

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: YSI 700 RQ: 2018-01-22-13 Project: LSJR SW

- 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 Lab

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification 1/18

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.	J. P. Smith	1/24/18	715	22.0	8.74	8.75	100			P / F	L / F
ICV	J	2	717	22.0	8.74	8.76	100			P / F	L / F
CCV	A. Kambacher	1-24-18	1620	20.5	9.00	9.05	100.8	—	1.02588	☒ 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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	J. P. Smith	1/24/18	719	171129A	12/18	1000	1000	P / F	L / F
ICV	J	2	721	81472017	3/18	147	152	P / F	L / F
CCV	A. Kambacher	1-24-18	1622	171129A	12/18	998	998	☒ F	☒ F
CCV						1000		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. Smith	1/24/18	724	2708B60	7/19	7.0	7.00	25.2	P / F	L / F
Calibr.	J	2	726	2711517	10/19	4.0	3.97		P / F	L / F
Calibr.	J	2	730	2706P31	12/18	10.0	10.0	160	P / F	L / F
ICV	J. P. Smith	1/24/18	731	2708B60	7/19	7.0	7.06	30.6	P / F	L / F
CCV	A. Kambacher	1-24-18	1630	2711517	10/19	4.0	3.90	121.8	☒ 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 _____, 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	J. P. Smith	1/24/18	736	0.0	0.001	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 1/29/18

JP 1/26/18

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: QUANTA #1

RQ: 2018-01-15-23

Project: UEC1

- 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 01-10-18

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 O'Connor	01-24-18	0650	21.7	8.79	8.78	100.2			(P) F	(L) F
ICV			0655	21.1	8.79	8.79	100.3			(P) F	(L) F
CCV	P O'Connor	01-24-18	1445	22.0	8.74	8.82	101.5			(P) F	(L) F
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.	P O'Connor	01-24-18	0657	171129A	12-2018	1000	1000	(P) F	(L) F
ICV			0702	1703154	03-2018	100	99	(P) F	L / F
CCV	P O'Connor	01-24-18	1450	171129A	12-2018	1000	1001	(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	01-24-18	0705	2708B60	07-2019	7.0	7.00	—	(P) F	(L) F
Calibr.			0710	2711517	10-2019	4.0	4.00	—	(P) F	(L) F
Calibr.			0713	2706D31	12-2018	10.0	9.96	—	(P) F	(L) F
ICV	P O'Connor	01-24-18	1452	2708B60	07-2019	7.0	7.03	—	(P) F	(L) F
CCV				2711517	10-2019	4.0	4.02	—	(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:

pH millivolts are not available

Form effective October 1, 2017

BD QC/Scanned 1/29/18

JP 1/25/18