

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: Pro Mouts

RQ: 2019-03-11-63

Project: Corn Creek CM

- 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 12/26/18

DO	Name	Date	Time	Temp	Bare	D.O.	Meter	% DO	Probe	Probe	Pass	Lab
DEP SOP			CT-ET	°C	meter	Chart	D.O.		Charge	Gain	/	/
FT 1500					mmHg	mg/L	mg/L				Fail	Field
Calibr.	BARRINGTON	3/12/19	0711	24.7	759.0	8.31	8.31	99.9	→	1.035	P/F	L/F
ICV	↓	↓	0713	24.8	758.9	8.29	8.30	100.1	→	→	P/F	L/F
CCV	BARRINGTON	3/12/19	1935	24.3	757.8	8.37	8.44	100.6	→	→	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.	Name	Date	Time	Lot #	Expir.	Standard	Meter	Pass	Lab
Cond.			CT-ET		Date	umhos/cm	Reading	/	/
FT 1200							umhos/cm	Fail	Field
Calibr.	BARRINGTON	3/12/19	0715	2809D50	9/20	10000	10000	P/F	L/F
ICV	↓	↓	0717	2811B60	11/20	50,000	50,128	P/F	L/F
CCV	BARRINGTON	3/12/19	1938	2808E90	8/20	1000	1019	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	Batter	°C	Reading		/	/
FT 1100						SU		SU		Fail	Field
Calibr.	BARRINGTON	3/12/19	0719	187861	11/20	2.99	25.6	7.00	-22.6	P/F	L/F
Calibr.	↓	↓	0721	187827	11/20	4.01	26.1	4.01	155.7	P/F	L/F
Calibr.	↓	↓	0723	186877	10/20	10.00	25.9	9.99	-198.1	P/F	L/F
ICV	↓	↓	0725	187827	11/20	4.01	25.8	3.96	→	P/F	L/F
CCV	BARRINGTON	3/12/19	1939	186877	10/20	10.01	24.9	10.10	→	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 10 175.5, slope from 4 to 7 178.3 (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:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: DEEP BLUE; Date of last verification: 12/26/18

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						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: