Chesapeake Monitoring Cooperative

Tidal Field Data Sheet

Site Name & # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lat\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Long \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_/\_\_\_\_\_\_/\_\_\_\_\_\_ Start Time (military time) \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Rainfall (mm last 48 hrs) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Monitors & Group Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- | --- | --- |
| **Parameter** | **Method Used**  (Circle Applicable) | **Calibration**  Pre / Post Sampling | | **Measurement**  1st / 2nd / 3rd Replicate  or Circle observation | | |
| Weather Conditions (cloud cover) |  | | | Clear / Partly Cloudy  Cloudy / Fog or Haze | | |
| Tide Condition | High / Outgoing (Ebb) Low / Incoming (Flood) | | |
| Water Color | Clear / Milky / Muddy  Oil slick / Other | | |
| Air Temperature (°C) | Armored Classic / Digital / Probe | Verified? Y / N | |  |  |  |
| pH | Kit / Probe / ColorpHast Strips |  |  |  |  |  |
| Conductivity (µS/cm) | Probe |  |  |  |  |  |
| TDS (mg/L) | Probe |  |  |  |  |  |
| Turbidity (JTU) | LaMotte 7519 |  | |  |  |  |
| Water Clarity (cm) | Secchi Disk / Turbidity Tube |  | | |
| Phosphate (mg/L) | Hanna Digital Checker | Pre only: | |  |  |  |
| Orthophosphate (mg/L) | Hach PO-19 224800  Hanna HI 38061 |  | |  |  |  |
| Nitrate (mg/L) | Hach NI-14 1416100 / LaMotte 3110  LaMotte 3354 |  | |  |  |  |

**Use this chart to determine if your two replicates are within range of each other. If not, perform a third test.**

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| --- | --- |
| **Parameter** | **Acceptable Range** |
| Temperature | Armored (+/- 1° C) | Digital (+/- 0.5° C ) |
| Dissolved Oxygen Sodium Thiosulfate Check | Only perform 1 test. If <9.4 or >10 mg/L, do a second test. If both tests are not within 0.4 mg/L of each other, do not measure DO. |
| Dissolved Oxygen | +/- 0.6 mg/L |
| pH | +/- 0.5 SU for kits | +/- 0.2 SU for probes | +/- 1 SU for strips |
| Salinity / TDS / Conductivity | ± 2% FS |
| Nitrate | Low range (0–1 mg/L) = +/- 0.1 mg/L  Mid range (1–10 mg/L) = +/- 1 mg/L |
| Phosphate | +/- 0.04 mg/L |
| Turbidity | +/- 5 JTU |

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| **Water Column Profile Data** | **Water Temperature (°C)** | | | **Salinity (ppt)** | | | | **Dissolved Oxygen (mg/L)** | | | | |
| Type of device (circle one) | Armored / Digital / Probe | | | Refractometer / Probe | | | | Winkler Titration / Probe | | | | |
| Calibration Check Pre/Post | Verified? Y / N | | |  | |  | |  | | |  | |
| **Sample Depth (m)** | **Rep 1** | **Rep 2** | **Rep 3** | **Rep 1** | **Rep 2** | | **Rep 3** | **Rep 1** | | **Rep 2** | | **Rep 3** |
| Surface sample depth \_\_\_\_\_\_\_ |  |  |  |  |  | |  |  |  | | |  |
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| Total depth \_\_\_\_ |  | | |  | | | |  | | | | |
| **Sample was collected using a bucket (check one): [ ] Yes [ ] No** | | | | | | | | | | | | |
| **Sample was collected from: [ ] bridge [ ] boat [ ] dock [ ] shoreline [ ] wade in** | | | | | | | | | | | | |

**Notes:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Total Time Spent Monitoring:**(Includes travel to and from monitoring site; equipment preparation; sample collection; water’s edge time; and time spent filling out data sheets. Round to the nearest 15 min):

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hours: \_\_\_\_\_\_\_\_\_\_ Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hours: \_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hours: \_\_\_\_\_\_\_\_\_\_ Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hours: \_\_\_\_\_\_\_\_\_

**Lead Monitor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_**

Once datasheets have been entered in the database, send original forms to your coordinator or:

Alliance for the Chesapeake Bay

Attn: Chesapeake Monitoring Coop

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Richmond, VA 23225