

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: **KEYS**

RQ: **2019-05-27-10**

Project: **SMP: BOM**

- 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

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.	Gary Smith	6/13	0732	24.70	760	8.3	8.34	100.3	31.8		P/F	L/F
ICV	"	"	0740	24.37	760	8.5	8.47	101.6	31.8		P/F	L/F
CCV	Miranda Carroll	"	1704	23.33	760	8.5	8.76	102.7			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 (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.	Gary Smith	06/13	0716	2809550	09/20	10,000	10,001	P/F	L/F
ICV	Gary Smith	06/13	0719	281260	11/20	50,000	49920	P/F	L/F
CCV	Miranda Carroll	"	0710	2904947	03/21	1,000	992	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.	Gary Smith	6/13	0723	191304	03/21	7.00	23.75	7.00	21.8	P/F	L/F
Calibr.	Gary Smith	6/13	0726	190072	01/21	4.00	24.44	4.00	162.0	P/F	L/F
Calibr.	Gary Smith	"	0729	190071	01/21	10.00	23.95	10.00	137.6	P/F	L/F
ICV	Gary Smith	6/13	0725	190072	01/21	4.00	24.36	4.00	166.5	P/F	L/F
CCV	Miranda Carroll	"	1716	190071	01/21	10				P/F	L/F
CCV	Nicole Reistad	06/14	0706	190071	01/21	10.013	24.60	10.15		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: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Deeper Blue Date of last verification: 12/26/18

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: