

Day in the Life of the Hudson River 10/16/18 Data
HUDSON RIVER PARK PIER 45, MANHATTAN
RIVER MILE: 3.2

Salt Front: ~RM 24 (Between Piermont & Dobbs Ferry)

NYC Lab High School- Susan Price

22 students 12th grade , 2 adults

Latitude 40.73315 N & Longitude – 74.01369 W

Location: Hudson River Park, Pier 45, Manhattan, NY

Area: Christopher Street Pier at the southside end of the pier where the “gazebo” is at the foot of the pier

Surrounding Land Use: 100% Hudson River Park with walkway and small grassy area. 100% Commercial/Urban.

Sampling Site: Recreational Pier

Shoreline: Banks altered with bulkhead, mainly metal and wooden pier.

Water: choppy, but no breaking crests

River Bottom: Muddy

ITEM	Time	Reading		Comments
Physical				
Air Temperature:	1:28 PM 2:02 PM	17 ° C 18 ° C		
Wind Speed:		Beaufort Force: 2	Anemometer Avg: 3.5 m/s	Southwest
Weather Today:	No Rain; Partly cloudy (26-50%)			
Weather Previous:	Rainy and cloudy			
Water Temperature	1:58 PM 3:08 PM	Avg: 19.7 ° C Avg: 19.7 ° C		
Turbidity - long site tube	2:03 PM	42 cm, 42.1 cm, 42.2 cm	Avg: 42.1 cm	
Chemical				
Salinity- Refractometer	2:03 PM 3:00 PM	6, 6, 6 ppt 9, 10, 8 ppt	Avg: 6 ppt Avg: 9 ppt	
DO – chemets snap test kit	Time	Temp	ppm DO	% saturation
	2:03 PM	19 ° C	6, 6, 7, 7 Avg: 6.5	67
pH –	1:59 PM 3:08 PM	pH Strips: 7 -	API Saltwater kit: 7.8	
Nitrates- API Saltwater kit		0 ppm		
Phosphates				
Fish- traps	Number	Name	Length of longest	Left a fish trap overnight (10/15/18 5:00PM) & pulled in at 1:30PM
	1	American Eel	60 cm	
	TOTAL: 1	Diversity: 1		
Macroinvertebrates- Trap	Number	Name	Length of longest	Reset trap from 1:30 – 2:30 PM; Male crab
	1	Blue Crab	16 cm	
	TOTAL: 1	Diversity: 1		
Tides-	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)

	1:00 PM 1:30 PM 2:00 PM	- Still Rising	- No Change + 5 cm	Slack tide 0.167
<i>Currents Flow</i>	<i>Cm/second</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>	<i>Comments</i>
1:00 PM 1:30 PM 2:00 PM	0 0 20.88	Slack Slack North	Still Still Flood	Orange blew into the pier the first two attempts.
<i>Other Observations</i>	Sewage discharge at this site.			