

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: Hedder

RQ: 2021-01-18-47

Project: 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 10/28/20

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.	Andrew Luerding	01/27/21	8:30	22.3	757.8	8.7	8.65	99.7	-	1.06	Ⓟ / F	Ⓟ / F
ICV	"	"	8:32	22.4	757.7	8.7	8.65	99.8	-	1.06	Ⓟ / F	Ⓟ / F
CCV	"	"	1340	23.1	756.1	8.5	8.51	99.9	-	1.06	Ⓟ / F	Ⓟ / 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 mos/cm	Meter Reading μ mos/cm	Pass / Fail	Lab / Field
Calibr.	Andrew Luerding	01/27/21	8:37	1007002	07/2022	1000	999	Ⓟ / F	Ⓟ / F
ICV	"	"	8:40	2006488	05/2022	100	108	P / Ⓟ	Ⓟ / F
sev ICV	"	"	8:50	2007676	07/2022	100	99.5	Ⓟ / F	Ⓟ / F
CCV	"	"	1344	1907081	07/21	100,000	100920	Ⓟ / F	Ⓟ / 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.	Andrew Luerding	01/27/21	8:54	202114	05/2022	7.0	23.1	7.01	-14.6	Ⓟ / F	Ⓟ / F
Calibr.	"	"	8:56	200052	02/2022	4.0	23.1	4.08	161.4	Ⓟ / F	Ⓟ / F
Calibr.	"	"	9:02	201473	05/2022	10.0	22.8	9.98	-192.3	Ⓟ / F	Ⓟ / F
ICV	"	"	9:04	201473	05/2022	10.0	22.8	10.0	-190.8	Ⓟ / F	Ⓟ / F
CCV	"	"	1348	200052	02/2022	4.0	22.5	4.08	162.7	Ⓟ / F	Ⓟ / F
CCV	"	"	"	"	"	"	"	3.97	"	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 -177.7, 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: 10/28/20

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	Andrew Luerding	01/27/21	9:07	0.00	0.00	Ⓟ / 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:

New 100 μ mos/cm standard on second ICV