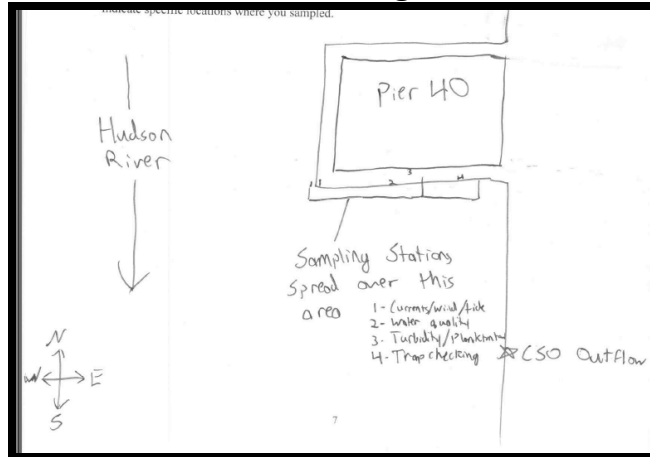


**Day in the Life of the Hudson River 10/12/17 Data
(Salt Front ~RM 65)
RIVER MILE 2.9**

**Nina Hitchings, Toland Kister - The River Project
Scott Wassmuth, The Museum School – 32 students and 7 adults
Latitude N 40.7282554N Longitude -74.014880 W**



Location: Pier 40 Hudson River (also called North River)

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 & picnic tables for the public

Surrounding Land Use: 100% Urban/residential;

Sampling Site: Bulkhead, Banks altered; concrete & wood pilings, large pier extends into river/cement bulkhead south ~ 100 m

Shoreline: Rocky

River Bottom: Soft sediment habitat, muddy

Plants: no

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 use the athletic fields; there are 3 public boathouses; there are many people by on the river’s edge: jogging, bike riding, walking.

<i>ITEM</i>	<i>Time</i>	<i>Reading F</i>	<i>Reading C</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	All Day	62°F	16.67°C	
Wind Speed	<i>Time</i>	<i>Beaufort Chart</i>	<i>Kestral – from spot somewhat protected by building</i>	
		2	4-7 mph	4-6 kts
Cloud Cover	Mostly cloudy (51-75% cover)			
Weather today	Drizzling, became sunnier towards end of sampling			
Weather recently	Fairly Warm for October, mostly sunny, rain on Monday			

Water	choppy			
Water Temperature -4 feet of water	9:42 AM 10:05 AM 10:28 AM 10:46 AM	66 °F 64 °F 66 °F 66	18°C 18°C 19°C 19	Average 18.5 °C 65 °F
Turbidity (long site tube)	9:42- 10:46 AM	87 cm 96.2 90 88.4		Average 94cm
Chemical – each is an average of the 4 different rotation groups	TIME	TEMP.	PPM	% SAT.
DO – drop count kits	9:42- 10:46 AM	18.75°C	6 ppm	64%
pH – Litmus paper	9:42- 10:46 AM	7 X3		Average 7
Salinity – hydrometer /Instant Ocean	9:42- 10:46 AM	21 21.5 21 22		Average 21.375 ppt
Nitrates	9:42- 10:46 AM	0.5 0.75 0.6 0.75		Average 0.65 ppm
Phosphates	9:42- 10:46 AM	0.02 ppm 0.02 0.02 0.02		Average 0.02 ppm
Fishing – Minnow Trap and Crab pots	9:42- 10:46 AM	Grass Shrimp Sea Squirts Comb Jellies Isopods Amphipods Spider Crabs		Macro DIV 6
Tide - distance from pier to water	9:39 AM 9:56 AM 10:00 AM 10:16 AM 10:35 AM 10:45 AM	233 cm 221 200 210 190 185	- -0.71 -5.25 +0.625 -1.05 -0.5	Set Rising Rising Expect wave Rising Rising
Currents – averaged from student sheets	9:42- 10:46	11 cm/sec	0.21 kts	South/Ebb
We sample from a pier and also located near the large air vents built to supply the Holland Tunnel which may impact our current readings.				