

Day in the Life of the Hudson River 10/14/21

Francis Lewis Park

RIVER MILE: 13.7 (East River)

Salt Front: ~ 49

Mirela Shpuza & International High School for Health Sciences

New York City Park Rangers

55 students & 5 adults

Latitude 40.797289 N & Longitude -73.826217 W



Location: Francis Lewis Park, Queens, NY

Area: Forested and grassy near site; pier

Surrounding Land Use: Forested; Beach

Sampling Site: Park area

Shoreline: Sandy, rocky, beach

Plants in area: none

River Bottom: Muddy

*NR = Not read/recorded

| ITEM | Time | Reading | | Comments |
|-----------------------------------|--|-----------------------------------|-----------------------------------|------------------------|
| Physical | | | | |
| Air Temperature | 10:50 AM | 26.5 °C | 80° F | |
| Wind Speed: | 10:54 AM | Anemometer 2 m/s | Beaufort NR | Direction NR |
| Weather today | 10:50 AM | <25% cloud cover | No rain | |
| Weather the past 3 days: | No rain, nice, Mon. through Wed. partly cloudy | | | |
| Tides- NR | Time | Rising, Falling, Unchanged | | Height (cm) |
| | | | | |
| Current- NR | Time | Cm/sec | Knots | North/South |
| | | | | Ebb/Flood/Slack |
| Water Temperature- | 10:55 AM | 22° C | 72° F | |
| Turbidity- Long Sight Tube | 10:45 AM | 46 cm | Tube records NTU as well – 12 NTU | |
| Chemical | | | | |

| | | | | | |
|------------------------------------|------------------|---------------------|--------------------------|---------------------------|-----------------------|
| <i>Salinity- Hydrometer</i> | 10:55 AM | 25 ppt | | | |
| <i>Standardized Salinity- NR</i> | | | | | |
| <i>DO – Lamotte Drop Count Kit</i> | <i>Time</i> | <i>Temp</i> | <i>ppm DO</i> | <i>% Saturation</i> | |
| | 10:55 AM | 22° C | 4 | 45% | |
| <i>pH – Color Match Kit</i> | 10:55 AM | 8.5 | | | |
| <i>Nitrates- NR</i> | | | | | |
| <i>Phosphates-</i> | 10:55 AM | 0.25-0.5 mg/L | | | |
| Biological | | | | | |
| <i>Fish -</i> | <i>Number</i> | <i>Name</i> | <i>Length of longest</i> | <i>Length of smallest</i> | |
| | 56 | Atlantic Silverside | 10 cm | 3.5 cm | |
| | 1 | Northern Pipefish | 12 cm | | |
| Fish Totals | TOTAL: 57 | Diversity: 2 | | | |
| <i>Macroinvertebrates</i> | <i>Number</i> | <i>Name</i> | <i>Length of longest</i> | <i>Length of smallest</i> | |
| | 1 | Palaemonetes Shrimp | NR | NR | |
| Macroinvertebrate Totals | TOTAL: 1 | Diversity: 1 | | | |
| Sediment Core -NR | | | | | |
| Length | H2S smell | Oxid Top | Oil | Grain Size | Other Features |
| | | | | | |
| Boats-NR | | | | | |
| | Time | Name | Color | North/Southbound | Light/Loaded |
| Commercial | | | | | |
| Residential | | | | | |