

767.3

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:

132237

RQ:

2018-10-01-50

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

8/27/18

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 / F	L / F
ICV										P / F	L / F
CCV	S. Shode	10/3/18	0807	24.45	8.45	8.46	101.3		1.03606	(P) / F	(L) / F
CCV	S. Shode	10/3/18	1500	22.78	8.69	8.72	101.8			(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.	S. Shode	10/3/18	0809	180517B	may '19	1000	1000	(P) / F	(L) / F
ICV	S. Shode	10/3/18	0811	180125B	Feb '19	100	102	(P) / F	(L) / F
CCV	S. Shode	10/3/18	1505	180125B	Feb '19	100	101	(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.	S. Shode	10/3/18	0813	1805E95	apr '20	7.0	7.00	-7.2	(P) / F	(L) / F
Calibr.			0815	2803729	Feb '20	4.0	4.00	169.6	(P) / F	(L) / F
Calibr.			0817	2804020	oct '19	10.0	9.99	179.5	(P) / F	(L) / F
ICV			0819	2803729	Feb '20	4.0	4.03	167.1	(P) / F	(L) / F
CCV		10/3/18	1507	1805E95	apr '20	7.0	7.05		(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 10 172.3, slope from 4 to 7 176.8 (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

4/19/18

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	S. Shode	10/3/18	0820	0.00	0.00	(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 are qualified data on this page.

Meter ID: 154179

RQ: 2018-09-24-12

Project: Snp Laurel 12.11

- 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 8/27/18

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 / F	L / F
ICV											P / F	L / F
CCV	J. P. Santos	10/3/18	0730	25.0	767.5	8.263	8.34	101	—	—	(P) F	(L) F
CCV	W. Butana	10/3/18	1525	27.0	700.2	8.02	8.03	100.7	—	—	(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.	J. P. Santos	10/3/18	0732	180517B	5/2019	1000	1000	(P) F	(L) F
ICV	↓	↓	0734	180525B	2/2019	100	101	(P) F	(L) F
CCV	W. Butana	10/3/18	1528	180525B	2/2019	100	104.3	(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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	J. P. Santos	10/3/18	0736	180519A	4/2020	7.	24.6	7.0	-28.6	(P) F	(L) F
Calibr.	↓	↓	0738	2803729	2/2020	4.	24.7	4.0	157.0	(P) F	(L) F
Calibr.	↓	↓	0740	2804020	10/2019	10.	24.5	10.0	-195.8	(P) F	(L) F
ICV	↓	↓	0742	2804020	10/2019	10.0	24.5	10.0	—	(P) F	(L) F
CCV	W. Butana	10/3/18	1533	2803729	2/2020	4.0	20.1	4.13	—	(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 10 167.2, slope from 4 to 7 185.6 (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: 8/27/18

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	J. P. Santos	10/3/18	0744	0.00	0.00	(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: