



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified?
Yes / No

Location/STORET Station Name: Eight Mile Pond Middle

Date: 6/28/2017

STORET # G1WA0024

WBID: 807A

Latitude: 30.32635

(mm/dd/yyyy)

County: Leon

RQ - 2017-06-26-17

ORG ID: 21FLWQA

Longitude: -84.430273

(Decimal Degrees)

(Decimal Degrees)

Receiving Body of Water:

Field ID: G1WA0024_06282017

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection
Ray Stuart		X		X		X	NA	NA
Diana Turner			X		X		NA	NA

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

Collection Method		
☐ Wading	☒ Via Boat	
☐ From Shore	☒ Canoe/Kayak	
☐ Other (note below)	☐ Electric Motor	
	☐ Gasoline Motor	

Water Level: Dry / Pooled / Low / Normal / High / Flooded	Matrix: Fresh / Marine / DI
Meter ID# Biology #2	Photos: Yes / No
	Tide Falling: Yes / No / NA

Field Sample

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
EST	10:47	0.3	0.9	3.18	40.1	7.04	0.04	VOB	90	27.03
CEN										

Biological Samples Collected:	None	HA	SCI	RPS	Algae ID	LVS	LVI	Other
SBIO ID Numbers:	SBIO-ID:	RPS-ID:	Macrophyte-ID:	LIMS#:				

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	7093010	4/3/18	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <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-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci ☐ qPCR	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Contains
1:1
Sulfuric Acid
SA-7093010
EXP: 04/03/18
Warning!
See SDS

Preservative Sticker(s) Here
(If Available)

QA/QC Sample Information

Duplicate

Time Zone: EST CEN		Sample Depth (m): _____		Field ID: _____	
Time: _____		Total Depth (m): _____			
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / ☐ W-NO2NO3 / ☐ W-TKN / ☐ W-TOC / ☐ W-S-A-TP	☐ Ice ☐ H ₂ SO ₄			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)		
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			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci ☐ qPCR	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Blank

Time Zone: EST **CEN** **Time:** 8:25 **Field ID:** G1WA0044-06282017B **Location:** Sand Pond

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

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / ☐ W-NO2NO3 / ☐ W-TKN / ☐ W-TOC / ☐ W-S-A-TP	☒ Ice ☒ H ₂ SO ₄	<u>7093010</u>	<u>4/3/18</u>	☒ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	Place Preservative Sticker(s) Here (If Available)		
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			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci ☐ qPCR	☐ Ice			
Tracers ✓	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			

Notes:

1-Kit A
FW Bact

Field ID: →
Eight Mile
Pond
Middle

June 28, 2017



G1WA0024 06282017

**Eight Mile
Pond Middle**



Signature: _____

Date: 6/28/17

Field Parameters Entered into LIMS: DT 6/30/17
(Initials/Date)

Date Migrated to STORET: _____
(Initials/Date)

Field Parameters QC in LIMS: _____

Field Sheets Scanned/Saved: DT 6/30/17
(Initials/Date)

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this name.

Meter Biology #2

RQ- 2017-06-26-17

Project SMP

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 09/23/2016 03/06/2017 DT

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Diana Turner	6/28/17	6:57	22.13	8.727	8.86	101.6	47.1	-	P	L
ICV	Diana Turner	6/28/17	6:58	22.13	8.727	8.86	101.6	47.1	-	P	L
CCV	Diana Turner	6/28/17	2:08	23.1	8.562	8.35	97.5	45.9	-	P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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.	Diana Turner	6/28/17	7:04	170310D	03/2018	1000	1000	P	L
ICV	Diana Turner	6/28/17	7:05	170310D	03/2018	1000	1002	P	L
CCV	Diana Turner	6/28/17	2:12	170310E	03/2018	100	98.1	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Diana Turner	6/28/17	7:12	170310B	03/2018	7.0	7.00	5.9	P	L
Calibr.	Diana Turner	6/28/17	7:16	170310A	03/2018	4.01	4.01	174.5	P	L
Calibr.	Diana Turner	6/28/17	7:21	161111C	05/2018	10.01	10.99	-157.2	P	L
ICV	Diana Turner	6/28/17	7:23	161111C	05/2018	10.01	10.02	-158.6	P	L
CCV	Diana Turner	6/28/17	2:17	DT	03/2018	4.01	4.04	172.2	P	L
CCV				170310A						

