

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: **BOOP NON**

RQ- **2018-65-28-35**

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 **03/02/18**

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.	Leif Bowen	5/31/18	8:45	23.13	8.562	8.56	100.0	44.1	0.91052	☒ F	☒ F
ICV				23.13	8.562	8.57	100.1	45.1		☒ F	☒ F
CCV			13:40	23.19	8.546	8.43	98.6	44.1	0.91052	☒ F	☒ F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.	Leif Bowen	5/31/18	8:45	2707874	07/19	1000	1000	☒ F	☒ F
ICV				180301	03/19	100	99	☒ F	☒ F
CCV			13:40	180301	03/19	100	99	☒ 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.	Leif Bowen	5/31/18	8:45	172189	04/19	7.0	7.00	-20.3	☒ F	☒ F
Calibr.				176044	08/19	4.0	4.00	155.9	☒ F	☒ F
Calibr.				176507	09/19	10.0	10.00	-197.7	☒ F	☒ F
ICV				176044	08/19	4.0	4.00	156.1	☒ F	☒ F
CCV			13:40	176507	09/19	10.0	10.04	-199.6	☒ 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 **177.4**, slope from 4 to 7 **176.2** (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 _____

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:

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: BCHg 167

RQ- 2018-05-28-38

Project: BMAP

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

3/2/18

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.	T. Riordan	5/31/18	7:15	23.00	8.578	8.56	99.9	51.2	1.10324	P/F	L/F
ICV				23.01	8.578	8.57	100.0	51.2		P/F	L/F
CCV			1405	22.69	8.627	8.73	101.2	49.2	1.10324	P/F	L/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.	T. Riordan	5/31/18	7:15	270874	7/19	1000	1000	P/F	L/F
ICV				180301	3/19	100	99	P/F	L/F
CCV			1405	180301	3/19	100	100	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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	T. Riordan	5/31/18	7:15	172189	4/19	7.0	7.00	-28.5	P/F	L/F
Calibr.				176044	8/19	4.0	4.00	147.0	P/F	L/F
Calibr.				176507	09/19	10.0	10.00	-206.1	P/F	L/F
ICV				176044	8/19	4.0	4.00	147.1	P/F	L/F
CCV			1405	176507	09/19	10.0	10.03	-208.0	P/F	L/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 10 178.2, slope from 4 to 7 175.5 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes 1 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: