

# CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: Stitch RQ: 2020-11-02-30 Project: LDRMaker

- Notes: (1) Always wait for meter to stabilize before recording any readings.  
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).  
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 10/14/2020

| DO              | Name       | Date    | Time CT-ET | Temp °C | Baro-meter mmHg | D.O. Chart mg/L | Meter D.O. mg/L | % DO  | Probe Charge | Probe Gain | Pass / Fail | Lab / Field |
|-----------------|------------|---------|------------|---------|-----------------|-----------------|-----------------|-------|--------------|------------|-------------|-------------|
| DEP SOP FT 1500 |            |         |            |         |                 |                 |                 |       |              |            |             |             |
| Calibr.         | J.P. Marsh | 11/3/20 | 739        | 21.2    | 769             | 8.9             | 8.95            | 101.2 | —            | 1.02       | (P) F       | (L) F       |
| ICV             | J          | 11/3/20 | 740        | 21.4    | 769             | 8.9             | 8.95            | 101.2 | —            | 1.02       | (P) F       | (L) F       |
| CCV             | J.P. Marsh | 11/3/20 | 1550       | 21.9    | 768             | 8.8             | 8.83            | 100.9 | —            | —          | (P) F       | (L) F       |
| CCV             |            |         |            |         |                 |                 |                 |       |              |            | P / F       | L / F       |

DO Acceptance criteria from Table  $\pm 0.3$  mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

| Spec. Cond. FT 1200 | Name       | Date    | Time CT-ET | Lot #   | Expir. Date | Standard $\mu$ mhos/cm | Meter Reading $\mu$ mhos/cm | Pass / Fail | Lab / Field |
|---------------------|------------|---------|------------|---------|-------------|------------------------|-----------------------------|-------------|-------------|
| Calibr.             | J.P. Marsh | 11/3/20 | 741        | 200902B | 9/21        | 1000                   | 1000                        | (P) F       | (L) F       |
| ICV                 | J          | 11/3/20 | 742        | 200902A | 9/21        | 100                    | 102.5                       | (P) F       | (L) F       |
| CCV                 | J.P. Marsh | 11/3/20 | 1551       | 191025A | 11/20       | 1413                   | 1414                        | (P) F       | (L) F       |
| CCV                 |            |         |            |         |             |                        |                             | P / F       | L / F       |

Conductivity Acceptance criteria  $\pm 5\%$

| pH DEP SOP FT 1100 | Name       | Date    | Time CT-ET | Lot #   | Expir. Date | pH Buffer SU | Temp °C | Meter reading SU | mV     | Pass / Fail | Lab / Field |
|--------------------|------------|---------|------------|---------|-------------|--------------|---------|------------------|--------|-------------|-------------|
| Calibr.            | J.P. Marsh | 11/3/20 | 743        | 2001C31 | 1/22        | 7.           | 22.5    | 7.01             | -50.8  | (P) F       | (L) F       |
| Calibr.            | J          |         | 744        | 2006B06 | 5/22        | 4.           | 22.6    | 4.00             | 129.3  | (P) F       | (L) F       |
| Calibr.            | J          |         | 745        | 2002911 | 8/21        | 10.          | 22.2    | 10.03            | -216.7 | (P) F       | (L) F       |
| ICV                | J.P. Marsh | 11/3/20 | 748        | 2006B06 | 5/22        | 4.           | 22.5    | 3.97             | 128.4  | (P) F       | (L) F       |
| ICV                |            |         |            |         |             |              |         |                  |        |             |             |
| CCV                |            |         |            |         |             |              |         |                  |        |             |             |
| CCV                |            |         |            |         |             |              |         |                  |        |             |             |

pH Acceptance criteria  $\pm 0.2$  SU; mV pH 7 Range 0  $\pm$  50; mV are recorded: slope from 7 to 10

mV pH 4 Range +180  $\pm$  50; slope from 4 to 7

mV pH 10 Range -180  $\pm$  50; (both must be between 165 and 180 mV)

meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)  
 complete daily Calibr. & ICV below and list date of last quarterly depth verification: Secchi Disk Line / Sonar Unique ID:                      ; Date of last verification:                       
 what will be used? (circle one)

| Depth Sensor     | Name       | Date    | Time CT-ET | Calibrated Value (0.00 or Offset), meters | ICV Value, meters | Pass / Fail | Lab / Field |
|------------------|------------|---------|------------|-------------------------------------------|-------------------|-------------|-------------|
| by Calibration & | J.P. Marsh | 11/3/20 | 753        | 0.00                                      | 0.00              | (P) F       | (L) F       |
| ure mode in air  |            |         |            |                                           |                   |             |             |

two decimal places. Round numbers  $\leq 4$  down,  $\geq 5$  up. ICV acceptance criteria  $\pm 5\%$  or  $\pm 0.05$ m, whichever is greater.