

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: Mg Boy Blue

RQ: 2022-11-14-39

Project: SMP Cont. - Spring Creek

- 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 10/10/22

DO DEP SOP FT 1400	Name	Date	Time (EST)	Temp (°C)	Depth (m)	D.O. (mg/L)	Meter D.O. (mg/L)	% DO	Probe (mV)	Probe (mV)	Pass	Lab
Calibr.	William Miller	11/2/22	0713	21.3	763.8	8.8	8.80	99.5		1.1875	(P) F (L) F	
ICV	William Miller	11/2/22	0716	21.3	763.8	8.8	8.82	99.6			(P) F (L) F	
CCV	William Miller	11/17/22	1620	21.8	763.1	8.8	9.10	103.0			(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. Code	Name	Date	Time (EST)	Lot #	Exp. Date	Standard (mg/L)	Probe (mV)	Pass	Lab
Calibr.	William Miller	11/2/22	0718	1107981	7/23	10,000	10,000	(P) F (L) F	
ICV	William Miller	11/2/22	0725	220309	3/23	50,000	50,142	(P) F (L) F	
CCV	William Miller	11/17/22	1624	220309	3/23	50,000	50,263	(P) F (L) F	
CCV	William Miller	11/17/22	1628	212528	12/23	100	98.0	(P) F (L) F	

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1400	Name	Date	Time (EST)	Lot #	Exp. Date	pH Buffer	Temp (°C)	Probe (mV)	Pass	Lab
Calibr.	William Miller	11/2/22	0729	2205554	5/24	7.01	20.5	7.01	-47.2	(P) F (L) F
Calibr.	William Miller	11/2/22	0735	2206A61	5/24	4.01	20.1	4.01	126.0	(P) F (L) F
Calibr.	William Miller	11/2/22	0739	4208577	2/24	10.06	20.0	10.06	-219.3	(P) F (L) F
ICV	William Miller	11/2/22	0744	2206A61	5/24	4.01	20.1	4.01		(P) F (L) F
CCV	William Miller	11/17/22	16	4208577	2/24	10.05	21.3	10.09		(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 10 172.1, slope from 4 to 7 173.2 (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: _____; Date of last verification: _____

Depth Sensor (Daily Calibration)	Name	Date	Time (EST)	Calibrated Value (0.00 or Offset) meters	ICV Value meters	Pass	Lab
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: