

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 ID: PRO PSS

RQ: 2018-04-24-06

Project: Rice & Mill

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

7/2018

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 Parish	9/27/18	725	23.4	8.53	8.51	100	—	—	P/F	L/F
ICV	J	9/27/18	726	23.5	8.50	8.47	99.8	—	—	P/F	L/F
CCV	C Reben	9/27/18	1431	24.4	8.55	8.32	99.7	—	—	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	J Parish	9/27/18	729	180711A	7/19	1000	1000	P/F	L/F
ICV	J Parish	9/27/18	732	180521A	4/19	100	100	P/F	L/F
CCV	C Reben	9/27/18	1435	180711A	7/19	1000	1010	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.	J Parish	9/27/18	735	2803645	3/20	7.0	7.01	-38.5	P/F	L/F
Calibr.	J		737	280475	6/20	4.0	4.00	151.9	P/F	L/F
Calibr.	J		740	2712855	5/17	10.0	10.00	194.7	P/F	L/F
ICV	J Parish		742	28069756	1/20	4.0	3.92	151.9	P/F	L/F
CCV	C Reben	9/27/18	1442	2803645	3/20	7.0	6.97	-24.9	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	C Reben	9/27/18	1445	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:

BDQC/Scanned 10/8/18 JP 9/28/18

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: YSI 3 RQ- 2018-09-24-58 Project: Chesapeake Bay Mon.

- 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 _____

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.	A Kalmbacher	9-27-18	0830	23.4	8.51	8.51	100		1.0888	P/F	L/F
ICV			0834	23.4	8.51	8.51	100		1.0888	(P)F	(L)F
CCV	A Kalmbacher	9-27-18	1310	24.0	8.41	8.42	100.1		1.0888	(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.	A Kalmbacher	9-27-18	0835	180711A	7/2019	11000	11000	P/F	L/F
ICV			0837	180321A	4/2019	100	102	(P)F	(L)F
CCV	A Kalmbacher	9-27-18	1312	180711A	7/2019	11000	1001	(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.	A Kalmbacher	9-27-18	0840	2803E45	3/2020	7.0	6.99	-20.0	P/F	L/F
Calibr.			0943	2806915	4/2020	4.0	4.00	112.5	P/F	L/F
Calibr.			0845	2712B55	6/2019	10.0	10.00	-172.9	P/F	L/F
ICV			0848	2803E45	3/2020	7.0	7.15	-17.5	(P)F	(L)F
CCV	A Kalmbacher	9-27-18	1315	2803E45	3/2020	7.0	7.18	-19.4	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 10 152.4, slope from 4 to 7 162 (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	A Kalmbacher	9-27-18	0950	0.000	0.001	(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:

BF Scanned/QC JP 10/5/18