

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: **YS1 6920 (#3)** RQ: **2019-09-02-32** Project: **Suwannee North**

- 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 **6/2019**

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.	C Ruben	9.11.19	0728	23.4	760	8.5	8.55	100%	—	—	P/F	L/F
ICV	↓	↓	0730	23.5	760	8.5	8.5	100%	—	—	P/F	L/F
CCV	AKalmbacher	9-11-19	1415	25.6	760	8.2	8.32	101.7	—	—	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	C Ruben	9.11.19	0732	190711B	7/2020	1000	997	P/F	L/F
ICV	↓	↓	0734	190319B	3/2020	100	103	P/F	L/F
CCV	AKalmbacher	9-11-19	1435	190711B	7/2020	1.000	1015	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.	C Ruben	9.11.19	0737	2907278	1/21	7.	24.5	7.15	-31.8	P/F	L/F
Calibr.	↓	↓	0740	2904800	3/21	4.	24.5	3.92	144.1	P/F	L/F
Calibr.	↓	↓	0741	2901851	7/21	10.	24.5	9.85	-198.1	P/F	L/F
ICV	↓	↓	0743	2907278	1/21	7.0	24.3	7.06	-32.0	P/F	L/F
CCV	AKalmbacher	9-11-19	1430	2901851	7/21	10.0	24.7	9.89	-194.1	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	C. Ruben	9.11.19	0745	0.02	6.00	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 DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: LITTLE CREEK AT US 441

Date: 9-11-2019
(mm/dd/yyyy)

WIN/ Field ID: 21010033

WBID: 3368

Latitude: 30.41576

(Decimal Degrees)

County: Columbia

ORG ID: 21FLA

Longitude: -82.6365

(Decimal Degrees)

Receiving Body of Water: Suwannee River

RQ-2019- 09-02-32

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
C. Ruben						X		X	
A. Kalmbacher					X		X		

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☒ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	

Depth Measured with _____
Equipment ID Ortho Kit 7

Collection Method	
☐ Wading	☐ Canoe/Kayak
☒ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded

Meter ID# YSI #3

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 (µmhos/cm)	Temp. (C°)
EST	0945	0.31	0.15	0.31	5.9	69	7.4	0.06	136	23.5
CEN				S						

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	SA901030	4/2020	☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☒ Ice	R9BA8681		
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 ☒ 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:

WIN / Field ID:



21010033

LITTLE CREEK AT US 441

Signature: A. Kalmbacher

Date:

9-11-2019

LIMS EVENT ID:

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

(Initials/Date)

(Initials/Date)

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: CANNON CR @ CANNON CR RD/BUSINESS PARK POINT W CR 47

Date: 9-11-2019

(mm/dd/yyyy)

WIN/ Field ID: 21030138

WBID: 3520

Latitude: 30.12705

(Decimal Degrees)

County: Columbia

ORG ID: 21FLA

Longitude: -82.65485

(Decimal Degrees)

Receiving Body of Water: Canon creek sink

RQ-2019- 09-02-32

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
C. Buben									
A. Kalmbacher									

Sampling Equipment				
☒ Sample Container	☐ Van Dorn	☒ Pole		
☐ Carboy	☐ Syringe			
☐ Dipper	☐ Other			
Depth Measured with <u>Secchi</u>				
Equipment ID <u>Oethokit 7</u>				
Collection Method				
☐ Wading	☐ Canoe/Kayak			
☒ From Shore	☐ Electric Motor			
☐ Other	☐ Gasoline Motor			

Water Level: <u>Dry</u> / Pooled / Low / Normal / High / Flooded					Meter ID# <u>YS143</u>			Matrix: <u>Fresh</u> / Marine / DI		
Photos: Yes / <u>No</u>		Flow: <u>No Flow</u> / Intestinal / <u>Flowing</u> / 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 (µmhos/cm)	Temp. (C°)
<u>EST</u>	<u>1100</u>	<u>0.1</u>	<u>0.05</u>	<u>0.1</u>	<u>4.6</u>	<u>66</u>	<u>7.5</u>	<u>0.07</u>	<u>159</u>	<u>24.5</u>
CEN				<u>S</u>						

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	<u>SA9010030</u>	<u>4/2020</u>	☐ <2			
Metals	☒ W-ICPMS ☒ W-ICP				☒ Ice	☒ HNO ₃	<u>NA9099030</u>	<u>4/2020</u>	☐ <2			
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice		<u>R9B28875</u>					
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											
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											
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				☐ Ice							

Notes:

Signature: A. Kalmbacher

WIN / Field ID:



21030138

CANNON CR @ CANNON CR RD/
BUSINESS PARK POINT W CR 47

Date: 9-11-2019

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
Central Laboratory Submittal Form

Suwannee North

last revised Jan 25, 2018

Customer: NE-DIST

Requester: Jeremy M. ParrishField Report Prepared By: A. Kalmbacher

Project ID: SMP

Collected By: C. RubenSampling Agency: FDEP/NE ROC

Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <u>9-11-2019</u> Time <u>1100</u>		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s) (See pg 2)	
Field ID: <u>WIN / Field ID: 21030138</u>		Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen <u>4.6</u>		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
Well: <u>CANNON CR @ CANNON CR RD/ BUSINESS PARK POINT W CR 47</u>		Temp (C) <u>24.5</u>		pH <u>7.5</u>		Sample Depth ☐ ft ☒ m		Sp. Conductance (umho/cm) <u>159</u>			
Latitude: ☐ dms		Salinity (ppt) <u>0.07</u>		Comments							
Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <u>9-11-2019</u> Time <u>0945</u>		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID: <u>WIN / Field ID: 21010033</u>		Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen <u>5.9</u>		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		B	
Well: <u>LITTLE CREEK AT US 441</u>		Temp (C) <u>23.5</u>		pH <u>7.4</u>		Sample Depth ☐ ft ☒ m		Sp. Conductance (umho/cm) <u>136</u>			
Latitude: ☐ dms		Salinity (ppt) <u>0.06</u>		Comments							
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
WIN/STORET #		Temp (C)		pH		Sample Depth ☐ ft ☐ m		Sp. Conductance (umho/cm)			
Latitude: ☐ dd ☐ dms		Longitude: ☐ dd ☐ dms		Salinity (ppt)		Comments					
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
WIN/STORET #		Temp (C)		pH		Sample Depth ☐ ft ☐ m		Sp. Conductance (umho/cm)			
Latitude: ☐ dd ☐ dms		Longitude: ☐ dd ☐ dms		Salinity (ppt)		Comments					

Relinquished By: <u>A. Kalmbacher</u>	Date/Time: <u>9-11-2019 1430</u>	Shipping Method: <u>Fed Ex</u>	Number of Coolers Shipped: <u>2</u>	Received By: _____	Date/Time: _____
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Group: A	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WI-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	NE-ALS-ECQ						
Group: A	Bottle Type:	QPCR-P-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	PCR-BACR PCR-DG3 PCR-HF183						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative:	CH2CICOOH Pre-Preserved	Enter Number of Bottles Sent to Lab	1
	W-CARB-AA						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	W-CT-CI-R W-PCL-SQ-R						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	W-E8321-DI W-E8321-MS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
	W-ICP W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN						

Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>1</u>
W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
W-PO4-F						
Group: A	Bottle Type:	BG-1L	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
W-PSNP-TQ						
Group: B	Bottle Type:	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: B	Bottle Type:	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
CHLSUITE-W						
Group: B	Bottle Type:	P-250ML-WI-THI	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
NE-ALS-ECQ						
Group: B	Bottle Type:	QPCR-P-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
PCR-BACR PCR-DG3 PCR-HF183						
Group: B	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
W-E8321-DI W-E8321-MS						
Group: B	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>1</u>
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						

Group: B Bottle Type: P-125ML # of Bottles: 1 Preservative: FILTER-ICE Enter Number of Bottles Sent to Lab ()

W-PO4-F

