

[illegible]

QA/QC Sample Information

Duplicate

Time Zone: <u>EST</u> CEN		Time: <u>930</u>		Field ID: _____	
(WIN ID + DUP)					
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H ₂ SO ₄			☐ < 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-F / W-TSS / TURBIDITY	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ 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 ☐ Other			
Place Preservative Sticker(s) Here (If Available)					

Blank

Time Zone: <u>EST</u> CEN		Time: <u>945</u>		Field ID: <u>BLANK_05022018</u>	
(Blank_DDMMYYYY)					
DI Source: <u>Lab</u>		Location: <u>Alligator Creek upstream of SR 273</u>			
☒ 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 ₂ SO ₄	SA 7233030	08/21/2018	☒ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃	NA 7341010	12/07/2018	☐ < 2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	10827057		
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			
Notes: Kit-A Bact Tracers PCR-HF183 BacR Pictures WIN ID / Field ID Unnamed Creek at Palmview Rd  G3WA0013					
Signature: 				Date: <u>5/2/2018</u>	

Enter Field Parameters, Verify Station ID In LIMS DMT: 5/9/18 (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: Cm 5-9-18 (Initials/Date)

Scan/Save Field Sheets Cm 5-9-18 (Initials/Date) Migrate Data to WIN: _____ (Initials/Date) Verify Data In WIN: _____ (Initials/Date)

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

PH
 Boldly "X" this box if there is qualified data on this page

Meter ID: Biology #2

RQ- 2018-04-30-30

Project: MMQI

- 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.

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

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

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.	Ben Rals	5/2/18	7:09	21.98	8.76	8.75	100.1	49.2	-	P/F	L/F
ICV	Ben Rals	5/2/18	7:11	21.99	8.76	8.76	100.1	49.2		P/F	L/F
CCV	Jason Sperry	5/2/18	15:35	22.41	8.677	8.92	102.7	50.2	-	P/F	L/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.	Ben Rals	5/2/18	7:14	171005D	10/2018	1,000	1,000	P/F	L/F
ICV	Ben Rals	5/2/18	7:15	171005D	10/2018	1,000	1,001	P/F	L/F
CCV	Jason Sperry	5/2/18	15:15	180326A	04/2019	100	101	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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Ben Rals	5/2/18	7:17	171005B	4/2019	7.0	6.99	-3.5	P/F	L/F
Calibr.	Ben Rals	5/2/18	7:18	171005A	10/2018	4.0	4.00	172.0	P/F	L/F
Calibr.	Ben Rals	5/2/18	7:20	171005C	4/2019	10.0	9.96	-167.0	P/F	L/F
ICV	Ben Rals	5/2/18	7:22	171005C	4/2019	10.0	9.95	-166.7	P/F	L/F
CCV	Jason Sperry	5/2/18	15:20	171005A	10/2018	4.0	3.30	211.1	P/F	L/F
CCV	Jason Sperry	5/2/18	15:30	171005B	4/2019	7.0	6.27	41.1	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)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth 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
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Jason Stors, Ben Robs

Field Report Prepared By: Stors

Sampling Agency: FDEP

Location		WIN ID / Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	WIN/STORET #	Matrix (type, e.g., Salt, Fresh, etc)	Date	Time	Diss. Oxygen	Total Res. Chlorine (mg/L)	% sat	(See pg 2)	
30.819	SR 273	Fresh	5/2/18	930	60.0	0.3	43	A, B, C	
Field Blank									
30.819	Blank_05022018	Fresh	5/2/18	945	60.0	0.3	43	D	
Alligator Creek upstream of SR 273									
30.819	QC DUP Q3WA0005	Fresh	5/2/18	930	60.0	0.3	43	A, B	
Alligator Creek upstream of SR 273									
30.819	QC DUP Q3WA0005_DUP	Fresh	5/2/18	930	60.0	0.3	43	A, B	

Relinquished By:		Shipping Method		Number of Coolers Shipped:		Received By:	
Date/Time	Signature	Signature	Signature	Signature	Signature	Signature	Signature
5/2/18	1400	Drop off					5-2-18/1400

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By:

Field Report Prepared By: Ben Balys, Jason Storck

Sampling Agency: FDEP

Location		WIN ID / Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	WIN/STORET #	Matrix (type, e.g., Salt, Fresh, etc)	Date	Time	Diss. Oxygen	Total Res. Chlorine (mg/L)	Time	(See pg 2)	
Minnow Creek At Lovewood Rd									
Latitude	30.83682	dd dms	Longitude	-85.52943	dd dms	Temp (C)	18.68	Salinity (ppt)	0.02
Little Alligator Creek at SR 273									
Field ID	WIN/STORET #	Matrix (type, e.g., Salt, Fresh, etc)	Date	Time <td>Diss. Oxygen</td> <td>Total Res. Chlorine (mg/L)</td> <td>Time</td> <td>(See pg 2)</td>	Diss. Oxygen	Total Res. Chlorine (mg/L)	Time	(See pg 2)	
Latitude	30.88873	dd dms	Longitude	-85.46802	dd dms	Temp (C)	20.06	Salinity (ppt)	0.04
Location: Alligator Creek upstream of Bentley Rd.									
Field ID	WIN/STORET #	Matrix (type, e.g., Salt, Fresh, etc)	Date	Time <td>Diss. Oxygen</td> <td>Total Res. Chlorine (mg/L)</td> <td>Time</td> <td>(See pg 2)</td>	Diss. Oxygen	Total Res. Chlorine (mg/L)	Time	(See pg 2)	
Latitude	30.8735	dd dms	Longitude	-85.4723	dd dms	Temp (C)	18.23	Salinity (ppt)	0.03
Scurlock Creek at Pilgrim Rd									
Field ID	WIN/STORET #	Matrix (type, e.g., Salt, Fresh, etc)	Date	Time <td>Diss. Oxygen</td> <td>Total Res. Chlorine (mg/L)</td> <td>Time</td> <td>(See pg 2)</td>	Diss. Oxygen	Total Res. Chlorine (mg/L)	Time	(See pg 2)	
Latitude	30.8545	dd dms	Longitude	-85.4443	dd dms	Temp (C)	19.03	Salinity (ppt)	0.04

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
AN [Signature]	5/2/18	Day, 0.74		[Signature]	5-2-18 11:40

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Rabs, Jason Storrs

Field Report Prepared By: Ben Rabs, Jason Storrs

Sampling Agency: FDEP

Location		WIN ID / Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Pine Barn Creek at Woodrest Rd	Comp	Grab	Date	Time	mg/L	Total Res. Chlorine (mg/L)	Time	A, B
WIN/STORET #	G3WAE0011								
Latitude	30.8358	dd	dms	Longitude	-85.4488	ft	Sp. Conductance (umho/cm)		
Location		WIN ID / Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Gilbert's Mill Creek at Woodrest Rd	Comp	Grab	Date	Time	mg/L	Total Res. Chlorine (mg/L)	Time	A, B
WIN/STORET #	G3WAE0010								
Latitude	30.8069	dd	dms	Longitude	-85.4607	ft	Sp. Conductance (umho/cm)		
Location		WIN ID / Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Unnamed Creek at Palrnview Rd	Comp	Grab	Date	Time	mg/L	Total Res. Chlorine (mg/L)	Time	A, B
WIN/STORET #	G3WAE0013								
Latitude		dd	dms	Longitude		ft	Sp. Conductance (umho/cm)		
Location		WIN ID / Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		Comp	Grab	Date	Time	mg/L	Total Res. Chlorine (mg/L)	Time	
WIN/STORET #									
Latitude		dd	dms	Longitude		ft	Sp. Conductance (umho/cm)		
Location		WIN ID / Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		Comp	Grab	Date	Time	mg/L	Total Res. Chlorine (mg/L)	Time	
WIN/STORET #									
Latitude		dd	dms	Longitude		ft	Sp. Conductance (umho/cm)		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
[Signature]	5/2/18	Dog off	1400	[Signature]	5-2-18 / 14:50

Group: C	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: W-ICP W-ICPMS	P-500ML <i>Nitric Acid</i> <i>Lot NA-7341010 Exp 12/7/18</i>	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
Group: D	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: D	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	0
Group: D	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: D	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab	0
Group: D	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML <i>Sulfuric Acid</i> <i>Lot SA 7233030 Exp 8/21/18</i>	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
Group: D	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	1

Cooler Packing Worksheet for Request: RQ-2018-04-30-30

Alligator Creek, Minnow Creek

Ship Cooler On: 4/20/2018

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: Freshwater Kit, E.coli

Group B: Tracers, Markers

Group C: Pesticides, Metals

Group D: Field Blank: Kit, Metals, Tracers

Packing Notes:

No FedEx Labels

5 - liters DI Water

No trash bags

Extra LC QC bottles in B, C and D

Requested Analyses:

Bottle Group: A

of Sites: 9

Container ID: P-1L

Qty: 9 Preservation: ICE

Lot # 00070681

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: 9 Preservation: ICE

Lot # 1223623

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: 9 Preservation: ICE

Lot # 117167

Description:

Analysis

ECOLI-18QT

Description

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

Container ID: P-500ML

Qty: 9 Preservation: ICE And H2SO4

Lot # 00070631

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: 9 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

Bottle Group: B

of Sites: 8

Container ID: QPCR-P-500ML

Qty: 8 Preservation: ICE

Lot # 00070172

Description: 500ml Sterile Nalgene

Analysis

PCR-BACR

PCR-HF183

Description

Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Container ID: BG-500ML

Qty: 9 Preservation: ICE

Lot # 00070528

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Bottle Group: C

of Sites: 1

Container ID: BG-500ML

Qty: 1 Preservation: CH₂ClCOOH Pre-Preserved

Lot # 00068622

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CARB-AA

Description

Carbamates in water matrices by HPLC/MS/MS

Container ID: BG-500ML

Qty: 4 Preservation: ICE

Lot # 00070528

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CT-CI-R

W-PCL-SQ-R

Description

Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization

Organochlorine pesticides in water matrices by GC/MS-SIM

Container ID: BG-500ML

Qty: 2 Preservation: ICE

Lot # 00070528

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML

Qty: 1 Preservation: HNO₃

Lot # 00070631

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: BG-1L

Qty: 4 Preservation: ICE

Lot # 00069911

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS

Bottle Group: D

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00070681

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: 1 Preservation: ICE

Lot # 1223623

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: BG-500ML

Qty: 2 Preservation: ICE

Lot # 00070528

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00070631

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

Description

W-ICP

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

W-ICPMS

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

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00070031

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: 1 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: J.D.

Number of Coolers: 6

Date: 4/17/18

Kit must also include:

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

If Preservation Included:

ID	MCAA Buffer Solution	Exp	1/10/19	Lot #	88817
ID		Exp		Lot #	
ID		Exp		Lot #	
ID		Exp		Lot #	
ID		Exp		Lot #	

PLEASE RETURN ALL COOLERS FOR RQ-2018-04-30-30