07 AM	17.6 °C	7.13 ppm	73%
	11:16 AM	17.6 °C	7.9 ppm	80%

<i>pH -</i>		10:49 AM	7			
		10:59 AM	7			
		11:09 AM	7			
		11:19 AM	7			
<i>Currents Flow</i>		<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
			6.7	0.13	North	Flood
			8.7	0.17	North	Flood
<i>Sediment Core</i>		<i>Water depth</i>	<i>Length</i>	<i>Oxid Top</i>	<i>Grain Size</i>	<i>Other</i>
			14 cm	No	Abundant: Sand Common: Gravel Rare: Pebbles	
<i>Boats</i>	<i>Time</i>	<i>Name</i>	<i>Color</i>		<i>North/South</i>	<i>Loaded/Light</i>
Commercial	11:02 AM		White		South	Light
Commercial	10:48 AM		White		South	Light
<i>Other Observations</i>		lots of coal lumps, a few shell pieces, a litte brick pieces.				