

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: SWD

RQ: 2022-02-28-12

Project: Smp Riv

- 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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 01/03/2022

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro- meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	J. Yodanis	02/28/22	0725	21.2	761	9.0	8.95	102.5	-	1.041	P/F	L/F
ICV	J		0730	21.3	761	8.9	8.94	101.1	-	-	P/F	L/F
CCV	J		1420	24.5	760	8.3	8.42	101.3	-	-	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 (Pro DSS 0.75 to 1.50); 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.	J. Yodanis	02/28/22	0735	1111994	11/23	1000	1043	P/F	L/F
ICV	J		0735	1111994	11/23	1000	1016	P/F	L/F
ICV	J		0740	2109K87	02/23	100	104.9	P/F	L/F
CCV	J		1425	2109A45	08/23	50K	51398	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	J. Yodanis	02/28/22	0745	213013	04/23	7.02	21.8	7.01	-37.7	P/F	L/F
Calibr.	J		0750	214220	06/23	4.00	21.9	3.95	141.9	P/F	L/F
Calibr.	J		0755	210276	02/23	10.04	21.6	9.99	-212.5	P/F	L/F
ICV	J		0800	210276	02/23	10.00	21.6	10.02	-	P/F	L/F
CCV	J		1435	213013	04/23	7.0	21.7	7.06	-	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 10 174.9, slope from 4 to 7 179.6 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / **NO** / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) **Secchi Disk Line** / Sonar Unique ID: #3; Date of last verification: 01/03/2022

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:

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: EXO

RQ- 2022-02-24-37

Project: JMP RUN 15

Lake OTS + Bahaka Blooms

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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 1/3/22

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	M. Maloney	2-28-22	8:10	22.5	761.0	8.7	8.72	100.2	-	1.09	P / F	L / F
ICV	M. Maloney	2-28-22	8:15	22.59	761.7	8.7	8.73	101.0	-	-	P / F	L / F
CCV	M. Maloney	2-28-22	15:30	22.09	759.6	8.7	8.97	102.9	-	-	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 (Pro DSS 0.75 to 1.50); 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.	M. Maloney	2-28-22	8:20	1111994	11/23	1000	1001	P / F	L / F
ICV	M. Maloney	2-28-22	8:25	2109K87	01/23	100	99.5	P / F	L / F
CCV	M. Maloney	2-28-22	15:35	2017074	07/22	500	507	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	M. Maloney	2-28-22	8:20	213013	04/23	7.01	22.1	7.01	-31.7	P / F	L / F
Calibr.	M. Maloney	2-28-22	8:30	214220	06/23	4.00	22.0	4.00	141.2	P / F	L / F
Calibr.	M. Maloney	2-28-22	8:34	210210	02/23	10.04	22.0	10.04	-207.8	P / F	L / F
ICV	M. Maloney	2-28-22	8:35	210210	02/23	10.00	21.99	10.03	-206.3	P / F	L / F
CCV	M. Maloney	2-28-22	15:50	213013	04/23	7.00	19.5	7.07	-33.4	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 10 176.1, slope from 4 to 7 172.9 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Sonar Unique ID: Saber; Date of last verification: 01/03/2022

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: