

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

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

Meter ID: Chen 4

RQ: 2018-07-09-03

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.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

06/06/2018

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	K. Callahan	07/09	716	22.0	8.144	8.68	100	-	-	<u>P</u> /F	<u>D</u> /F
ICV	K. Callahan	07/09	717	22.1	8.727	8.74	100.1	-	-	<u>P</u> /F	<u>D</u> /F
CCV	K. Callahan	07/09	1441	23.8	8.450	8.52	100.8	-	-	<u>P</u> /F	<u>L</u> /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; 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.	K. Callahan	07/09	719	2803543	3/20	1000	1000	<u>P</u> /F	<u>D</u> /F
ICV	K. Callahan	07/09	721	4804E05	3/20	100	100.0	<u>P</u> /F	<u>D</u> /F
CCV	K. Callahan	07/09	1444	2707815	2/19	500	502	<u>P</u> /F	<u>L</u> /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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	K. Callahan	07/09	725	178054	11/19	7.0	7.00	-19.3	<u>P</u> /F	<u>D</u> /F
Calibr.	K. Callahan	07/09	727	180710	02/20	4.0	4.00	167.3	<u>P</u> /F	<u>D</u> /F
Calibr.	K. Callahan	07/09	730	178540	12/19	10.0	10.00	-191.0	<u>P</u> /F	<u>D</u> /F
ICV	K. Callahan	07/09	732	178540	12/19	10.0	9.95	-189.5	<u>P</u> /F	<u>D</u> /F
CCV	K. Callahan	07/09	1446	180710	02/20	4.0	4.04	+163.6	<u>P</u> /F	<u>D</u> /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 10 171.7, slope from 4 to 7 186.6 (both must be between 165 and 180 mV)

4-7 slope high

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth 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: