



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Date Qualified?

Yes / No

WIN Station Name: Lake Monkey Business Middle

Date: 10/03/2018

WIN/ Field ID: G1WA0036

WBID: 546C

Latitude: 30.60779

(mm/dd/yyyy)

County: Leon

ORG ID: 21FLWQA

Longitude: -84.23076

(Decimal Degrees)

Receiving Body of Water: Lake Iamonia

RQ-2018- 10-01-20

(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Curtis Musson						X		X	X	☒ Sample Container	☐ Van Dorn	☐ Pole		
Blake Spencer					X		X			☐ Carboy	☒ Syringe			
										☐ Dipper	☐ Other			
										Depth Measured with <u>Sonar #1</u>				
										Equipment ID				
										Collection Method				
										☐ Wading	☒ Canoe/Kayak			
										☐ From Shore	☐ Electric Motor			
										☐ Other	☐ Gasoline Motor			
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded										Meter ID# Biology #2		Matrix: <u>Fresh</u> Marine / DI		
Photos: Yes / <u>No</u> Flow: No Flow / Intestinal / Flowing / <u>NA</u>										Tide: Rising/ Falling/ Slack/ <u>NA</u>		Tide Times: High <u>NA</u> Low <u>NA</u>		
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	1000	2.0	0.3	1.1	6.83	89.3	7.38	0.03	74	29.25				
CEN	1005		1.5		6.34	82.7	7.20	0.03	74	29.19				
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	SA9085170	3/26/19	☒ <2					
Metals	☒ W-JCPMS ☒ W-JCP					☒ Ice ☒ HNO3	NA 7341010	12/7/18	☒ <2					
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice	10827054							
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-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-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ 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					☐ Other								

Contains: 1.1 H2SO4
Lot No: SA8085170
Expires: 03/26/19
See Safety Data Sheet (SDS)

Place Preservation (If Applicable)

SULFURIC ACID <51% DANGER
May be corrosive to metals. Causes severe skin burns and eye damage. May damage aquatic life. Do not breathe dust. Do not get on skin or clothing. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not mix with other chemicals. Do not eat, drink, or smoke when using this product. Keep away from children. If you have any medical problems, consult your doctor before using this product. If you experience any adverse effects, stop using this product immediately and seek medical attention. If you spill this product, clean it up immediately. Do not dispose of this product in the environment. Keep this product in its original container. Do not reuse this container. Dispose of this product properly. See Safety Data Sheet (SDS) for more information.

Notes:

Kit-C
FW Bact.

Lake Monkey
Business Middle

WIN ID/Field ID



G1WA0036

Signature:

Date:

Enter Field Parameters, Verify Station ID In LIMS DMT: 10/5/18

QC Station ID, Field Parameters In LIMS DMT: CN 10-184

Scan/Save Field Sheets CN 10-184

Migrate Data to WIN: (Initials/Date)

Verify Data In WIN: (Initials/Date)

(Initials/Date)

(Initials/Date)

(Initials/Date)

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: Biology #2

RQ: 2018-10-01-20

Project: 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 6/25/18

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.	Blake Spencer	10/3/18	0709	20.81	760	8.950	8.95	100	59.4	-	P / F	L / F
ICV	Blake Spencer	10/3/18	0710	20.82	760	8.950	8.95	100	59.4	-	P / F	L / F
CCV	Blake Spencer	10/3/18	1248	23.80	760	8.450	8.57	101.4	58.4	-	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	10/3/18	0715	180621C	07/20/19	1000	1001	P / F	L / F
ICV	Blake Spencer	10/3/18	0717	180621C	07/20/19	1000	998	P / F	L / F
CCV	Blake Spencer	10/3/18	1252	1805681	05/20/20	100	102	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.	Blake Spencer	10/3/18	0725	180621E	01/20/20	7.	21.71	7.00	1.7	P / F	L / F
Calibr.	Blake Spencer	10/3/18	0733	180510B	05/20/19	4.	21.90	4.00	173.2	P / F	L / F
Calibr.	Blake Spencer	10/3/18	0737	180403A	10/20/19	10.	21.79	9.98	-159.0	P / F	L / F
ICV	Blake Spencer	10/3/18	0739	180403A	10/20/19	10.0	21.80	9.98	-159.9	P / F	L / F
CCV	Blake Spencer	10/3/18	1258	180510B	05/20/19	4.0	23.53	4.08	172.2	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: 6/25/18

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Sonar #1; Date of last verification: NA

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	Blake Spencer	10/3/18	0740	0.00	0.00	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
Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Blake Spencer

Project ID: SMP

Collected By: Blake Spencer & Curtis Musson

Sampling Agency: FNEP

Location		WIN ID/Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		Little River		Date 10/3/18 Time 1130		mg/L Total Res. Chlorine		(See pg 2)	
WIN/STORET #		100 meters upstream of US 90		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 90.7			
Latitude 30.584619		Longitude -84.513191		Temp (C) 23.94		pH 6.89		Sample Depth 0.3	
Salinity (ppt) 0.04		Comments		Temp (C)		pH		Sp. Conductance (umho/cm) 80	
Location		WIN ID/Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		Alford Arm Tributary At Miccosuk		Date 10/3/18 Time		mg/L Total Res. Chlorine			
WIN/STORET #		Field/WIN ID → G1WA00066		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen			
Latitude 30.4973		Longitude -84.171		Temp (C)		pH		Sample Depth	
Salinity (ppt)		Comments		Temp (C)		pH		Sp. Conductance (umho/cm)	
Location		WIN ID/Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		Lake Monkey		Date 10/3/18 Time 1000		mg/L Total Res. Chlorine			
WIN/STORET #		Business Middle G1WA00036		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 99.3			
Latitude 30.60779		Longitude -84.23076		Temp (C) 29.25		pH 7.38		Sample Depth 0.3	
Salinity (ppt) 0.03		Comments		Temp (C)		pH		Sp. Conductance (umho/cm) 74	
Location		WIN ID/Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Date		mg/L Total Res. Chlorine			
WIN/STORET #				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen			
Latitude		Longitude		Temp (C)		pH		Sample Depth	
Salinity (ppt)		Comments		Temp (C)		pH		Sp. Conductance (umho/cm)	
Location		WIN ID/Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Date		mg/L Total Res. Chlorine			
WIN/STORET #				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen			
Latitude		Longitude		Temp (C)		pH		Sample Depth	
Salinity (ppt)		Comments		Temp (C)		pH		Sp. Conductance (umho/cm)	

Relinquished By: Blake Spencer	Date/Time: 10/3/19 1231	Shipping Method: Hand Delivered	Number of Coolers Shipped: 1	Received By: [Signature]	Date/Time: 10/3/19 12:31
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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						
Group: A	Bottle Type:	P-125ML	# of Bottles: 3	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	2
	W-PO4-F						

Cooler Packing Worksheet for Request: RQ-2018-10-01-20

Group 2 LVI

Ship Cooler On: 9/27/2018

Customer/Project: WAS-SECT/SMP

Assigned To: GREENWOO_J

Requester: Curtis Musson

Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Nutrients, Metals, E.coli

Requested Analyses:

Bottle Group: A

of Sites: 3

Container ID: P-1L

Qty: 3

Preservation: ICE

Lot # 00071991

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 3

Preservation: ICE

Lot # 1215081

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-250ML-WO-THI

Qty: 3 Preservation: ICE

Lot # L18038

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: P-500ML

Qty: 3 Preservation: HNO3

Lot # 00072044

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 3 Preservation: ICE And H2SO4

Lot # 00072044

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 3 Preservation: FILTER-ICE

Lot # 00070886

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By:

Q.2

Number of Coolers:

1

Date:

9/25/18

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☐ Plastic Bags/Zip Ties
- ☐ Acid Labels (sets of 24)

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-10-01-20