

2019-06-17-11 D.O. Monitoring

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

Meter ID:

Chenry

RQ:

2019-06-10-40

Project:

Smp

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

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.	Ben Pasquale	6/19/19	711	23.6	761.3		8.50	100.2	-	1.0158	P/F	L/F
ICV	Ben Pasquale	6/19/19	712	23.6	761.4		8.50	100.2	-		P/F	L/F
CCV	H. Sprinkle	6/19/19	1504	23.5	760.3	8.5	8.51	100.1	-		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.	Ben Pasquale	6/19/19	717	2904942	3/21	1000	1000	P/F	L/F
ICV	Ben Pasquale	6/19/19	719	2909E32	2/21	100	103.3	P/F	L/F
CCV	H. Sprinkle	6/19/19	1510	2810C41	12/20	500	501	P/F	L/F
CCV			1512	2709B98	09/2019	50000	49987	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 Pasquale	6/19/19	722	188510	1/21	7.	23.4	7.00	-18	P/F	L/F
Calibr.	Ben Pasquale	6/19/19	725	187188	11/20	4.	23.8	4.00	165	P/F	L/F
Calibr.	Ben Pasquale	6/19/19	728	185490	9/20	10.	23.9	10.00	-193	P/F	L/F
ICV	Ben Pasquale	6/19/19	732	187188	11/20	4.0	23.6	3.99	167	P/F	L/F
CCV	H. Sprinkle	6/19/19	1514	188510	01/21	7.0	23.7	7.04	-17.7	P/F	L/F
CCV			1516	185440	09/20	10.0	23.6	10.00	-193.2	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 _____, 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: 06/14/2019

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	H. Sprinkle	6/18/2019	0630	0.000	0.000	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: