

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 QUANTA #1 RQ- 08-22-14 Project SCI-ITC-Substation

- 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 10/7/2016

	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.	P O'Connor	08/24/16	0725	23.5	8.49	8.45	100.0	—	—	Pass	Lab
ICV	✓	✓	0755	23.6	8.48	8.45	100.1	—	—	Pass	Lab
CCV	A Kalmbacher	8/24/16	1600	25.5	8.18	8.08	100.2	—	—	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.

	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	100um	08/24/16	0736	160616A	06/2017	1000	1000	Pass	Lab
ICV	✓	✓	0738	151113A	11/2016	100	100	Pass	Lab
CCV	A Kalmbacher	✓	1603	160616A	06/2017	1000	996	P	L
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter Reading mV	Pass / Fail	Lab / Field
Calibr.	P O'Connor	08/24/16	0740	2606E04	06/2018	7.0	7.00	Pass	Lab
Calibr. ICV	✓	✓	0747	2602556	01/2018	4.0	3.85	Pass	Lab
Calibr. CCV	✓	✓	0750	2810A88	04/2017	10.0	10.00	Pass	Lab
ICV	A Kalmbacher	8/24/16	1607	2606E04	06/2018	7.0	7.01	P	L
CCV									
CCV									

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;
 +180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 50;
 and 180mV

mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range

Slope from 7 to 10 and 4 to 7 must be between 165

Depth (Quarterly)

Date of Last Depth Verification N/A

Depth Sensor (Daily)	Name	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)

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Meter YSI #3 RQ- 2016-08-22-15 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 Lab

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 7/1 /2016

DO FDEP 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.	B. Davis	8/24/16	743	23.65	8.46	8.46	100	-	-	P	L
ICV	↓	↓	744	23.7	8.46	8.46	99.8	61.4	0.97979	P	L
CCV	A. Kalmbacher	↓	1400	24.8	8.29	8.25	99.5	61.4	0.97979	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.									
ICV	B. Davis	8/24/16	747	160616A	6/17	1000	980	P	L
CCV	A. Kalmbacher	↓	1402	151113A	11/2016	100	102	P	L
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

pH FDEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.						7.0				
Calibr.						4.0				
Calibr.						10.0				
ICV	B. Davis	8/24/16	752	2606604	7/18	7.0	7.01	-13.6	P	L
CCV	A. Kalmbacher	↓	1405	2606604	7/18	7.0	7.00	-30	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 180mV

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