Day in the Life of the Hudson River 10/16/14 Data (Salt Front RM 65.9) Brighton Beach, Brooklyn NY Olivia Tandon, Poly Prep Country Day School 100 students, 9<sup>th</sup> 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.

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

Water		64° F		
Temperature		18.3°C		
-		10.5 C		
Turbidity Chemical				
DO (drop count)				
pH meter		1.005.1		
Salinity	Hydrometer	1.025 density	33.2 ppt TS	D' 1
Fish Catch	Total:	Fish:		Div-1
Tides	LT~9AM	1 Pemit fish		Total - 1
Tues	LI~9AM	Rising for full		
		sampling period		
Currents	Triala durina	2.5  m/30  sec	0.83 m/sec	Flooding
Currents	Trials during	2.3  m/30  sec 7 m/30  sec	0.83  m/sec 0.23  m/sec	Flooding
	sampling			
Cana	0/	3.5 m/30 sec	0.12 m/sec	Content
Core –	% water	Color Dark brown	Size	
Water/beach	High	Dark brown	Coarse	Sand
Junction	Med	Light hagyya	Caseraa	Cand
Beach/sand	Med	Light brown	Coarse	Sand
in the other officers				
junction	Mad	Light hagering	Mad	
Beach	Med Lighter at the t	Light brown	Med	Shells
Beach Overall	Lighter at the to	op and darker as	you go down	core. Middle
Beach	Lighter at the te of the core stuc	op and darker as k together more	you go down than top or bo	core. Middle ttom. Further
Beach Overall	Lighter at the to of the core stuc down had more	op and darker as k together more moisture. Differ	you go down than top or bo rences in cons	core. Middle ttom. Further istency closer
Beach Overall	Lighter at the to of the core stuc down had more to the shore and	op and darker as k together more	you go down than top or bo rences in cons	core. Middle ttom. Further istency closer
Beach Overall comments	Lighter at the to of the core stuc down had more to the shore and shell pieces.	op and darker as k together more moisture. Differ l farther. Mostly	you go down than top or bo rences in cons sand, few peb	core. Middle ttom. Further istency closer
Beach Overall comments Biotic Organisms	Lighter at the to of the core stuc down had more to the shore and	op and darker as k together more moisture. Differ	you go down than top or bo rences in cons	core. Middle ttom. Further istency closer
Beach Overall comments Biotic Organisms Seen	Lighter at the to of the core stuc down had more to the shore and shell pieces. Identification	op and darker as k together more moisture. Differ farther. Mostly <b>Total</b> #	you go down than top or bo rences in cons sand, few peb	core. Middle ttom. Further istency closer
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Beach Overall comments Biotic Organisms Seen Ring-billed gull Common Moorhen?	Lighter at the to of the core stuc down had more to the shore and shell pieces. Identification Yellow bill,	op and darker as k together more moisture. Differ farther. Mostly Total # 50 1	you go down than top or bo rences in cons sand, few peb Comment Listed with o on sheet – m be more exp freshwater m environment	question mark loorhen would ected in harsh us – Perhaps
Beach Overall comments Biotic Organisms Seen Ring-billed gull Common Moorhen? Rock Dove	Lighter at the to of the core stuc down had more to the shore and shell pieces. Identification Yellow bill,	pp and darker as k together more moisture. Differ farther. Mostly <b>Total #</b> 50 1	you go down than top or bo rences in cons sand, few peb Comment Listed with o on sheet – m be more exp freshwater m environment	question mark loorhen would ected in harsh us – Perhaps
Beach Overall comments Biotic Organisms Seen Ring-billed gull Common Moorhen? Rock Dove Blue crab	Lighter at the to of the core stuc down had more to the shore and shell pieces. Identification Yellow bill,	pp and darker as k together more moisture. Differ farther. Mostly <b>Total #</b> 50 1 1	you go down than top or bo rences in cons sand, few peb Comment Listed with o on sheet – m be more exp freshwater m environment	question mark loorhen would ected in harsh us – Perhaps
Beach   Overall   comments   Biotic Organisms   Seen   Ring-billed gull   Common   Moorhen?   Rock Dove   Blue crab   Dogs   Unidentified	Lighter at the to of the core stuc down had more to the shore and shell pieces. Identification Yellow bill,	pp and darker as k together more moisture. Differ farther. Mostly <b>Total #</b> 50 1 1 1 1 10	you go down than top or bo rences in cons sand, few peb Comment Listed with o on sheet – m be more exp freshwater m environment	question mark loorhen would ected in harsh us – Perhaps
Beach Overall comments Biotic Organisms Seen Ring-billed gull Common Moorhen? Rock Dove Blue crab Dogs	Lighter at the to of the core stuc down had more to the shore and shell pieces. Identification Yellow bill, black ring	pp and darker as k together more moisture. Differ farther. Mostly <b>Total #</b> 50 1 1 1 1 10	you go down than top or bo rences in cons sand, few peb Comment Listed with of on sheet – m be more exp freshwater m environment an American	question mark loorhen would ected in harsh coot?
Beach   Overall   comments   Biotic Organisms   Seen   Ring-billed gull   Common   Moorhen?   Rock Dove   Blue crab   Dogs   Unidentified   insect   Unidentified	Lighter at the to of the core stuce down had more to the shore and shell pieces. Identification Yellow bill, black ring Pea looking	pp and darker as k together more moisture. Differ farther. Mostly <b>Total #</b> 50 1 1 1 1 10 1	you go down than top or bo rences in cons sand, few peb Comment Listed with of on sheet – m be more exp freshwater n environment an American	core. Middle ttom. Further istency closer obles, broken question mark coorhen would ected in harsh is – Perhaps in coot?
Beach   Overall   comments   Biotic Organisms   Seen   Ring-billed gull   Common   Moorhen?   Rock Dove   Blue crab   Dogs   Unidentified   insect	Lighter at the to of the core stuc down had more to the shore and shell pieces. Identification Yellow bill, black ring	pp and darker as k together more moisture. Differ farther. Mostly <b>Total #</b> 50 1 1 1 1 10 1	you go down than top or bo rences in cons sand, few peb Comment Listed with of on sheet – m be more exp freshwater m environment an American	core. Middle ttom. Further istency closer obles, broken question mark coorhen would ected in narsh is – Perhaps i coot?

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