

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

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

Meter ID: DEP154181

RQ: 2019-01-14-28

Project: NASSAU EAST BOAT

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 10-10-18

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.	P. O'Connor	01-16-19	0714	20.2	264.3	9.05	9.09	100.4	-	-	P/F	L/F
ICV	✓	✓	0717	20.3	264.3	9.03	9.1	100.6	-	-	P/F	L/F
CCV	P. O'Connor	01-16-19	1640	17.2	73.2	9.62	9.77	101.6	-	-	P/F	L/F
CCV				76.2							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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	P. O'Connor	01-16-19	0720	181109	11-2019	1000	1000	P/F	L/F
ICV	✓	✓	0723	1807118	07-2019	100	103.2	P/F	L/F
CCV	P. O'Connor	01-16-19	1643	1470718	06-2019	147	152.2	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	P. O'Connor	01-16-19	0725	2809841	08-2020	7.00	21.6	7.06	34.1	P/F	L/F
Calibr.	✓	✓	0737	2810832	09-2020	4.00	22.0	4.00	145.0	P/F	L/F
Calibr.	✓	✓	0742	1806F51	12-2019	10.00	21.9	10.03	208.7	P/F	L/F
ICV	✓	✓	0745	2809841	08-2020	7.00	21.9	7.10	-36.8	P/F	L/F
CCV	P. O'Connor	01-16-19	1645	2810832	09-2020	4.00	22.2	4.03	142.7	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50; mV pH 4 Range +180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 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: 10-10-18

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	P. O'Connor	01-16-19	0750	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:

Printed by BTD QC/Scanned 1/28/19

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: YSI #3

RQ- 01-14-27

Project: Interlachen 1

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 10/2018

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.	C. Ruben	1-16-19	0748	20.7	8.96	8.99	100.3	-	-	<u>P</u> /F	L/ <u>F</u>
ICV	↓	↓	0752	20.7	8.96	8.99	100.3	-	-	<u>P</u> /F	L/ <u>F</u>
CCV	↓	↓	1420	17.8	9.50	9.51	100.2	-	-	<u>P</u> /F	L/ <u>F</u>
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.	C. Ruben	1-16-19	0755	181109	11/2019	1000	1002	<u>P</u> /F	L/ <u>F</u>
ICV	↓	↓	0757	180711B	7/2019	100	101	<u>P</u> /F	L/ <u>F</u>
CCV	↓	↓	1425	181109	11/2019	1000	1003	<u>P</u> /F	L/ <u>F</u>
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.	C. Ruben	1-16-19	0800	2809841	8/2020	7.0	7.04	25.5	<u>P</u> /F	L/ <u>F</u>
Calibr.	↓	↓	0804	2810832	9/2020	4.0	3.91	151.6	<u>P</u> /F	L/ <u>F</u>
Calibr.	↓	↓	0807	1806F51	12/2019	10.0	9.97	116.5	<u>P</u> /F	L/ <u>F</u>
ICV	↓	↓	0811	2809841	8/2020	7.0	7.02	-24.5	<u>P</u> /F	L/ <u>F</u>
CCV	C. Ruben	1-16-19		2810832	9/2020	4.0	4.03	148.5	<u>P</u> /F	L/ <u>F</u>
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 _____, slope from 4 to 7 _____ (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	C. Ruben	1-16-19	0815	0.00	0.00	<u>P</u> /F	L/ <u>F</u>

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

COMMENTS:

11/17/19 BP 1/28/19 QC/Scanned