

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- 2019-08-19-37

Project: SMP-Kevin

- 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 07/30/19

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.	Kristene Taylor	08/21/19	9:04	26.8	758	8.14	8.14	99.8	/	1.04	P/F	L/F
ICV	"	"	9:05	25.4	758	8.20	8.19	99.8	/	1.04	P/F	L/F
CCV	Kristene Taylor	08/21/19	15:19	27.3	757	7.92	7.92	99.7	/	1.04	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.	Kristene Taylor	08/21/19	9:09	2901833	12/20	1000	1000	P/F	L/F
ICV	"	"	9:10	1902934	01/21	100	103	P/F	L/F
CCV	Kristene Taylor	08/21/19	15:23	2901833	12/20	500	1000	P/F	L/F
CCV						1000		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.	Kristene Taylor	08/21/19	9:12	188510	01/21	7.01	23.3	7.01	-65.5	P/F	L/F
Calibr.	"	"	9:15	192462	05/21	4.00	23.3	4.00	111	P/F	L/F
Calibr.	"	"	9:18	191040	03/21	10.	23.3	10.01	231	P/F	L/F
ICV	"	"	9:19	"	"	10.	23.3	10.00	232	P/F	L/F
CCV	Kristene Taylor	08/21/19	15:35	"	"	4	23.4	4.01	112	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 $\pm 180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 166, slope from 4 to 7 176.5 (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: 07/30/19

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 CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Kristene Taylor	08/21/19	9:21	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:

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

Meter ID: Arya

RQ: 2019-06-10-52

Project: Biscayne

Boldly "X"
box if there
qualified dot
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- 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 07/30/19

ID#	Name	Date	Time	Temp	Baro	DO	Meter	%DO	Probe	Probe	Pass
DEP-SOP			CT-ET	°C	mmHg	mg/L	DO: mg/L		Charge	Gain	Fail
Calibr.	Kristene Taylor	08/21/19	8:39	24.6	757	8.35	8.35	99.7		1.04	P/F
ICV	"	"	8:40	24.5	757	8.34	8.36	100.1		1.04	P/F
CCV	met self	8/21/19	18:50	28.7	756		7.66	99.2			P/F
CCV											P/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	Name	Date	Time	Lot #	Expir	Standard	Meter	Pass	Lab
cond.			CT-ET		Date	umhos/cm	Reading umhos/cm	Fail	Field
Calibr.	Kristene Taylor	08/21/19	8:44	2901833	12/20	1000	1000	P/F	L/F
ICV	"	"	8:46	1902934	01/21	100	100.3	P/F	L/F
CCV	met self	8/21/19	18:35	1640091	8/19	100,000	101031	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH	Name	Date	Time	Lot #	Expir	pH	Temp	Meter	mV	Pass	Lab
DEP-SOP			CT-ET		Date	Buffer SU	°C	reading SU		Fail	Field
Calibr.	Kristene Taylor	08/21/19	8:52	188510	01/21	7.01	23.1	7.01	-27.7	P/F	L/F
Calibr.	"	"	8:54	192462	05/21	4.00	23.2	4.00	-127.4	P/F	L/F
Calibr.	"	"	8:56	191040	03/21	10.02	23.2	10.02	-201	P/F	L/F
ICV	"	"	8:58	191040	03/21	10	23.2	10.12	-200	P/F	L/F
CCV	met self	8/21	18:45	192460	8/21	4.0	28.9	4.01	126	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 10 173.3, slope from 4 to 7 174.7 (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: 07/30/19

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

Depth Sensor	Name	Date	Time	Calibrated	ICV Value,	Pass /	Lab /
(Daily Calibration & ICV)			CT-ET	Value (0.00 or Offset), meters	meters	Fail	Field
Pressure mode in air	Kristene Taylor	08/21/19	8:01	0.00	6.00	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: