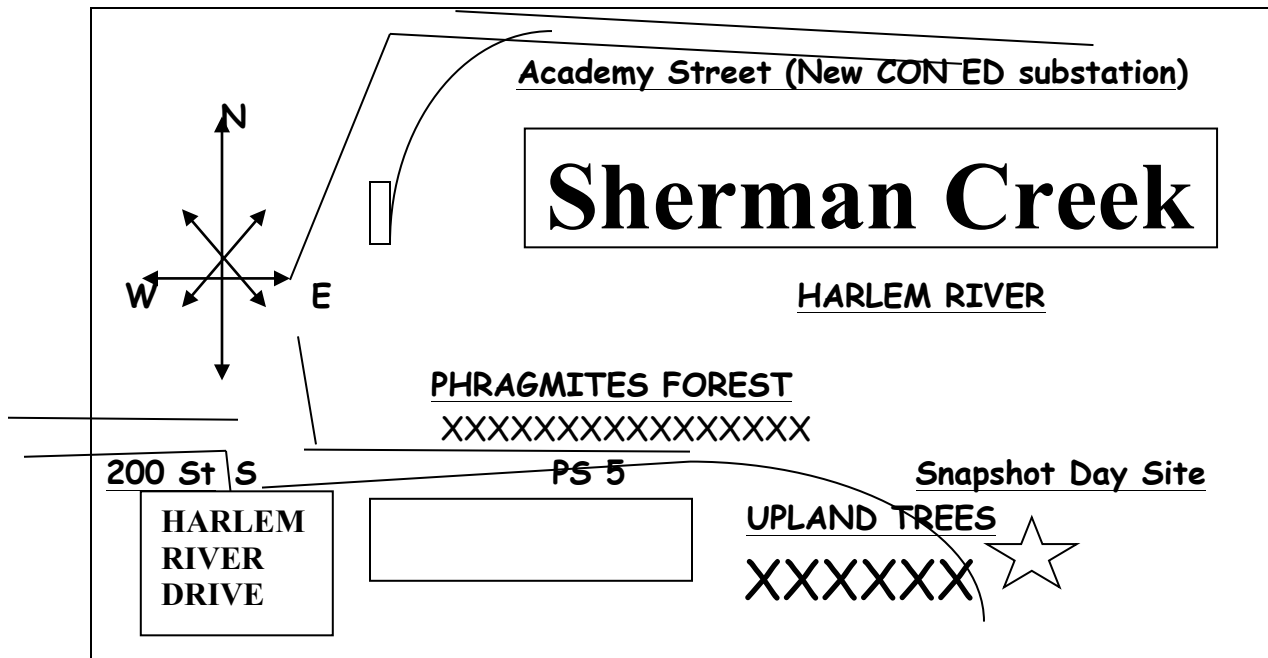




**Day in the Life of the Hudson River 10/20/15 Data**  
**HARLEM RIVER MILE 13b**  
**Sherman Cove Park saltmarsh flats, Harlem River**  
**Obed Fulcar, Friends of Sherman Creek**  
**MS319 Middle School, 8<sup>th</sup> grade, 25 students, 2 adult**  
**GPS Latitude 40.85 E - Longitude -73.92 N**

**Note: We participate in the Billion Oyster Project and so it played a role in our sampling. Here we are checking the oyster cage.**



**SITE MAP**

**Location:** Saltmarsh/mudflats at Sherman Cove Park next to a side road/school building, adjacent to Swindler Cove next to the north end of Harlem River Drive, Manhattan – a forever wild area.

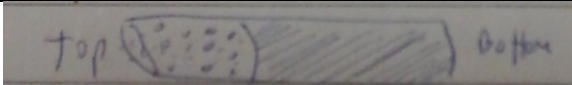
**Surrounding Land Use:** 40% urban/residential, 50% forested, 5% beach, 5% Industrial/commercial.

**Sampling Site:** Beach area, covered with vegetation - Sampled in salt marsh covered with phragmites on one side and a mudflat with gravel on the shore, pipe with 1 m diameter north of sampling site

**Shoreline:** 20% muddy, 80% rocky

**Plants in area:** Rocks covered with algae and cord grass spartina. 5% of water area has plants in it. 40% of site is invasive Phragmites, 20% other

**River Bottom:** muck/muddy bottom – water 1 ft. depth

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<b>Physical</b>				
Air Temperature	10:15 AM	22.1 °C	70.2 °F	
Wind Speed	10:05 AM	5 m/sec	NW	
Cloud Cover	Clear <25%			
Weather today	Clouds	No rain		
Weather recently	Sunny & cold			
Water Conditions	calm			
<b>Water Temperature</b>	11:00 AM	15.0 °C 19.9 °C 14.7 °C		Average 16.5 °C
<b>Turbidity – Long sight tube</b>	11:30 AM	49.5 cm 26.1 34		Average 36.5 cm
<b>Chemical</b>				
DO – LaMotte greenforce kit – (note: this is a low resolution sample kit)	11:30 - 11:35 AM	7 ppm 9 ppm 11 ppm	Average 9 ppm	92% saturated
pH –	11:30 AM	7.25 7.28 7.34	Average 7.29	
Salinity – hydrometer & meter	12:30 PM	16.1 ppt	*Also reported Meter data but this is too high – perhaps error in calibration of meter	* Reported - 21 32 34 Average for meter = 29 ppt
Phosphate	Not read			
<b>Fish Catch – 10 ft. net pull 30 ft., 31 fish caught</b>	<b>Number Caught</b>	<b>Species</b>		<b>Size</b>
12:45 PM	None caught			
<b>Tides</b>	10:20 AM	Rising	LT ~ 9AM	
<b>Currents</b>	7.6 m/42 secs		760 cm/42 sec	18 cm/sec
<b>Core Sample Sediments</b>				
	<b>Core Length</b>	<b>Common</b>	<b>Abundant</b>	<b>Notes</b>

	5 cm	Sand Gravel Pebbles Shells	Mud Living Vegetation	H2S smell
<b><i>Commercial Traffic</i></b>	10:30 AM	Circle Line	Northbound	Loaded with people
	10:45 AM	Tugboat	Southbound	light
<b><i>Other Items</i></b>	Seagulls, yellow leaves from Autumn in the sample area.			