

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: 155077

RQ- 2023-12-04-58

Project: District

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 10/5/23

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.	<u>S. Slade</u>	<u>12/5/2023</u>	<u>0711</u>	<u>18.9</u>	<u>765.8</u>	<u>9.4</u>	<u>9.37</u>	<u>100.8</u>	<u>—</u>	<u>1.039L</u>	<u>P</u> /F	<u>L</u> /F
ICV	<u>S. Slade</u>	<u>12/05/2023</u>	<u>0713</u>	<u>18.9</u>	<u>765.8</u>	<u>9.4</u>	<u>9.32</u>	<u>100.9</u>	<u>—</u>	<u>—</u>	<u>P</u> /F	<u>L</u> /F
CCV	<u>S. Slade</u>	<u>12/06/2023</u>	<u>0701</u>	<u>19.7</u>	<u>769.4</u>	<u>9.3</u>	<u>9.3</u>	<u>100.1</u>	<u>—</u>	<u>—</u>	<u>P</u> /F	<u>L</u> /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.	<u>S. Slade</u>	<u>12/5/2023</u>	<u>0715</u>	<u>230627B</u>	<u>07/2024</u>	<u>5000</u>	<u>5000</u>	<u>P</u> /F	<u>L</u> /F
ICV	<u>S. Slade</u>	<u>12/5/2023</u>	<u>0717</u>	<u>23062710</u>	<u>07/2024</u>	<u>5000</u>	<u>49852</u>	<u>P</u> /F	<u>L</u> /F
CCV	<u>S. Slade</u>	<u>12/06/2023</u>	<u>0704</u>	<u>221221B</u>	<u>01/2024</u>	<u>1000</u>	<u>991</u>	<u>P</u> /F	<u>L</u> /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.	<u>S. Slade</u>	<u>12/5/2023</u>	<u>0719</u>	<u>1L6698</u>	<u>05/2024</u>	<u>7.02</u>	<u>20.1</u>	<u>7.02</u>	<u>34.7</u>	<u>P</u> /F	<u>L</u> /F
Calibr.	<u>S. Slade</u>	<u>12/5/2023</u>	<u>0724</u>	<u>1m00885</u>	<u>05/2024</u>	<u>4.01</u>	<u>20.1</u>	<u>4.00</u>	<u>139.7</u>	<u>P</u> /F	<u>L</u> /F
Calibr.	<u>S. Slade</u>	<u>12/5/2023</u>	<u>0720</u>	<u>1LJ056</u>	<u>12/2023</u>	<u>10.07</u>	<u>19.9</u>	<u>10.07</u>	<u>-147.9</u>	<u>P</u> /F	<u>L</u> /F
ICV	<u>S. Slade</u>	<u>12/5/2023</u>	<u>0728</u>	<u>1m00884</u>	<u>05/2024</u>	<u>4.01</u>	<u>19.1</u>	<u>4.04</u>	<u>135.3</u>	<u>P</u> /F	<u>L</u> /F
CCV	<u>S. Slade</u>	<u>12/06/2023</u>	<u>0707</u>	<u>1LJ056</u>	<u>12/2023</u>	<u>10.0</u>	<u>18.7</u>	<u>9.95</u>	<u>-147.5</u>	<u>P</u> /F	<u>L</u> /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 10 163.2, slope from 4 to 7 174.1 (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: 10/5/2023

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			<u>0729</u>			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
CHAIN OF CUSTODY FORM

Date: 12/5/2023
Customer: NW-DIST
RQ: RQ-2023-12-04-58

Collected By: C. Stopher Slade, Other
Sampling Agency: FDEP
Project ID: SPPROJECTS

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

Number of Coolers Shipped: 1

Delivery Method: FedEx

FIELD ID (Labels) submitted under this RQ for this collection date.

Site Location	Field ID/WIN ID
West side of Eastern Ship Building	 WG3NW9999
West side of East Bay	 BG3NW0000
East side of Eastern Ship Building	 EG3NW9998

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 12/5/2023

1600CEN

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By:

Rec'd/Inspected Date:

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

SPECIAL PROJECTS Field Sheet Eastern shipbuilding

July 2022

Meter
Passed End
of Day CCV☒ Yes / No

WIN Station Name:		West side of Eastern Ship Building				Sample Date:		12/5/2023	
WIN / Field ID:		WG3NW9999		ORG ID:	21FLPNS	ENR:			
County:		Bay		WBID:	1061F	ESTUARY		Latitude:	30.03019
Receiving Body of Water:		Pensacola				Longitude:	-85.47848		
Longitudinal						RQ-	2023-12-04-58		

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
C. Stopher Slade		x		x	x
Anna List	x		x		

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
x	Syringe		Pole
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:		Aerial	
Collection Method			
	Wading		Canoe/Kayak
	From Shore		Electric Motor
		x	Gasoline Motor
Depth Measured With		Meter	

Water Level:	Normal
Flow:	NA
Matrix:	Fresh
Tide Stage:	Rising
High Tide:	2213
Low Tide:	1147
Photos:	Yes
Meter ID:	155077 (ProDSS)
Depth Gauge ID:	depth_gauge

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPTth)
CEN	1240	0.9	0.3	6.26	67.2	18.2	6.03	0.3	3307	1.74

Biological Samples Collected: None**SBIO Visit ID:** **HA ID:** **RPS ID:** **Macrophyte ID:** **LIMS Sample ID In The Macrophyte Module:**

