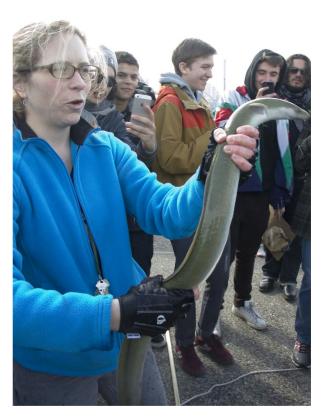
Day in the Life of the Hudson River 10/20/16 Data **RIVER MILE 3.2**

Hudson River Pier #51, Manhattan Susan Price & 3 other lab teachers - NYC Lab High School 64 APES students (4) 11& (60) 12th grade **GPS coordinates: 40.738138, -74.010706**



Location: Pier 51 – the Playground Pier, concrete pier **Area:** Pier used for boating, picnics, fishing, playground, jogging, sitting and walking **Surrounding Land Use: 60%** Urban/residential; 30% Industrial/Commercial; 5% Entertainment, 5% Planted. Sampling Site: Recreational pier,

grassy and concrete

Shoreline: Banks altered, wood bulkhead, pipe entering water, riprap, concrete bulkhead Water Area: Bottom muddy,

rocky

Water: Calm, slight chop, some

Plants in area: no plants in water,

some trees planted on pier

ITEM	Time	Air Temp.	Wind	Wind	
Physical			Beaufort #	Anemometer	
Air Temperature	9:57 AM	13.4°C	#4 - SW	4.3 m/s SW	
& Wind					
	10:25 AM	14°C		3 m/s SW	
	10:46 AM	17 C			
Cloud Cover	Partly	26-50%			
Weather today	Some clouds to the north and to the south but no rain				
Weather recently	No rain – dry stretch				
Water	9:57 AM	14°C			
Temperature					
	10:05 AM	15°C			
Turbidity –site	10:30 AM	48 cm		Average 55	
tube	10:50 AM	62 cm		cm	
Chemistry	Time	Sigma	Color test		

		Test Strip	match	
pH – Color test	10:05 AM	N/R	8.2	
match and test	10:13 AM	7.5	N/R	
strip	10:27 AM	7.7	N/R	
	10:52 AM	7.8	N/R	
Salinity – plastic	9:52 AM	27.5 ppt	Plastic hydrometer	
hydrometer	10:05 AM	28 ppt	Glass hydrometer temp 15°C	
D.O CHEMets	9:57 AM	15°C	5 ppm	47% saturated
	10:05 AM	15°C	7 ppm	61%
Nitrogen – API	Nitrate – 1.2	Ammonia	Nitrite - 0	
Saltwater Master	ppm	- 0		
Test Kit				
Fish – pole	American Eel	Large	See photo	
		Adult`	above	
Tides	N/R			
Currents:	9:58 AM	580 cm/60	9.7 cm/sec	N/flood
		sec		
	10:11 AM	600 cm/60	10 cm/sec	Ebb
		sec		

*Currents – Samplers noted on data sheet that the tide chart said it would be an ebb tide and that the north blowing wind could have affected results, however the NOAA charts show the tide flooding at this time of the day.

Commercial Traffic	Type	Color	North/South	Loaded/Light	
10:05 AM	NY Waterway	White	North	Loaded with people	
10:07 AM	NY water taxi		North	Some People	
10:15 AM	US Army	Navy blue	South	Light	
10:30 AM	Chandra B	White	South	Light	
11:57 AM	Circle Line		South	Loaded with people	
Recreational Traffic					
10:10 AM	Sailboat	White	North		
10:15 AM	Classic Harbor Line	White	South	Small engine propelled	
10:41 AM	Sailboat	White	North		
Other Observations	Buildings, pigeons, humans and boats. We observed a lot of plastic floating near the pier. Also so a dead red-eared slider turtle which was a great teachable moment about caring for exotic pets and to never release them into the wild, especially to a saltwater environment when they are a freshwater species.				