

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-2019-08-12-36

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	9/9/19	806	22.8	759.2	8.6	8.61	99.9	-	100	P/F	L/F
ICV	"	"	816	26.0	759.3	9.1	9.13	100.5	-	-	P/F	L/F
CCV	"	"	1640	26.6	758.2	8.2	8.18	100			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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	J. Burtchett	9/9/19	808	190618f	06/20	1000	1000	P/F	L/F
ICV	"	"	818	190618f	08/20	100	101	P/F	L/F
CCV	"	"	1642	190618f	06/20	1000	998	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.	J. Burtchett	9/9/19	810	180621E	0V20	7.01	19.9	7.02	-22.1	P/F	L/F
Calibr.	"	"	812	180618A	12/20	4.01	19.7	4.00	155.6	P/F	L/F
Calibr.	"	"	814	180621f	0V20	10.06	19.9	10.06	-166.5	P/F	L/F
ICV	"	"	820	180621f	0V20	10.05	21.2	10.0	-191.0	P/F	L/F
CCV	"	"	1645	180618A	12/20	4.01	23.7	4.01	154.6	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: _____

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	9/9/19	804	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:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Waccasassa River @ Boat Ramp

Date: 09/09/2019

(mm/dd/yyyy)

WIN/ Field ID: G1TLHR0032

WBID: 3699A

Latitude: 29.2132

County: Levy

ORG ID: 21FLTLHR

Longitude: -82.7632

(Decimal Degrees)

Receiving Body of Water: Gulf of Mexico

RQ: 2019-08-12-36

(Decimal Degrees)

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment					
<u>J. Burtchett</u> <u>B. Harder</u>						☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole			
											☐ Carboy	☒ Syringe	☐ Dipper	☒ Other		
Depth Measured with <u>ProDSS</u>						Equipment ID <u>154177</u>					Collection Method					
						☒	☐	☐	☐	☐	☒ Wading	☐ Canoe/Kayak	☐ Electric Motor			
											☐ From Shore	☐ Gasoline Motor				
											☐ Other					
Water Level: <u>Dry</u> / Pooled / Low / Normal / <u>High</u> / Flooded						Meter ID# <u>154177</u>					Matrix: <u>Fresh</u> / Marine / DI					
Photos: Yes / <u>No</u>						Flow: No Flow / Intestinal / <u>Flowing</u> / NA					Tide: Rising / <u>Falling</u> / Slack / NA			Tide Times: <u>High</u> / Low		
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (umhos/cm)	Temp. (C°)						
EST	<u>1205</u>	<u>1.6</u>	<u>0.3</u>	<u>0.8</u>	<u>4.73</u>	<u>58.7</u>	<u>7.27</u>	<u>0.09</u>	<u>192.8</u>	<u>26.4</u>						
CEN	<u>1208</u>		<u>1.1</u>		<u>4.76</u>	<u>57.6</u>	<u>7.29</u>	<u>0.09</u>	<u>192.8</u>	<u>25.7</u>						
Biological Samples Collected: <u>None</u> / 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		<u>9010030</u>		☒ <2						
Metals		☒ W-ICPMS ☒ W-ICP				☐ Ice ☐ HNO3		<u>9129070</u>		☒ <2						
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 um 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 Coll ☒ 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										
Notes:																
Place Label Here																
Signature: <u>[Signature]</u> Date: <u>09/09/19</u>																

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets 16 9-12-19 (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: TLH-ROC

Requester: Michael Eckles

Field Report Prepared By: J. Burtchett

Project ID: SMP

Collected By: J. Burtchett B. Harder

Sampling Agency:

Location		Field/WIN ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		↓		Date 09/09/19 Time 12:05		Date		(See pg 2)	
WIN/STORE		↓		Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude		↓		Temp (C) 26.4		pH 7.27		Sample Depth 0.3	
		Longitude		Salinity (ppt) 0.09		Sp. Conductance (umho/cm) 192.8		A	
Location		Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
WIN/STORE #		↓		Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude		↓		Temp (C)		pH		Sample Depth	
Location		Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
WIN/STORE #		↓		Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude		↓		Temp (C)		pH		Sample Depth	
Location		Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
WIN/STORE #		↓		Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude		↓		Temp (C)		pH		Sample Depth	
Location		Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
WIN/STORE #		↓		Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude		↓		Temp (C)		pH		Sample Depth	

Relinquished By: JB, BH	Date/Time: 09/09/19 16:34	Shipping Method: HD	Number of Coolers Shipped: 1	Received By: HK	Date/Time: 9.9.19 / 16:34
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Group: A	Bottle Type:	P-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
ALKALINITY							
TURBIDITY							
W-BR-IC							
W-F							
W-TSS							
Group: A	Bottle Type:	BP-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
CHLSUTE-W							
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
ENT-24-QT							
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
FCOLL-MF							
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
W-ICP							
W-ICPMS							
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative: ICE And H2SO4		Enter Number of Bottles Sent to Lab	1
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	1
W-PO4-F							
Group: B	Bottle Type:	P-1L	# of Bottles: 2	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: B	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	