

Day in the Life of the Hudson River 10/16/18 Data
HUDSON RIVER PARK PIER 40, MANHATTAN
RIVER MILE: 2.9
Salt Front: ~RM 24
NYC Museum School- Scott Wassmuth
40 students 10th grade, 5 adults
River Project- Melissa Rex & Toland Kister
Latitude 40.72842 N & Longitude – 74.01379 W

Location: Hudson River Park, Pier 40, Manhattan, NY

Area: Off southern side of Pier 40 about 600-800 feet down the pier from shore. Highly urban site just west of the busy Westside Highway. It is the largest pier in the Hudson River Park (with a 14 acre footprint); Pier 40 is used for recreation: athletic fields, fishing, and kayaking; benches, picnic tables, and parking for the public; there are 3 public boathouse; seasonal moorings available; there are many people by the river's edge jogging, biking, and walking.

Surrounding Land Use: 50%

Urban/residential; 50% Industrial/Commercial

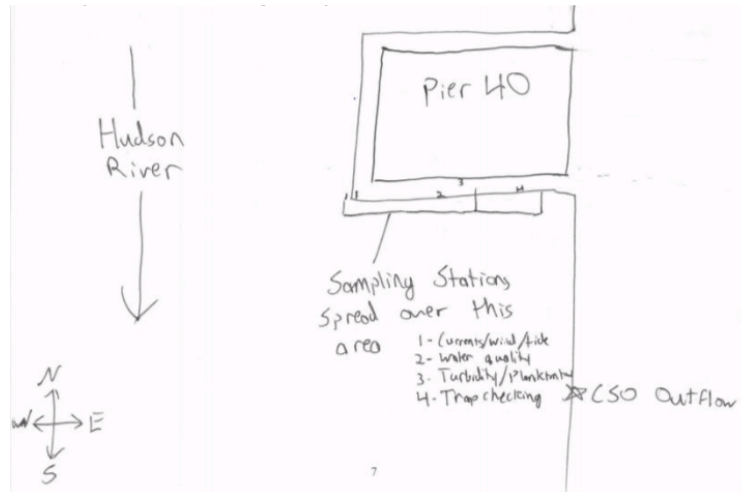
Sampling Site: Bulkhead, Banks altered with concrete and wood pilings, large pier extends into river/cement bulkhead south ~100 meters.

Shoreline: Rocky

Plants in area: no plants in water area

Water: Choppy, 15-20 foot depth

River Bottom: Soft sediment habitat, muddy



<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature:</i>	10:37 AM	11 ° C	51.8 ° F	
<i>Wind Speed:</i>	10:37 AM	Beaufort: 4	15 mph, 13 knots	South
<i>Weather Today:</i>	No Rain, Partly cloudy (26-50%)			
<i>Weather Previous:</i>				
<i>Water Temperature</i>	10:28 AM	18 ° C	65 ° F	
	11:10 AM	18 ° C	65 ° F	
<i>Turbidity - Secchi disk</i>	10:30-12:30 PM	71 cm 80 cm 70 cm	Avg: 73.6 cm	
Chemical				
<i>Salinity- hydrometer</i>	10:30-12:30 PM	5.3 ppt 2 ppt 2.3 ppt	Avg: 3.2 ppt	
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:30 AM	18 ° C	6.8	70
<i>pH - indicator solution</i>	10:30-12:30 PM	7.4		
<i>Nitrates</i>	10:30-12:30 PM	0 ppm		
<i>Phosphates</i>	NR			
<i>Fish – minnow trap</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	1	Black Sea Bass	19 cm	

	TOTAL: 1	Diversity: 1			
Macroinvertebrates	Number	Name	Length of longest		
	NR	Grass Shrimp			
	NR	Mud Crab			
	NR	Isopods- <i>Idotea metallica</i>			
	TOTAL:	Diversity: 3			
Tides- distance from pier to water	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)	
	10:28 AM	-	360	-	
	11:11 AM	Rising	340	.47	
	12:19 PM	Rising	300	.59	
	1:02 PM	Falling	310	.23	
Current- *measured in a cove	cm/second	Rising, Falling, Unchanged	Height (cm)	Rate of Change (cm/min)	
Currents Flow	Cm/second	Knots	North/South	Ebb/Flood/Still	
10:37 AM	69.3	1.35	North	Flood	
11:28 AM	47.6	0.925	North	Flood	
12:29 PM	23.8	0.463	North	Flood	
1:13 PM	0	0	-	Still	
NR					
Boats	Time	Name	Color	North or South	Loaded or Light
NR					
Other Observations	NR				