

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 600 PSS RQ: 2018-10-08-13 Project: SCF

- 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 10/18

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 Parnish	10/16/18	715	23.5	8.49	8.49	100	-	-	P/F	L/F
ICV	J	J	717	23.2	8.46	8.42	99.3	-	-	P/F	L/F
CCV	B Davis	10/16/18	1340	23.2	8.54	8.55	100.1	-	-	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.	J Parnish	10/16/18	722	180711A	7/19	1000	1000	P/F	L/F
ICV	J	J	725	1470718	12/18	147	154	P/F	L/F
CCV	B Davis	10/16/18	1342	180321A	4/19	100	103.3	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 Parnish	10/16/18	726	2803E45	3/20	7.0	7.01	26.7	P/F	L/F
Calibr.	J	J	727	2806975	8/20	4.0	4.01	144.4	P/F	L/F
Calibr.	J	J	728	2712855	6/19	10.0	10.00	1	P/F	L/F
ICV	J	J	729	2806975	6/20	4.0	3.96	148.2	P/F	L/F
CCV	B Davis	10/16/18	1345	2803E45	3/20	7.0	7.01	28.3	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	J Parnish	10/16/18	730	0.0	0.0	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:

BV QC/Scanned 10/22/18 JP 10/19/18

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

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Meter ID: YSI TR RQ: 2018-10-08-13 Project: LSJR West SCF

- 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 10-10-18

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	10-16-18	0730	24.1	8.40	8.40	100.0	—	—	(P) F	(L) F
ICV	✓	✓	0732	24.2	8.38	8.39	100.0	—	—	(P) F	(L) F
CCV	A Kalmbacher	10-16-18	1410	24.2	8.38	8.45	100.8	—	1.0275	(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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	P O'Connor	10-16-18	0735	180111A	07-19	1000	1000	(P) F	(L) F
ICV	✓	✓	0737	180321A	04-19	100	105	(P) F	(L) F
CCV	A Kalmbacher	10-16-18	1412	180711A	07/2019	1,000	996	(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	10-16-18	0740	2803E45	03-2020	7.0	7.00	-19.0	(P) F	(L) F
Calibr.	✓	✓	0743	2806975	06-2020	4.0	4.00	152.6	(P) F	(L) F
Calibr.	✓	✓	0748	2712B55	06-2019	10.0	10.01	-192.7	(P) F	(L) F
ICV	✓	✓	0752	2803E45	03-2020	7.0	7.03	-21.1	(P) F	(L) F
CCV	A Kalmbacher		1415	2803245	3/2020	7.00	7.01	-20.6	(P) F	(L) F
CCV			1417	2806975	06/2020	4.00	4.04	150.7	(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 10-10-18

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:

BD QC/Scanned 10/23/18