

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: Cheney

RQ: 2019-05-06-16

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 5/14/19

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.		5/14/19	725	24.0	761.5	8.42	8.44	100.2			P/F	L/F
ICV	Bu. Pas water	5/20/19	728	24.0	761.5	8.42	8.44	100.3			P/F	L/F
CCV	S Meyer	5/20/19	1706	23.0	759.2	8.6	8.71	101.5			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.		5/14/19	730	2904942	3/21	1,000	1,000	P/F	L/F
ICV	Bu. Pas water	5/20/19	732	2902E32	2/21	100	98.9	P/F	L/F
CCV	S Meyer	5/20/19	1710	2810C41	10/20	500	487.4	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.		5/14/19	735	186588	10/20	7.	23.5	7.06	-15.8	P/F	L/F
Calibr.	Bu. Pas	5/14/19	738	187188	11/20	4.	23.8	4.00	161.5	P/F	L/F
Calibr.	Bu. Pas	5/20/19	740	185490	9/20	10.	23.9	10.00	-19.4	P/F	L/F
ICV	Bu. Pas water	5/20/19	742	187188	11/20	4.0	23.3	3.99	163	P/F	L/F
CCV				186588	10/20	7.0				P/F	L/F
CCV	S Meyer	5/20/19	1713	185490	09/20	10.0	23.2	10.01	-193.4	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 10 178, 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: 5/14/19

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						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: