

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 ID:

YSI 71

RQ:

2018-03-12-68

Project:

Craig Co Cont'

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

Lab

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

1/18

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.	Brian Davis	3/20/18	825	23.3	8.53	8.53	100	/	1.05	P/F	L/F
ICV			827	23.3	8.53	8.54	99.9	/	1.05	P/F	L/F
CCV	AKalmbacher	3-20-18	1130	23.1	8.56	8.64	101.4	/	1.05	P/F	L/F
CCV										P/F	L/F

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.	B-D	3/20/18	829	171129A	12/18	1000	1000	P/F	L/F
ICV		3/20/18	830	171129B	12/18	100	102	P/F	L/F
CCV	AKalmbacher	3-20-18	1135	171129A	12/2018	1,000	1,005	P/F	L/F
CCV								P/F	L/F

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.	B-D	3/20/18	835	2711C81	11/19	7.0	7.0	-2.8	P/F	L/F
Calibr.			838	2711517	10/19	4.0	4.0	160.2	P/F	L/F
Calibr.			843	2708A21	1/19	10.0	9.98	-161.2	P/F	L/F
ICV			845	2711C81	11/19	7.0	7.01	-1.7	P/F	L/F
CCV	AKalmbacher	3-20-18	1138	2708A21	1/19	10.0	10.07	-165.7	P/F	L/F
CCV									P/F	L/F

pH Acceptance criteria ± 0.2 SU;

mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 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 (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	B-D	3/20/18 846	846	0.00	0.00	P/F	L/F

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

COMMENTS:

QC/Scanned BP 4/2/18 JP 3/30/18

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 ID:

Hydrolab Quanta

RQ-

2018-03-19-13

Project:

Ocklawaha Lakes

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

1/2018

DO DEP SOP	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
FT 1500				22.4	8.67						
Calibr.	P. O'Connor	03-20-18	0713	22.3	8.64	8.65	100.0	—	—	P/F	L/F
ICV			0725	22.5	8.66	8.63	100.0	—	—	P/F	L/F
CCV	P. O'Connor	03-20-18	1407	22.9	8.59	8.36	97.6	—	—	P/F	L/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 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. 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.	P. O'Connor	03-20-18	0739	171129A	12-2018	1000	1000	P/F	L/F
ICV			0740	171129B	12-2018	100	97	P/F	L/F
CCV	P. O'Connor	03-20-18	1410	171129A	12-2018	1000	1002	P/F	L/F
CCV								P/F	L/F

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.	P. O'Connor	03-20-18	0727	2711281	11-2019	7.0	7.00	—	P/F	L/F
Calibr.			0730	2711517	10-2019	4.0	4.00	—	P/F	L/F
Calibr-ICV			0732	2708A21	01-2019	10.0	9.94	—	P/F	L/F
ICV-CCV	P. O'Connor	03-20-18	1415	2711281	11-2019	7.0	7.00	—	P/F	L/F
CCV			1417	2711517	11-2019	4.0	4.11	—	P/F	L/F
CCV			1420	2708A21	01-2019	10.00	10.03	—	P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50; mV pH 4 Range $\pm 180 \pm 50$; mV pH 10 Range -180 ± 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 (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						P/F	L/F

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

COMMENTS:

QC/Scanned BP 3/23/18 JP 3/22/18