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

Request Number: 2017-06-26-17

Type Event Description Here SMP

Customer: WQAP

Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

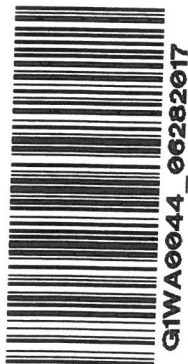
Requester: Benjamin-Rafay Curtis Musson

Collected By: Ray Stuart, Diana Turner

Field Report Prepared By: FDEP

Sampling Agency: FDEP

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Field ID →

Sand Pond Middle

June 28, 2017

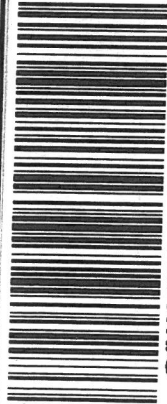
G1WA0044_06282017

STORET ↓

Sand Pond Middle



G1WA0044



Field ID →

QC DUP

Sand Pond Middle

June 28, 2017

G1WA0044_06282017D

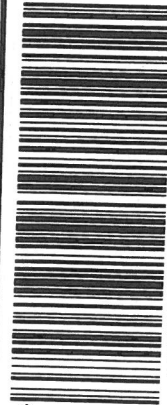
STORET ↓

Sand Pond Middle

QC DUP



G1WA0044



Field ID →

QC BLANK DI WATER

June 28, 2017

G1WA0044_06282017B

QC BLANK
DI WATER

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Comp	Date	Time	Eastern	Central	Date
☒ Grab	6/28/17	8:50 AM	☒ Eastern	☐ Central	
Matrix (Salt, Fresh)					
Fresh					
Temp (C)	28.54				
Diss. Oxygen (mg/L)		4.32			
pH		5.52			
Sample Depth (m)		0.3			
Sp. Conductance (umho/cm)					
Salinity (ppt)	0.01				
Comments					
Latitude (Decimal Degrees)	30.334				
Longitude (Decimal Degrees)					-84.387
Bottle Group(s) A					

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Comp	Date	Time	Eastern	Central	Date
☒ Grab	6/28/17	8:50 AM	☒ Eastern	☐ Central	
Matrix (Salt, Fresh)					
Fresh					
Temp (C)	28.54				
Diss. Oxygen (mg/L)		4.32			
pH		5.52			
Sample Depth (m)		0.3			
Sp. Conductance (umho/cm)					
Salinity (ppt)	0.01				
Comments					
Latitude (Decimal Degrees)	30.334				
Longitude (Decimal Degrees)					-84.387
Bottle Group(s) A					

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Comp	Date	Time	Eastern	Central	Date
☒ Grab	6/28/17	8:25 AM	☒ Eastern	☐ Central	
Matrix (Salt, Fresh)					
Fresh					
Temp (C)					
Diss. Oxygen (mg/L)					
pH					
Sample Depth (m)					
Sp. Conductance (umho/cm)					
Salinity (ppt)					
Comments					
Latitude (Decimal Degrees)	30.334				
Longitude (Decimal Degrees)					-84.387
Bottle Group(s) A, D					

Relinquished By: Diana Turner

Date/Time 6/28/17 1:10

Number of Coolers 2

Received By: ARB

Date/Time 06-28-17

Bike

Request Number: 2017-06-26-17
Type: ~~Regular~~ **HERE**

Type/Event/Description/Here SMP
Customer: WQAP
Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Requester: Benjamin-Royce Curtis Mussen

Collected By: Ray Short, Diana Turner

Field Report Prepared By: _____
Sampling Agency: FDEP

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Field ID →
Sally Ward
Spring at
Wakulla
Park Dr.
June 28, 2017
GIWA0021_06282017

STORET ↓
Sally Ward Spring
at Wakulla Park Dr.
GIWA0021

Field ID →
Eight Mile
Pond
Middle
June 28, 2017
GIWA0024_06282017

STORET ↓
Eight Mile
Pond Middle
GIWA0024

Field ID →
Chick
Branch
Old Plank Rd
June 28, 2017
GIWA0031_06282017

STORET ↓
Chick Branch
at Old Plank Rd
GIWA0031

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Comp	Grab	Comp	Grab	Comp	Grab
☐	☒	☐	☒	☐	☒
Matrix (Salt, Fresh)		Matrix (Salt, Fresh)		Matrix (Salt, Fresh)	
Fresh		Fresh		Fresh	
Temp (C)	20.87	Temp (C)	27.03	Temp (C)	
Diss. Oxygen (mg/L)	3.04	Diss. Oxygen (mg/L)	3.19	Diss. Oxygen (mg/L)	
pH	7.41	pH	7.04	pH	
Salinity (ppt)	0.17	Salinity (ppt)	0.04	Salinity (ppt)	
Comments		Comments		Comments	
Sample Depth (m)	0.3	Sample Depth (m)	0.3	Sample Depth (m)	
Sp. Conductance (umho/cm)	353	Sp. Conductance (umho/cm)	90	Sp. Conductance (umho/cm)	
Time		Time		Time	
Collection Date	6/28/17	Collection Date	6/28/17	Collection Date	
Eastern Central		Eastern Central		Eastern Central	
Longitude (Decimal Degrees)	-84.3109	Longitude (Decimal Degrees)	-84.430273	Longitude (Decimal Degrees)	
Bottle Group(s)	A	Bottle Group(s)	A, C	Bottle Group(s)	A, C D, E

Relinquished By: Diana Turner	Date/Time: 6/28/17 1:10	Received By: <u>ABP</u>	Date/Time: 6-28-17 1:10
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Relinquished By: Diana Turner	Date/Time 6/28/17 1:10	Number of Coolers 2	Received By: [Signature]	Date/Time 6-28-17 / 13:10
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Group: A	Bottle Type:	P-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 7	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	6
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 7	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	6
	W-PO4-F						
Group: B	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
	W-ICP						
	W-ICPMS						
Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ECOLI-18QT						
Group: D	Bottle Type:	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	W-AHERB-AA						
	W-SUC-AA-R						
	W-UHERB-AA						
Group: E	Bottle Type:	QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	PCR-FILTER						

Cooler Packing Worksheet for Request: RQ-2017-06-26-17

Sand, Sally, 8 mile, Chicken, Lafayette

Ship Cooler On: 6/19/2017

Customer/Project: WQAP/SMP

Assigned To: REAVES_S

Requester: Curtis Musson

Priority: 3

850-245-8453
2600 Blair Stone Rd
MS #3525
Tallahassee, FL 32399-2400
Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Freshwater Kit Nutrient Kit
Group B: Metals
Group C: E. coli
Group D: Organics (Wastewater Tracers) Defult/Short AHERB list
Group E: PCR (Wastewater Markers)

5 - liters DI water for a field blank
No FedEx labels needed

Requested Analyses:

Bottle Group: A

of Sites: 7

Container ID: P-1L

Qty: 7 Preservation: ICE

Lot # 00067591

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

Container ID: BP-1L

Qty: 7 Preservation: ICE

Lot # 1199138

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 7 Preservation: ICE And H2SO4

Lot # 00067590

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: 7 Preservation: ICE-FLTR

Lot # 00067688

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Bottle Group: B

of Sites: 1

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00067590

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

Bottle Group: C

of Sites: 4

Container ID: P-250ML-WO-THI

Qty: 4 Preservation: ICE

Lot # 117013

Description:

Analysis

ECOLI-18QT

Description

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

Bottle Group: D

of Sites: 4

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 00068080

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA

W-SUC-AA-R

W-UHERB-AA

Description

Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS

Analysis of sucralose in water matrices by HPLC/MS/MS

Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Bottle Group: E

of Sites: 3

Container ID: QPCR-P-250ML

Qty: 6 Preservation: ICE

Lot # 00066780

Description:

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Cooler Packed By: SR

Number of Coolers: 4

Date: 6-16-17

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

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

PLEASE RETURN ALL COOLERS FOR RQ-2017-06-26-17