

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: 153484

RQ: 2020-03-16-50

Project: 2020 SMP

- 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 01/20

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.	Ben Harden	04/02/20	0751	20.8	758.1	8.9	8.93	99.8		1.057	Ⓟ / F	Ⓟ / F
ICV	"	"	0908	19.6	758.2	9.1	9.19	100.2			Ⓟ / F	Ⓟ / F
CCV	"	"	1118	18.7	758.8	9.3	9.54	102.4			Ⓟ / F	Ⓟ / F
CCV											P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); 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.	Ben Harden	04/02/20	0753	191120D	12/20	1000	1001	Ⓟ / F	Ⓟ / F
ICV	"	"	0755	2908C81	08/21	100.0	102.0	Ⓟ / F	Ⓟ / F
CCV	"	"	1120	2908C81	08/21	100.0	101.1	Ⓟ / F	Ⓟ / 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.	Ben Harden	04/02/20	0802	1906F88	12/20	7.02	19.5	-18.4	7.02	Ⓟ / F	Ⓟ / F
Calibr.	"	"	0804	200221A	09/21	4.06	20.3	4.00	5.1	Ⓟ / F	Ⓟ / F
Calibr.	"	"	0806	191120C	08/21	10.06	20.1	10.06	184.2	Ⓟ / F	Ⓟ / F
ICV	"	"	0807	"	"	10.06	20.1	10.02	-18.4	Ⓟ / F	Ⓟ / F
CCV	"	"	1122	200221A	09/21	4.00	20.1	4.01	155.9	Ⓟ / F	Ⓟ / 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 10 165.8, slope from 4 to 7 76.5 (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: 01/20

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	Ben Harden	04/02/20	0745	0.000	0.000	Ⓟ / F	Ⓟ / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: