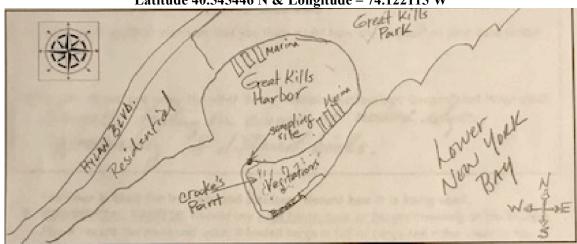
## Day in the Life of the Hudson River 10/22/19 GREAT KILLS PARK STATEN ISLAND RIVER MILE: -11.2

Salt Front: ~RM 53

Curtis High School- Dave Scheffler 38 students 11<sup>th</sup> -12<sup>th</sup> grade, 3 adults

Steve Stan

Latitude 40.545446 N & Longitude – 74.122115 W



Location: Great Kills Gateway National Recreation Area, Staten Island, New York

Area: Open Beach

Surrounding Land Use: 30% Beach (urban park); 70% Forested

Sampling Site: Beach and riprap, sandy and rocky.

River Bottom: Sandy and muddy Shoreline: 80% Sandy; 20% Muddy Plants in area: 20% seaweed

Water: 80 cm deep

ITEM	Time	Reading		Comments	
Physical	•				
Air Temperature	11:01 AM	14.5 ° C	58.4 ° F		
_	11:51 AM	17.8 ° C	62.7 ° F		
Wind Speed:	11:51 AM	Beaufort 2	6 m/s	East	
Weather today	10:45 AM Overcast (100%); 11:30 AM Rain; 5 minutes of sprinkle				
Weather the past 3				-	
days:					
Tides- Tide stick	Time	Rising, Falling, Unchanged	Height (cm)	Rate of Tidal Change (cm/min)	
	10:45 AM	Falling	80 cm	NA	
	12:00 PM	Falling	150 cm	0.93 cm/min	
Current-	cm/second	Knots	North/South	Ebb/Flood/Still	
	NA	NA	North	Flood	
Water	Time	° С	° F	Average	
Temperature					
	11:03 AM	16°C, 13°C, 15°	61° F, 55° F,	14.75 ° C, 58.75 ° F	
	11:35 AM	C	59° F	15.5° C, 60° F	
	11:48 AM	16° C, 15° C,	61° F, 59° F,		
		15.5° C	60° F		
		16 ° C	61 ° F		
Turbidity - long	11:35 AM	25.2 cm, 25.3 cm, 19.2 cm		Brown, muddy	
sight tube		Avg: 25.23 cm			
Chemical					

Time	Chloride nnm Cl	Total Sal	Salinity matches NYHOPS model for	
	emorate pp er		10/22/19	
			http://hudson.dl.stevens-	
		C-CCC PP	tech.edu/maritimeforecast/maincontrol.shtml	
Time	Тетр	ppm DO	% saturation	
	•			
11:21 AM	8.2, 8.1, 8.2	<u> </u>		
Number	Name	Length of		
		longest		
6	Atlantic Silverside	2.75 inches	Pull 1	
	Atlantic Silverside			
18	Skate	3 inches	Pull 2	
	Summer Flounder			
1		14.5 inches	Rod and Reel	
1		24 inches	Rod and Reel	
TOTAL:	Diversity: 3			
26				
Number	Name	Length of		
_		Males		
TOAL: 5	Diversity: 2			
Time	Oxid Top	Grain Size	Other Items	
10:34 AM	No	Abundant:	Common: pieces of drift wood, dead oyster	
		Mud, Sand	shells	
			Abundant: Zebra mussels, living vegetation	
Time	Loaded/Unloaded	North/South	Name/Color	
11:30 AM	NA	North	NYPD Rescue, Gray	
NA	Light	North	50' rec Fishing; White	
NA	Light	North	40' rec Fishing; White	
NA	Light	North	21' rec Fishing; White	
Clam shells, oyster shells, crab molts, crab shells; seagulls were feeding on clams at water's				
edge. Approximately 8 species of birds.				
	11:21 AM Number  6 18 1 1 TOTAL: 26 Number  2 3 TOAL: 5  Time 10:34 AM  NA NA NA NA NA Clam shells	Time Temp  11:21 AM 8.2, 8.1, 8.2  Number Name  6 Atlantic Silverside Atlantic Silverside Skate Summer Flounder  1 TOTAL: Diversity: 3 26  Number Name  2 Blue Crab Mud Crab TOAL: 5 Diversity: 2  Time Oxid Top  10:34 AM No  Time Loaded/Unloaded 11:30 AM NA Light NA Light NA Light Clam shells, oyster shells, crab m	Time Temp ppm DO  11:21 AM 8.2, 8.1, 8.2  Number Name Length of longest  6 Atlantic Silverside Atlantic Silverside Skate Summer Flounder  1 14.5 inches  2 4 inches  TOTAL: Diversity: 3  2 Blue Crab Females  3 Mud Crab Males  TOAL: 5 Diversity: 2  Time Oxid Top Grain Size  10:34 AM No Abundant: Mud, Sand  Time Loaded/Unloaded North/South  NA Light North  Clam shells, oyster shells, crab molts, crab shells	