

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 #3 RQ- 2017-10-02-45 Project Suwannee 3

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 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

5/31/17

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	<u>AKalmbacher</u>	<u>10-3-17</u>	<u>0850</u>	<u>23.8</u>	<u>8.44</u>	<u>8.45</u>	<u>100</u>	<u>53.3</u>	<u>0.8305</u>		
ICV		<u>↓</u>	<u>0900</u>	<u>24.0</u>	<u>8.41</u>	<u>8.40</u>	<u>99.7</u>	<u>53.3</u>	<u>0.8305</u>	<u>P</u>	<u>L</u>
CCV	<u>AKalmbacher</u>	<u>↓</u>	<u>1525</u>	<u>24.1</u>	<u>8.40</u>	<u>8.35</u>	<u>99.4</u>	<u>52.3</u>	<u>0.8305</u>	<u>P</u>	<u>L</u>
CCV											

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

DO Acceptance criteria from Table ± 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. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	<u>AKalmbacher</u>	<u>10-3-17</u>	<u>0905</u>	<u>170720A</u>	<u>8/2018</u>	<u>1,000</u>	<u>1000</u>		
ICV		<u>↓</u>	<u>0907</u>	<u>170720B</u>	<u>8/2018</u>	<u>100</u>	<u>101</u>	<u>P</u>	<u>L</u>
CCV	<u>AKalmbacher</u>	<u>↓</u>	<u>1530</u>	<u>170720A</u>	<u>8/2018</u>	<u>1,000</u>	<u>1009</u>	<u>P</u>	<u>L</u>
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	<u>AKalmbacher</u>	<u>10-3-17</u>	<u>0910</u>	<u>2707656</u>	<u>6/19</u>	<u>7.0</u>	<u>7.00</u>	<u>-23.9</u>		
Calibr.		<u>↓</u>	<u>0912</u>	<u>2707722</u>	<u>6/19</u>	<u>4.0</u>	<u>4.00</u>	<u>147.3</u>		
Calibr.		<u>↓</u>	<u>0914</u>	<u>2704798</u>	<u>9/18</u>	<u>10.0</u>	<u>9.99</u>	<u>-190.5</u>		
ICV		<u>↓</u>	<u>0915</u>	<u>2707656</u>	<u>6/19</u>	<u>7.0</u>	<u>7.02</u>	<u>-23.2</u>	<u>P</u>	<u>L</u>
CCV	<u>AKalmbacher</u>	<u>↓</u>	<u>1532</u>	<u>2707656</u>	<u>6/19</u>	<u>7.0</u>	<u>7.03</u>	<u>-24.1</u>	<u>P</u>	<u>L</u>
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 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

3/31/2017

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass/ Fail	Lab/ Field
Pressure mode in air	<u>AKalmbacher</u>	<u>10-3-17</u>	<u>0917</u>	<u>0.000</u>	<u>0.000</u>	<u>P</u>	<u>L</u>

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

BD 10/9/17

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 # 4**

RQ- **2017-10-02-10**

Project **LSTP Lakes**

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 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 **5/31/17**

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	J. Parrish	10/3/17	721	22.9	8.60	8.59	100	53.3		P	L
ICV	J	10/3/17	722	23.0	8.58	8.57	99.9	53.3		P	L
CCV	B. Davis	10/3/17	1432	21.8	8.77	8.99	102.6	53.3		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 ± 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. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	J. Parrish	10/3/17	723	170720A	8/18	1000	1000	P	L
ICV	J	10/3/17	724	81472017	3/18	147	147	P	L
CCV	B. Davis	10/3/17	1436	170720A	8/18	1000	1000	P	L
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	J. Parrish	10/3/17	730	2707656	6/19	7.0	7.00	267	P	L
Calibr.	J	10/3/17	734	2707722	6/19	4.0	4.00		P	L
Calibr.	J	10/3/17	735	2704798	9/18	10.0	10.00	148.7	P	L
ICV	J	10/3/17	736	2707656	6/19	7.0	7.00	267	P	L
CCV	B. Davis	10/3/17	1443	2707722	6/19	4.0	3.96	153.8	P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 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 **5/31/17**

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass/ Fail	Lab/ Field
Pressure mode in air	J. Parrish	10/3/17	739	0.000	0.0	P	L

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