

# 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 ID:

Y51H 3

RQ:

2017-11-20-08

Project:

LSJR SALT

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.

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

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

10/17

| 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.                  | J. Parrish | 11/30/17 | 945           | 22.30 | 8.70                  | 8.70                  | 100  | 47.             | -             | <input checked="" type="checkbox"/> F | L / F          |
| ICV                      | J          | J        | 947           | 22.3  | 8.7                   | 8.7                   | 100  | 46.1            | -             | <input checked="" type="checkbox"/> F | L / F          |
| CCV                      | J          | J        | 920           | 22.5  | 8.66                  | 8.36                  | 96.5 | 45.1            | -             | <input checked="" type="checkbox"/> F | L / F          |
| CCV                      |            |          |               |       |                       |                       |      |                 |               | P / F                                 | L / F          |

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

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

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

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.                   | J. Parrish | 11/30/17 | 948           | 17072018 | 5/18           | 100                       | 100                               | <input checked="" type="checkbox"/> F | L / F          |
| ICV                       | J          | J        | 950           | 14132017 | 12/17          | 1413                      | 1381                              | <input checked="" type="checkbox"/> F | L / F          |
| CCV                       | J          | J        | 1321          | 1124820  | 6/18           | 24820                     | 24750                             | <input checked="" type="checkbox"/> F | L / F          |
| CCV                       |            |          |               |          |                |                           |                                   | P / F                                 | L / F          |

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.                  | J. Parrish | 11/30/17 | 951           | 2708B60 | 7/19           | 7.0                | 7.0                    | 12.4  | <input checked="" type="checkbox"/> F | L / F          |
| Calibr.                  | J          | J        | 952           | 2710816 | 9/19           | 4.0                | 4.0                    | 15.5  | <input checked="" type="checkbox"/> F | L / F          |
| Calibr.                  | J          | J        | 953           | 2706D31 | 12/18          | 10.0               | 10.0                   | 78.7  | <input checked="" type="checkbox"/> F | L / F          |
| ICV                      | J          | J        | 955           | 2708B60 | 7/19           | 7.0                | 7.08                   | 26.4  | <input checked="" type="checkbox"/> F | L / F          |
| CCV                      | J          | J        | 1322          | 2706D31 | 12/18          | 10.0               | 10.01                  | 187.4 | <input checked="" type="checkbox"/> F | L / F          |
| CCV                      |            |          |               |         |                |                    |                        |       | P / F                                 | L / F          |

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  $-180 \pm 50$ ;

If mV are recorded: slope from 7 to 10 \_\_\_\_\_, slope from 4 to 7 \_\_\_\_\_ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification

| Depth Sensor<br>(Daily Calibration &<br>ICV) | Name       | Date     | Time<br>CT-ET | Calibrated<br>Value (0.00 or<br>Offset), meters | ICV Value<br>meters | Pass /<br>Fail | Lab /<br>Field |
|----------------------------------------------|------------|----------|---------------|-------------------------------------------------|---------------------|----------------|----------------|
| Pressure mode in air                         | J. Parrish | 11/30/17 | 1000          | 0.00                                            |                     | P / F          | L / F          |

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

COMMENTS:

BD 12/19/17