

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: P0155185104543

RQ-

2019-07-01-51
2019-06-17-32

Project:

cmp/status lakes

- 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.	<u>Blake Spencer</u>	<u>6/26/19</u>	<u>0731</u>	<u>21.2</u>	<u>760.3</u>	<u>8.9</u>	<u>8.98</u>	<u>100.1</u>	<u>—</u>	<u>—</u>	<u>P</u> / F	<u>L</u> / F
ICV	<u>1</u>	<u>6/26/19</u>	<u>0733</u>	<u>21.3</u>	<u>740.3</u>	<u>8.9</u>	<u>8.97</u>	<u>100.0</u>	<u>—</u>	<u>—</u>	<u>P</u> / F	<u>L</u> / F
CCV	<u>Blake Spencer</u>	<u>6/26/19</u>	<u>1616</u>	<u>30.3</u>	<u>789.4</u>	<u>7.5</u>	<u>7.45</u>	<u>99.6</u>	<u>—</u>	<u>—</u>	<u>P</u> / F	<u>L</u> / F
CCV											<u>P</u> / F	<u>L</u> / 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.	<u>Blake Spencer</u>	<u>6/26/19</u>	<u>0741</u>	<u>190619F</u>	<u>06/2020</u>	<u>1000</u>	<u>1000</u>	<u>P</u> / F	<u>L</u> / F
ICV	<u>1</u>	<u>6/26/19</u>	<u>0743</u>	<u>190619F</u>	<u>06/2020</u>	<u>1000</u>	<u>996</u>	<u>P</u> / F	<u>L</u> / F
CCV	<u>Blake Spencer</u>	<u>6/26/19</u>	<u>1619</u>	<u>280888H</u>	<u>07/2020</u>	<u>100</u>	<u>103.5</u>	<u>P</u> / F	<u>L</u> / F
CCV								<u>P</u> / F	<u>L</u> / 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.	<u>Blake Spencer</u>	<u>6/26/19</u>	<u>0745</u>	<u>180621E</u>	<u>01/2020</u>	<u>7.01</u>	<u>22.3</u>	<u>7.01</u>	<u>-27.9</u>	<u>P</u> / F	<u>L</u> / F
Calibr.	<u>1</u>	<u>6/26/19</u>	<u>0745</u>	<u>190405B</u>	<u>10/2020</u>	<u>4.00</u>	<u>22.5</u>	<u>4.00</u>	<u>147.8</u>	<u>P</u> / F	<u>L</u> / F
Calibr.	<u>1</u>	<u>6/26/19</u>	<u>0753</u>	<u>180621E</u>	<u>01/2020</u>	<u>10.03</u>	<u>22.5</u>	<u>10.03</u>	<u>-198.5</u>	<u>P</u> / F	<u>L</u> / F
ICV	<u>1</u>	<u>6/26/19</u>	<u>0753</u>	<u>180621E</u>	<u>01/2020</u>	<u>10.03</u>	<u>22.6</u>	<u>10.02</u>	<u>-198.7</u>	<u>P</u> / F	<u>L</u> / F
CCV	<u>Blake Spencer</u>	<u>6/26/19</u>	<u>1622</u>	<u>190405B</u>	<u>10/2020</u>	<u>4.00</u>	<u>22.5</u>	<u>4.08</u>	<u>142.9</u>	<u>P</u> / F	<u>L</u> / F
CCV										<u>P</u> / F	<u>L</u> / 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 ± 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: _____; 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	<u>B. Spencer</u>	<u>6/26/19</u>	<u>0755</u>	<u>0.00</u>	<u>0.00</u>	<u>P</u> / F	<u>L</u> / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Lake Seminole 200m from boat ramp @ River Rd

Date:

(mm/dd/yyyy)

WIN/ Field ID: G2TLHR0002

WBID: 60

Latitude: 30.743518

(Decimal Degrees)

County: Jackson

ORG ID: 21FTLHR

Longitude: 84.9204569

(Decimal Degrees)

Receiving Body of Water: Apalachicola River

RQ-

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment		
										☒ Sample Container	☐ Van Dorn	☐ Pole
										☐ Carboy	☒ Syringe	
										☐ Dipper	☐ Other	
										Depth Measured with Equipment ID		
										Collection Method		
										☐ Wading	☐ Canoe/Kayak	
										☐ From Shore	☐ Electric Motor	
										☐ Other	☐ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded Meter ID# Matrix: Fresh / Marine / DI

Photos: Yes / No Flow: No Flow / Intertidal / Flowing / NA Tide: Rising/ Falling/ Slack/ NA Tide Times: High NA Low NA

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)
EST	14:10	2.7	0.3	1.1	8.26	111.2	7.34	0.04	93.6	31.1
CEN			2.2		8.22	109.2	7.35	0.04	97.8	30.2

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	Ice H2SO4			<2
Metals	W-ICPMS W-ICP	Ice HNO3			<2
Filtered Nutrients	W-PO4-F Field Filtered 0.45 µm Filter	Ice			
Chlorophyll	CHLSUITE-W	Ice			
Physical/Aggregate (Fresh)	Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	Ice			
Physical/Aggregate (Marine)	Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	Ice			
Macroinvertebrates	MI-FW-QLDC	Formalin			
Periphyton	ALGAE-ID	Ice			
Microbiology	E Coli F Coli Enterococci	Ice			
Molecular	PCR-FILTER PCR-BacR PCR-GULL2 PCR-HF183 PCR-DG3 PCR-GFD	Ice			
Tracers	W-E8321-DI W-E8321-MS	Ice			
Pesticides	W-PSNP-TQ W-CT-CL-R W-E8321-DI W-PCL-SQ-R WE8321-MS W-CARB-AA	Ice			
Phytoplankton	DTY-QN-C PKD-QN-C	Ice			

Notes:

Field/WIN ID → G2TLHR0002

Location ↓ Lake Seminole 200m from boat ramp @ River Rd

Signature: Date:

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

Group: B	Bottle Type: P-250ML-WO-THI ECOL-18QT	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
Group: B	Bottle Type: P-500ML W-ICP W-ICPMS	# of Bottles: 6	Preservative: HNO3	Enter Number of Bottles Sent to Lab _____
Group: B	Bottle Type: P-500ML W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	# of Bottles: 6	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
Group: B	Bottle Type: P-125ML W-PO4-F	# of Bottles: 6	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab _____
Group: C	Bottle Type: P-250ML-WO-THI ECOL-18QT	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
Group: D	Bottle Type: P-1L ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
Group: D	Bottle Type: P-250ML-WO-THI ECOL-18QT	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
Group: D	Bottle Type: P-500ML W-ICP W-ICPMS	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab _____
Group: D	Bottle Type: P-500ML W-NH3 W-NO2NO3 W-S-A-TP	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab _____