

**Day in the Life of the Hudson River 10/16/14 Data
(Salt Front RM 65.9)**

Brighton Beach, Brooklyn NY

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100 students, 9th graders, and 7 Adult Helpers

Latitude: 40.6°N, Longitude: 74.0°W



The surf was pounding the beach creating challenging seining conditions

Location: Brighton Beach, Brooklyn

Area: Beach mainly

Surrounding Land Use: 55% residential; 35% beach/recreational; 10% commercial

Sampling Site: Beach – large rocks make up the breakwater (see image above), smaller pebbles in sand



Netted juvenile ‘permit’ fish. A western Atlantic fish their genus name (trachinotus) means ‘rough back’ for its scythe like dorsal fin that on an adult can protrude from the water when they feed near the surface.

<i>ITEM</i>	<i>Sampling time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
	9:30-2:00 PM			
<i>Physical</i>				
Air Temperature		64° F 17.8° C		
Wind Speed		8m/sec		
Cloud Cover	100% Cloudy most of day			
Weather today	Rainy & windy	Gloomy, cold – sun at very end of time		
<i>Water Condition</i>	Choppy and pounding			

Water Temperature		64° F 18.3°C		
Turbidity				
Chemical				
DO (drop count)				
pH meter				
Salinity	Hydrometer	1.025 density	33.2 ppt TS	
Fish Catch	Total: 1	Fish: 1 Permit fish		Div- 1 Total - 1
Tides	LT ~9AM	Rising for full sampling period		
Currents	Trials during sampling	2.5 m/30 sec 7m/30 sec 3.5 m/30 sec	0.83 m/sec 0.23 m/sec 0.12 m/sec	Flooding
Core –	% water	Color	Size	Content
<i>Water/beach Junction</i>	High	Dark brown	Coarse	Sand
<i>Beach/sand junction</i>	Med	Light brown	Coarse	Sand
<i>Beach</i>	Med	Light brown	Med	Shells
Overall comments	Lighter at the top and darker as you go down core. Middle of the core stuck together more than top or bottom. Further down had more moisture. Differences in consistency closer to the shore and farther. Mostly sand, few pebbles, broken shell pieces.			
Biotic Organisms Seen	Identification	Total #	Comment	
Ring-billed gull	Yellow bill, black ring	50		
Common Moorhen?		1	Listed with question mark on sheet – moorhen would be more expected in freshwater marsh environments – Perhaps an American coot?	
Rock Dove		1		
Blue crab		1		
Dogs		10		
Unidentified insect		1		
Unidentified plant	Pea looking plant growing in the sand	50	Perhaps beach pea or seaside pea - Lathyrus japonicas – native to temperate N. American	

			coastal areas – grows in sand
Unidentified Tree	Thin and long leaves, small trunk	5	
<i>Abiotic things</i>	Seashells, sand, precipitation, salt		
<i>Sea Level Rise</i>	<i>Group 1 – distance 0</i>	<i>Group 2 – distance 5m</i>	
Estimate ↑28 cm	2 meters	3 meters	
Estimate ↑51 cm	4 meters	6.05 meters	
Estimate ↑98 cm	10 meters		