

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: 154177

RQ-2019-07-08-50
RQ-2019-09-09-33

Project: 2019 SMP

- 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 07/19

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.	Ben Harden	09/11/19	0749	21.8	761.9	8.8	880	100.4		0.972	0 / F	0 / F
ICV	"	"	0801	21.4	762.0	8.9	887	100.3			0 / F	0 / F
CCV	"	"	1453	25.1	760.2	8.2	827	100.3			0 / F	0 / 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.	Ben Harden	09/11/19	0751	190618F	06/20	1000	1000	0 / F	0 / F
ICV	"	"	0752	2908C81	08/21	100.0	102.4	0 / F	0 / F
CCV	"	"	1454	2908C81	08/21	100.0	100.5	0 / F	0 / 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.	Ben Harden	09/11/19	0754	190618B	12/20	7.02	21.4	7.02	-20.1	0 / F	0 / F
Calibr.	"	"	0756	190618A	12/20	4.00	21.6	4.00	153.8	0 / F	0 / F
Calibr.	"	"	0757	190618C	12/20	10.04	21.4	10.04	185.3	0 / F	0 / F
ICV	"	"	0759	"	"	10.04	21.5	10.07	186.8	0 / F	0 / F
CCV	"	"	1500	190618A	12/20	4.00	21.2	4.05	153.7	0 / F	0 / 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 10 165.2, slope from 4 to 7 173.9 (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: 07/19

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	Ben Harden	09/11/19	0745	0.000	0.000	0 / F	0 / 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: **Unnamed Branch @ Hardaway Rd 2**

Date: **09/11/2019**
(mm/dd/yyyy)

WIN/ Field ID: **G2TLHR0041**

WBID: **488**

Latitude: **30.6306**

(Decimal Degrees)

County: **Gadsden**

ORG ID: **21FLTMR**

Longitude: **84.7664**

(Decimal Degrees)

Receiving Body of Water: **Flat Creek**

RQ- **2019-09-09-33**

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
J. Burtchett B. Harder					✓	✓	✓	✓	✓	☒ Sample Container	☐ Van Dorn	☐ Pole		
										☐ Carboy	☒ Syringe			
										☐ Dipper	☐ Other			
										Depth Measured with 850DSS				
										Equipment ID 154177				
Collection Method														
					✓	✓	✓	✓	✓	☒ Wading	☐ Canoe/Kayak			
										☐ From Shore	☐ Electric Motor			
										☐ Other	☐ Gasoline Motor			
Water Level: Dry/ Pooled/ <u>Low</u> / Normal / High / Flooded										Meter ID# 154177		Matrix: <u>Fresh</u> / Marine / DI		
Photos: Yes <u>(NO)</u> Flow: No Flow / Intestinal <u>(Flowing)</u> / NA										Tide: Rising/ Falling/ Slack/ <u>(NA)</u>		Tide Times: High Low		
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (umhos/cm)	Temp. (C°)				
EST	935	0.1	0.05	0.1	7.88	93.7	5.71	0.01	26.7	24.0				
CEN				(S)										
Biological Samples Collected: <u>None</u> 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 ☒ H ₂ SO ₄	9/29/00	5/9/20	<2					
Metals	☒ W-ICPMS ☒ W-ICP					☐ Ice ☐ HNO ₃	9/29/00	5/9/20	<2					
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um 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					☐ Ice								
	☐ 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					☐ Ice								
	☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA					☐ Ice								
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C					☐ Ice								
Notes:										Field/WIN ID → G2TLHR0041				
										Location ↓ Unnamed Branch @ Hardaway Rd 2				
Signature: <i>[Signature]</i>										Date: 09/11/19				

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

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: **South Mosquito Creek @ Power Line**

Date: **09/11/2019**
(mm/dd/yyyy)

WIN/ Field ID: **G2TLHR0039**

WBID: **393**

Latitude: **30.6575**
(Decimal Degrees)

County: **Gadsden**

ORG ID: **21FLTLHR**

Longitude: **84.7143**
(Decimal Degrees)

Receiving Body of Water: **Mosquito Creek**

RQ: **2019-09-09-33**

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment						
J. Burkett B. Harden						☒	☒	☒	☒	☒	☒ Sample Container ☐ Van Dorn ☐ Pole ☐ Carboy ☒ Syringe ☐ Dipper ☒ Other Depth Measured with PRODS5 Equipment ID 154177						
											Collection Method ☒ Wading ☐ Canoe/Kayak ☐ From Shore ☐ Electric Motor ☐ Other ☐ Gasoline Motor						
Water Level: Dry/ Pooled/ Low Normal / High / Flooded						Meter ID# 154177					Matrix: Fresh Marine / DI						
Photos: Yes / No						Flow: No Flow / Intertidal Flowing / NA					Tide: Rising/ Falling/ Slack/ NA						
Tide Times: High Low																	
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (umhos/cm)	Temp. (C°)							
EST	1010	0.4	0.2	0.4	7.91	94.1	6.84	0.03	59.8	24.1							
CEN																	
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	9129100	5/9/20	☒ <2							
Metals	☒ W-ICPMS ☐ W-ICP					☒ Ice	☒ HNO3	9129070	5/9/20	☒ <2							
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um 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	☐ MF-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: Marilyn Campbell 850 663-4168 850 933-3950												Field/WIN ID → G2TLHR0039					
												Location ↓ South Mosquito Creek @ Power Line					
Signature: <i>[Signature]</i>										Date: 09/11/19							

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)

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: TLH-ROC

Requester: Michael Eckles

Project ID: SMP

Collected By: J. Burkett, B. Hardon

Field Report Prepared By: J. Burkett

Sampling Agency: 8034

Location		Field/WIN ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		G2TLHR0041		Date 09/11/19 Time 935		Date		(See pg 2)	
WIN/STI		Location ↓		Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude		Unnamed Branch @ Hardaway Rd 2		Temp (C) 24.0		pH 5.71		Sample Depth 0.05	
				Salinity (ppt) 0.01		Comments		26.7	
				dd dms				A	
Location		Field/WIN ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		G2TLHR0039		Date 09/11/19 Time 1010		Date			
WIN/STI		Location ↓		Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude		South Mosquito Creek @ Power Line		Temp (C) 24.1		pH 6.84		Sample Depth 0.2	
				Salinity (ppt) 0.03		Comments		59.6	
				dd dms				A	
Location		Field/WIN ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Date		Date			
WIN/STORET #				Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude				Temp (C)		pH		Sample Depth	
				Salinity (ppt)		Comments			
				dd dms					
Location		Field/WIN ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Date		Date			
WIN/STORET #				Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude				Temp (C)		pH		Sample Depth	
				Salinity (ppt)		Comments			
				dd dms					

Relinquished By: JB, BH	Date/Time: 09/11/19 1442	Shipping Method: HD	Number of Coolers Shipped: 1	Received By: [Signature]	Date/Time: 09/11/19 1443
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Group: A Bottle Type: P-1L # of Bottles: 3 Preservative: ICE Enter Number of Bottles Sent to Lab 2

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
W-TDS
W-TSS

Group: A Bottle Type: BP-1L # of Bottles: 3 Preservative: ICE Enter Number of Bottles Sent to Lab 2

CHLSUITE-W

Group: A Bottle Type: P-250ML-WO-THI # of Bottles: 3 Preservative: ICE Enter Number of Bottles Sent to Lab 2

ECOLI-18QT

Group: A Bottle Type: P-500ML # of Bottles: 3 Preservative: HNO3 Enter Number of Bottles Sent to Lab 2

W-ICP
W-ICPMS

Group: A Bottle Type: P-500ML # of Bottles: 3 Preservative: ICE And H2SO4 Enter Number of Bottles Sent to Lab 2

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

9129150
exp. 5/9/20

Group: A Bottle Type: P-125ML # of Bottles: 3 Preservative: FILTER-ICE Enter Number of Bottles Sent to Lab 2

W-PO4-F

Group: B Bottle Type: P-1L # of Bottles: 1 Preservative: ICE Enter Number of Bottles Sent to Lab _____

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
W-TDS
W-TSS