

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- 2019-09-23-55

Project: SMP-Stuart

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	09/24/19	8:15	24.4	753	8.35	8.35	99.2	✓	1.05	(P) F	(L) F
ICV	"	"	8:16	24.43	753	8.36	8.35	99.9	✓	1.05	(P) F	(L) F
CCV	Matt Sed	09/24/19	16:00	22.5	751.6	8.67	8.59	94.6	✓	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 (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.	Kristene Taylor	09/24/19	8:19	2901933	12/20	1000	1000	(P) F	(L) F
ICV	"	"	8:20	1902934	01/21	100	102	(P) F	(L) F
CCV	Matt Sed	09/24/19	16:00	1808891	4/20	5000	5005	(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.	Kristene Taylor	09/24/19	8:22	188510	01/21	7.01	23.7	7.01	-73.5	(P) F	(L) F
Calibr.	"	"	8:24	192462	05/21	4.	24.0	4.00	102	(P) F	(L) F
Calibr.	"	"	8:26	191040	03/21	10.	23.8	10.00	-250	(P) F	(L) F
ICV	"	"	8:27	191040	03/21	10	23.8	10.00	-249.3	(P) F	(L) F
CCV	Matt Sed	09/24/19	16:05	192462	5/21	4	24.7	4.00	107	(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 10 176.5, slope from 4 to 7 175.5 (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	09/24/19	8:33	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)

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

Meter ID: Arya

RQ: 2019-09-23-14

Project: SMP-Kevin Run

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 07/10/19

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	09/24/19	8:54	25.9	753	8.12	8.12	99.2	✓	1.04	P/F	L/F
ICV	"	"	8:55	25.7	753	8.15	8.14	99.6	✓	1.04	P/F	L/F
CCV	Kristene Taylor	09/24/19	15:00	27.2	752	7.94	7.93	99.9	✓	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	09/24/19	8:58	2901833	12/20	1000	1000	P/F	L/F
ICV	"	"	9:00	1902934	01/21	100	100	P/F	L/F
CCV	Kristene Taylor	09/24/19	15:03	2901833	12/20	1000	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	09/24/19	9:03	188510	01/21	7.01	24.0	7.01	-24.6	P/F	L/F
Calibr.	"	"	9:06	192462	05/21	4.	23.8	4.00	136	P/F	L/F
Calibr.	"	"	9:09	191040	03/21	10.	23.9	10.00	-200	P/F	L/F
ICV	"	"	9:10	191040	03/21	10	23.9	10.01	-202	P/F	L/F
CCV	Kristene Taylor	09/24/19	15:12	"	"	4	22.6	4.01	137.3	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 10 175.4, slope from 4 to 7 160.2 (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: 07/10/19

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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	09/24/19	9:12	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: