

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: YSI 650 RQ: 2022-09-05-34 Project: Moses Creek

- 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 8/1/22

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. Parnish	8/8/22	805	23.0	756	8.5	8.5	99.4	-	1.012	(P) F	(L) F
ICV	J	9/8/22	806	22.9	756	8.5	8.56	99.6	-	1.012	(P) F	(L) F
CCV	J. Parnish	9/8/22	1455	23.2	754	8.5	8.41	98.4	-	-	(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. Parnish	9/8/22	807	2202SA	3/23	1000	1000	(P) F	(L) F
ICV	J	L	810	21097A	9/22	106	99	(P) F	(L) F
CCV	J. Parnish	9/8/22	1456	2202SB	3/23	50000	50570	(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. Parnish	9/8/22	809	M074-20	3/24	7.	23.5	7.01	-16	(P) F	(L) F
Calibr.	J	L	810	2205F46	5/24	4.	23.2	4.00	-186	(P) F	(L) F
Calibr.	J	L	811	2202F29	8/25	10.	23.4	10.02	-184.5	(P) F	(L) F
ICV	J	L	812	2206F96	5/24	4.	23.1	4.07	-152.5	(P) F	(L) F
CCV	J. Parnish	9/8/22	1459	2207F29	8/23	10	23.6	10.14	-192	(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 10 168.5, slope from 4 to 7 172 (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: 8/1/22

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. Parnish	9/8/22	810	0.00	0.00	(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:



Visit us online & order kits at: www.delllab.com

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:	Moses Creek 400m upstream of dock					Sample Date:	9/8/2022
WIN / Field ID:	G5NE0589	ORG ID:	21FLA	ENR:	-	Latitude:	29.77048
County:	St. Johns	WBID:	2535A	ESTUARY	2	Longitude:	-81.28815
Receiving Body of Water:	Matanzas River					RQ-	2022-09-05-34

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jeremy Parrish		x		x	x
Katrin Villinger	x		x		

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

Water Level:	Normal
Flow:	Flowing
Matrix:	Marine
Tide Stage:	Falling
High Tide:	800
Low Tide:	1430
Photos:	NA
Meter ID:	Desi

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)
EST	1055	2.312	0.3	3.79	55.7	29.2	7.32	0.6	33600	21
	1058		1.819	3.82	56.2	29.2	7.32		34700	21.74

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	Contract Lab	Enterococci	F. coli	ICE						
Chlorophyll		Diversified								
Physical/Aggregate Nutrients										
Filtered Nutrients										
Acid Preserved Nutrients										
Metals										
Organics (LC)										
Macroinvertebrates										
Organics (GC)										
Molecular										
Periphyton										
Phytoplankton										
BOD										
Other(s)										
Field Comments:										
Comments on COC: Microbiology sample(s) submitted to contract laboratory.										
Relinquish Date:	09/08/2022	Signature:								

LIMS EVENT ID: WIN Import ID:

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

KV 9/8/22 (Initials/Date)

(Initials/Date)

Save Field Sheets on Network: (Initials/Date)

Migrate Data to WIN: (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN FIELD SHEET

January 2022

Meter Passed End

of Day CCV

Yes / No

WIN Station Name: MOSES CR AT US 1

Date: 9/8/2022

WIN/Field ID: 27010050

WBID: 2535B

ENR: -

Latitude: 29.77458

County: St. Johns

Org ID: 21FLA

Longitude: -81.31614

Receiving Body of Water: Matanzas River

RQ: 2022-09-05-34

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Jeremy Parrish		x		x	x
☒	Katrin Villinger	x		x		
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☐ Pole
Depth measured with: Meter	
Secchi Equipment ID:	
Collection Method	
☐ Wading	☐ Canoe/Kayak
☒ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# DESI	
Photos: No	Flow: FLOW			Tide:		Tide Times: High: Low:	
Biological Samples Collected:		☒ None	☐ HA	☐ SCI	☐ RPS	☐ Algae ID	☐ LVS ☐ LVI Other:
SBIO ID Numbers:							
Notes: CLOUDY							

Duplicate Sample

Time Zone: EST	Time:	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone: EST	Time: 955	Field ID: FB_09082022	(Blank Type_DDMMYYYY)
DI Source: Neroc lab	Location: Moses Creek @ US 1		
DI Type: Field Blank	Equipment ID:		
DI Container (Name/ID): CARBOY	DI Container Type: CARBOY		

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 KV 9/8/22 Migrate Data to WIN: Verify Data In WIN:



RQ-2022-09-05-34
Customer: NE-DIST
Project ID: STRATEGIC MONITORING PLAN

Collected By: Jeremy Parrish, Katrin Villinger
Field Report Prepared By: Jeremy Parrish
Sampling Agency: FDEP

Place Label Here WIN ID/Field ID:  27010050 Location: MOSES CR AT US 1						Comments: Microbiology sample(s) submitted to contract laboratory.						
Matrix: Fresh						(Check one) ☒ GRAB ☐ COMPOSITE						
Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT _h)		
	950 EST	4.63	55.9	24.5	6.96	0.075	0.133 ☒ VOB (S)	0.133	495.7	0.24		
9/8/2022							Central Lab please use top row for login purposes					
	EST											
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group		
Preserved Nutrients (P-500ML)		☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☐ Ice ☐ H2SO4*		☐ <2				
		Lot #			Exp:							
Metals (P-500ML)		☐ W-ICPMS ☐ W-ICP ☐ W-HARD				☐ Ice ☐ HNO3*		☐ <2				
		Lot #			Exp:							
Filtered Nutrients (P125ML)		☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter				☐ Ice						
		Filter Lot #				Syringe Lot#						
Biochemical Oxygen Demand (BP-1L)		BODTEST OV-BODUNIN				☐ ICE						
Chlorophyll (BP-1L)		☐ CHLSUITE-W				☐ Ice						
Physical/Aggregate (Fresh) (P-1L)		☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS				☐ Ice						
Physical/Aggregate (Marine) (P-1L)		☐ Alkalinity / W-F / W-TSS / TURBIDITY				☐ Ice						
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC		Formalin Lot #		☐ Formalin						
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice						
Microbiology (Contract Lab Bottle)		☒ E Coli ☐ F Coli ☐ Enterococci ☒ Contract Lab				☒ Ice			1	B		
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD				☐ Ice						
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice		MCAA Exp. Date 2/4/23				
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI		☒ WE8321-MS		☒ W-PSNP-TQ		☒ W-CT-CI-R		MCAA Lot# 128343	10	B
		☒ W-PCL-TQ-R		☒ W-CARB-AA (5 ml of MCAA** Buffer Solution)		☒ W-TR-SQ-R						
Phytoplankton/Periphyton		☒ W-PCB-TQ-R										
		DTY-QN-C				PKD-QN-BV		☐ Ice				
Name: Jeremy Parrish Katrin Villinger				Signature:				Date: 09/08/2022				

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



RQ- 2022-09-05-34

Collected By: Jeremy Parrish, Katrin Villinger

Customer: WQAP

Field Report Prepared By: Jeremy Parrish, Katrin Villinger

Project ID: SMP

Sampling Agency: FDEP

BLANK



Field ID: FB 09082022

Comments:

Matrix: Field Blank

(Check one) ☐ COMPOSITE ☒ GRAB

Date

Time

DI Source: Neroc lab

9/8/2022

955

EST

Parameter Suite	Parameter Methods	Preservation	pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H2SO4	☐ <2		
	Lot # _____ Exp: _____				
Metals (P-500ML)	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3	☐ <2		
	Lot # _____ Exp: _____				
Filtered Nutrients (P125ML)	☐ W-PO4-F Filter ☐ Field Filtered 0.45 µm	☐ Ice			
	Filter Lot # _____				
	Syringe Lot # _____				
Physical/Aggregate (Fresh) (P-1L)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-IC / TDS	☐ Ice			
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice	MCAA Exp. Date 2/4/23		
Pesticides (BG-500ML) (BG-1L)	☒ W-E8321-DI ☒ WE8321-MS ☒ W-PSNP-TQ ☒ W-CT-CI-R	☒ Ice	MCAA Lot#	6	E
	☒ W-PCL-TQ-R ☒ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☒ W-TR-SQ-R		128343		
	☒ W-PCB-TQ-R				
Name: Jeremy Parrish Katrin Villinger		Signature: _____		Date: 09/08/2022	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:	MOULTRIE CR @ US 1				Sample Date:	9/8/2022	
WIN / Field ID:	27010055	ORG ID:	21FLA	ENR:	-		
County:	St. Johns	WBID:	2493B	ESTUARY	3M		
Receiving Body of Water:	UPPER MATANZAS RIVER				RQ-	2022-09-05-34	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jeremy Parrish		x		x	x
Katrin Villinger	x		x		

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

Water Level:	Normal
Flow:	Flowing
Matrix:	Marine
Tide Stage:	Falling
High Tide:	800
Low Tide:	1430
Photos:	No
Meter ID:	Desi

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)
EST	1150	1.014	0.3	3.77	56.2	28.9	7.33	0.7	38775	24.58

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	Contract Lab	Enterococci	ICE					
Chlorophyll		Diversified						
Physical/Aggregate Nutrients	CHLSUITE-W		ICE					
Filtered Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS		ICE					
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	Sa2145160	6/2/23	H2SO4 pH<2
Metals	W-ICPMS	W-ICP	ICE	HNO3**	NA1105100	6/7/23	HNO3 pH<2	
Organics (LC)				MCAA***				
Macroinvertebrates								
Organics (GC)								
Molecular								
Periphyton								
Phytoplankton								
BOD								
Other(s)								
Field Comments:	Cloudy							
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.							
Relinquish Date:	09/08/2022	Signature:						

LIMS EVENT ID: _____ WIN Import ID: _____

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

Save Field Sheets on Network: KV 9/8/22 (Initials/Date) Migrate Data to WIN: _____ (Initials/Date)

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:	Moses Creek at Preserve Dock				Sample Date:	9/8/2022	
WIN / Field ID:	G5NE0004	ORG ID:	21FLA	ENR:	-		
County:	St. Johns	WBID:	2535A	ESTUARY	2		
Receiving Body of Water:	Matanzas River				RQ-	2022-09-05-34	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jeremy Parrish		x		x	x
Katrin Villinger	x		x		

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

Water Level:	Normal
Flow:	Flowing
Matrix:	Marine
Tide Stage:	Falling
High Tide:	800
Low Tide:	1430
Photos:	No
Meter ID:	Desi

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)
EST	1030	2.928	0.3	3.61	54.5	28.8	7.39	0.7	43100	27.72
	1035		2.428	3.61	54.7	28.8	7.39		43870	28.17

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	Contract Lab	Enterococci	F. coli	ICE			
Chlorophyll		Diversified		ICE			
Physical/Aggregate Nutrients	CHLSUITE-W			ICE			
Filtered Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS						
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	SA2145060	6/2/23
Metals							H2SO4 pH<2
Organics (LC)							
Macroinvertebrates							
Organics (GC)					*2.0 ml of H2SO4 Used Unless Noted Otherwise		
Molecular							
Periphyton							
Phytoplankton							
BOD							
Other(s)							
Field Comments:	Cloudy						
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.						
Relinquish Date:	09/08/2022	Signature:					

LIMS EVENT ID: _____ WIN Import ID: _____

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

Save Field Sheets on Network: KV 9/8/22 (Initials/Date) Migrate Data to WIN: _____ (Initials/Date)

(Initials/Date) (Initials/Date)