

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: President Canacho

RQ- 2023-11-20-18

Project: SMP: Venice

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 11/02/23

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>Samantha Gelines</u>	<u>11/20/23</u>	<u>654</u>	<u>15.9</u>	<u>761.2</u>	<u>9.90</u>	<u>9.91</u>	<u>100.2</u>	<u>—</u>	<u>1.039</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>11</u>	<u>11</u>	<u>656</u>	<u>16.1</u>	<u>761.2</u>	<u>9.86</u>	<u>9.99</u>	<u>100.8</u>	<u>—</u>	<u>—</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>Samantha Gelines</u>	<u>11/20/23</u>	<u>1340</u>	<u>23.2</u>	<u>760.8</u>	<u>8.56</u>	<u>8.57</u>	<u>100.8</u>	<u>—</u>	<u>—</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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	<u>Samantha Gelines</u>	<u>11/20/23</u>	<u>700</u>	<u>23027C</u>	<u>2/24</u>	<u>2000</u>	<u>2000</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>11</u>	<u>11</u>	<u>701</u>	<u>2207695</u>	<u>7/24</u>	<u>100</u>	<u>102.4</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>Samantha Gelines</u>	<u>11/20/23</u>	<u>1341</u>	<u>23027A</u>	<u>2/24</u>	<u>50,000</u>	<u>50384</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>Samantha Gelines</u>	<u>11/20/23</u>	<u>703</u>	<u>230607B</u>	<u>12/24</u>	<u>7.03</u>	<u>17.4</u>	<u>7.03</u>	<u>9.7</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>11</u>	<u>11</u>	<u>704</u>	<u>2305676</u>	<u>5/25</u>	<u>4.00</u>	<u>17.3</u>	<u>4.00</u>	<u>64.4</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>11</u>	<u>11</u>	<u>705</u>	<u>1308186</u>	<u>1/25</u>	<u>10.09</u>	<u>18.0</u>	<u>10.09</u>	<u>227.1</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>11</u>	<u>11</u>	<u>707</u>	<u>2305626</u>	<u>5/25</u>	<u>4.00</u>	<u>17.1</u>	<u>3.87</u>	<u>—</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>Samantha Gelines</u>	<u>11/20/23</u>	<u>1343</u>	<u>1308186</u>	<u>1/25</u>	<u>10.10</u>	<u>16.9</u>	<u>10.29</u>	<u>—</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 10 236.8, slope from 4 to 7 74.1 (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: 3317A; Date of last verification: 8/14/23

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

Benchmark EA South E85086
1001 Corporate Ave. Ste 102
North Port FL 34289
941-240-3066 / 941-625-3137

Client Name: FDEP
Address: 2600 Blair Stone Rd.
Tallahassee, FL, 32399
Phone: (239) 344-5718
Email: dep-overflowmicro@dep.state.fl.us

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

Project Name: RQ-2023-11-20-18
Project Run/Location: Venice

Laboratory Submission #:

Station ID

Surface Water Sample Matrix²
(Fresh / Marine)
Sample Type

Enterococci
E.coli (SM9223B Quantitray)

Laboratory Sample #

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

G3SD0192	F / M / Grab	E. coli / Enteroc / Fecal coliform	Date & Time: 11/20/23 0910	
G3SD0194	F / M / Grab	E. coli / Enteroc / Fecal coliform	Date & Time: 11/20/23 0945	
G3SD0054	F / M / Grab	E. coli / Enteroc / Fecal coliform	Date & Time: 11/20/23 1110	
	F / M / Grab	E. coli / Enteroc / Fecal coliform	Date & Time:	
	F / M / Grab	E. coli / Enteroc / Fecal coliform	Date & Time:	
	F / M / Grab	E. coli / Enteroc / Fecal coliform	Date & Time:	
	F / M / Grab	E. coli / Enteroc / Fecal coliform	Date & Time:	
	F / M / Grab	E. coli / Enteroc / Fecal coliform	Date & Time:	
	F / M / Grab	E. coli / Enteroc / Fecal coliform	Date & Time:	
	F / M / Grab	E. coli / Enteroc / Fecal coliform	Date & Time:	
	F / M / Grab	E. coli / Enteroc / Fecal coliform	Date & Time:	

1. "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
2. "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).
3. "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
4. Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 6°C (42.8°F). Under "Preservative," list any preservatives that were added to the sample container.

Laboratory Sample Acceptability:
pH < 2 : 0 BEAS Temperature: 2.2°C

1	Collector: Samantha Celineas	Date: 11/20/23	Time: 1223	Received By: Sarah Quintanilla	brooks Watermice BEAS	Date: 11/20/23	Time: 1223
2	Relinquished by:	Date:	Time:	Received By:		Date:	Time:
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:

BEAS Sample Receipt Temp. 2.2 °C

Checked at Benchmark EA South E85086
With Temperature Gun ID #7