

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

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

Meter YSI #13 RQ- 2017-07-31-18 Project Guille Lakes

- Notes: (1) Numbers  $\leq 4$ , are rounded down; numbers  $\geq 5$  are rounded up (e.g., 5.15 becomes 5.2).  
 (2) Always wait for meter to stabilize before recording any readings.  
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site \_\_\_\_\_

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification \_\_\_\_\_

| DO<br>DEP SOP<br>FT 1500 | Name       | Date   | Time<br>CT-ET | Temp  | D.O.<br>Chart<br>mg/L | Meter<br>D.O.<br>mg/L | % DO | Probe<br>Charge | Probe<br>Gain | Pass<br>/ Fail | Lab<br>/ Field |
|--------------------------|------------|--------|---------------|-------|-----------------------|-----------------------|------|-----------------|---------------|----------------|----------------|
| Calibr.                  | N. Fredlin | 8/8/17 | 0730          | 24.18 | 8.40                  | 8.39                  | 100  | 66.5            | 0.97          | P              | L              |
| ICV                      | ↓          | 8/8/17 | 0738          | 24.10 | 8.40                  | 8.40                  | 99.9 | 66.5            | 0.97          | P              | L              |
| CCV                      | ↓          | 8/8/17 | 1500          | 25.75 | 8.15                  | 8.02                  | 98.4 | 65.5            | 0.97          | P              | L              |
| CCV                      |            |        |               |       |                       |                       |      |                 |               |                |                |

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

| Spec.<br>Cond.<br>FT 1200 | Name       | Date   | Time<br>CT-ET | Lot #    | Expir.<br>Date | Standard<br>$\mu$ mhos/cm | Meter<br>Reading<br>$\mu$ mhos/cm | Pass<br>/ Fail | Lab<br>/ Field |
|---------------------------|------------|--------|---------------|----------|----------------|---------------------------|-----------------------------------|----------------|----------------|
| Calibr.                   | N. Fredlin | 8/8/17 | 0740          | 170315B  | 3/18           | 1,000                     | 1,000                             | P              | L              |
| ICV                       | ↓          | ↓      | 0745          | 170315A  | 3/18           | 100                       | 105                               | P              | L              |
| CCV                       | ↓          | ↓      | 1505          | 14132016 | 12/17          | 1413                      | 1408                              |                |                |
| CCV                       |            |        |               |          |                |                           |                                   |                |                |

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria  $\pm 5\%$

| pH<br>DEP SOP<br>FT 1100 | Name       | Date   | Time<br>CT-ET | Lot #   | Expir.<br>Date | pH<br>Buffer<br>SU | Meter<br>reading<br>SU | mV    | Pass<br>/ Fail | Lab<br>/ Field |
|--------------------------|------------|--------|---------------|---------|----------------|--------------------|------------------------|-------|----------------|----------------|
| Calibr.                  | N. Fredlin | 8/8/17 | 0750          | 1607A12 | 6/18           | 7.0                | 7.0                    | -24.8 | P              | L              |
| Calibr.                  |            |        | 0752          | 2702743 | 1/19           | 4.0                | 4.0                    | 129.4 | P              | L              |
| Calibr.                  |            |        | 0800          | 2611998 | 5/18           | 10.0               | 10.0                   |       |                |                |
| ICV                      |            |        | 1510          | 1607A12 | 6/18           | 7.0                | 6.81                   | -24.8 | P              | L              |
| CCV                      |            |        |               |         |                |                    |                        |       |                |                |
| CCV                      |            |        |               |         |                |                    |                        |       |                |                |

Report pH with one decimal place; pH Acceptance criteria  $\pm 0.2$  SU; mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly) Date of Last Depth Verification \_\_\_\_\_

| Depth Sensor<br>(Daily) | Name | Date | Time<br>CT-ET | Zero the<br>Sensor | ICV Value | Pass /<br>Fail | Lab /<br>Field |
|-------------------------|------|------|---------------|--------------------|-----------|----------------|----------------|
| Pressure mode<br>in air |      |      |               | 0.000              |           |                |                |

ICV acceptance criteria  $\pm 5\%$  or  $\pm 0.05$ m, whichever is greater