

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: SNEK

RQ: 2020-08-24-31

Project: SMP-Sarasota

- 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 6/8/20

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>Miranda-Cumill</u>	<u>8/25/20</u>	<u>0714</u>	<u>24.1</u>	<u>756.3</u>	<u>8.4</u>	<u>8.37</u>	<u>99.5</u>			<u>P/F</u>	<u>L/F</u>
ICV	<u>"</u>	<u>"</u>	<u>0720</u>	<u>24.0</u>	<u>756.3</u>	<u>8.4</u>	<u>8.36</u>	<u>99.4</u>			<u>P/F</u>	<u>L/F</u>
CCV	<u>"</u>	<u>"</u>	<u>1335</u>	<u>24.5</u>	<u>756.3</u>	<u>8.3</u>	<u>8.27</u>	<u>99.0</u>			<u>P/F</u>	<u>L/F</u>
CCV											<u>P/F</u>	<u>L/F</u>

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.	<u>Miranda-Cumill</u>	<u>8/25/20</u>	<u>0723</u>	<u>2007617</u>	<u>7/22</u>	<u>1000</u>	<u>1002</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>"</u>	<u>8/25/20</u>	<u>0723</u>	<u>1006706</u>	<u>5/22</u>	<u>100</u>	<u>103.0</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>"</u>	<u>"</u>	<u>1342</u>	<u>2912745</u>	<u>11/21</u>	<u>10,000</u>	<u>10,213</u>	<u>P/F</u>	<u>L/F</u>
CCV								<u>P/F</u>	<u>L/F</u>

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>Miranda-Cumill</u>	<u>8/25/20</u>	<u>0725</u>	<u>200388</u>	<u>2/22</u>	<u>7.00</u>	<u>24.4</u>	<u>7.01</u>		<u>P/F</u>	<u>L/F</u>
Calibr.	<u>"</u>	<u>"</u>	<u>0729</u>	<u>200052</u>	<u>2/22</u>	<u>4.04^m</u>	<u>24.4</u>	<u>4.00</u>		<u>P/F</u>	<u>L/F</u>
Calibr.	<u>"</u>	<u>"</u>	<u>0734</u>	<u>197602</u>	<u>1/22</u>	<u>10.02</u>	<u>24.4</u>	<u>10.01</u>		<u>P/F</u>	<u>L/F</u>
ICV	<u>"</u>	<u>"</u>	<u>0737</u>	<u>200052</u>	<u>2/22</u>	<u>4.01</u>	<u>24.3</u>	<u>3.97</u>		<u>P/F</u>	<u>L/F</u>
CCV	<u>"</u>	<u>"</u>	<u>1354</u>	<u>197602</u>	<u>1/22</u>	<u>10.02</u>	<u>23.7</u>	<u>9.98</u>		<u>P/F</u>	<u>L/F</u>
CCV										<u>P/F</u>	<u>L/F</u>

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: 3312B; Date of last verification: 7/7/20

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>P/F</u>	<u>L/F</u>

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

COMMENTS:

Benchmark EnviroAnalytical, Inc.

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North Port, FL 34289

(941) 625-3137 / (941) 240-3071 fax

Client Name: FDEP

Address: 2600 Blair Stone Rd.

Tallahassee, FL, 32399

Phone: (850) 245-8085

Email: dep-overflowmicro@dep.state.fl.us

Bill to: Frances Moore
P.O. #: Lab B16970

Project Name: RQ-2020-08-21-31

Project Run/Location: Sava Sober

Laboratory Submission #:

520080585

Station ID

Surface Water Sample Matrix* (Fresh / Marine)

Enterococci
E.coli (SM9223B Quantitray)

Laboratory Sample #

E. coli = 250 mL ; Enteroc = 120 mL ; Fecal Coliform = 120 mL

G3SD0131 - Bshat	F / M / Grab	E. coli / Enteroc / F. coli	Date & Time: 8/25/20 0915	
G3SD0090 - South	F / M / Grab	E. coli / Enteroc / F. coli	Date & Time: 8/25/20 1020	
G3D0103 - Hatchett	F / M / Grab	E. coli / Enteroc / F. coli	Date & Time: 8/25/20 1110	
G3SD0066 - Curry	F / M / Grab	E. coli / Enteroc / F. coli	Date & Time: 8/25/20 1140	
	F / M / Grab	E. coli / Enteroc / F. coli	Date & Time:	
	F / M / Grab	E. coli / Enteroc / F. coli	Date & Time:	
	F / M / Grab	E. coli / Enteroc / F. coli	Date & Time:	
	F / M / Grab	E. coli / Enteroc / F. coli	Date & Time:	
	F / M / Grab	E. coli / Enteroc / F. coli	Date & Time:	
	F / M / Grab	E. coli / Enteroc / F. coli	Date & Time:	
	F / M / Grab	E. coli / Enteroc / F. coli	Date & Time:	
	F / M / Grab	E. coli / Enteroc / F. coli	Date & Time:	

Sample Type: is used to indicate whether the sample was a grab (G) or whether it was a composite (C).

*Sample Matrix: is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), fresh surface water (FSW), saline surface water (SSW), soil sediment (SDMNT), or sludge (SLDG).

Temperature: is used to indicate whether the temperature was taken at the time of collection. The minimum temperature during storage should be 4°C (41°F). Under "Preservative," list any preservatives that were added to the sample container.

Each bottle has a label identifying sample ID, preservative, preservative contained in the bottle, sample type, client ID, and parameters for analysis.

2. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.

1. All bottles not containing preservative may be mixed with appropriate sample prior to collection.

1. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

Laboratory Sample Acceptability:
pH < 2.0 BEAS Temperature: 4.6°C

1	Collector: Mark Larrall	Date: 8/25/20	Time:	Received By:	Date:	Time:
2	Relinquished by: M. Larrall	Date: 8/25/20	Time: 1220	Received By: J. L. H.	Date: 8/25/20	Time: 1220
3	Relinquished by:	Date:	Time:	Received By:	Date:	Time:
4	Relinquished by:	Date:	Time:	Received By:	Date:	Time:
5	Relinquished by:	Date:	Time:	Received By:	Date:	Time: