

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:

Bog 7

RQ:

2018-11-26-153

Project:

Cat mont

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

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.	Gray Smorek	11/29/18	0740	24.65	760	8.32	8.32	99.9			P/F	L/F
ICV	"	11	0750	24.7	760	8.31	8.31	100.0			P/F	L/F
CCV	S. COFAR	12/4/18	1515	23.49	760	8.42	8.38	98.2			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.	Gray Smorek	11/29/18	0738	180522B	06/19	10,000	10,004	P/F	L/F
ICV	"	11/24/18	0739	2804A90	04/20	500	511	P/F	L/F
CCV	S. COFAR	12/4/18	1510	271127	11/19	50,000	49,988	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.	Gray Smorek	11/29/18	0755	181415	03/20	6.917	24.86	7.00	-24.4	P/F	L/F
Calibr.	"	"	0758	183216	07/20	4.01	24.82	4.00	148.3	P/F	L/F
Calibr.	"	"	0759	185490	09/20	10.01	24.72	10.02	-202.3	P/F	L/F
ICV	"	"	0802	183218	07/20	4.01	24.75	4.01	148.7	P/F	L/F
CCV	S. COFAR	12/4/18	1512	185490	09/20	10.01	24.74	10.04	-200.4	P/F	L/F
CCV							24.74			P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50; mV pH 4 Range +180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 50;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (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: Deeper Blue; Date of last verification: 8/20/18

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:

J-QUALIFIED

PH NOT CCV'D

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Meter ID:

1245

RQ:

2018-11-26-03

Project:

CM

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

- 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

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.	S. COFORZ	12/4/18	0705	25.42	760	8.20	8.26	100.0	53.3		P/F	L/F
ICV	"	"	0707	24.70	760	8.31	8.34	100.2	53.3		P/F	L/F
CCV	S. COFORZ	12/4/18	1450	25.38	760	8.22	8.24	100.9	55.3		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.	S. COFORZ	12/4/18	0710	1805223	06/19	1000	1000	P/F	L/F
ICV	"	"	0712	2803F43	3/20	1000	1001	P/F	L/F
CCV	S. COFORZ	12/4/18	1454	2805222	06/19	1000	1000	P/F	L/F
CCV				2711C27	11/19	5000	49,980	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.	S. COFORZ	12/4/18	0715	181455	03/20	6.997	24.85	7.40	-12.1	P/F	L/F
Calibr.	"	"	0716	183218	07/20	4.010	24.85	4.00	148.1	P/F	L/F
Calibr.	"	"	0718	185490	09/20	10.013	24.83	10.00	-175.1	P/F	L/F
ICV	"	"	0720	183218	07/20	4.00	24.65	4.01	143.3	P/F	L/F
CCV										P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50; mV pH 4 Range +180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 50;
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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
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COMMENTS: