

**Day in the Life of the Hudson River 10/10/13 Data
(Salt Front RM 69.3)
RIVER MILE -10**

**South Beach Wolf Park, Staten Island
N 40°44.375' W-74°0.1820'**

Steve Stanne, HREP, NYSDEC

Mary Lee, St. Clare's School, 70 Seventh graders and 15 adults



Location: South Beach of Wolf Park, Staten Island

Area: Beachfront – see student sketches (attached)

Surrounding Land Use: 90% beach, 10% Boardwalk/Park

Sampling Site: Beach area with bulkhead, concrete broken in area

River Bottom: Sandy

Plants in area: No plants

<i>ITEM</i>	<i>Time</i>	<i>Readings</i>		
<i>Physical</i>				
Air Temperature	10:00 AM 10:52 AM	18.3°C 15°C	65°F 59.3°F	
Wind Speed	Beaufort #4	3.6 mph	East	
Cloud Cover	12:15 PM 12:46 PM 1:03 PM 1:33 PM	100% 100% 100% 100%		
Weather today	Cold & damp, overcast	Became colder as day progressed	<i>Water surface</i>	Very choppy – high waves
Weather recently	Windy, cool, some rain			
<i>Water Temperature</i>	10:03 AM 10:08 AM 10:13 AM	20°C 19°C 18°C	68°F 64°F 60°F	Weather grew colder during day

Turbidity Turbidity tube	10:45 AM	20.0 cm 27.1 22.5	23 cm avg	
Chemical	Time	ppm	Temp	% Sat
DO	10:10 AM	8 ppm	15° C	80%
Estuary wide monitoring Kit –	10:19 AM	7	15°C	70%
	10:36 AM	7	15°C	70%
	10:58 AM	8	16°C	80%
	11:13 AM	10	17°C	100%
	11:30 AM	8	17°C	90%
pH Litmus Paper	10:00 AM	6	6 average	
	10:25 AM	6		
	10:45 AM	6.5		
	11:03 AM	5.5		
	11:19 AM	6.5		
	11:35 AM	6		
Salinity - hydrometer	10:07 AM	32 ppt	29 ppt	Specific gravity 1.028
	10:27 AM	30 ppt		
	10:46 AM	28 ppt		
	11:05 AM	27.75 ppt		
	11:21 AM	29 ppt		
	11:40 AM	28 ppt		
Fish Catch – seine 50ft. net – 20-30 ft. pull	Time	Species	Number	
	10:00- 11:30 AM	Hermit Crab Mole Crab Mussels Spider Crab Comb Jellies	1 16 15 3 8	No fish but macro- invertebrates also netted 1 blue crab claw
Tides (from pier to water)	Time	Distance to water	Rate of change	Flood or Ebb
	10:02 AM	50 cm	Start point	Baseline
	10:15 AM	60 cm	6.6cm/min	Flooding
	10:30 AM	70 cm	6.6cm/min	Flooding
	10:45 AM	80 cm	6.6cm/min	Flooding
	11:00 AM	90 cm	6.6cm/min	Flooding
	11:15 AM *stick float away	90cm	0 cm/min	Unchanged
Currents - Time	Cm/30sec	Cm/sec	Knots	N/S Ebb/Flood
10:05 AM	258	8.6	0.2	N - F
10:24 AM	540	18	0.4	N- F
10:46 AM	600	20	0.4	N-F
11:03 AM	0	0	0	0

11:16 AM	62	2.1	0.04	N-F
11:30 AM	0	0	0	0
<i>Core Sample</i>	<i>Length</i>	<i>Abundant</i>	<i>Common</i>	
		Sandy	Gravel pebbles	
<i>Shipping – Time</i>	<i>Type</i>	<i>Name</i>	<i>Color</i>	<i>Direction/ light or loaded</i>
10:02 AM	Cargo	Zim	R/W/B	N loaded
10:24 AM	Cruise	Seastruck	B/W	S loaded
10:30 AM	Cargo			S
10:33 AM	Speedboat			S
10:38 AM	Cruiseship	AIDA		N loaded
10:38 AM	Cargo		R/B	N loaded
11:20 AM	Tanker		R	N loaded
11:32 AM	Sailboat		W	W
11:34 AM	Cargo	Harbor Fashion	R/B	N loaded