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

**(Salt Front ~ RM 83)**

**RIVER MILE 138 – Henry Hudson Park**

**Mary Cosgrove, 3 faculty & 8 students, Mt. St. Rose College**

**Sara Loya, 25 - 5th Grade Albany Academy for Girls**

**Coordinates: 42.64 N, 73.7W**

**Location:** Waterfront of Henry Hudson Park

**Area:** Park/Boat launch,

**Surrounding Land Use**: 100% parkland with 75% vegetated coverage – grassy, parking lot, used for picnics, boating, fishing

**Sampling Site:** Banks altered, riprap, bulkheaded -rocky

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| --- | --- | --- | --- | --- |
| ***ITEM***  | ***Time***  | ***Reading 1***  | ***Reading 2***  | ***Comments***  |
| ***Physical***  | ***Time***  | ***Temp***  | ***Wind Speed***  | ***Weather today***  |
| Air Temperature  | 9:58 AM | 55⁰ F10⁰ C | 2 Beaufort 5.5 mph Anemometer | Partly cloudy |
|  | 10:40AM | 55⁰ F10⁰ C | 1 Beaufort 2.6 mph Anemometer | cloudy |
|  | 11:10 AM | 59⁰ F16⁰ C | 2 Beaufort 3.5 mph Anemometer  | cloudy |
|  | 11:32 AM | 56⁰ F15 ⁰ C | 2 Beaufort 3.7 mph Anemometer  | cloudy |
|  | 5:32 PM | 61⁰ F17⁰ C | 0 Beaufort  | cloudy |
| Weather last 3 days  | Dry and warm  |  |  |
| ***Water Temperature***  | 9:53 AM10:37 AM11:05 AM11:26 AM5:33 PM | 12 C12121111 | 53⁰ F54535252 |  |
| ***Turbidity*** Large site tube  | 10:10 AM | 115 cm |  |  |
|  | 10:38 AM | 79 cm |  |  |
|  | 11:05 AM | 80 cm |  |  |
| **DO -Drop count**  | 9:53 AM10:37 AM11:05 AM11:26 AM | 12 C121211 | 9 ppm8 ppm8 ppm9 ppm | 82 %75%75%80% |
| pH | 9:53 AM10:37 AM11:05 AM11:26 AM5:33 PM | 7.07.47.47.47.0 |  |  |
| Salinity –  | 9:55 AM10:35 AM11:10 AM11:36 AM | 32 ppm Cl-30 ppm36 ppm36 ppm  |  |  |
| Currents (listed as tides)  | Time  | Distance | River Flow |  |
|  | 10:10 AM10:44 AM11:25 AM11:50 AM | 24 cm/s14.2 cm/s11.2 cm/s2.0 cm/s | EbbEbbEbbEbb  |  |
| ***Core* - Time** | **Smell** | **Texture** | **Color** | **Composition** |
| 10:38 AM | MudSoilMetallic | CrumblyStickyCreamyRough | RustBrownTan White | RocksFurRootsSandSoil |
| 11:05 AM | Rusty SoilMud | SmoothColdCrumblyStickyRough | Red-OrangeRustDark BrownWhite | FurRocksRootsClayDirt/Soil |
| 11:30 AM | MudSandRustyMetallic | DrySoftSmoothMoistSquishyCrumbly | BrownMaroonRust | SandRocksClayMud |
| 5:58 PM | Muddy | SandyRough | Brown | MudRocks |