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| **SONDE CALIBRATION WORKSHEET** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Rev. 2018July10 | | | | | | | | | | | | | | | | | | |
| Sonde ID: | | | | | | | |  | | | | | | | | | Date/Time: | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | Technician: | | | | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | |
| Project: | | | | | | | |  | | | | | | | | |  | | | | | | | | | Battery Voltage: | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Dissolved Oxygen** | | | | | | | | | | | | | | | | | Barometric Pressure: mmHg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **Pass Criteria: ± 2% RP, ±5% Optical** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | Initial Reading | | | | | | | | | | | | | | | | | | | | | | | | |  | | | Calibrated Reading | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | Temperature (oC) | | | | | | | | | | | | | | | |  | | | | | | Pass/ Fail | | | | | | |
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|  | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Specific Conductance** | | | | | | | | | | | | | | | | | | | | | | | | | | Calibration Constant:\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | **Pass Criteria: ± 5% ±1 µS/cm** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Standard Value (µS/cm) | | | | | | | | | | | | | | | |  | | Standard Lot # | | | | | | | | | | | | | | | |  | | | Initial Reading (µS/cm) | | | | | | | | | | | | | | | | | | | | |  | | | Calibrated Reading (µS/cm) | | | | | | | | | | | | | | | | | | | | | |  | | Temp. (oC) | | | | | | | | | | | | | | |  | | Pass/ Fail | | | |
|  | 0 *(Hydrolab)* | | | | | | | | | | | | | | | |  | |  | | | | | | | | | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | |  | |  | | | | | | | | | | | | | | |  | |  | | | |
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| **pH** | | | | |  | | | | | | | | | | | |  | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | **Pass Criteria: +/- 0.2 su** | | | | | | | | | | | | | | | | | | | | | | | |
| Value (su) | | | |  | | | | | Buffer Lot # | | | | | | | | |  | | | Initial Reading (su) | | | | | | | | | | | | | | |  | | | | Calibrated Reading (su) | | | | | | | | | | |  | | | | | | | mV \* | | | | | | | |  | | | | | | | | Temp. (oC) | | | | | | | |  | | Range (mV) | | | | | | | | | | | | | | | | Pass/Fail | | | | | |
| 7 | | | |  | | | | |  | | | | | | | | |  | | |  | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | |  | | | | | | |  | | | | | | | |  | | | | | | | |  | | | | | | | |  | | (0 +/- 50) | | | | | | | | | | | | | | | |  | | | | | |
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| 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 | | | | | | | | | | | | | |
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| **Calibration Verification** | | | | | | | | | | | | | | | | | | | | | | | | | | | | Date/Time: | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | Technician: | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | |
| Dissolved Oxygen | | | | | | | | | | | | | | | | | | | |  | | | Temperature (oC) | | | | | | | | | | | | | | | | | | | | | |  | | Pressure (mmHg) | | | | | | | | | | | | | | | | | | | |  | | | | | | | | DO Charge/Gain | | | | | | | | | | | | | |  | | | | | | P/F or LTD Qual. | | | | | | | | | |
| % | | | | | | | | | | | mg/L | | | | | | | | |  | |  | | | | | | | | | | | | | | | | | | | | | | |  | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | | | | | | | | | | |  | | | | | |  | | | | | | | | | |
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| Specific Conductance (µS/cm) | | | | | | | | | | | | | | | | | | | |  | | | | Standard Lot # | | | | | | | | | | | | | | |  | | | | | Reading (µS/cm) | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | |  | | | | Temp. (oC) | | | | | | | | | | |  | | | | | P/F or LTD Qual. | | | | | | | | | |
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| pH Value (su) | | | | | | | | | | | | | | | | | | | |  | | | | Buffer Lot # | | | | | | | | | | | | | | |  | | | | | Reading (su) | | | | | | | | | | | | | | | |  | | | | mV | | | | | | | | | | |  | | | | Temp. (oC) | | | | | | | | | | |  | | | | | P/F or LTD Qual. | | | | | | | | | |
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| Turbidity Value (NTU) | | | | | | | | | | | | | | | | | | | |  | | | | Standard Lot # | | | | | | | | | | | | | | |  | | | | | Reading (NTU) | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | |  | | | |  | | | | | | | | | | |  | | | | | P/F or LTD Qual. | | | | | | | | | |
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| 126 YSI (100 HL) | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |  | | | | |  | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | |  | | | |  | | | | | | | | | | |  | | | | |  | | | | | | | | | |
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| **SONDE CALIBRATION WORKSHEET** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | | | | | | |  | | | | | | | | | **Post Calibration Rapid Pulse DO Sensor Output Test** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | |
| Disable Wait For DO. Turn off handset (650MDS). Wait 1 minute, turn handset on and enter "Run". DO % Sat. **must** start reading with a high value and descend to the calibration value in 1 to 2 minutes. **If it does not, reject.** **Note:** Disregard the first two readings as they may be affected by the warm-up process. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | | | | | | |  | | | | | | | | | Accept  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | Reject  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | See note in comments | | | | | | | | | | | | | | | | | | | | | | | |
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| **Maintenance** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **Yes** | | | | | | | | **No** | | | | | | | | | | | **Note** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rapid Pulse Membrane Changed? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | | | |  | | | | | | | | If yes, run probe at least 15 mins before calibration. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROX Wiper parks ~180 degrees from optic port? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | | | |  | | | | | | | |  | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROX Wiper Changed? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | | | |  | | | | | | | |  | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turbidity Wiper parks ~180 degrees from optic port? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | | | |  | | | | | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turbidity Wiper Changed? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | | | |  | | | | | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | | | | | | |  | | | | | | | | |  | | | | | | | | | **Calibration Comments** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | |
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**QA Criteria:**

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| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Standard | | Standard Value | In-Calibration Range | | Linear Interpolation Range  (Max Allowable  Limits) |
| Temperature, °C | NIST Traceable Thermometer | | Ambient Temperature | ± 0.5 | | ± 2 |
| Conductivity µS/cm | Standard Solution | | 1413, 8974, 10000 | ± 5% ±1 | | ± 30% |
| Conductivity µS/cm  Hydrolab only | Air | | 0 | ± 1 µS/cm | | ± 5 µS/cm |
| Dissolved Oxygen, % | Saturated Air | | 100 | RP ±2%  Optical ±5% | | ± 30% |
| pH, SU | Buffer Solution | | 4, 7, 10 | ± 0.2 | | ± 1 |
| Turbidity, NTU | DI Water | | 0 | ± 1 | | ± 10 |
| Standard Solution | | 100 (HL), 126 (YSI) | ± 5 | | ± 30 |
| 1000 | ± 50 | | ± 300 |
| Parameter | | Corrected  Qualifier (LTD only) | | | Rejected  Qualifier | |
| Temperature, °C | | **CT** | | | **RT** | |
| Conductivity, µS/cm | | **CSC** | | | **RSC** | |
| Dissolved Oxygen, % | | **C%** | | | **R%** | |
| Dissolved Oxygen, mg/L | | **CDO** | | | **RDO** | |
| pH | | **CPH** | | | **RPH** | |
| Turbidity, NTU | | **CY** | | | **RY** | |