

Day in the Life of the Hudson River 10/4/12
HARLEM RIVER MILE 13
Swindler's Cove Park on the Harlem River
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Project
Queila Cordera, Amistad Dual Language School -5th grade PS/MS311 (53 students),
7 adults
PS 5 Ellen Lurie School-4th grade (50 students), 2 adults
(103 students total)
GPS Latitude 40° 51'36"N – Longitude 73° 55'12"W
(40° 86 N -73° 92 W)



Location: Beach at Swindler Cove Park, next to the north end of Harlem River Drive, Manhattan

Area: There is a pier, beach, floating boathouse with a dock. Area used for boating, rowing, biking, walking, school groups

Surrounding Land Use: 50% Urban/residential, 10% forested, 5% beach, 35% Industrial/Commercial

Sampling Site: Sandy, muddy beach area, covered with vegetation, riprap banks

Plants in area: grass, sycamore trees

Water depth:

River Bottom: sandy, muddy & rocky bottom

| <i>ITEM</i> | <i>Time</i> | <i>Reading 1</i> | <i>Reading 2</i> | <i>Comments</i> |
|-----------------|--|------------------|------------------|-----------------|
| <i>Physical</i> | Sampling occurred between 10:00 AM to 2:00 PM | | | |
| Air Temperature | 9:45 AM | 24.2°C | 75.6 °F | |
| | 10:00 AM | 24.8 | 76.7 | |
| | | 23.6 | 74.4 | |
| | | 24.4 | 76 | |

| | | | | |
|---|--------------------------------|--|----------------------------|--|
| Wind Speed | 10:30 AM | Beaufort Force #0 | | |
| Cloud Cover | Mostly cloudy | Overcast stratus/nimbo stratus at 10:30 AM | | |
| Weather today | drizzly | | | |
| Weather recently | Rainy and humid | | | |
| Water | calm | | | |
| Water Temperature | 9:15 AM 11:15 AM 1:15 PM | 20°C 21 20.5 | 68°F 69 68.5 | |
| Turbidity – long site tube | AM Noon PM | 42.5cm 44 cm 47 cm | | |
| Chlorophyll | 9:10 AM | 2.5 | | |
| Chemical | TIME | DO | Temp | |
| DO | 9:30 AM | 6 ppm | 20°C | 65% saturation |
| | 10:30 AM | 8 ppm | 21°C | 90 % saturation |
| | 1:30 PM | 9 ppm | 20.5°C | 93% saturation |
| pH – | 9:20 AM | 7 | | |
| | 11:20 AM | 7.5 | | |
| | 1:20 PM | 7.5 | | |
| Salinity | AM | 14 ppt | | |
| | Noon | 14 ppt | | |
| | PM | 15 ppt | | |
| Fish Catch – more than 30 seine attempts made during day | Number caught | Species | Length of largest | Diversity & Total catch |
| 10 groups of 4 students seined hourly from noon to 2PM | 1 | White Perch | 9.5 inches | Div=4 Totals=9 plus jellies |
| | 4 | Atlantic Silverside | 3 inches | |
| | 4 | Blue Crab | 1 adult, 3 juvenile | |
| | ~50 | Moon Jellies | | |
| Tides | Time | Water height in cm | Rising or Falling | |
| | 9:30 AM | 397 cm | Falling | |
| | 10:05 AM | 393 cm | Falling | |

| | | | | |
|--|--|----------------------|----------------------------|---------------------------|
| | 11:08 AM | 345 cm | Falling | |
| | 12:50 PM | 400 cm | Rising | |
| | 1:10 PM | 390 cm | Rising | |
| | 1:35 PM | 390 cm | Unchanging | |
| <i>Currents</i> | | 15 cm/sec | ebb | |
| | | 25 cm/sec | ebb | |
| | | 19 cm/sec | ebb | |
| | | 27.5 cm/sec | ebb | |
| <i>Core Sample Sediments</i> | <i>Length</i> | <i>Common</i> | <i>Present</i> | <i>Description</i> |
| <i>1st core</i> | 11cm – totl 5 cm oxidized top | Clay Sand | Oil | |
| <i>2nd core</i> | 8 cm – 3 cm oxidized top | Clay Sand | Oil Wood bits (rare) | |
| <i>Traffic – recreational (No commercial traffic noted)</i> | 9:55 AM | Speedboat | DaddyO | White - southbound |
| | 10:30 AM | Jet skis | | Northbound |
| | 1:35 PM | US Coastguard | | Northbound |