

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: **KEY 5**

RQ: **2019-05-27-46**

Project: **ALGAE SAMPLING**

- 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

03/19/2019

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.	M. DUGAN	06/03/19	1208	23.03	760	8.6	8.58	100			P/F	L/F
ICV	"	"	1207	23.02	760	8.6	8.61	100.5			P/F	L/F
CCV	M. DUGAN	06/03/19	1247	23.97	760	8.4	8.49	100.7			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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	M. DUGAN	06/03/19	1209	2904947	03/21	1000	1000	P/F	L/F
ICV	"	"	1211	2809050	09/20	10,000	9869	P/F	L/F
CCV	M. Carrell	6/3/19	1631	2811E60	11/20	50,000	49213	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.	M. DUGAN	06/03/19	1217	191304	03/21	7.	24.95	7.00	-10.3	P/F	L/F
Calibr.	"	"	1220	190072	01/21	4.	24.66	4.00	158.2	P/F	L/F
Calibr.	"	"	1222	190071	01/21	10.	25.39	9.99	-161.7	P/F	L/F
ICV	"	"	1225	190072	01/21	4.	24.69	3.97	160.5	P/F	L/F
CCV	M. Carrell	6/3/19	1636	190071	01/21	10	24.53			P/F	L/F
CCV	M. DUGAN	6/4/19	0757	190071	01/21	10.	25.63	9.99	-181.9	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)

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 PULSE** Date of last verification: **12/26/2018**

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: