|  |  |
| --- | --- |
|  **Sonde Deployment/Retrieval Field Sheet** | Last Revision 15 Nov 2018 |
|  |  |  |  |  |  |
| **Station name/ID:** |  |  |  |  |  |
| **Deviation from station:** |  |  |  |  |  |
| **Sonde #:** |   | **Model:** |  |   |   |
| **Staff at deployment:** |   |   |   |   |   |
| **Assessment unit:** |   |   |   |   |   |
| **Water Quality Standards segment:** | **20.6.4.** |   | **ALU:** |  |   |
|  |  |  |  |  |  |
| **Location description:** |  |   |   |   |   |
| **Lat/Long:** |   |   |   | **GPS Accuracy: ±** |
| **DO Field Cal:** |   | mm Hg | mg/L |  | oC |
| **Date/time deployed:** |   |   |   |  |  |
| **Sonde file name:** |   |   |   |   |  |
|  |  |  |  |  |  |
|  |   |   |   |   |   |
| **Staff at retrieval:** |   |   |   |   |  |
| **Date/time retrieved:** |   |   |   |   |  |
| **Condition at time of retrieval:** | **□ Submerged □ Buried □ Exposed □**  | **Other (Please explain)** |
|  |  | **Length (ft)** | **Date removed** | **Staff** |
| **Anchor** |  Rebar T-post  Cable/float  Other (specify) |  2  6 3 4  8 |  Not removed |  |
| Additional comments: |  |  |  |  |  |
|  |  |  |  |  |  |
| **Archive file name:** |  |  |  |  |  |
| Cross section sketch: |  | **Plan view sketch:** |  |  |
|   |   |   |   |   |   |
|   |   |  |  |  |   |
|   |   |  |  |  |   |
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|   |   |  |  |  |   |
|  |  |  |  |  |  |
| Write good directions, draw a good site map, and note triangulation distances. |  |  |
| **Take photos from 2 angles (have someone point to or stand next to the sonde):** |  |
| PHOTO 1 Description |   |   |   |   |   |
| PHOTO 2 Description |   |   |   |   |   |
|  **SONDE CALIBRATION WORKSHEET** | Rev. 15 Nov 2018 |
| Sonde ID: |   | Date/Time: |  |  | Technician: |   |   |
| Project: |   |  | Battery Voltage or %: |  |  |
|  |  |  |  |  |  |
| **Dissolved Oxygen pre-deployment** | Barometric Pressure: mmHg | **Pass Criterion: ±5% Optical** |
|  | Initial Reading |  | Calibrated Reading |  | Temperature (oC) |  | Pass/ Fail |
|  | % | mg/L |  | % | mg/L |  |  |   |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |   |
|  |  DO Charge\* (RP): |  | (Range: 50 +/- 25) | DO Gain\*: \_\_\_\_\_\_\_\_\_\_\_\_ |  | (Range: 0.7 to 1.4) |  |
|  ODO Gain\*: |  | (Range: 0.25 to 1.25) | (Not Local Gain!!!) |  |
| **\***Record AFTER probe calibration. If not displayed, look in: Sonde Menu --> Advanced --> Calibration Constants |
|  |
| **Specific Conductance** | Calibration Constant: \_\_\_\_\_\_\_\_\_\_\_ |  |  **Pass Criterion: ± 5% ±1 µS/cm** |
|  | Standard Value (µS/cm) |  | Standard Lot # |  | Initial Reading (µS/cm) |  | Calibrated Reading (µS/cm) |  | Temp. (oC) |  | Pass/ Fail |
|  | 0 (Hydrolab) |  | Air |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **pH** |  |  |  |  |   **Pass Criterion: +/- 0.2 su** |
| Value (su) |  | Buffer Lot # |  | Initial Reading (su) |  | Calibrated Reading (su) |  | mV \* |  | Temp. (oC) |  | Range (mV) | Pass/Fail |
| 7 |  |  |  |   |  |   |  |   |  |  |  | (0 +/- 50) |   |
| 4 |  |  |  |   |  |   |  |   |  |  |  | (+180+/-50) |   |
| 10 |  |  |  |   |  |   |  |   |  |  |  | ( -180+/-50) |   |
| **\*Note:** Difference in mV between pH4 and pH 7, and pH 7 and pH 10 should be approximately 165 to 180 mV(ex. 165 mV - (-10) mV = 175 mv). If not, probe should be reconditioned and recalibrated. mV1(\_\_\_\_\_\_\_\_) – mV2(\_\_\_\_\_\_\_\_) = \_\_\_\_\_\_\_\_\_ mV |
| **Turbidity** |  |  |  | **Pass Criteria: see chart** |
| Value (NTU) |  | Standard Lot # |  | Initial Reading (NTU) |  | Calibrated Reading (NTU) |  | **Note:** YSI 6920V2 & 600OMS, Calibrate 0 NTU with probe guard in clear container | Pass/Fail |
| 0 |  | DI |  |   |  |   |  |   |
|  |  |  |  |   |  |   |  |   |
|  |  |  |  |   |  |   |  |   |
|  |  |  |  |  |  |  |  |  |  |  |
| **Calibration Verification** | Date/Time: |  |  | Technician: |  |  |
| **Dissolved Oxygen at Retrieval** |  | **Temperature (oC)** |  | **Pressure (mmHg)** |  | **DO Gain** |  | **QA Criteria** |  | **P/F or Qual.** |
| % | mg/L |  |  |  |  |  |  |  | Pass: ± 5% Interpolation: ± 30% |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Specific Cond. (µS/cm)** |  | **Standard Lot #** |  | **Reading (µS/cm)** |  | **Temp. (oC)** |  | **Pass**  |  | **Interpolation Range** |  | **P/F or Qual.** |
| 0 (Hydrolab) |  | Air |  |  |  |  | ±1 |  | ± 5 |  |  |
|  |  |  |  |  |  |  | ± 5% ±1 |  | ± 30% |  |  |
| **pH Value (su)** |  | **Buffer Lot #** |  | **Reading (su)** |  | **Temp. (oC)** |  | **mV** |  | **QA Criteria** |  | **P/F or Qual.** |
|  |  |  |  |  |  |  |  |  |  | Pass: ± 0.2Interpolation: ± 1.0 |  |   |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Turbidity Value (NTU)** |  | **Standard Lot #** |  | **Reading (NTU)** |  | **Pass**  |  | **Interpolation Range** |  | **P/F or Qual.** |
| 0 |  | DI |  |  |  | ± 1 | ± 10 |  |  |
| 126 YSI/100 In-Situ/100 Hydrolab |  |  |  |  |  | ± 5 | ± 30 |  |  |
| 1000 |  |  |  |  |  | ± 50 | ± 300 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |