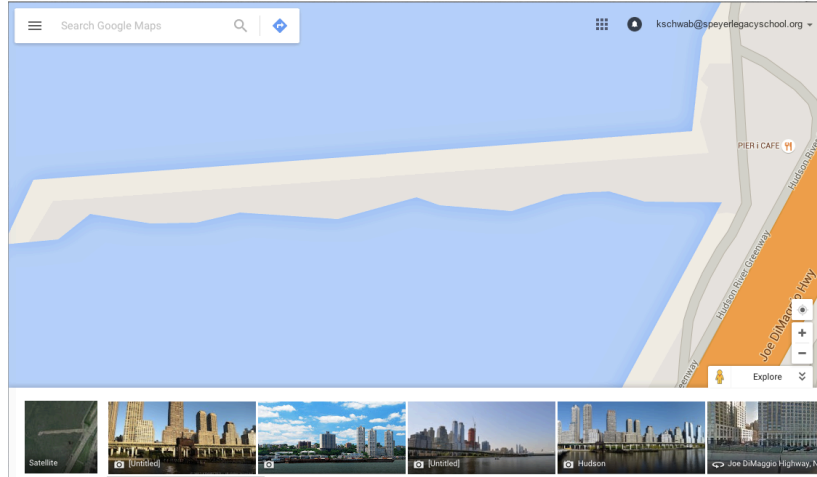


Day in the Life of the Hudson River 10/20/15 Data
RIVER MILE 5
Pier i - 59th Street/Riverside Park
Kimberly Schwab, Speyer Legacy School – 10 adults total
42 students - 7th & 8th graders
N 40.799 W-73.99



Sampling took place on the western tip of the pier

Location: Pier i, New York NY

Area: Restored former railroad pier

Surrounding Land Use: Urban/residential 100%

Sampling Site: Except for seining and taking core samples, all sampling took place on pier i.

Shoreline: tiny beach area, shore with bulkhead, riprap, covered with vegetation, Old RR pilings

Plants in area: no submerged aquatic plants in the water but lots of plants on shore

Water depth: ~6 meters

River Bottom – sandy

Plants in water: No plants in the water

<i>ITEM</i>	<i>Time</i>	<i>Readings</i>		
<i>Physical</i>				
Air Temp.å	NR			
Wind Speed	10:08 AM	Beaufort 1		
	10:35 AM	Beaufort 2		
	11:00 AM	Beaufort 1		
	11:30 AM	Beaufort 3		
	12:00 PM	Beaufort 2		
	12:30 PM	Beaufort 3		
	1:00 PM	Beaufort 4		
	1:30 PM	Beaufort 4		
	2:00 PM	Beaufort 3		
	2:30 PM	Beaufort 3		

Cloud Cover	Clear <25%					
Weather today	No rain, temp rose and Wind increased during the day	<i>Water surface</i>		Choppy		
Weather recently	Cool and clear with highs in the 50s					
<i>Water Temperature</i>						
<i>Turbidity site tube</i>	Time	Surface Sample cm	Depth Sample cm			
	10:00 AM	56.5	NR			
	10:30 AM	52	38			
	11:00 AM	NR	27			
	11:30 AM	NR	32			
	12:00 PM	40	NR			
	12:30 PM	31	22			
	1:00 PM	43	44			
	1:30 PM	38	32			
	2:00 PM	37	23			
<i>Chemical</i>	Time	mg/l	Temp	% Sat		
<i>*Water sampled at surface and at depth with niskin bottle reported in two separate sets of readings below. Depth for bottom samples ranged from surface to depth</i>						
	TIME	SURFACE mg/L	BOTTOM mg/L (~14 ft.)	DEGREES C	% Saturation Surf - Bot	
DO - Hach –	10:00 AM	8	8	15	78%	78%
	10:30 AM	8	6	16	80%	60%
	11:00 AM	8	8	15	78%	78%
	11:30 AM	6	8	14	58%	79%
	12:30 PM	5	7	13	47%	65%
	1:00 PM	7	6	17	70%	60%
	1:30 PM	8	8	15	78%	78%
	2:00 PM	6	6	14	58%	58%
pH- LaMotte precision pH	N/R					
Salinity –	Time	Surface sample refractometer – PPT (~14 ft)		Depth Sample refractometer - PPT		
	10:00 AM	NR		20		
	10:30 AM	10		13		
	11:00 AM	10		14		
	11:30 AM	NR		14		
	12:00 PM	8		NR		
	12:30 PM	8		10		
	1:00 PM	9		11		

