

(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 page.

Meter ID: Bio #2 RQ: 2018-01-08-01 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.

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.	Curtis Mussen	1-10-18	657	20.82	8.950	8.95	100.0	54	-	P/F	L/F
ICV	Curtis Mussen	1-10-18	658	20.80	8.950	8.95	100.0	53	-	P/F	L/F
CCV	Curtis Mussen	1-10-18	1340	22.35	8.693	8.78	101.0	54	-	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.	Curtis Mussen	1-10-18	700	171005D	10/2018	1000	1000	P/F	L/F
ICV	Curtis Mussen	1-10-18	701	171005D	10/2018	1000	1000	P/F	L/F
CCV	Curtis Mussen	1-10-18	1342	171005E	10/2018	100	103	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.	Curtis Mussen	1-10-18	704	1706114B	12/2018	7.0	7.00	24	P/F	L/F
Calibr.	Curtis Mussen	1-10-18	705	171005A	10/2018	4.01	4.01	186	P/F	L/F
Calibr.	Curtis Mussen	1-10-18	708	171005C	4/2018	10.01	9.98	-131	P/F	L/F
ICV	Curtis Mussen	1-10-18	710	171005A	10/2018	4.01	4.01	185	P/F	L/F
CCV	Curtis Mussen	1-10-18	1344	171005C	4/2018	10.01	10.17	-141	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)

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	Curtis Mussen	1-10-18	702	0.000	0.000	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:

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Curtis Musson, Ben Rabbs

Project ID: SMP

Collected By: Curtis Musson, Ben Rabbs

Sampling Agency: FDEP

Location		WIN ID / Field ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		dd	dms	Date	Time	mg/L	Total Res. Chlorine	(See pg 2)	
STORET #						% sat	(mg/L)		
Latitude	30.334	dd	dms	Longitude	-84.387	ft	Sp. Conductance		
						m	(umho/cm)		
Location		WIN ID / Field ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		dd	dms	Date	Time	mg/L	Total Res. Chlorine	(See pg 2)	
STORET #						% sat	(mg/L)		
Latitude	30.3887	dd	dms	Longitude	-84.5844	ft	Sp. Conductance		
						m	(umho/cm)		
Location		Field/WIN ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		dd	dms	Date	Time	mg/L	Total Res. Chlorine	(See pg 2)	
STORET #						% sat	(mg/L)		
Latitude	30.27792	dd	dms	Longitude	-84.3858	ft	Sp. Conductance		
						m	(umho/cm)		
Location		WIN ID / Field ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		dd	dms	Date	Time	mg/L	Total Res. Chlorine	(See pg 2)	
STORET #						% sat	(mg/L)		
Latitude	30.32635	dd	dms	Longitude	-84.30273	ft	Sp. Conductance		
						m	(umho/cm)		

Relinquished By: <u>Curtis Musson</u>	Date/Time: <u>1/10/2018/1324</u>	Shipping Method: <u>3</u>	Number of Coolers Shipped: <u>3</u>	Received By: <u>SK</u>	Date/Time: <u>1-10-18/1:22</u>
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Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Curtis Musson, Ben Rabys

Project ID: SMP

Collected By: Curtis Musson, Ben Rabys

Sampling Agency: FDEP

Location Not Collected Field ID STORET # Latitude Longitude WIN ID / Field ID → Meggin's Arm Run Downstream of Shaker 30.4804 -84.2982 G1WA0033	Matrix (type, e.g., Salt, Fresh, etc) pH Temp (C) Salinity (ppt) dd dms dd dms	Collection (comp begin or grab) Date 11/10/18 Time 12:10 Diss. Oxygen pH Temp (C) Salinity (ppt) dd dms	Composite end Date mg/L % sat Total Res. Chlorine mg/L % sat Sp. Conductance (umho/cm) ft m Bottle Group(s) A, C, D, E F, G
Location Field ID STORET # Latitude Longitude WIN ID / Field ID → Harbinwood Estates Drain 30.5193 -84.3357 G1WA0034	Matrix (type, e.g., Salt, Fresh, etc) pH Temp (C) Salinity (ppt) dd dms dd dms	Collection (comp begin or grab) Date 11/10/18 Time 12:10 Diss. Oxygen pH Temp (C) Salinity (ppt) dd dms	Composite end Date mg/L % sat Total Res. Chlorine mg/L % sat Sp. Conductance (umho/cm) ft m Bottle Group(s) A, B, C, D, F
Location Field ID STORET # Latitude Longitude WIN ID / Field ID → Salem Branch downstream of SR 159 30.63082 -84.43155 G1WA0053	Matrix (type, e.g., Salt, Fresh, etc) pH Temp (C) Salinity (ppt) dd dms dd dms	Collection (comp begin or grab) Date 11/10/18 Time 10:55 Diss. Oxygen pH Temp (C) Salinity (ppt) dd dms	Composite end Date mg/L % sat Total Res. Chlorine mg/L % sat Sp. Conductance (umho/cm) ft m Bottle Group(s) C, F, D
Location Field ID STORET # Latitude Longitude WIN ID / Field ID → Swamp Creek Upstream of Railroad 30.663 -84.448 G1WA0052	Matrix (type, e.g., Salt, Fresh, etc) pH Temp (C) Salinity (ppt) dd dms dd dms	Collection (comp begin or grab) Date 11/10/18 Time 11:20 Diss. Oxygen pH Temp (C) Salinity (ppt) dd dms	Composite end Date mg/L % sat Total Res. Chlorine mg/L % sat Sp. Conductance (umho/cm) ft m Bottle Group(s) A, C, D, E

Relinquished By: Curtis Musson	Date/Time: 01/10/2018 / 1321	Shipping Method: Drop off	Number of Coolers Shipped: 3	Received By: SR	Date/Time: 1-10-18 / 122
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Group: A	Bottle Type:	P-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
	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	<u>6</u>
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 7	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>6</u>
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 7	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
	W-PO4-F						
Group: B	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	<u>2</u>
	W-ICP						
	W-ICPMS						
Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>7</u>
	ECOLI-18QT						
Group: D	Bottle Type:	BG-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
	W-AHERB-AA						
	W-SUC-AA-R						
	W-UHERB-AA						
Group: E	Bottle Type:	QPCR-P-250ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
	PCR-FILTER						
	PCR-HF183						
Group: F	Bottle Type:	QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>5</u>
	PCR-FILTER						

Cooler Packing Worksheet for Request: RQ-2018-01-08-11

Sand, Black, 8, AJ, Harbinwood, Swamp, Salem

Ship Cooler On: 1/2/2018

Customer/Project: WAS-SECT/SMP

Assigned To: SEARSON_C

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, CHLA, Physical Aggregates

Group B: Metals

Group C: Microbiology (Bacteria)

Group D: Organics (Wastewater Tracers)

Group E: PCR HF183, FILTER

Group F: PCR FILTER

Requested Analyses:

Bottle Group: A

of Sites: 7

Container ID: P-1L

Qty: 7 Preservation: ICE

Lot # 00069122

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 # 1200289

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: BG-1L

Qty: 5 Preservation: ICE

Lot # 00069604

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: 2

Container ID: QPCR-P-250ML

Qty: 4 Preservation: ICE

Lot # 00066780

Description:

Analysis

PCR-FILTER

PCR-HF183

Description

Preparation of Samples by Filtration and held for qPCR Analysis

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

Bottle Group: F

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: CS

Number of Coolers: 4

Date: 12/29/17

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-2018-01-08-11