

Day in the Life of the Hudson River 10/22/19 Data

RIVER MILE 25

Salt Front ~ RM53

Matthiessen Park, Irvington, NY

Alex Lengers, Irvington High School

Amy Panitz - Irvington Middle School

**200 students - 6th MS 140 students, 11th & 12th HS 60 students
and 20 adults**

Latitude 41.2' 30" N Longitude 73. 52' 32" W

Sampling Site: Matthiessen Park, Irvington NY

Surrounding Land Use: Pier, forested, grassy, parking lot used for recreation: boating, jogging, fishing, picnics, playground

Area: 60% recreation/grass and playground, 10% beach, 30% trees

Shoreline: 90% sandy and 10% rocky. Beach, banks altered, riprap, wood bulkhead, pipe entering the water, area covered in vegetation; sandy, muddy

Plants: No plants in the water

Water Depth: 180 cm and calm by the beach

River Bottom: sandy and rocky

Weather Conditions	TIME	CELCIUS	FARENHEIT	
Air Temperature	10:20 AM 10:45 AM	15 C 12 C	59 F 52 F	
Wind Speed	10:25 AM	BEAUFORT #2	SE	
Cloud Cover	75 %-100%	Overcast		
Current Weather	Rain started 10:30 – light rain	Last 3 days – sunny, rainy, sunny		
Turbidity – long site tube	10:50 AM 12:15 PM	43 cm 24 cm		
Water Chemistry	Time	Reading 1	Reading 2	Reading 3
Water Surface Temperature	10:35 AM 12:30 PM	16 C 19 C	61 F 66 F	
DO (drop count kit)	10:50 AM 12:10 PM	7 ppm 6 ppm		
pH (paper)	10:35 AM 12:10 PM	6.25 5	*pH seems low. Possible reasons are pH paper used or an sheen that was seen on the water surface.	

Salinity Hydrometer	10:30 AM 12:05 PM	6 ppt 6 ppt			
Fishing – 25 ft. seine net	Species	Total	Length of longest	Notes	
	White Perch	1	18 cm		
	Atlantic Silverside	42	8 cm		
	TOTAL FISH CATCH	43	TOTAL DIVERSITY	2	
Macroinvertebrates	Shrimp	1	4 cm		
	Comb Jelly	1	5 cm		
	Blue Crab	11			
	TOTAL MACRO	14	TOTAL DIVERSITY	3	
Tides - Tide stick	Time	Height	Change	Ebb/Flood	
	8:40 AM	30 cm	N/A		
	9:50 AM	15 cm	15 cm/drop	ebb	
	10:15 AM	50 cm	Set new stick	ebb	
	10:30 AM	45 cm	5 cm/drop	ebb	
	11:45 AM	52 cm	7 cm (at least) rise	flood	
Currents	Time of Reading	Cm/30 secs	Cm/sec	Knots	Direction of Current
	10:15 AM	30	1	0.02	Ebb
	10:45 AM	752	25	0.48	Ebb
Sediment Core	Took one for the runner and discontinued	Challenge with using the corer and the river bottom			
Boat Traffic Commercial	NONE				
Boat Traffic Recreational	1 boat time not recorded	Dingy	White		South
Observations	<p>Washed up trash including an 8 ft. metal ladder and a 3 ft. high construction cone. The beach was covered in driftwood</p> <p>10:30 Mr. Lengens (HS science teacher) notice a very large oily looking film that approached the shoreline. When it landed it seemed to indicate the presence of oil.</p> <p>Ducks present early an 7AM and geese throughout the day.</p>				