FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified? Yes / No

WIN Station Name: Mosquito Creek @ Jinks Crossing Rd **Date:** 5/29/2019 (mm/dd/yyyy)

WIN/ Field ID: G2TLHR0092 **WBID:** 376A **Latitude:** 30.7027 (Decimal Degrees)

County: Gadsden **ORG ID:** 21FLTLHR **Longitude:** 84.8263 (Decimal Degrees)

Receiving Body of Water: Apalachicola River **RQ-** 2019-05-27-42

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jon Woods	X		X		
Jade Burkhett		X		X	X

Sampling Equipment
- ☐ Sample Container ☒ Van Dorn ☐ Pole
- ☐ Carboy ☐ Syringe
- ☐ Dipper ☐ Other
- Depth Measured with YSI
- Equipment ID 154177

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

Water Level: Dry/ Pooled/ Low / (Normal) / High / Flooded **Meter ID#** 154177 **Matrix:** (Fresh) / Marine / DI

Photos: Yes / (No) **Flow:** No Flow / Intestital / (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)	1135	1.4	0.3	1.2	7.20	93.6	7.56	0.04	79.6	28.6
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 ☐ H_2SO_4			☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO_3			☐ <2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm 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 ☐ 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			

Place Preservative Sticker(s) Here (If Available)

Notes:

Place Label Here

Signature: J Woods **Date:** 5/29/19

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 _____ (Initials/Date) **Migrate Data to WIN:** _____ (Initials/Date) **Verify Data In WIN:** _____ (Initials/Date)

Request Number: RQ-2019-05-27-42

Run 4

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: TLH-ROC

Project ID: SMP

Requester: Michael Eckles

Collected By: Jon Woods / Jade Burtchett

Field Report Prepared By: Jon Woods

Sampling Agency: 8034

Field/WIN ID → G2TLHR0092

Location ↓ Mosquito Creek @ Jinks Crossing Rd

Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1135	Eastern Central	Composite end Date Time
Field ID		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.20	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/STORE		Temp (C) 28.8	pH 7.56	Sample Depth 0.3 ☐ ft ☒ m	Sp. Conductance (umho/cm) 79.8
Latitude ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.04	Comments		

Bottle Group(s) (See pg 2): C

Field/WIN ID → G2TLHR0039

Location ↓ South Mosquito Creek @ Power Line

Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1150	Eastern Central	Composite end Date Time
Field ID		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 8.10	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/ST		Temp (C) 25.2	pH 7.56	Sample Depth 0.25 ☐ ft ☒ m	Sp. Conductance (umho/cm) 57.8
Latitude ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.03	Comments		

Bottle Group(s): B

Location South Mosquito Creek @ Power Line		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1155	Eastern Central	Composite end Date Time
Field ID G2TLHR0039_Dup		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 8.10	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/STORET # G2TLHR0039		Temp (C) 25.2	pH 7.56	Sample Depth 0.25 ☐ ft ☒ m	Sp. Conductance (umho/cm) 57.8
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.03	Comments		

Bottle Group(s): B

Location FB_05292019		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1350	Eastern Central	Composite end Date Time
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		

Bottle Group(s): D

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
JW	5/29/19: 1405	HD	1	[signature]	5/29/19 1406

Group:	Bottle Type:	# of Bottles:	Preservative:	Enter Number of Bottles Sent to Lab
A	P-1L	2	ICE	
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
A	BP-1L	2	ICE	
	CHLSUITE-W			
A	P-500ML	2	HNO3	
	W-ICP W-ICPMS			
A	P-500ML	2	ICE And H2SO4	
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC			
A	P-125ML	2	FILTER-ICE	
	W-PO4-F			
B	P-1L	6	ICE	2
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
B	BP-1L	6	ICE	2
	CHLSUITE-W			

Group	Bottle Type	# of Bottles	Preservative	Enter Number of Bottles Sent to Lab
B	P-250ML-WO-THI ECOLI-18QT	6	ICE	4
B	P-500ML W-ICP W-ICPMS	6	HNO3 9099030 4/9/20	2
B	P-500ML W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	6	ICE And H2SO4 9010030 4/10/20	2
B	P-125ML W-PO4-F	6	FILTER-ICE	2
C	P-250ML-WO-THI ECOLI-18QT	1	ICE	2
D	P-1L ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	1	ICE	1
D	BP-1L CHLSUITE-W	1	ICE	0
D	P-250ML-WO-THI ECOLI-18QT	1	ICE	2
D	P-500ML W-ICP W-ICPMS	1	HNO3 9099030 4/9/20	1
D	P-500ML	1	ICE And H2SO4 9010030 4/10/20	1

Group:	Bottle Type:	# of Bottles:	Preservative:	Enter Number of Bottles Sent to Lab
D	P-500ML	1	ICE And H2SO4	1

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

9010030
4/10/20

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

W-PO4-F

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-** 2019.05.27.42 **Project:** SMP2019

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. Burtchett	5/29/19	805	21.0	756.0	8.9	8.87	99.5	—	0.98	P / F	L / F
ICV	"	↓	815	21.4	756.0	8.8	8.79	99.3	—	—	P / F	L / F
CCV	Jon Woods		1405	25.8	755.0	8.1	8.05	99.0	—	—	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.	J. Burtchett	5/29/19	807	180621C	07/19	1000	1000	P / F	L / F
ICV	"	↓	819	2805884	07/20	100	102	P / F	L / F
CCV	Jon Woods		1407	180621C	7/2019	1000	980	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.	J. Burtchett	5/29/19	809	180621E	01/20	7.01	21.4	7.02	-2.0	P / F	L / F
Calibr.	"	↓	811	190405B	10/20	4.01	20.9	4.00	173.4	P / F	L / F
Calibr.	"		813	180621F	01/20	10.05	21.1	10.05	-172.4	P / F	L / F
ICV	"		819	180621F	01/20	10.05	20.9	10.04	-173.1	P / F	L / F
CCV	Jon Woods		1409	190405B	10/2020	4.00	22.2	4.14	164.9	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	J. Burtchett	5/29/19	802	0.000	0.000	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

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:** 5/29/2019 (mm/dd/yyyy)

WIN/ Field ID: G2TLHR0041 **WBID:** 488 **Latitude:** 30.6306 (Decimal Degrees)

County: Gadsden **ORG ID:** 21FLTLHR **Longitude:** 84.7664 (Decimal Degrees)

Receiving Body of Water: Flat Creek **RQ-** 05 2019-05-27-42

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jon Woods	X		X		
Jade Butchett		X		X	X

Sampling Equipment

- ☐ Sample Container ☒ Van Dorn ☐ Pole
- ☐ Carboy ☐ Syringe
- ☐ Dipper ☐ Other
- Depth Measured with YSI
- Equipment ID 154177

Collection Method

- ☒ Wading ☐ Canoe/Kayak
- ☐ From Shore ☐ Electric Motor
- ☒ Other Bridge ☐ Gasoline Motor

Water Level: Dry/ Pooled/ Low / (Normal) / High / Flooded **Meter ID#** 154177 **Matrix:** (Fresh) / Marine / DI

Photos: Yes / (No) **Flow:** No Flow / Intestital / (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. (C⁰)
(EST)	945	0.2	0.1	0.2	7.96	94.1	6.90	0.01	27.4	23.7
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 ☒ H_2SO_4	9010030	4/10/20	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO_3	9099030	4/9/20	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm 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 ☐ 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			

Place Preservative Sticker(s) Here (If Available)

Notes:

Place Label Here

Signature: Jon Woods **Date:** 5/29/19

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 (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

Request Number: RQ-2019-05-27-42

Run 4

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: TLH-ROC

Project ID: SMP

Requester: Michael Eckles

Collected By: Jon Woods / Jade Bustchett

Field Report Prepared By: Jon Woods

Sampling Agency: 8034

Field/WIN ID → G2TLHR0041
Location ↓
Unnamed Branch @ Hardaway Rd 2

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 945	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2) B
Field	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.98	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/	Temp (C) 23.7	pH 6.90	Sample Depth 0.1	☐ ft ☒ m	Sp. Conductance (umho/cm) 27.4
Latitu... ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.01	Comments		

Field/WIN ID → G2TLHR0031
Location ↓
Unnamed Branch @ Flat Creek Rd

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1010	Eastern Central	Composite end Date Time	Bottle Group(s) B
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.40	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/ST	Temp (C) 22.6	pH 7.40	Sample Depth 0.15	☐ ft ☒ m	Sp. Conductance (umho/cm) 145.7
Latitude ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.07	Comments		

Field/WIN ID → G2TLHR0015
Location ↓
MOSQUITO CREEK @ SR269

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1035	Eastern Central	Composite end Date Time	Bottle Group(s) JW B
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.13	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STO	Temp (C) 26.0	pH 7.39	Sample Depth 0.15	☐ ft ☒ m	Sp. Conductance (umho/cm) 88.6
Latitude ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.04	Comments		

Field/WIN ID → G2TLHR0002
Location ↓
Lake Seminole 200m from boat ramp @ River Rd

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1100	Eastern Central	Composite end Date Time	Bottle Group(s) A
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 10.18	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/ST	Temp (C) 29.6	pH 8.48	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 98.4
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.04	Comments		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
JW	5/29/19 1405	HD	1	[signature]	5/29/19 1406

Group	Bottle Type		# of Bottles	Preservative		Enter Number of Bottles Sent to Lab
A		P-1L	2		ICE	2
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS					
A		BP-1L	2		ICE	2
	CHLSUITE-W					
A		P-500ML	2		HNO3	2
	W-ICP W-ICPMS					
A		P-500ML	2		ICE And H2SO4	2
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
A		P-125ML	2		FILTER-ICE	2
	W-PO4-F					
B		P-1L	6		ICE	~~2~~ 3
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS					
B		BP-1L	6		ICE	~~2~~ 3
	CHLSUITE-W					

Group: B	Bottle Type:	P-250ML-WO-THI	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	~~2~~ ~~4~~ 6
	ECOLI-18QT						
Group: B	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	HNO3 9099030 4/9/20	Enter Number of Bottles Sent to Lab	~~2~~ 3
	W-ICP W-ICPMS						
Group: B	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4 9010030 4/10/20	Enter Number of Bottles Sent to Lab	~~2~~ 3
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
Group: B	Bottle Type:	P-125ML	# of Bottles: 6	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	~~2~~ 3
	W-PO4-F						
Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	~~2~~ 0
	ECOLI-18QT						
Group: D	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						
Group: D	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	CHLSUITE-W						
Group: D	Bottle Type:	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	ECOLI-18QT						
Group: D	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	
	W-ICP W-ICPMS						
Group: D	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	

Group: D Bottle Type: P-500ML # of Bottles: 1 Preservative: ICE And H2SO4 **Enter Number of Bottles Sent to Lab** _____

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** _____

W-PO4-F

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-** 2019.05.27.42 **Project:** SMP2019

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	Barometer mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	J. Burtchett	5/29/19	805	21.0	756.0	8.9	8.87	99.5	—	0.98	P / F	L / F
ICV	"	↓	815	21.4	756.0	8.8	8.79	99.3	—	—	P / F	L / F
CCV	Jon Woods		1405	25.8	755.0	8.1	8.05	99.0	—	—	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.	J. Burtchett	5/29/19	807	1806216	07/19	1000	1000	P / F	L / F
ICV	"	↓	819	2806884	07/20	100	102	P / F	L / F
CCV	Jon Woods		1407	1806216	7/2019	1000	940	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.	J. Burtchett	5/29/19	809	K0621E	01/20	7.01	21.4	7.02	-2.0	P / F	L / F
Calibr.	"	↓	811	1904053	10/20	4.01	20.9	4.00	173.4	P / F	L / F
Calibr.	"		813	1806216	01/20	10.05	21.1	10.05	-172.4	P / F	L / F
ICV	"	↓	819	1806216	01/20	10.05	20.9	10.04	-173.1	P / F	L / F
CCV	Jon Woods		1409	1904053	10/2020	4.00	22.2	4.14	164.9	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	J. Burtchett	5/29/19	802	0.000	0.008	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

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?
Yes / No

WIN Station Name: South Mosquito Creek @ Powerline **Date:** 5/29/2019 (mm/dd/yyyy)

WIN ID/ 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 -** 2019.05.27.42

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection
Jon Woods	X		X				
Jade Butchett		X		X	X	X	

Sampling Equipment

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

Depth Measured with: YSI

Equipment ID 154177

Collection Method

- [x] 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 / Intestital / Flowing / NA **Tide:** Rising/ Falling/ Slack/ NA **Tide Times:** High Low (Bracket Sample Time)

Field Sample

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	1150	0.5	0.25	0.5	8.10	94.4	7.56	0.03	57.4	25.2
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	[x] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[x] Ice [x] H_2SO_4	9010030	4/10/20	[x] <2
Metals	[x] W-ICPMS [ ] W-ICP	[x] Ice [x] HNO_3	9099030	4/9/20	[x] <2
Filtered Nutrients	[x] W-PO4-F [ ] Field Filtered 0.45 µm Filter	[x] Ice			
Chlorophyll	[x] CHLSUITE-W	[x] Ice			
Physical/Aggregate (Fresh)	[x] Alkalinity W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[x] Ice			
Physical/Aggregate (Marine)	[ ] Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	[ ] Ice			
Macroinvertebrates	[ ] MI-FW-QLDC	[ ] Formalin			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Microbiology	[x] E Coli [ ] F Coli [ ] Enterococci	[x] Ice			
Molecular	[ ] PCR-FILTER [ ] PCR-BacR [ ] PCR-GULL2 [ ] PCR-HF183 [ ] PCR-DG3 [ ] PCR-GFD	[ ] Ice			
Tracers	[ ] W-E3821-MS [ ] W-E32821-DI	[ ] Ice			
Pesticides	[ ] W-PSNP-TQ [ ] W-E3821-MS [ ] W-CT-CL-R [ ] W-PCL-SQ-R [ ] W-E3821-DI [ ] W-CARB-AA	[ ] Ice			
Phytoplankton	[ ] DTY-QN-C [ ] PKD-QN-C	[ ] Ice			

Place Preservative Sticker(s) Here (If Available)

QA/QC Sample Information

Duplicate

Time Zone: (EST) CEN **Time:** 1155 **Field ID:** G2TCHR0039 – Dup (WIN ID_DUP)

WIN DMT Activity ID:

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_2SO_4	9010030	4/10/20	☒ < 2
Metals	☒ W-ICPMS ☐ W-ICP	☒ Ice ☐ HNO_3	9099030	4/9/20	☒ < 2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 µm 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			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E3821-MS ☐ W-E3821-DI	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E3821-DI ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E-3821-MS ☐ W-CARB-AA	☐ Ice			

Place Preservative Sticker(s) Here (If Available)

Blank

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

DI Source: _____ **Location:** _____

☐ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank **Equipment ID:** _____

WIN DMT Blank Batch ID:

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_2SO_4			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO_3			☐ < 2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ 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-F / W-TSS / TURBIDITY	☐ Ice			
Tracers	☐ W-E3821-MS ☐ W-E3821-DI	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E3821-DI ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E3821-MS ☐ W-CARB-AA	☐ Other _____			
Microbiology	☐ E.coli ☐ F. Coliform ☐ Entrococci				

Notes:

Place Label Here

Signature: [signature] Date: 5/29/19

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 _____ (Initials/Date) **Migrate Data to WIN:** _____ (Initials/Date) **Verify Data In WIN:** _____ (Initials/Date)

Request Number: RQ-2019-05-27-42

Run 4

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: TLH-ROC

Project ID: SMP

Requester: Michael Eckles

Collected By: Jon Woods / Jade Burtchett

Field Report Prepared By: Jon Woods

Sampling Agency: 8034

Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1135	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Field ID	Field/WIN ID → G2TLHR0092	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.20 ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	C
WIN/STORE	Location ↓ Mosquito Creek @ Jinks Crossing Rd	Temp (C) 28.8	pH 7.56	Sample Depth 0.3 ☐ ft ☒ m	Sp. Conductance (umho/cm) 79.8	
Latitude ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.04	Comments			
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1150	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID	Field/WIN ID → G2TLHR0039	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 8.10 ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	B
WIN/ST	Location ↓ South Mosquito Creek @ Power Line	Temp (C) 25.2	pH 7.56	Sample Depth 0.25 ☐ ft ☒ m	Sp. Conductance (umho/cm) 57.8	
Latitude ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.03	Comments			
Location South Mosquito Creek @ Power Line		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1155	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID G2TLHR0039_Dup		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 8.10 ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	B
WIN/STORET # G2TLHR0039		Temp (C) 25.2	pH 7.56	Sample Depth 0.25 ☐ ft ☒ m	Sp. Conductance (umho/cm) 57.8	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.03	Comments			
Location FB_05292019		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1350	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)	D
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	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
JW	5/29/19: 1405	HD	1	[signature]	5/29/19 1406

Group:	Bottle Type:	# of Bottles:	Preservative:	Enter Number of Bottles Sent to Lab
A	P-1L	2	ICE	
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
A	BP-1L	2	ICE	
	CHLSUITE-W			
A	P-500ML	2	HNO3	
	W-ICP W-ICPMS			
A	P-500ML	2	ICE And H2SO4	
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC			
A	P-125ML	2	FILTER-ICE	
	W-PO4-F			
B	P-1L	6	ICE	2
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
B	BP-1L	6	ICE	2
	CHLSUITE-W			

Group	Bottle Type	# of Bottles	Preservative	Enter Number of Bottles Sent to Lab
B	P-250ML-WO-THI ECOLI-18QT	6	ICE	4
B	P-500ML W-ICP W-ICPMS	6	HNO3 9099030 4/9/20	2
B	P-500ML W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	6	ICE And H2SO4 9010030 4/10/20	2
B	P-125ML W-PO4-F	6	FILTER-ICE	2
C	P-250ML-WO-THI ECOLI-18QT	1	ICE	2
D	P-1L ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	1	ICE	1
D	BP-1L CHLSUITE-W	1	ICE	0
D	P-250ML-WO-THI ECOLI-18QT	1	ICE	2
D	P-500ML W-ICP W-ICPMS	1	HNO3 9099030 4/9/20	1
D	P-500ML	1	ICE And H2SO4 9010030 4/10/20	1

Group:	Bottle Type:	# of Bottles:	Preservative:	Enter Number of Bottles Sent to Lab
D	P-500ML	1	ICE And H2SO4	1

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

9010030
4/10/20

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

W-PO4-F

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-** 2019.05.27.42 **Project:** SMP2019

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	Barometer mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	J. Burtchett	5/29/19	805	21.0	756.0	8.9	8.87	99.5	—	0.98	P / F	L / F
ICV	"	↓	815	21.4	756.0	8.8	8.79	99.3	—	—	P / F	L / F
CCV	Jon Woods		1405	25.8	755.0	8.1	8.05	99.0	—	—	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.	J. Burtchett	5/29/19	807	1806216	07/19	1000	1000	P / F	L / F
ICV	"	↓	819	2806 5884	07/20	100	102	P / F	L / F
CCV	Jon Woods		1407	1806216	7/2019	1000	980	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.	J. Burtchett	5/29/19	809	K0621E	01/20	7.01	21.4	7.02	-2.0	P / F	L / F
Calibr.	"	↓	811	1904053	10/20	4.01	20.9	4.00	173.4	P / F	L / F
Calibr.	"		813	1806216	01/20	10.05	21.1	10.05	-172.4	P / F	L / F
ICV	"	↓	819	1806216	01/20	10.05	20.9	10.04	-173.1	P / F	L / F
CCV	Jon Woods		1409	1904053	10/2020	4.00	22.2	4.14	164.9	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	J. Burtchett	5/29/19	802	0.000	0.008	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

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified? Yes / No

WIN Station Name: Unnamed Branch @ Flat Creek Rd **Date:** 5/29/2019 (mm/dd/yyyy)

WIN/ Field ID: G2TLHR0031 **WBID:** 477 **Latitude:** 30.628287 (Decimal Degrees)

County: Gadsden **ORG ID:** 21FLTLHR **Longitude:** 84.825169 (Decimal Degrees)

Receiving Body of Water: Flat Creek **RQ-** 2019-05-27-42

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Son Woods	X		X		
Jade Burkhart		X		X	X

Sampling Equipment
- ☐ Sample Container ☒ Van Dorn ☐ Pole
- ☐ Carboy ☐ Syringe
- ☐ Dipper ☐ Other
- Depth Measured with YSI
- Equipment ID 154177

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

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded **Meter ID#** 154177 **Matrix:** Fresh / Marine / DI

Photos: Yes / No **Flow:** No Flow / Intestital / 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. (C⁰)
EST	1010	0.3	0.15	0.3	7.40	85.6	7.40	0.07	145.7	22.6
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 ☒ H_2SO_4	9010030	4/10/20	☒ <2
Metals	☒ W-ICPMS ☐ W-ICP	☒ Ice ☒ HNO_3	9099030	4/9/19	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm 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 ☐ 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			

Place Preservative Sticker(s) Here (If Available)

Notes:

Place Label Here

Signature: [signature] **Date:** 5/29/19

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 (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

Request Number: RQ-2019-05-27-42

Run 4

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: TLH-ROC

Project ID: SMP

Requester: Michael Eckles

Collected By: Jon Woods / Jade Bustchett

Field Report Prepared By: Jon Woods

Sampling Agency: 8034

Field/WIN ID → G2TLHR0041

Location ↓ Unnamed Branch @ Hardaway Rd 2

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 945	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2) B
Field	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.98	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/	Temp (C) 23.7	pH 6.90	Sample Depth 0.1	☐ ft ☒ m	Sp. Conductance (umho/cm) 27.4
Latitu	☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.01	Comments	

Field/WIN ID → G2TLHR0031

Location ↓ Unnamed Branch @ Flat Creek Rd

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1010	Eastern Central	Composite end Date Time	Bottle Group(s) B
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.40	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/ST	Temp (C) 22.6	pH 7.40	Sample Depth 0.15	☐ ft ☒ m	Sp. Conductance (umho/cm) 145.7
Latitude	☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.07	Comments	

Field/WIN ID → G2TLHR0015

Location ↓ MOSQUITO CREEK @ SR269

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1035	Eastern Central	Composite end Date Time	Bottle Group(s) ~~A~~ B
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.13	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STO	Temp (C) 26.0	pH 7.39	Sample Depth 0.15	☐ ft ☒ m	Sp. Conductance (umho/cm) 88.6
Latitude	☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.04	Comments	

Field/WIN ID → G2TLHR0002

Location ↓ Lake Seminole 200m from boat ramp @ River Rd

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1100	Eastern Central	Composite end Date Time	Bottle Group(s) A
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 10.18	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/ST	Temp (C) 29.8	pH 8.48	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 98.4
Latitude	☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.04	Comments	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
JW	5/29/19 1405	HD	1	[signature]	5/29/19 1406

Group	Bottle Type	# of Bottles	Preservative	Enter Number of Bottles Sent to Lab
A	P-1L	2	ICE	2
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
A	BP-1L	2	ICE	2
	CHLSUITE-W			
A	P-500ML	2	HNO3	2
	W-ICP W-ICPMS			
A	P-500ML	2	ICE And H2SO4	2
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC			
A	P-125ML	2	FILTER-ICE	2
	W-PO4-F			
B	P-1L	6	ICE	~~2~~ 3
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
B	BP-1L	6	ICE	~~2~~ 3
	CHLSUITE-W			

Group: B	Bottle Type:	P-250ML-WO-THI	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	~~2~~ ~~4~~ 6
	ECOLI-18QT						
Group: B	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	HNO3 9099030 4/9/20	Enter Number of Bottles Sent to Lab	~~2~~ 3
	W-ICP W-ICPMS						
Group: B	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4 9010030 4/10/20	Enter Number of Bottles Sent to Lab	~~2~~ 3
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
Group: B	Bottle Type:	P-125ML	# of Bottles: 6	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	~~2~~ 3
	W-PO4-F						
Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	~~2~~ 0
	ECOLI-18QT						
Group: D	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						
Group: D	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	CHLSUITE-W						
Group: D	Bottle Type:	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	ECOLI-18QT						
Group: D	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	
	W-ICP W-ICPMS						
Group: D	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	

Group: D Bottle Type: P-500ML # of Bottles: 1 Preservative: ICE And H2SO4 **Enter Number of Bottles Sent to Lab** _____

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** _____

W-PO4-F

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-** 2019.05.27.42 **Project:** SMP2019

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	Barometer mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	J. Burtchett	5/29/19	805	21.0	756.0	8.9	8.87	99.5	—	0.98	P / F	L / F
ICV	"	↓	815	21.4	756.0	8.8	8.79	99.3	—	—	P / F	L / F
CCV	Jon Woods		1405	25.8	755.0	8.1	8.05	99.0	—	—	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.	J. Burtchett	5/29/19	807	1806210	07/19	1000	1000	P / F	L / F
ICV	"	↓	819	2806 5884	07/20	100	102	P / F	L / F
CCV	Jon Woods		1407	1806210	7/2019	1000	940	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.	J. Burtchett	5/29/19	809	K0621E	01/20	7.01	21.4	7.02	-2.0	P / F	L / F
Calibr.	"	↓	811	1904053	10/20	4.01	20.9	4.00	173.4	P / F	L / F
Calibr.	"		813	1806210F	01/20	10.05	21.1	10.05	-172.4	P / F	L / F
ICV	"	↓	819	1806210F	01/20	10.05	20.9	10.04	-173.1	P / F	L / F
CCV	Jon Woods		1409	1904053	10/2020	4.00	22.2	4.14	164.9	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	J. Burtchett	5/29/19	802	0.000	0.008	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

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified? Yes / No

WIN Station Name: Mosquito Creek @ SR269 **Date:** _____ (mm/dd/yyyy)

WIN/ Field ID: G2TLHR0015 **WBID:** 376A **Latitude:** 30.6886088 (Decimal Degrees)

County: Gadsden **ORG ID:** 21FLTLHR **Longitude:** 84.8415925 (Decimal Degrees)

Receiving Body of Water: Apalachicola River **RQ-** 2019-05-27-42

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jon Woods	X		X		
Jade Butchett		X		X	X

Sampling Equipment
- [x] Sample Container
- [ ] Van Dorn
- [ ] Pole
- [ ] Carboy
- [ ] Syringe
- [ ] Dipper
- [ ] Other _____

Depth Measured with YSI
Equipment ID 154177

Collection Method
- [x] 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 / Intestital / (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. (C⁰)
(EST)	1035	0.3	0.15	0.3	7.13	87.9	7.39	0.04	88.6	26.0
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	[x] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[x] Ice [x] H_2SO_4	9010030	4/10/20	[x] <2
Metals	[x] W-ICPMS [x] W-ICP	[x] Ice [x] HNO_3	9099030	4/9/20	[x] <2
Filtered Nutrients	[x] W-PO4-F [x] Field Filtered 0.45 µm Filter	[x] Ice			
Chlorophyll	[x] CHLSUITE-W	[x] Ice			
Physical/Aggregate (Fresh)	[x] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[x] Ice			
Physical/Aggregate (Marine)	[ ] Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	[ ] Ice			
Macroinvertebrates	[ ] MI-FW-QLDC	[ ] Formalin			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Microbiology	[x] E Coli [ ] F Coli [ ] Enterococci	[x] 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			

Place Preservative Sticker(s) Here (If Available)

Notes:

Field/WIN ID → G2TLHR0015

Location ↓ MOSQUITO CREEK @ SR269

Signature: [signature] **Date:** 5/29/19

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 _____ (Initials/Date) Migrate Data to WIN: _____ (Initials/Date) Verify Data In WIN: _____ (Initials/Date)

Request Number: RQ-2019-05-27-42

Run 4

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: TLH-ROC

Project ID: SMP

Requester: Michael Eckles

Collected By: Jon Woods / Jade Bustchett

Field Report Prepared By: Jon Woods

Sampling Agency: 8034

Field/WIN ID → G2TLHR0041

Location ↓ Unnamed Branch @ Hardaway Rd 2

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 945	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2) B
Field	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.98	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/	Temp (C) 23.7	pH 6.90	Sample Depth 0.1	☐ ft ☒ m	Sp. Conductance (umho/cm) 27.4
Latitu	☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.01	Comments	

Field/WIN ID → G2TLHR0031

Location ↓ Unnamed Branch @ Flat Creek Rd

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1010	Eastern Central	Composite end Date Time	Bottle Group(s) B
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.40	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/ST	Temp (C) 22.6	pH 7.40	Sample Depth 0.15	☐ ft ☒ m	Sp. Conductance (umho/cm) 145.7
Latitude	☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.07	Comments	

Field/WIN ID → G2TLHR0015

Location ↓ MOSQUITO CREEK @ SR269

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1035	Eastern Central	Composite end Date Time	Bottle Group(s) JW B
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.13	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STO	Temp (C) 26.0	pH 7.39	Sample Depth 0.15	☐ ft ☒ m	Sp. Conductance (umho/cm) 88.6
Latitude	☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.04	Comments	

Field/WIN ID → G2TLHR0002

Location ↓ Lake Seminole 200m from boat ramp @ River Rd

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1100	Eastern Central	Composite end Date Time	Bottle Group(s) A
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 10.18	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/ST	Temp (C) 29.8	pH 8.48	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 98.4
Latitude	☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.04	Comments	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
JW	5/29/19 1405	HD	1	[signature]	5/29/19 1406

Group	Bottle Type	# of Bottles	Preservative	Enter Number of Bottles Sent to Lab
A	P-1L	2	ICE	2
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
A	BP-1L	2	ICE	2
	CHLSUITE-W			
A	P-500ML	2	HNO3	2
	W-ICP W-ICPMS			
A	P-500ML	2	ICE And H2SO4	2
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC			
A	P-125ML	2	FILTER-ICE	2
	W-PO4-F			
B	P-1L	6	ICE	~~2~~ 3
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
B	BP-1L	6	ICE	~~2~~ 3
	CHLSUITE-W			

Group	Bottle Type	# of Bottles	Preservative	Enter Number of Bottles Sent to Lab
B	P-250ML-WO-THI ECOLI-18QT	6	ICE	~~2~~ ~~4~~ 6
B	P-500ML W-ICP W-ICPMS	6	HNO3 9099030 4/9/20	~~2~~ 3
B	P-500ML W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	6	ICE And H2SO4 9010030 4/10/20	~~2~~ 3
B	P-125ML W-PO4-F	6	FILTER-ICE	~~2~~ 3
C	P-250ML-WO-THI ECOLI-18QT	1	ICE	~~2~~ 0
D	P-1L ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	1	ICE	
D	BP-1L CHLSUITE-W	1	ICE	
D	P-250ML-WO-THI ECOLI-18QT	1	ICE	
D	P-500ML W-ICP W-ICPMS	1	HNO3	
D	P-500ML	1	ICE And H2SO4	

Group: D Bottle Type: P-500ML # of Bottles: 1 Preservative: ICE And H2SO4 **Enter Number of Bottles Sent to Lab** _____

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** _____

W-PO4-F

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-** 2019.05.27.42 **Project:** SMP2019

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	Barometer mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	J. Burtchett	5/29/19	805	21.0	756.0	8.9	8.87	99.5	—	0.98	P / F	L / F
ICV	"	↓	815	21.4	756.0	8.8	8.79	99.3	—	—	P / F	L / F
CCV	Jon Woods		1405	25.8	755.0	8.1	8.05	99.0	—	—	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.	J. Burtchett	5/29/19	807	1806216	07/19	1000	1000	P / F	L / F
ICV	"	↓	819	2806 5884	07/20	100	102	P / F	L / F
CCV	Jon Woods		1407	1806216	7/2019	1000	940	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.	J. Burtchett	5/29/19	809	K0621E	01/20	7.01	21.4	7.02	-2.0	P / F	L / F
Calibr.	"	↓	811	1904053	10/20	4.01	20.9	4.00	173.4	P / F	L / F
Calibr.	"		813	1806216	01/20	10.05	21.1	10.05	-172.4	P / F	L / F
ICV	"		819	1806216	01/20	10.05	20.9	10.04	-173.1	P / F	L / F
CCV	Jon Woods		1409	1904053	10/2020	4.00	22.2	4.14	164.9	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	J. Burtchett	5/29/19	802	0.000	0.008	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

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified? Yes / No

WIN Station Name: Lake Seminole 200m from boat ramp @ River Rd **Date:** 5/29/2019 (mm/dd/yyyy)

WIN/ Field ID: G2TLHR0002 **WBID:** 60 **Latitude:** 30.743518 (Decimal Degrees)

County: Jackson **ORG ID:** 21FLTLHR **Longitude:** 84.9204569 (Decimal Degrees)

Receiving Body of Water: Apalachicola River **RQ-**

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jon Woods	X		X		
Jude Butchett		X		X	X

Sampling Equipment
- ☐ Sample Container ☐ Van Dorn ☐ Pole
- ☐ Carboy ☐ Syringe
- ☐ Dipper ☐ Other
- Depth Measured with YSI
- 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) / Intestital / 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. (C⁰)
(EST)	1100	0.7	0.3	0.7	10.16	134.4	8.48	0.04	98.4	29.8
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 ☒ H_2SO_4	9010030	4/10/20	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO_3	9099030	4/9/20	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm 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 ☐ 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			

Place Preservative Sticker(s) Here (If Available)

Notes:

Place Label Here

Signature: [signature] Date: 5/29/19

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 (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

Request Number: RQ-2019-05-27-42

Run 4

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: TLH-ROC

Project ID: SMP

Requester: Michael Eckles

Collected By: Jon Woods / Jade Bustchett

Field Report Prepared By: Jon Woods

Sampling Agency: 8034

Field/WIN ID → G2TLHR0041
Location ↓
Unnamed Branch @ Hardaway Rd 2

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 945	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2) B
Field	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.98	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/	Temp (C) 23.7	pH 6.90	Sample Depth 0.1	☐ ft ☒ m	Sp. Conductance (umho/cm) 27.4
Latitu ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.01	Comments		

Field/WIN ID → G2TLHR0031
Location ↓
Unnamed Branch @ Flat Creek Rd

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1010	Eastern Central	Composite end Date Time	Bottle Group(s) B
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.40	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/ST	Temp (C) 22.6	pH 7.40	Sample Depth 0.15	☐ ft ☒ m	Sp. Conductance (umho/cm) 145.7
Latitude ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.07	Comments		

Field/WIN ID → G2TLHR0015
Location ↓
MOSQUITO CREEK @ SR269

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1035	Eastern Central	Composite end Date Time	Bottle Group(s) JW ~~C~~ B
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.13	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STO	Temp (C) 26.0	pH 7.39	Sample Depth 0.15	☐ ft ☒ m	Sp. Conductance (umho/cm) 88.6
Latitude ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.04	Comments		

Field/WIN ID → G2TLHR0002
Location ↓
Lake Seminole 200m from boat ramp @ River Rd

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/29/19 Time 1100	Eastern Central	Composite end Date Time	Bottle Group(s) A
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 10.18	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/ST	Temp (C) 29.6	pH 8.48	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 98.4
Latitude ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.04	Comments		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
JW	5/29/19 1405	HD	1	[signature]	5/29/19 1406

Group:	Bottle Type:	# of Bottles:	Preservative:	Enter Number of Bottles Sent to Lab
A	P-1L	2	ICE	2
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
A	BP-1L	2	ICE	2
	CHLSUITE-W			
A	P-500ML	2	HNO3	2
	W-ICP W-ICPMS			
A	P-500ML	2	ICE And H2SO4	2
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC			
A	P-125ML	2	FILTER-ICE	2
	W-PO4-F			
B	P-1L	6	ICE	~~2~~ 3
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
B	BP-1L	6	ICE	~~2~~ 3
	CHLSUITE-W			

Group: B	Bottle Type:	P-250ML-WO-THI	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	~~2~~ ~~4~~ 6
	ECOLI-18QT						
Group: B	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	HNO3 9099030 4/9/20	Enter Number of Bottles Sent to Lab	~~2~~ 3
	W-ICP W-ICPMS						
Group: B	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4 9010030 4/10/20	Enter Number of Bottles Sent to Lab	~~2~~ 3
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
Group: B	Bottle Type:	P-125ML	# of Bottles: 6	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	~~2~~ 3
	W-PO4-F						
Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	~~2~~ 0
	ECOLI-18QT						
Group: D	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						
Group: D	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	CHLSUITE-W						
Group: D	Bottle Type:	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	ECOLI-18QT						
Group: D	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	
	W-ICP W-ICPMS						
Group: D	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	

Group: D Bottle Type: P-500ML # of Bottles: 1 Preservative: ICE And H2SO4 **Enter Number of Bottles Sent to Lab** _____

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** _____

W-PO4-F

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-** 2019.05.27.42 **Project:** SMP2019

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	Barometer mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	J. Burtchett	5/29/19	805	21.0	756.0	8.9	8.87	99.5	—	0.98	P / F	L / F
ICV	"	↓	815	21.4	756.0	8.8	8.79	99.3	—	—	P / F	L / F
CCV	Jon Woods		1405	25.8	755.0	8.1	8.05	99.0	—	—	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.	J. Burtchett	5/29/19	807	1806216	07/19	1000	1000	P / F	L / F
ICV	"	↓	819	2806884	07/20	100	102	P / F	L / F
CCV	Jon Woods		1407	1806216	7/2019	1000	980	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.	J. Burtchett	5/29/19	809	K0621E	01/20	7.01	21.4	7.02	-2.0	P / F	L / F
Calibr.	"	↓	811	1904053	10/20	4.01	20.9	4.00	173.4	P / F	L / F
Calibr.	"		813	1806216	01/20	10.05	21.1	10.05	-172.4	P / F	L / F
ICV	"	↓	819	1806216	01/20	10.05	20.9	10.04	-173.1	P / F	L / F
CCV	Jon Woods		1409	1904053	10/2020	4.00	22.2	4.14	164.9	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	J. Burtchett	5/29/19	802	0.000	0.008	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