

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

2022-09-12-57

Boldly "X" this box if there are qualified data on this page.

Meter ID:

155077

RQ:

2022-09-19-26

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.

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.	S. Slade	9/19/22	0709	26.2	761.5	8.1	8.09	100.00	—	1.0317	(P) F	(L) F
ICV	S. Slade	9/19/22	0712	26.3	761.5	8.1	8.09	100.1	—	—	(P) F	(L) F
CCV	S. Slade	9/20/22	0627	24.3	761.0	8.4	8.37	100.0	—	—	(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 $\mu\text{mhos/cm}$	Meter Reading $\mu\text{mhos/cm}$	Pass / Fail	Lab / Field
Calibr.	S. Slade	9/19/22	0717	220413B	4/2023	10000	10004	(P) F	(L) F
ICV	S. Slade	9/19/22	0719	220425	05/2023	50000	49800	(P) F	(L) F
CCV	S. Slade	9/20/22	0630	220413D	04/2023	100	101.5	(P) F	(L) F
CCV								P / F	L

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.	S. Slade	9/19/22	0721	213754	06/2023	6.99	28.1	6.99	-143	(P) F	(L) F
Calibr.	S. Slade	9/19/22	0723	14F026	06/2023	4.01	28.1	4.01	-163	(P) F	(L) F
Calibr.	S. Slade	9/19/22	0725	205284	10/2022	10.	26.2	10.01	-182.8	(P) F	(L) F
ICV	S. Slade	9/19/22	0725	1LE0260	06/2023	4.0	26.2	4.10	-153.6	(P) F	(L) F
CCV	S. Slade	9/20/22	0633	205284	10/2022	10.02	25.4	10.22	-193.1	(P) F	(L) F
CCV							24.9			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 10 167.5, slope from 4 to 7 180.6 (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	S. Slade	9/19/22	0720	0.000	0.00	(P) F	(L) F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or $\pm 0.05\text{m}$, whichever is greater

COMMENTS:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

Date: 9/19/2022
Customer: NW-DIST
RQ: RQ-2022-09-12-57

Collected By: Frank Butera, C. Stopher Slade
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: 2

Delivery Method: FedEx

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

Site Location	Field ID/WIN ID
Lake Powell cove E. of Origins 8	 G3NW0243
Lake Powell N. of North Walton Lakeshore Dr.	 G3NW0242
Lake Powell inlet middle	 G3NW0244

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 9/19/2022

1630CEN

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By:

Rec'd/Inspected Date:

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

SPECIAL PROJECTS Field Sheet Lake Powell investigation

July 2022

Meter
Passed End
of Day CCVYes ☒ No ☐

WIN Station Name:	Lake Powell cove E. of Origins 8				Sample Date:	9/19/2022	
WIN / Field ID:	G3NW0243	ORG ID:	21FLPNS	ENR:		Latitude:	30.28276
County:	Bay	WBID:	1055A	LAKE		Longitude:	-85.99391
Receiving Body of Water:	Gulf of Mexico				RQ-	2022-09-12-57	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Frank Butera		x		x	x
C. Stopher Slade	x		x		

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

Water Level:	Normal
Flow:	NA
Matrix:	Marine
Tide Stage:	N/A
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	155077 (ProDSS)

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	1510	2.7	0.3	5.4	80.7	31.2	7.54	1.2	30643	18.9
	1513		2	0.07	1.1	29.8	7.67		44564	28.667
	1516		2.2	0.1	1.5	29.7	7.65		44628	28.71

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

Parameter Suite	Parameter Methods (LIMS Test Codes)	Preservation			
		Type	Lot#	Expiration Date	pH Check
Microbiology					
Chlorophyll					
Physical/Aggregate Nutrients					
Filtered Nutrients					
Acid Preserved Nutrients					
Metals					
Organics (LC)					
Macroinvertebrates					
Organics (GC)					
Molecular					
Periphyton					
Phytoplankton					
BOD					
Other(s)	W-FL-PRO, W-BNA-R, S-BNA, S-FL-PRO			ice, H2SO4	
Field Comments:					
Comments on COC:					
Relinquish Date:	09/19/2022	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 Lake Powell Investigation

July 2022

Meter
Passed End
of Day CCVYes ☒ No ☐

WIN Station Name:	Lake Powell inlet middle				Sample Date:	9/19/2022	
WIN / Field ID:	G3NW0244	ORG ID:	21FLPNS	ENR:			
County:	Bay	WBID:	1055A	LAKE			
Receiving Body of Water:	Gulf of Mexico				RQ-	2022-09-12-57	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
C. Stopher Slade	x		x		
Frank Butera		x		x	x

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

Water Level:	Normal
Flow:	NA
Matrix:	Marine
Tide Stage:	N/A
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	155077 (ProDSS)

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	1625	0.7	0.3	6.93	98.9	29.4	7.66	0.7	25692	15.78
								VOB (s)		

Biological Samples Collected:

None

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

Parameter Suite	Parameter Methods (LIMS Test Codes)	Preservation			
		Type	Lot#	Expiration Date	pH Check
Microbiology					
Chlorophyll					
Physical/Aggregate Nutrients					
Filtered Nutrients					
Acid Preserved Nutrients					
Metals					
Organics (LC)					
Macroinvertebrates					
Organics (GC)					
Molecular					
Periphyton					
Phytoplankton					
BOD					
Other(s)	W-BNA-R, W-FL-PRO, S-BNA, S-FL-PRO			ice, H2SO4	
Field Comments:					
Comments on COC:					
Relinquish Date:	09/19/2022	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 Lake Powell investigation

July 2022

Meter
Passed End
of Day CCVYes ☒ No

WIN Station Name:	Lake Powell N. of North Walton Lakeshore Dr.				Sample Date:	9/19/2022	
WIN / Field ID:	G3NW0242	ORG ID:	21FLPNS	ENR:		Latitude:	30.28383
County:	Walton	WBID:	1055A	LAKE		Longitude:	-85.99962
Receiving Body of Water:	Gulf of Mexico				RQ-	2022-09-12-57	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
C. Stopher Slade	x		x		
Frank Butera		x		x	x

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

Water Level:	Normal
Flow:	NA
Matrix:	Marine
Tide Stage:	N/A
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	155077 (ProDSS)

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	1540	2.5	0.3	3.36	51.3	31.8	7.3	1.5	30800	19
	1542		2	0.09	1.4	29.9	7.63		44403	28.55
	1543		2	0.09	1.5	29.6	7.63		44403	28.55

Biological Samples Collected: None

SBIO Visit ID: HA ID: RPS ID: Macrophyte ID: LIMS Sample ID Entered Into The Macrophyte Module:

Parameter Suite	Parameter Methods (LIMS Test Codes)	Preservation			
		Type	Lot#	Expiration Date	pH Check
Microbiology					
Chlorophyll					
Physical/Aggregate Nutrients					
Filtered Nutrients					
Acid Preserved Nutrients					
Metals					
Organics (LC)					
Macroinvertebrates					
Organics (GC)					
Molecular					
Periphyton					
Phytoplankton					
BOD					
Other(s)	W-FL-PRO, W-BNA-R, S-BNA, S-FL-PRO			ice, H2SO4	
Field Comments:					
Comments on COC:					
Relinquish Date:	09/19/2022	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)