

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: 132237

RQ: 2018-02-26-18
7218-03-05-59

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 1/22/18

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.										P/F	L/F
ICV										P/F	L/F
CCV	J. P. H. S.	3/5/18	0728	21.8	8.777	8.7	99	—	1.01	⓪/F	⓪/F
CCV	J. H. Lode	3/5/18	01537	23.22	8.546	8.55	100.1	—	1.0312	⓪/F	⓪/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.	J. P. H. S.	3/5/18	0730	180124B	2/2019	1000	1000	⓪/F	⓪/F
ICV	↓	↓	0731	180124C	2/2019	10,000	9747	⓪/F	⓪/F
CCV	J. H. Lode	3/5/18	1542	180124D	Feb 2019	50,000	47619	⓪/F	⓪/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.	J. P. H. S.	3/5/18	0733	2610663	10/2018	7.0	7.00	-30.4	⓪/F	⓪/F
Calibr.	↓	↓	0735	4712981	11/2019	4.0	4.00	145.9	⓪/F	⓪/F
Calibr.	↓	↓	0737	2611A79	5/2018	10.0	10.00	-200.4	⓪/F	⓪/F
ICV	↓	↓	0738	2611A79	5/2018	10.0	10.00	—	⓪/F	⓪/F
CCV	X J. H. Lode	3/5/18	1545	2610663	Oct 2018	7.0	7.07	-32.0	⓪/F	⓪/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 10 170, slope from 4 to 7 176.3 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification 1/22/18

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	J. P. H. S.	3/5/18	0740	0.00	0.00	⓪/F	⓪/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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

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Meter ID: 113529 RQ: 2018-03-05-59 Project: SMP 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 1/29/18

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.										P / F	L / F
ICV										P / F	L / F
CCV	J. P. Ross	3/5/18	0751	22.3	8.613	8.64	99	-	1.03	☒ F	☒ F
CCV	J. P. Ross	3/5/18	1444	23.1	8.562	8.57	100	-	-	☒ F	☒ 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.	J. P. Ross	3/5/18	0753	180124B	2/2019	1000	1000	☒ F	☒ F
ICV	$\downarrow$	$\downarrow$	0755	180124C	2/2019	10,000	9719	☒ F	☒ F
CCV	J. P. Ross	3/5/18	1446	180124A	2/2019	100	98	☒ F	☒ 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.	J. P. Ross	3/5/18	0757	2610683	10/2018	7.0	7.0	-39.9	☒ F	☒ F
Calibr.	$\downarrow$	$\downarrow$	0759	4712981	11/2019	4.0	4.0	134.9	☒ F	☒ F
Calibr.	$\downarrow$	$\downarrow$	0801	2611A79	5/2018	10.0	10.0	-209.9	☒ F	☒ F
ICV	$\downarrow$	$\downarrow$	0802	2611A79	5/2018	10.0	10.0	-	☒ F	☒ F
CCV	J. P. Ross	3/5/18	1448	4712981	11/2019	4.0	4.0		☒ F	☒ 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 10 170.0, slope from 4 to 7 174.8 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes ☒ No ☐ 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: