

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: Pesi

RQ- 2021-04-05-69

Project: BMAP / Source Tracking

- 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 2/15

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.	Brian Davis	4/7/21	736	21.4	763.2	8.9	✓	100.4	✓	1.06	P/F	L/F
ICV			738	21.5	763.2	8.9	8.87	100.4	✓	1.06	P/F	L/F
CCV			1703	23.3	760.2	8.5	8.60	100.8	✓	1.06	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 μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Brian Davis	4/7/21	740	201222B	1/22	1000	1000	P/F	L/F
ICV			742	201222A	1/22	100	103.2	P/F	L/F
CCV			1710	201222B	1/22	1000	1001	P/F	L/F
CCV								P/F	L/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.	Brian Davis	4/7/21	753	2010F27	10/22	7.01	22.3	7.01	-35.6	P/F	L/F
Calibr.			801	2010C31	10/22	4.00	22.6	4.00	144.3	P/F	L/F
Calibr.			807	2012797	5/22	10.03	22.5	10.03	-206.9	P/F	L/F
ICV			809	2010F27	10/22	7.01	22.6	7.04	-34.3	P/F	L/F
CCV			1712	2010F27	10/22	7.01	22.8	10.06	-209.6	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 _____, 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	Brian Davis	4/7/21	813	0.00	0.00	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:



Florida DEP North East District ROC BMAP Field sheet

Data Pass CCV?

No

Date: 4/7/21 RQ#: 2021-04-05-69Event Name: Little Fishweir Source Meter ID: Pro DSS DesiSampling Team Members: K. McDonald, B. Davis, W. Karlavige

All bacteria samples taken are surface water grab samples.

WIN Number / Site Name LFW1 End of Azalea @ camp 30.30130, -81.71632				WBID Number 2280A		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ + 8321 Enterococcus ☐ Fecal ☐		Initials Sample & Preservation KM		Initials Documentation KM	
Sample Access: Wading ☒ Dock ☐ From Shore ☐ Bridge ☐				Sample Ice Preserved in 15 minutes? Yes ☒ No ☐									
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack			
1033	0.32	0.16	18.8	415.1	0.20	7.18	4.71	50.1	0.32	Slack			
										VOB			
Comments and Weather: 1 ecoli to COJ lab potential homeless camp observed. 1 8321-DI/MS to DEP lab													

WIN Number / Site Name LFW2 Little Fishweir @ MacArthur 30.30231, -81.71719				WBID Number 2280A		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ + 8321 Enterococcus ☐ Fecal ☐		Initials Sample & Preservation KM		Initials Documentation KM	
Sample Access: Wading ☒ Dock ☐ From Shore ☒ Bridge ☐				Sample Ice Preserved in 15 minutes? Yes ☒ No ☐									
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack			
1116	0.352	0.17	17.9	415.6	0.20	7.04	4.02	42.4	0.352	Ebb			
										VOB			
Comments and Weather: 1 ecoli to COJ lab road crossing. 1 8321-DI/MS to DEP lab													

WIN Number / Site Name LFW3 Little Fishweir upstream of Walsh footbridge 30.297679, -81.711947				WBID Number 2280A		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ + 8321 Enterococcus ☐ Fecal ☐		Initials Sample & Preservation KM		Initials Documentation KM	
Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐				Sample Ice Preserved in 15 minutes? Yes ☒ No ☐									
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack			
1225	0.22	0.11	19.1	446.3	0.22	7.3	5.98	65.3	0.22	Ebb			
										VOB			
Comments and Weather: 1 ecoli to COJ lab, 1 8321-DI/MS to DEP lab abundant bacteria observed in creek adjacent to Boone Park													

Signature: _____ Date: _____

Field Sheet Scanned (Initials/date): _____ Parameters uploaded to LIMs (Initials/date): _____

Data QC'd in LIMs (Initials/date): _____ Data Migrated to WIN (Initials/date): _____

WIN Number / Site Name LFWH					WBID Number 2280A		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ → 8321-DI/MS Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation	
Little Fishweir Downstream of Confluence 30.29597, -81.70973					Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐				km		km	
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack				
1258	0.2	0.1	19.9	436.4	0.21	7.24	5.1	56.1	0.2	Ebb				
										V08				
Comments and Weather: 1 ecoli to COJ lab, 1 8321-DI/MS to DEP lab downstream of confluence near Herschel; lots of algae observed														

WIN Number / Site Name WIN: 20030953					WBID Number 2280A		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☐ → 8321-DI/MS only Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation	
Little Fishweir CR at Oak St					Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐				km		km	
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack				
1445	0.59	0.30	20.5	416.9	0.22	7.44	13.89	153.5	0.59	Ebb				
										V08				
Comments and Weather: very high DO; no observed algae or other cause 1- 8321-DI/MS to DEP lab only → ecoli on separate RQ														

WIN Number / Site Name					WBID Number		Matrix: Surface ☐ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation	
					Sample Access: Wading ☐ Dock ☐ From Shore ☐ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☐ No ☐							
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack				
Comments and Weather:														

WIN Number / Site Name					WBID Number		Matrix: Surface ☐ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation	
					Sample Access: Wading ☐ Dock ☐ From Shore ☐ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☐ No ☐							
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack				
Comments and Weather:														



Florida DEP North East District ROC BMAP Field sheet

Data Pass CCV?

Yes/No

Date: 4/7/21 RQ#: 2021-04-05-44Event Name: BMAP 1 Meter ID: Pro DSS DesiSampling Team Members: K. McDonald, B. Davis

All bacteria samples taken are surface water grab samples.

WIN Number / Site Name <u>Little Fishweir CR at Oak St.</u> <u>20030953</u>					WBID Number <u>2280 A</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>KM</u>		Initials Documentation <u>KM</u>		
Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐					Sample Ice Preserved in 15 minutes? Yes ☒ No ☐										
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack					
<u>1445</u>	<u>0.59</u>	<u>0.59</u>	<u>20.5</u>	<u>446.9</u>	<u>0.22</u>	<u>7.44</u>	<u>13.89</u>	<u>153.5</u>	<u>0.59</u>	<u>Ebb</u>					
		<u>403</u>	<u>KM</u>												

Comments and Weather: 0.3 sample depth crazy high DO%
no recent rain; clear & sunny weather; no observed algae

WIN Number / Site Name					WBID Number		Matrix: Surface ☐ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation		
Sample Access: Wading ☐ Dock ☐ From Shore ☐ Bridge ☐					Sample Ice Preserved in 15 minutes? Yes ☐ No ☐										
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack					

Comments and Weather:

WIN Number / Site Name					WBID Number		Matrix: Surface ☐ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation		
Sample Access: Wading ☐ Dock ☐ From Shore ☐ Bridge ☐					Sample Ice Preserved in 15 minutes? Yes ☐ No ☐										
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack					

Comments and Weather:

Signature: _____ Date: _____

Field Sheet Scanned (Initials/date): _____ Parameters uploaded to LIMs (Initials/date): _____

Data QC'd in LIMs (Initials/date): _____ Data Migrated to WIN (Initials/date): _____ 28321 only win numbers JP 8/27/21



CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

9143 Phillips Highway, Suite 120, Jacksonville, FL 32256
Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011

Page _____ of _____

SR #
ALS Contact

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)												
Report To		Report CC		Preservative Key												
Company/Address		Company/Address		0. None 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other												
BMAP 4		RQ-2021-04-05-44														
JEP-McCoveyFlow		JEP-McCoveyFlow														
Jax FL 32256		Jax FL 32256														
Phone # 904-256-1700		FAX #														
Sample's Signature B-D		Sample's Printed Name B-D														
CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX	NUMBER OF CONTAINERS											
20030953		4/7/21	1445	SW	1	4										
Special Instructions/Comments:																
SAMPLE RECEIPT: CONDITION/COOLER TEMP:																
Relinquished By		Received By		Signature		Relinquished By		Signature		Received By		Signature		Relinquished By		
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		
Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm		
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		
4/7/21 1531		4/7/21 1533		4/7/21 1533		4/7/21 1533		4/7/21 1533		4/7/21 1533		4/7/21 1533		4/7/21 1533		
TURNAROUND REQUIREMENTS																
RUSH (SURCHARGES APPLY)																
STANDARD																
REQUESTED FAX DATE																
REQUESTED REPORT DATE																
REPORT REQUIREMENTS																
I. Results Only																
II. Results + QC Summaries																
III. Results + QC and Calibration Summaries																
IV. Data Validation Report with Raw Data																
Edata Yes No																
P.O. #																
Bill to:																
INVOICE INFORMATION																
Relinquished By		Received By		Signature		Relinquished By		Signature		Received By		Signature		Relinquished By		
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		
Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm		
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		