

Day in the Life of the Hudson River 10/22/19
HUDSON RIVER PARK PIER 40, MANHATTAN
RIVER MILE: 2.9
Salt Front: ~ RM 53
NYC Museum School – Scott Wassmuth
30 students 10th grade, 3 adults
River Project— Toland Kister
Latitude 40.72842 N & Longitude – 74.01379 W

Location: Hudson River Park, Pier 40 (also called North River), Manhattan, NY

Area: Off southern side of Pier 40 about 600-800 feet down the pier from shore. Large urban pier with many sports facilities: athletic fields, kayaking and boathouse, seasonal moorings available, parking, fishing on the pier, benches and picnic tables for the public

Surrounding Land Use: 50% Urban/Residential; 50% Industrial/Commercial

Sampling Site: Pier, Bulkhead, banks altered; concrete and wood piling, large pier extends into river/cement bulkhead south ~100 m

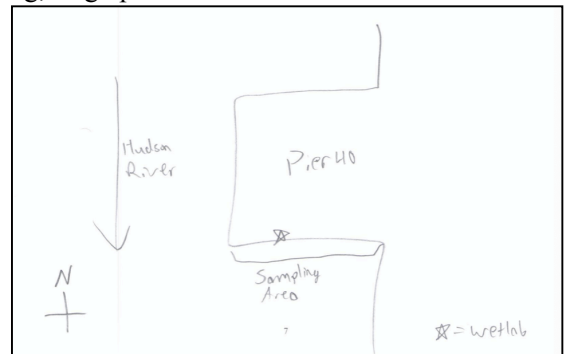
Shoreline: Rocky

River Bottom: Soft sediment habitat, muddy

Plants in area: no plants in water area

Water: choppy, 15-20 ft

NOTE: this highly urban site is just west of the busy Westside Highway- it is the largest pier in Hudson River Park with a 14 acre footprint; Pier 40 is used for recreation, school groups using the athletic fields; there are 3 public boathouses; there are many people by the river's edge jogging, biking, and walking.



ITEM	Time	Reading		Comments
<i>Physical</i>				
<i>Air Temperature</i>	10:45 AM	60 ° F	16 ° C	
	11:36 AM	58 ° F	15 ° C	
<i>Wind Speed:</i>		Beaufort 1	Northeast	
<i>Weather today</i>	Overcast, light mist, brief drizzle in the middle of the program			
<i>Weather past 3 days:</i>	Some clouds, rained			
<i>Tides- dock to water</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
*LT @ 41 st street ~10:26 AM. Should have been rising during sampling and #'s getting smaller if measuring dock to water. Probably got hit with wave action?	10:15 AM		310	
	10:38 AM		352	
	10:58 AM		317	
	11:26 AM		320	
	11:50 AM		302	
<i>Current-</i>	<i>Time</i>	<i>cm/second</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
*Interesting phenomena: a lag between the tides & currents, so it is an ebbing current on a flood tide	10:16 AM	31.6 cm/s, /61 knots	South	Ebb
	11:28 AM	25.1 cm/s, .5 knots	South	Ebb
	11:54 AM	35 cm/s, .67 knots	South	Ebb
<i>Water Temperature-Average</i>	10:00 AM	62 ° F	16 ° C	
	10:30 AM	60 ° F	15 ° C	
	11:05 AM	60 ° F	15 ° C	
	11:35 AM	60 ° F	15 ° C	

Turbidity- secchi disk	11:44 AM	116 cm, 116 cm, 30cm*, 260 cm*		<i>*these readings are very far from the others</i>
Chemical				
Salinity- hydrometer	10:00 AM 10:30 AM 11:05 AM 11:35 AM	14,000 ppm 13,000 ppm 14,000 ppm 13,000 ppm Avg: 13,500 ppm		
DO – drop count	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:10 AM 10:40 AM 11:15 AM 11:50 AM	15.8 ° C 15.8 ° C 15.8 ° C 15.8 ° C	7 7.5 7.6 8	77.5
pH –	NA			
Biological				
Fish	Number	Name	Length of longest	
<i>Eel mop Sed. Sampler Crab pots Oyster cages</i>	2	Oyster Toadfish	4.5 cm	9:30-12:30PM
Fish Totals	TOTAL: 2	Diversity: 1		
Macroinvertebrates	Number	Name	Length of longest	
<i>Eel mop Sed. Sampler Crab pots Oyster cages</i>	Abundance not recorded	Sea Squirt Isopod Grass Shrimp Moon Jelly Mud Crab Blue Mussels Oysters Hard Clam Shore Clam Tube Worms Mud dog whelk Wentletrap Ice Cream cone Worm Blood worm Long clawed hermit crab Ghost Anemone		
Macroinvertebrate Totals	TOTAL:	Diversity:		
Sediment Core	Time	Oxid Top	Grain Size	Other Features
NA				
Boats	Time	Name/Color	North/South	Loaded/Light
NR				
Observations	Gulls,			