

3/19/16

RQ-2016-03-07-25

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 name.

Meter ID:

AE3

Project:

SMP

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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

1/15/16

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.	T WIPPICK	3/9	0900	21.0	8.9	8.9	100	46.1	1.19	P	L
ICV		1	1	21.0	8.9	8.9	100			P	L
CCV	max 2d	3/9	1800	24.3	8.4	8.7	104	47.1		P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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 $\mu\text{mhos/cm}$	Meter Reading $\mu\text{mhos/cm}$	Pass / Fail	Lab / Field
Calibr.	T WIPPICK	3/9	0900	2602C02	2/1/8	1000	1000	P	L
ICV		1	1	2601533	12/1/7	100	102	P	L
CCV	T WIPPICK	3/9	1830	2602C02	2/1/8	1000	999	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1400	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	T WIPPICK	3/9	0900	150812	3/1/7	7.0	7.0	-17	P	L
Calibr.		1	1	153225	5/1/7	4.0	4.0	155	P	L
Calibr.		1	1	156700	10/1/7	10.0	10.0	-194	P	L
ICV		1	1	156900	10/1/7	10.0	10.0		P	L
CCV	T WIPPICK	3/9	1830	153225	5/1/7	4.0	4.1		P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;mV pH7 Range 0 $\pm$ 50;mV pH 4 Range +180 $\pm$ 50;mV pH 10 Range -180 $\pm$ 50;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

1/15/16

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	TW	3/9	0900	0.000	0.000	P	L

ICV acceptance criteria $\pm 5\%$ or $\pm 0.05\text{m}$, whichever is greater

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

RQ-2016-05-07-12

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

Meter ID: Lil Gus

Project: Trend + SMP

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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 12/15/15

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.	Brewster	3/9/16	736	21.4	8.8	8.8	100	48	1.2	P	L
ICV	Brewster	"	738	21.4	8.8	8.8	100			P	L
CCV				21.5							
CCV	Brewster	3/9/16	1701	21.4	8.1	8.2	102			P	F

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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.	Brewster	3/9/16	740	150819E	8/1/16	1000	1000	P	L
ICV	"	"	748	2601533	12/17	100	100	P	L
CCV	Brewster	3/9/16	1707	2602002	2/1/16	1000	1005	P	F
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer	Meter Reading	mV	Pass / Fail	Lab / Field
Calibr.	Brewster	3/9/16	741	150651	10/17	7.0	7.0	-33	P	L
Calibr.	"	"	743	153255	5/17	4.0	4.0	144	P	L
Calibr.	"	"	744	156700	10/17	10.0	10.0	-210	P	L
ICV	"	"	746	156700	12/17	10.0	10.0		P	L
CCV	Brewster	3/9/16	1704	158982	01/16	4.0	4.0		P	F
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification 01/15/16

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater