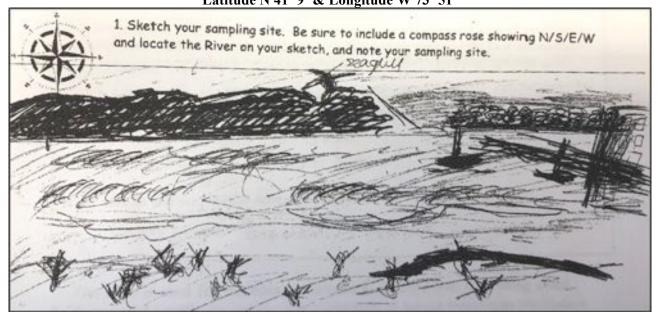
## Day in the Life of the Hudson River 10/16/18 Data LOUIS ENGEL PARK Ossining, NY

## RIVER MILE: 32.5

Salt Front: RM 24

Ossining High School, AP Environmental Science-7 students 11<sup>th</sup> – 12<sup>th</sup> grade, 1 adults Artie Carlucci, Ossining HS Latitude N 41° 9' & Longitude W 73° 51'



**Location:** Wading beach at Lewis J. Engel Park, Ossining, NY

Area: Beachfront area with a ferry pier, paved sidewalk & parking lot, slightly grassy, rock wall lining the river

Surrounding Land Use: 50% beach, 15% park, 25% industrial/commercial

Sampling Site: bulkhead lines the shoreline with pier, altered banks with rock wall, beach, riprap, rocky, and

weedy. Used for picnics and boats. Pipe enters the river North of the sample site.

**Shoreline:** 50% sandy, 10% muddy, 60% rocky

Water Depth: 1-4 feet

Plants in area: weeds and water chestnuts
River Bottom description: muddy, rocky, sandy
Other: Canadian geese, cormorants, sea gulls

ITEM	Time	Reading		Comments		
Physical						
Air Temperature	10:00 AM	8.89 °C	48°F			
	11:00 AM	10.56 °C	51 °F			
	12:00 PM	11.67 °C	53 °F			
Wind Speed: Wind	10:00 AM	17 mph	14.77 knots			
Meter	2:00 PM	11 mph	9.56 knots			
Weather today	12:00 PM Clear					
Weather recently	Rain showers over the weekend and it rained Monday night.					
Water Temperature	10:00 AM	15 °C	59°F			
	12:00 PM	16 °C	60.8 °F			
	1:00 PM	16 °C	60.8 °F			
Turbidity - long	10:00 AM	9.5 cm, 10.5 cm, 11 cm, 11 cm				
sight tube						
Chemical						

Chloride.	Total Salinity		*6000 ppm with
-	_	*Hydrometer	hydrometer is not
35 nnm C1		•	realistic this year at
	* *	•	this site
	* * *		% saturation
			40%
			40%
1.00 1 101	10 C		4070
10:00 AM	6, 6.5, 7		
1:00 PM	6, 6.5, 7		
12:00 PM	5 ppm		
1:30 PM	1 ppm		
Number	Name	Length of	
		longest	
1			
11			
1		50 cm	
TOTAL: 20	Diversity: 3		
Number	Name		
2	Asian Shore Crab		
TOTAL: 2	Diversity: 1		
Rising, Falling,	Height (cm)	Rate of Tidal	
3		_	
Unchanged	-	0	
Unchanged	-	0	
Flood	6	.1	
Flood	40	.567	
Flood	55	.5	
Flood	65	.33	
Name	Color	North or	Loaded or Light
		South	
Tanker	Red and Black	North	Light
Description	Rare	Common	Abundant
28 cm long	Clay	Gravel	Sand
	Wood	Pebbles	
	Shells	Brick	
		1	
Water chestnut			
Water chestnut with small bugs			
	1:00 PM  12:00 PM  1:30 PM  Number  1 7 11 1 TOTAL: 20  Number  2 TOTAL: 2  Rising, Falling, Unchanged Unchanged Unchanged Flood Flood Flood Flood Flood Flood Flood Some  Tanker Description  28 cm long	- 6000 ppm 35 ppm Cl' 28 ppm Cl' 7 50.58 ppm 7 7emp 10:00 AM 1:00 PM 16°C 1:00 PM 1:00 PM 5 ppm 1:200 PM 5 ppm 1:30 PM 7 ppm 1:30 PM 1 ppm  Number Name 1 Atlantic Silverside Bay Anchovies Alewife Catfish- dead TOTAL: 20 Diversity: 3  Number Name 2 Asian Shore Crab TOTAL: 2 Diversity: 1  Rising, Falling, Unchanged Unchanged Unchanged Unchanged Flood Flo	