

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 name.

Meter QUANTA #1 RQ- 2017-06-19-15 Project Quiver 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 L-6

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 06-20-17

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>POBman</u>	<u>06-21-17</u>	<u>0720</u>	<u>23.8</u>	<u>8.44</u>	<u>8.44</u>	<u>100.0</u>	<u>—</u>	<u>—</u>	<u>Pass</u>	<u>LAB</u>
ICV	<u>V</u>	<u>06-19-15</u>	<u>0725</u>	<u>23.8</u>	<u>8.44</u>	<u>8.42</u>	<u>100.0</u>	<u>—</u>	<u>—</u>	<u>Pass</u>	<u>LAB</u>
CCV	<u>B Drvis</u>	<u>6-27-17</u>	<u>1650</u>	<u>23.9</u>	<u>8.43</u>	<u>8.42</u>	<u>99.8</u>	<u>—</u>	<u>—</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>POBman</u>	<u>06-21-17</u>	<u>0727</u>	<u>170315B</u>	<u>03-2018</u>	<u>1000</u>	<u>1000</u>	<u>Pass</u>	<u>LAB</u>
ICV	<u>V</u>	<u>V</u>	<u>0729</u>	<u>170315A</u>	<u>03-2018</u>	<u>100</u>	<u>99</u>	<u>Pass</u>	<u>LAB</u>
CCV	<u>B Drvis</u>	<u>6-27-17</u>	<u>1652</u>	<u>170315B</u>	<u>03-18</u>	<u>1000</u>	<u>989</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>POBman</u>	<u>06-21-17</u>	<u>0730</u>	<u>1607A12</u>	<u>06-2018</u>	<u>7.0</u>	<u>7.00</u>	<u>—</u>	<u>Pass</u>	<u>LAB</u>
Calibr.	<u>V</u>	<u>V</u>	<u>0745</u>	<u>2610F42</u>	<u>10-2018</u>	<u>4.0</u>	<u>4.00</u>	<u>—</u>	<u>Pass</u>	<u>LAB</u>
Calibr.	<u>V</u>	<u>V</u>	<u>0750</u>	<u>2611998</u>	<u>05-2018</u>	<u>10.0</u>	<u>9.91</u>	<u>—</u>	<u>Pass</u>	<u>LAB</u>
ICV	<u>B Drvis</u>	<u>6/27/17</u>	<u>1659</u>	<u>1607AR</u>	<u>6/18</u>	<u>7.0</u>	<u>7.12</u>	<u>—</u>	<u>P</u>	<u>L</u>
CCV										
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 N/A

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

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

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 name.

Meter YSI #3 RQ- 2017-06-24-04 Project Ichetucknee

- 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 _____

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.	N. Fredrich	6/27/17	0640	23.39	8.53	8.52	100.0	56.3	0.79	P	L
ICV	↓	↓	0642	23.40	8.51	8.53	100.0	56.3	0.79	P	L
CCV	J. Mann	6/27/17	1345	23.2	8.55	16.0	117	58.4		F	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	N. Fredrich	6/27/17	0645	170315B	3/18	1,000	1,000	P	L
ICV	↓	↓	0647	18147207	12/17	147	150	P	L
CCV	J. Mann	6/27/17	1340	170315A	3/18	100	101	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.	N. Fredrich	6/27/17	0650	2702047	2/19	7.0	7.0	-22.6	P	L
Calibr.	↓	↓	0652	2610F42	10/18	4.0	4.0	137.4	P	L
Calibr.	↓	↓	0655	2611998	5/18	10.0	9.9	-177.2	P	L
ICV	↓	↓	0700	2702047	2/19	7.0	7.0	-22.6	P	L
CCV	J. Mann	6/27/17	1341	2611998	10/18	10.0	10.1	-184.0	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 _____

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

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