	1:30 PM 2:00 PM	7 10	8 10			
<i>Fish Catch – Rod & Reel</i>	<i>Number</i>	<i>Species</i>	<i>Size</i>	<i>Time</i>		
<i>DIV - 2</i>	1	Striped Bass	18 cm			
<i>Total @</i>	1	America Eel	38 cm			
<i>MACROS-</i>	5	Blue crab – 3 M, 2 F	18 cm largest			
<i>DIV - 3</i>	50	Periwinkles				
<i>TOTALS 73</i>	18	Ctenophore (Comb Jellies)				
<i>Tides (from pier to water)</i>	<i>Time</i>	<i>Distance to water surface</i>	<i>D/T</i>	<i>Cm/min</i>		
	10:15 AM	14'10"				
	11:01 AM	13'11"	28 cm/46 minutes	0.61cm/min		
<i>Currents</i>	<i>Time</i>	<i>Ft./sec</i>	<i>Meter/sec</i>	<i>Cm/sec</i>	<i>S/N</i>	<i>E/F/S</i>
Current speeds were measures at the tip of Pier 1 in between the shoreline and the channel	10:08 AM	37.5	11.43	1143	S	E
	10:35 AM	18	5.49	549	S	E
	11:00 AM	30	9.144	914	S	E
	11:30 AM	25	7.62	762	S	E
	12:00 PM	30	9.14	914	N	F
	12:30 PM	50	15.24	1524	N	F
	1:00 PM	57	17.37	1737	N	F
	1:30 PM	68	20.73	2073	N	F
	2:00 PM	125	38.1	3810	N	F
	2:30 PM	94	28.65	2865	N	F
<i>Sediment Cores</i>	<i>Length</i>	<i>H2S smell/oil</i>	<i>Rare</i>	<i>Common</i>	<i>Abundant</i>	
<i>12:30 PM location 1</i>	12.7 cm	No	Clay Leaves wood	Mud, Gravel pebbles	Sand	
<i>Shipping Commercial</i>						
<i>Name</i>	<i>Time</i>	<i>Direction</i>	<i>Load</i>	<i>Type</i>	<i>Color</i>	
NY WATERWAY	9:54 AM	SOUTH	LOADED	FERRY	WHITE	
NJ 6249HB	10:54 AM	SOUTH	LIGHT	TUGBOAT	WHITE AND BLUE	
B. M. L. P.	10:56 AM	SOUTH	LOADED	BARGE	RED	
NY POLICE DEPARTMENT	10:59 AM	NORTH	LIGHT	MOTORBOAT	WHITE	
NY WATERWAY	12:15 PM	NORTH	LOADED	FERRY	WHITE	
MONICO	12:20 PM	SOUTH				
CIRCLE LINE SIGHT SEEING CRUISE	12:27 PM	SOUTH	LOADED	CRUISEBOAT		

NR	12:48 PM	NORTH	LIGHT		
SLOOP	12:57 PM	NORTH			
NR	12:57 PM	NORTH			
LUX SPEED	1:25 PM	NORTH	LOADED		
NYPD	1:55 PM	NORTH			
Shipping Recreational					
POSITIVE CARRY	9:48 AM	NORTH	HEAVY	CRUISEBOAT	WHITE
FIREFLY	9:49 AM	NORTH	LIGHT	SAILBOAT	BLUE
NR	12:13 PM	NORTH	LIGHT	TUGBOAT	
RED BALTEMORE HOOK	12:20 PM	SOUTH	LIGHT		
DOUBLE SKIN 307	12:25 PM	NORTH			
SLOOP	12:55 PM	SOUTH	LIGHT		
HOOK	1:14 PM	SOUTH	LOADED		
RTC 106	1:29 PM	NORTH	LIGHT		