

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 naap.

Meter ID: QUANTA #1 RQ: 2018-03-19-59 Project: NASSAU EAST

- 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 01-2018

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.	P O'Connor	03-29-18	0706	23.6	8.48	8.45	100.0	—	—	P/F	L/F
ICV	↓	↓	0720	23.6	8.48	8.45	100.0	—	—	P/F	L/F
CCV	P O'Connor	03-29-18	1533	24.4	8.35	8.47	80			P/F	L/F
CCV	P O'Connor	03-29-18	1537	24.4	8.35	8.36	100.4	—	—	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.	P O'Connor	03-29-18	0722	3221413	09-2018	1413	1413	P/F	L/F
ICV	↓	↓	0727	171129B	12-2018	100	97	P/F	L/F
CCV	P O'Connor	03-29-18	1540	1124820	06-2018	24,820	25,700	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.	P O'Connor	03-29-18	0735	2711C81	11-2019	7.0	7.00	—	P/F	L/F
Calibr.	↓	↓	0738	2711S17	10-2019	4.0	4.00	—	P/F	L/F
Calibr. ICV	↓	↓	0745	2708A21	01-2019	10.0	9.93	—	P/F	L/F
ICV CCV	P O'Connor	03-29-18	1543	2711C81	11-2019	7.00	7.01	—	P/F	L/F
CCV									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 _____, 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						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:

QC/Scanned BT 4/2/18 JP 4/2/18

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:

Y517

RQ:

2018-03-26-10

Project:

LSJZ SALT

- 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 1/2018

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.	J Burnish	3/29/18	737	22.1	8.72	8.72	100	—	—	P/F	L/F
ICV	↓	3/29/18	738	22.1	8.72	8.73	100	—	—	P/F	L/F
CCV	A Kalmbacher	3-29-18	1243	22.7	8.62	8.67	100.6			P/F	L/F
CCV									1.01932	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	J Burnish	3/29/18	742	171129A	12/18	1000	1000	P/F	L/F
ICV	↓	↓	745	1124620	6/18	24820	24734	P/F	L/F
CCV	A Kalmbacher	3-29-18	1245	171129A	12/2018	1.000	1025	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.	J Burn	3/29/18	749	270965	9/19	7.0	7.00	-5.9	P/F	L/F
Calibr.			751	2711517	10/19	4.0	4.00	183.1	P/F	L/F
Calibr.			753	2708421	1/19	10.0	10.00	121.2	P/F	L/F
ICV			855	2711517	10/19	4.0	3.91	164.2	P/F	L/F
CCV	A Kalmbacher	3-29-18	1250	2701C81	11/19	7.0	7.03	-6.0	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 10 177.1, slope from 4 to 7 169 (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	A Kalmbacher	3-29-18	0757	0.00	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:

QC/Scanned BD 4/2/18 JP 4/2/18