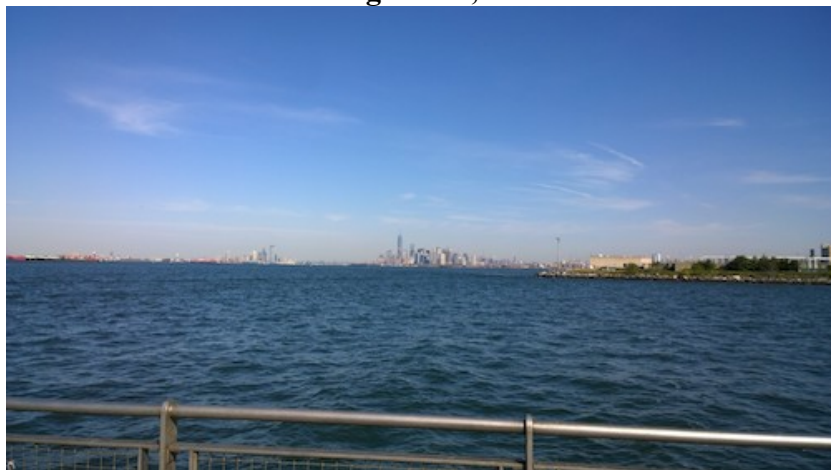


Day in the Life of the Hudson River 10/12/17 Data
(Saltfront ~ RM 65)
RIVER MILE -5
Bayridge American Veterans' Memorial Pier
40. 6397°N, W-74 .0387° W
Alicia Smith & International School of Brooklyn
27 Fifth graders, 4 adults



View from the pier. Owl Sewage treatment plant visible in the foreground.

Location: Pier American Veterans' Memorial Pier, by highway, Park, 2 water treatment plants

Area: Pier – bulkhead – mainly concrete & wood. Two parks – Owl's head and Shore Road Park. Water treatment plant <0.5 miles to the NE, ferry dock present, highway present, park nearby

Surrounding Land Use: 85% urban/residential, 5% Industrial Commercial, 5% park, 5% highway

Sampling Site: Saltwater bay, cannot see the bottom. Recreational pier with bulkhead–rocks near the edge, banks altered /riprap, all hard edged, steep wall dividing water from land, pipe entering water from treatment plant

Shoreline: Rocky at shoreline

Depth: ~ 9-10 ft.

Plants in area: No plants in water but 25 % of rocks on shoreline are covered,

Bottom: could not see to tell

***Note:** One person caught a 24 inch shark but released it back into the water (Expect dogfish)*

<i>ITEM</i>	<i>Time</i>	<i>Readings</i>		
<i>Physical</i>				
Air Temperature	11:26 AM 11:43 AM 12:10 PM	18°C 18 °C 18.5		
Wind Speed	11:43 AM	Beaufort 3	10 kts	SW

Cloud Cover	11:43 AM	Mostly cloudy	51-75%	
Weather today	No rain during this session		Water surface	Choppy due to wind
Weather recently	Unusually warm temperatures, rained steadily on Mon & Wed night before sampling day			
Water Temperatures & averages	11:29 AM 11:59 AM 12:18 PM	21°C 21°C 21°C		
Turbidity	11:25 AM 11:45 AM 12:01 PM 12:21 PM	100 cm 87 cm 100 cm 94 cm		Avg. 95.25 cm
Chemical	Time	ppm	Temp	% Sat
DO Drop count kit	11:40 AM	6.8	21°C	75%
pH color match kit	3:40 PM	7		
Salinity - hydrometer	11:29 AM	29.5 ppt		
Nitrates	3:40 P M	<5 ppm		
Fish Catch	Time	Species	# caught	Size
*Tides - water depth	Time	*Distance to water	*Rate of change	*Flood or Ebb
Measuring down from pier using a secchi disk	11:40 AM 11:57 AM 12:15 PM	200 cm 250 cm -fall 150 cm - rise	N/A -50 cm +100 cm	
Currents Time	Cm/30 sec	Cm/sec	Kts	Ebb/Flood N/S
11:26 AM	919.5	30.65	0.596 kts	flood
11:45 AM	944.8	31.5	0.613 kts	flood
12:00 PM	685.8	22.86	0.445 kts	flood
12:18 PM	1005.8	33.5	0.652	flood
Shipping Traffic-Commercial	11:30 AM	Ferry	White	North & southbound
	11:40 AM	Ferry	White	North & southbound
	12:15 PM	Ferry	White	North & southbound