

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

Meter ID: Arya

RQ: 2019-04-08-53

Project: SMP-Stuart

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

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 3/07/19

DO	Name	Date	Time	Temp	DO	DO	DO	DO	DO	DO	DO	DO	DO	DO
Calibr.	Alex Miranda	4/10/19	8:30	22.5	750.7	8.54	8.55	98.8	✓	1.03	P/F	L/F		
ICV	"	4/10/19	8:32	22.5	750.7	8.54	8.55	98.8	✓	1.03	P/F	L/F		
CCV	Kristene B.	4/10/19	15:34	23.0	750	8.57	8.51	99.1	✓	1.03	P/F	L/F		
CCV														

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

DO	Name	Date	Time	DO	DO	DO	DO	DO	DO	DO	DO	DO	DO	DO
Calibr.	Alex Miranda	4/10/19	8:34	2901833	12/20	1000	1000	1000	1000	1000	1000	1000	1000	1000
ICV	"	"	8:36	2802665	12/20	1000	1000	1000	1000	1000	1000	1000	1000	1000
CCV	Kristene B.	4/10/19	15:38	2708490	09/19	50,000	49215	49215	49215	49215	49215	49215	49215	49215
CCV														

Conductivity Acceptance criteria $\pm 5\%$

DO	Name	Date	Time	DO	DO	DO	DO	DO	DO	DO	DO	DO	DO	DO
Calibr.	Alex Miranda	4/10/19	8:38	186926	10/20	7.	22.8	7.0	20.9	20.9	20.9	20.9	20.9	20.9
Calibr.	"	"	8:40	187188	11/20	4.	23.5	4.0	157.8	157.8	157.8	157.8	157.8	157.8
Calibr.	"	"	8:42	187680	12/20	10.	22.9	10.0	195.5	195.5	195.5	195.5	195.5	195.5
ICV	"	"	8:44	187680	12/20	10.00	22.9	10.0	194.8	194.8	194.8	194.8	194.8	194.8
CCV	Kristene B.	4/10/19	15:40	"	"	4.00	21.5	4.08	157	157	157	157	157	157
CCV														

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 10 175 slope from 4 to 7 179 (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: 03/07/19

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____ Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Alex Miranda	4/10/19	8:48	0.0	0.0	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: Hodor

RQ: 2019-04-08-51

Project: SMP - Palm Beach 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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 6/130/19

Do	Name	Date	Time	Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp
1000													
Calibr.	Kristene B.	4/10/19	8:00	22.7	750	8.62	8.53	98.8	/	1.043	P/F	L/F	
ICV	"	"	8:02	22.6	750	8.55	8.55	98.9	/	1.043	P/F	L/F	
CCV	Drew Liddick	4/10/19	1500	24.8	750	8.64	8.19	98.9	/	1.043	P/F	L/F	
CCV						8.29							

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

Do	Name	Date	Time	Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp
1000													
Calibr.	Kristene B.	4/10/19	8:05	29.0	1833	12/20	1000	1600	P/F	L/F			
ICV	"	"	8:07	28.2	1833	12/20	100	103.2	P/F	L/F			
CCV	Drew Liddick	4/10/19	1504	29.0	1833	12/20	1000	1002	P/F	L/F			
CCV													

Conductivity Acceptance criteria $\pm 5\%$

Do	Name	Date	Time	Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp
1000													
Calibr.	Kristene B.	4/10/19	8:10	186	926	10/20	7.01	23.0	7.01	-33.9	P/F	L/F	
Calibr.	"	"	8:12	187	188	11/20	4.00	23.4	4.00	142	P/F	L/F	
Calibr.	"	"	8:14	187	680	12/20	10.62	23.0	10.02	-24.7	P/F	L/F	
ICV	"	"	8:16	"	"	"	10	23.0	10.03	-213.4	P/F	L/F	
CCV	Drew Liddick	4/10/19	1508	187	188	11/20	4.00	21.4	4.07	138.6	P/F	L/F	
CCV										141.3	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 10 180, slope from 4 to 7 176 (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: 6/130/19

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____ Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time	Calibrated value (0.00 or Offset), meters	ICV value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Kristene B.	4/10/19	8:20	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: