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: Pro DSS Desi RQ- 2021-03-22-34 Project: Tolomato CM

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 2/15/2021

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.	K McDonald	3.24	0923	21.4	761.9	8.9	-	100.3	-	1.057	(P)/F	(L)/F
ICV	↓	↓	0929	21.7	761.9	8.8	8.81	100.4	-	1.057	(P)/F	(L)/F
CCV	↓	↓	1403	22.9	760.6	8.6	8.55	99.7	-	1.057	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	K McDonald	3.24	0933	2012228	01/22	1000	1000	(P)/F	(L)/F
ICV	↓	↓	0937	2009026	09/21	1413	1398	(P)/F	(L)/F
CCV	↓	↓	1405	2004074	04/21	50,000	50,105	(P)/F	(L)/F
CCV								P/F	L/F

Conductivity Acceptance criteria ± 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.	K McDonald	3.24	0942	2010F27	10/22	7.01	22.8	7.01	-42.3	(P)/F	(L)/F
Calibr.	↓	↓	0946	2010C31	09/22	4.00	22.7	4.00	141.9	(P)/F	(L)/F
Calibr.	↓	↓	0948	2012797	05/22	10.02	22.8	10.03	-206.8	(P)/F	(L)/F
ICV	↓	↓	0949	2010C31	09/22	4.00	22.7	3.95	143.3	(P)/F	(L)/F
CCV	↓	↓	1409	2002911	08/21	10.02	23.0	10.01	-209.0	(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 ± 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: 2/15/21
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	K. McDonald	3.24	0952	0.00	0.00	(P)/F	(L)/F

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

COMMENTS:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

Date:	3/24/2021	**Collected By:**	Kelly McDonald, Brian Davis
Customer:	NE-DIST	**Sampling Agency:**	FDEP
RQ:	RQ-2021-03-22-34	**Project ID**:	SMP

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

Number of Coolers Shipped: 1

FIELD ID (Labels) submitted under this RQ for this collection date.

Site Location	Field ID/WIN ID
Tolomato River 800 m N of Bridge	G5NE0601

RELINQUISHED BY(SIGNATURE): B. D. **DATE/TIME**: 03/24/21 1600

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By: **Rec'd/Inspected Date**:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End of Day CCV Yes / No

WIN Station Name: Tolomato River 800 m N of Bridge **Date:** 3/24/2021

WIN/Field ID: G5NE0601 **WBID:** 2363I1 **ENR:** ENRT1 **Latitude:** 30.1372

County: ST. JOHNS **Org ID:** 21FLA **Longitude:** -81.3887

Receiving Body of Water: Upper East Coast **RQ-** 2021-03-22-34

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
[x] Kelly McDonald	x		x		
[x] Brian Davis		x		x	x
[ ]					
[ ]					

Sampling Equipment

- [x] Sample Container
- [ ] Dipper
- [ ] Syringe
- [ ] Carboy
- [ ] Van Dorn
- [ ] Pole

Depth measured with: Secchi

Secchi Equipment ID: 2

Collection Method

- [ ] Wading
- [ ] From Shore
- [ ] Other _____
- [ ] Canoe/Kayak
- [ ] Electric Motor
- [x] Gasoline Motor

Water Level: [x] Normal [ ] Low [ ] High [ ] Dry [ ] Pooled [ ] Flooded

Meter ID# DESI

Photos: NO **Flow:** FLOW **Tide:** FALLING **Tide Times:** High: 0750 Low:

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

SBIO ID Numbers:

Notes:

Duplicate Sample

Time Zone: EST **Time:** _____ **Field ID:** N/A (WIN ID_DUP)

WIN DMT Activity ID: _____

Blank

Time Zone: _____ **Time:** _____ **Field ID:** _____ (Blank Type_DDMMYYYY)

DI Source: _____ **Location:** _____

DI Type: _____ **Equipment ID:** _____

DI Container (Name/ID): **DI Container Type:**

LIMS EVENT ID: _____ **WIN Import ID:** _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ (Initials/Date) **QC Station ID, Field Parameters In LIMS DMT:** _____ (Initials/Date)

Scan/Save Field Sheets BD 03/24/21 (Initials/Date) **Migrate Data to WIN:** _____ (Initials/Date) **Verify Data In WIN:** _____ (Initials/Date)

RQ-2021-03-22-34
Customer: WQAP
Project ID: SMP

Collected By: Kelly McDonald, Brian Davis
Field Report Prepared By: Kelly McDonald
Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID: G5NE0601

Location: Tolomato River 800 m N of Bridge

Comments: Microbiology sample(s) submitted to contract laboratory

Matrix: Marine

(Check one) ☒ GRAB ☐ COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPTh)
3/24/2021	1120 EST	7.41	88.4	18.8	7.38	0.3	1.2 ☒ VOB (S)	1.2	29943	18.63
							Central Lab please use top row for login purposes			
	EST									

Parameter Suite	Parameter Methods	Preservation	pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H_2SO_4*	☒ <2	1	A
	Lot # Sa0293040 **Exp:**	10.19.21			
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☒ W-HARD	☒ Ice ☒ HNO_3*	☒ <2	1	A
	Lot # Na0344060 **Exp:**	01.04.20			
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice		1	A
	Filter Lot # R0nb35407				
	Syringe Lot #				
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	A
Physical/Aggregate (Fresh) (P-1L)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine) (P-1L)	☒ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☒ Ice		1	A
Macroinvertebrates (PJ-2L)	☐ MI-FW-QLDC	☐ Formalin			
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☐ E Coli ☐ F Coli ☒ Enterococci ☒ Contract Lab	☒ Ice		1	A
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD ☐	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☐ W-DIELDRIN	☐ Ice			
Phytoplankton/Periphyton	☐ DTM-QL-C ☐ PEN-QL-C ☐ DTY-QN-C ☐ PKD-QN-C ☐ DTM-QN-C ☐ PRN-QN-C ☐ PKD-QN-BV	☐ Ice			

Name:
Kelly McDonald
Brian Davis

Signature: B. D.

Date: 03/24/21

*2.0 ml of Preservative used unless noted otherwise.
**MCAA: Monochloroacetic acid buffer solution

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

ALS Environmental

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Ph(904) 739-2277 / FAX (904) 739-2011

SR #

ALS Contact: Mandy Sullivan

Client Name	Project Number
FDEP-NE ROC	RQ-2021- 03-22-34
Report To	**Report CC**
Dep-Overflowmicro@dep.state.fl.us	
Company/Address	
8800 Baymeadows Way W Jacksonville, Fl 32256	
Phone #	**FAX #**
904-256-1700	
Sampler's Signature	**Sampler's Printed Name**
Kelly a McDonald	Kelly A McDonald

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	E.Coli	Enterocooi	REMARKS
					eservat	8	8	
G5NE0601		3·24	1120	SW	1		x	Salt

Preservative Key

0. None
1. HCL
2. HNO3
3. H2SO4
4. NaOH
5. Zn. Acetate
6. MeOH
7. NaHSO4
8. ICE

Special Instructions/Comments: Email Report to: Dep-Overflowmicro@dep.state.fl.us

2.8

TURNAROUND REQUIREMENTS

___ RUSH (SURCHARGES APPLY)
X STANDARD

REQUESTED FAX DATE
N/A

REQUESTED REPORT DATE
N/A

REPORT REQUIREMENTS

___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

Edata ___ Yes ___ No

INVOICE INFORMATION

P.O. # B10739

Bill to:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: Kelly a McDonald	Signature:	Signature	Signature	Signature	Signature
Printed Name: Kelly A McDonald	Printed Name: Che Weigand	Printed Name	Printed Name	Printed Name	Printed Name
Firm: FDEP NEROC	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 3·24·21 1238	Date/Time: 3/24/21 1241	Date/Time	Date/Time	Date/Time	Date/Time

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SMP CONTINUOUS MONITORING SHEET

August 2017

PAGE ____ OF ____

Data Qualified? (Yes) / No

STORET Station Name: Talomcto River 800 m N of Bridge **WBID:** 2363I1

STORET Station ID: 65NE0601 **ORG ID:** 21FLA

Field ID: _____ **County:** St Johns **RQ -** 2021-01-22-34

Meter ID# : MOE

Pre-Deployment Setup

Date: 3/17/21 **Performed by:** B Davis

Parameters Recorded: ☐ Date ☐ Time ☐ Temp (C°) ☒ Sp. Cond ☒ DOSAT ☐ DO (mg/L) ☐ pH ☐ Depth

Sampling Interval (min): 15:00	**Free Memory (days):** 98% Free	**Expected Battery Life:** 2.69v	**Programmed Duration:** N/A
Sonde Filename: TR03172021			**Reset Clock? (Y or N)** Yes
Programmed Start Date/Time: 3/17/21 (mm/dd/yyyy) 14:00:00 (hh:mm:ss) (Cent. / (East))			**Wipers Park Correctly?** Yes
Programmed End Date/Time: 3/24/21 (mm/dd/yyyy) 14:00:00 (hh:mm:ss) (Cent. / (East))			**Calibration Date** 3/17/21

Deployment

Date: 3/17/21 **Time Into Water:** 1100 **Time Zone:** Cent. / (East.)

Deployed Sonde Latitude:	30 137170	**Deployed By: (print all staff present)**	BD, JP
Deployed Sonde Longitude:	-81.388700		

Notes: (how to get to, landmarks, site considerations & concerns, etc.)

Photos : (Yes) / No

Retrieval

Date: 3/24/21 **Time Out Of Water:** 1125 **Time Zone:** Cent. / (East.)

Mounting left or removed?	Removed	**Retrieved By:**	BD, KM

Notes: (significant fouling, signs of human disturbance, site considerations and concerns, etc.)

After data analysis the sonde appeared to come out of water, likely the reason for the J-code on pH CCV.

Post-Deployment

Date: 3/24/21 **Performed by:** B Davis

Data File Downloaded? (Yes) / No **Archived Filename:** Deterav_03242021

Meter Verification Date: 3/24/21

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualifiers to note on this page

Meter ID: MOE RQ- 2021-03-2434 Project: Tolancto CM

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.	Brian Davis	3/17/21	850	23.2	760.9	8.5	—	100.1	—	1.08	(P) / F	(L) F
ICV			851	23.3	761.0	8.5	8.56	100.4	—	1.08	(P) / F	(L) F
CCV		3/24/21	1345	24.0	759.1	8.4	8.52	101.2	—	1.08	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Brian Davis	3/17/21	918	201222B	1/22	1000	1000	P / F	L / F
ICV			924	201222C	1/22	50,000	49435	P / F	L / F
CCV			[illegible]						
CCV		3/24/21	1401	200902C	9/21	1413	1402	P / F	L / F

BD

Conductivity Acceptance criteria ± 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	3/17/21	857	2006F52	6/22	7.01	23.8	7.01	-32.4	(P) / F	(L) / F
Calibr.			901	2912B71	12/21	4.00	23.8	4.00	183.9	(P) / F	(L) / F
Calibr.			906	2012797	5/22	10.02	23.8	10.01	-194.8	(P) / F	(L) / F
ICV			915	2006F52	6/22	7.00	23.8	7.11	-36.6	(P) / F	(L) / F
CCV		3/24/21	1420	2012797	5/22	10.02	23.1	10.28	-209.2	(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 ± 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	B. D.	3/17/21	927	0.00	0.00	(P) / F	(L) / F

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

COMMENTS:

Form effective August 1, 2018