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: YSI 6 RQ- Project: Algal Bloom

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 3/19/2019

DO DEP SOP FT 1500	Name	Date	Time CT ET	Temp °C	Bore-meter reading	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	M.DUGAN	04/29/19	0857	25.22	760.	8.23	8.23	100.0	47.1	1.09737	(P)/F	(L)/F
ICV	"	"	0859	24.94	760.	8.28	8.28	100.1	47.1		(P)/F	(L)/F
CCV	M.DUGAN	"	1348	25.21	760.	8.23	8.37	101	47.1		(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 (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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	M.DUGAN	04/29/19	0851	2901833	12/20	1000	1000	(P)/F	(L)/F
ICV	"	"	0853	2809050	09/20	10,000	9858	(P)/F	(L)/F
CCV	M.DUGAN	"	1345	28 11E60	11/20	50,000	49,099	(P)/F	(L)/F
CCV								P/F	L/F

Conductivity Acceptance criteria ± 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	04/29/19	0901	187681	11/20	7.	25.50	7.00	-9.1	(P)/F	(L)/F
Calibr.	"	"	0902	968818	02/21	4.	25.83	4.00	163.0	(P)/F	(L)/F
Calibr.	"	"	0904	2901A09	07/20	10.	25.38	10.00	-175.3	(P)/F	(L)/F
ICV	"	"	0905	2901A09	07/20	10.	25.12	9.97	-173.8	(P)/F	(L)/F
CCV	M.DUGAN	"	1352	968818	02/21	4	24.98	393		(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 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 166.2, slope from 4 to 7 172.1 (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 BUOY; Date of last verification: 12/20/2018

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 ± 5 % or ± 0.05m, whichever is greater.

COMMENTS: