

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: YS2 Statch

RQ: 2019-09-23-20

Project: Swimmer Summit

- 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.	J. P. Smith	9/25/19	711	23.2	754.6	8.5	8.48	99.3	-	-	(P) F	L / F
ICV	L	9/25/19	713	23.2	754.7	8.5	8.48	99.3	-	-	(P) F	L / F
CCV	K. Kalmbacher	9/25/19	1455	24.2	753	8.3	8.30	98.9	-	-	(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.	J. P. Smith	9/25/19	715	190711B	7/20	1000	1000	(P) F	L / F
ICV	L	9/25/19	717	190711A	7/20	100	104.5	(P) F	L / F
CCV	K. Kalmbacher	9-25-19	1500	190711B	7/2020	1,000	1,002	(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.	J. P. Smith	9/26/19	719	290277B	1/21	7.00	24	7.01	-4.6	(P) F	L / F
Calibr.	L		720	2904800	3/21	4.00	24.2	4.00	174.7	(P) F	L / F
Calibr.	L		722	28010FSS	4/20	10.00	24.2	10.01	176.4	(P) F	L / F
ICV	L		724	2004800	3/21	4.0	23.9	4.05	171	(P) F	L / F
CCV	K. Kalmbacher	9-25-19	1505	2810FSS	4/2020	10.0	24.1	10.00	177.2	(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 $+180 \pm 50$;

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						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: Calf Creek at SE 27th st.

Date: 9/25/2019
(mm/dd/yyyy)

WIN/ Field ID: G1NE0931

WBID: 2720

Latitude: 29.62943

County: Alachua

ORG ID: 21FLA

Longitude: -82.28941

Receiving Body of Water: Calf Pond

RQ-2018-09-23-20

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
J. Parrish A. Kalmbacher						X	X	X	X	X	☒ Sample Container	☐ Van Dorn	☒ Pole		
											☐ Carboy	☐ Syringe			
											☐ Dipper	☐ Other			
											Depth Measured with Secchi				
											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 Pro DSS Stach			Matrix: Fresh / Marine / DI						
Photos: Yes / No						Flow: No Flow / Intestinal / 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 (PPTH)	Sp COND (µmhos/cm)	Temp. (C°)					
EST	230	0.1	0.05	0.1	7.6	89	7.55	0.13	281	23.0					
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	SA9010030	4/2020	☐ <2						
Metals	☒ W-ICPMS ☒ W-ICP					☒ Ice ☒ HNO3	NA9099030	4/2020	☐ <2						
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice	R9BA86875								
Chlorophyll	☒ CHLSUITE-W					☒ Ice									
Physical/Aggregate (Fresh)	☒ Alkalinity / ☐ W-F / ☐ W-TSS / ☐ TURBIDITY / ☐ W-Cl-IC / ☐ W-COLOR / ☐ W-SO4-IC / ☐ W-TDS					☒ Ice	Contains: 1:1 HNO3 Lot No.: NA9099030 Expires: 04/09/20 See Safety Data Sheet (SDS)	Contains: 1:1 H2SO4 Lot No.: SA9010030 Expires: 04/10/20 See Safety Data Sheet (SDS)							
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:

Signature: A. Kalmbacher

WIN ID/Field ID:



G1NE0931

Calf Creek at SE 27th st.

Date: 9-25-2019

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:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: LITTLE WACCASASSA RIVER 0.5 MILE DOWN FROM BLUE SPRINGS

Date: 9-25-2019
(mm/dd/yyyy)

WIN/ Field ID: 23020032

WBID: 3747

Latitude: 29.446383

(Decimal Degrees)

County: Levy

ORG ID: 21FLA

Longitude: -82.70488

(Decimal Degrees)

Receiving Body of Water: Wacasassa river

RQ-2019- 09-23-20

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
J. Parrish						X			
A. Kalmbacher					X		X		

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

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

Meter ID# SI Pro DSS

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	1020	AK 149	AK 07	30 144	4.8	55	7.34	10	207	22.1
CEN		30	15	5						

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	SA9010030	4/2020	☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice	R9BA86875		
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / ☒ W-F / ☒ W-TSS / ☒ TURBIDITY / ☒ W-CI-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:

Signature: A. Kalmbacher

Date: 9-25-2019

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:

WIN ID/Field ID:



23020032

LITTLE WACCASASSA RIVER
0.5 MILE DOWN FROM BLUE SPRINGS

Suwannee South

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Requester: Jeremy M. Parrish

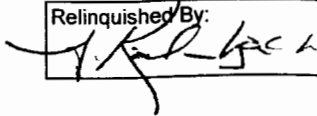
Field Report Prepared By: A. Kalmbacher

Project ID: SMP

Collected By: J. Parrish

Sampling Agency: FDEP/NE REC

Location	WIN ID/Field ID:  G1NE0931	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9-25-2019 Time 1230	Eastern Central	Composite end Date	Time	Bottle Group(s) (See pg 2)	
Field ID	Calf Creek at SE 27th st.	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.6	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		C	
WIN/ST		Temp (C) 23.0	pH 7.55	Sample Depth 0.05	☐ ft ☒ m	Sp. Conductance (umho/cm) 281		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.13	Comments			
Location	WIN ID/Field ID:  23020032	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9-25-2019 Time 1020	Eastern Central	Composite end Date	Time	Bottle Group(s)	
Field ID	LITTLE WACCASASSA RIVER 0.5 MILE DOWN FROM BLUE SPRINGS	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 4.8	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		A	
WIN/STC		Temp (C) 22.1	pH 7.34	Sample Depth .15	☐ ft ☒ m	Sp. Conductance (umho/cm) 207		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) .10	Comments			
Loc	WIN ID/Field ID:  20030925	☐ Comp ☐ Grab	Collection (comp begin or grab) Date	Eastern Central	Composite end Date	Time	Bottle Group(s)	
File	LAKE KANAPAHA ~300M N of 56TH	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		B	
WIN		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments DID NOT SAMPLE			
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date	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: 	Date/Time: 9-25-2019	Shipping Method: FedEx	Number of Coolers Shipped: 1	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-AEG-EC						
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:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
	W-PO4-F						
Group: B	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0
	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 0
CHLSUITE-W

Group: B Bottle Type: P-500ML # of Bottles: 1 Preservative: ICE And H2SO4 Enter Number of Bottles Sent to Lab 0
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 0
W-PO4-F

Group: C Bottle Type: P-1L # of Bottles: 2 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: C Bottle Type: BP-1L # of Bottles: 2 Preservative: ICE Enter Number of Bottles Sent to Lab 1
CHLSUITE-W

Group: C Bottle Type: P-250ML-WI-THI # of Bottles: 2 Preservative: ICE Enter Number of Bottles Sent to Lab 1
NE-AEG-EC *Sent to contract lab*

Group: C Bottle Type: BG-500ML # of Bottles: 2 Preservative: ICE Enter Number of Bottles Sent to Lab 1
W-E8321-DI
W-E8321-MS

Group: C Bottle Type: P-500ML # of Bottles: 2 Preservative: HNO3 Enter Number of Bottles Sent to Lab 1
W-ICP
W-ICPMS

Group: C Bottle Type: P-500ML # of Bottles: 2 Preservative: ICE And H2SO4 Enter Number of Bottles Sent to Lab 1
W-NH3
W-NO2NO3
W-S-A-TP

Group: C	Bottle Type:	P-500ML	# of Bottles: 2	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>1</u>
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W-TKN
W-TOC

Group: C	Bottle Type:	P-125ML	# of Bottles: 2	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
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W-PO4-F

Group: D	Bottle Type:	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
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ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
W-TDS
W-TSS

Group: D	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>0</u>
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W-E8321-DI
W-E8321-MS

Group: D	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab	<u>0</u>
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W-ICP
W-ICPMS

Group: D	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>0</u>
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W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

Group: D	Bottle Type:	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	<u>0</u>
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W-PO4-F



	Altamonte Springs: 380 Northlake Blvd., Suite 1048 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597
✓	Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639
	Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354
	Miramar: 10200 USA Today Way • Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
	Tallahassee: 2639 North Monroe Street, Suite D • Tallahassee, FL 32303 • 850.219.6274 • Fax 850.219.6275
	Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

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