Parameter Suite	Parameter Methods (LIMS Test Codes)	Preservation			
		Type	Lot#	Expiration Date	pH Check
Microbiology					
Chlorophyll					
Physical/Aggregate Nutrients					
Filtered Nutrients			Syringe Lot#; Filter Lot#:		
Acid Preserved Nutrients					
Metals					
Organics (LC)					
Macroinvertebrates					
Organics (GC)					
Molecular					
Periphyton					
Phytoplankton					
BOD					
DOC					
Other(s)	S-ICPMS, TCLP-ICPMS				
Field Comments:					
Comments on COC:					
Relinquish Date:	12/05/2023	Signature:			

LIMS EVENT ID: _____ WIN Import ID: _____

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

(Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: _____

(Initials/Date)

Save Field Sheets on Network: _____

(Initials/Date)

Migrate Data to WIN: _____

(Initials/Date)

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

SPECIAL PROJECTS Field Sheet Eastern shipbuilding

July 2022

Meter
Passed End
of Day CCV☒ Yes / ☐ No

WIN Station Name:		West side of East Bay				Sample Date:		12/5/2023	
WIN / Field ID:	BG3NW0000	ORG ID:	21FLPNS	ENR:		Latitude:	30.113		
County:	Bay	WBID:	1061F	ESTUARY		Longitude:	-85.5278		
Receiving Body of Water:		Gulf of Mexico				RQ-	2023-12-04-58		

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
C. Stopher Slade		x		x	x
Anna List	x		x		

Sampling Equipment			
☒ Sample Container		Carboy	
Dipper		Van Dorn	
☒ Syringe		Pole	
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:		Aerial	
Collection Method			
Wading		Canoe/Kayak	
From Shore		Electric Motor	
		☒	Gasoline Motor
Depth Measured With		Meter	

Water Level:	Normal
Flow:	NA
Matrix:	Marine
Tide Stage:	Slack
High Tide:	0131
Low Tide:	11:47
Photos:	Yes
Meter ID:	155077 (ProDSS)
Depth Gauge ID:	depth_gauge

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPT _h)
CEN	1130	0.9	0.3	8.06	88.4	17.6	7.26	0.9	17201	9.72
								VOB (s)		

Biological Samples Collected: None

SBIO Visit ID: HA ID: RPS ID: Macrophyte ID: LIMS Sample ID In The Macrophyte Module:

Parameter Suite	Parameter Methods (LIMS Test Codes)	Preservation			
		Type	Lot#	Expiration Date	pH Check
Microbiology					
Chlorophyll					
Physical/Aggregate Nutrients					
Filtered Nutrients			Syringe Lot#; Filter Lot#:		
Acid Preserved Nutrients					
Metals					
Organics (LC)		MCAA***			
Macroinvertebrates					
Organics (GC)					
Molecular					
Periphyton					
Phytoplankton					
BOD					
DOC					
		SyringeLot#		FilterLot#	
Other(s)	S-ICPMS, TCLP-ICPMS	Ice			
Field Comments:					
Comments on COC:	Sediment samples				
Relinquish Date:	12/05/2023	Signature:			

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: (Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: (Initials/Date)

Save Field Sheets on Network: (Initials/Date)

Migrate Data to WIN: (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

SPECIAL PROJECTS Field Sheet Eastern Shipbuilding

July 2022

Meter
Passed End
of Day CCV

☒ Yes / ☐ No

WIN Station Name:		East side of Eastern Ship Building				Sample Date:		12/5/2023	
WIN / Field ID:	EG3NW9998	ORG ID:	21FLPNS	ENR:		Latitude:	30.03052		
County:	BAy	WBID:	1061F	ESTUARY		Longitude:	-85.47505		
Receiving Body of Water:		Gulf of Mexico				RQ-	2023-12-04-58		

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
C. Stopher Slade		x		x	x
Anna List	x		x		

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
x	Syringe		Pole
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:		Aerial	
Collection Method			
	Wading		Canoe/Kayak
	From Shore		Electric Motor
		x	Gasoline Motor
Depth Measured With		Meter	

Water Level:	Normal
Flow:	NA
Matrix:	Fresh
Tide Stage:	Rising
High Tide:	2229
Low Tide:	1151
Photos:	Yes
Meter ID:	155077 (ProDSS)
Depth Gauge ID:	depth_gauge

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPTth)
CEN	1320	1	0.3	6.23	66.9	18.1	6.09	0.7	3415	1.8

Biological Samples Collected: None

SBIO Visit ID: **HA ID:** **RPS ID:** **Macrophyte ID:** **LIMS Sample ID In The Macrophyte Module:**

Parameter Suite	Parameter Methods (LIMS Test Codes)	Preservation			
		Type	Lot#	Expiration Date	pH Check
Microbiology					
Chlorophyll					
Physical/Aggregate Nutrients					
Filtered Nutrients			Syringe Lot#; Filter Lot#:		
Acid Preserved Nutrients					
Metals					
Organics (LC)					
Macroinvertebrates					
Organics (GC)					
Molecular					
Periphyton					
Phytoplankton					
BOD					
DOC					
			SyringeLot#		FilterLot#
Other(s)	S-ICPMS, TCLP-ICPMS	Ice			
Field Comments:					
Comments on COC:					
Relinquish Date:	12/05/2023	Signature:			

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ (Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: _____ (Initials/Date)

Save Field Sheets on Network: _____ (Initials/Date)

Migrate Data to WIN: _____ (Initials/Date)