

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:

VSI 0251

RQ:

2023-01-23-21
2023-01-30-75

Project:

BMAP

- 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

1/14/22

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 Pansh	2/1/23	805	20.6	765	9.0	9.0	100.7	-	1.013	P/F	L/F
ICV	J	2/1/23	807	20.6	765	9.0	9.03	100.7	-	1.013	P/F	L/F
CCV	J Pansh	2/1/23	1615	21.8	764	8.8	8.73	99.6	-	-	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	J Pansh	2/1/23	809	221028A	11/23	1000	1000	P/F	L/F
ICV	J	J	811	220719B	7/23	100	98.3	P/F	L/F
CCV	J Pansh	2/1/23	1617	220719C	7/23	50000	48291	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 Pansh	2/1/23	815	M118-15	5/24	7.	21.7	7.02	-23.5	P/F	L/F
Calibr.	J	J	818	M188-01	7/24	4.	21.9	4.00	150.5	P/F	L/F
Calibr.	J	J	820	M103-01	4/24	10.	21.6	10.04	-195.2	P/F	L/F
ICV	J	J	821	M188-01	7/24	4.	21.9	4.08	148.0	P/F	L/F
CCV	J Pansh	2/1/23	1620	M103-01	4/24	10.	22.3	10.03	-195.3	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 10 171.7, slope from 4 to 7 174 (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: 1/14/22

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 Pansh	2/1/23	823	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:



DIVERSIFIED
ENVIRONMENTAL LABORATORIES, INC.

CHAIN OF CUSTODY RECORD

Project Number:

(Lab Use Only)

3653 Regent Boulevard, Suite # 509

Jacksonville, FL 32224

P. (904) 807-9625 E. info@delilab.com

F. (904) 807-9627

Page 1 of 1

Company Name Florida Department of Environmental Protection										Container Information (Qty, Size, & Type)				Sample Matrix Codes:					
Address 8800 Baymeadows Way West										250 mL	250 mL	250 mL							A. Air P. Petroleum
City Jacksonville State FL Zip 32256																		B. Bulk S. Soil/Sludge	
Attn. Dep-overflowmicro@dep.state.fl.us										Container Preservation Codes				Sample Kit or Container Lot #					
Tel. E-mail or Fax										6	6	6							NA
Project Name 2023- 01-30-75										Parameters				Preservation Codes:					
Project Number										E. Coli - Quantitray	Enterococci - Quantitray	Coliform, Fecal - MF 3 Dilutions							0. None 5. Na2S2O3
Project Location BMAP 2																			1. H2SO4 6. Crushed Ice (4C)
Sampler Name/Signature Jeremy Parrish																			2. HNO3 7. C6H8O6
																			3. HCl 8. NH4Cl
Transfer #	Sample # (Lab Use Only)	Sample Identification	Date Sampled	Time Sampled	Sample Matrix Code	Specific Cond. (Field)	Comp	Grab									Thermal Preservation:		
1		20030726	2/1/23	1230	NPW	427	X	1									In Crushed Ice? Yes / No		
2		20030897 *		1235		427	X	1									Cooler Temp: 0.1 °C		
3		20030123		1305		1284	X	1									Sample Cont. Temp: 2.7 °C		
4		20030753		1315		120	X	1									Turnaround Requested:		
5		20030653 *		1340		243	X	1									☒ Standard (10 Business Days)		
6		20030848		1410		437	X	1									☐ Semi-Rush (3-5 Business Days)		
7																	☐ Rush (1-2 Business Days)		
8																	Turnaround times are estimated & subject to change. Surcharges apply for all Rush samples.		
9																	Billing Information:		
0																	☐ Invoice with Report		
																	☐ Invoice to Accounting		
																	Req. #:		
																	P.O. #:		

 Certification #E821059	Special Instructions:	Transfer Numbers	Relinquished By	Date / Time	Received By	Date / Time
	* dilute 10x due to previous high results	1-6		2/1/23 1428		02/01/23 1428

Certification #E821059



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

BASIN MANAGEMENT ACTION PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV
Yes / No

WIN Station Name:	TROUT R @ DINSMORE BOAT RAMP DOCK NR US 1				Sample Date:	2/1/2023	
WIN / Field ID:	20030123	ORG ID:	21FLA	ENR:	-	Latitude:	30.43663
County:	Duval	WBID:	2203B	ESTUARY	3M	Longitude:	-81.76118
Receiving Body of Water:	St Johns River Above Dames Point				RQ-	2023-01-30-75	

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

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
	Syringe	x	Pole
	Syringe Lot#		Filter Lot#
	Secchi Equipment ID:	D#3	
Collection Method			
	Wading		Canoe/Kayak
	From Shore		Electric Motor
x	Dock		Gasoline Motor
Depth Measured With		Meter	

Water Level:	Normal
Flow:	NA
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	NA
Meter ID:	Desi
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)
EST	1305	0.5	0.3	1.2	12.5	17.5	7	0.5	1284	0.65
								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	E. coli Contract Lab	Diversified			
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)					
Field Comments:					
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.				
Relinquish Date:	02/01/2023	Signature:			

LIMS EVENT ID:		WIN Import ID:	
Enter Field Parameters, Verify Station ID In LIMS DMT:		QC Station ID, Field Parameters In LIMS DMT:	KH 03/13/2023
Save Field Sheets on Network:	KV 2/1/23	Migrate Data to WIN:	
	(Initials/Date)		(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

BASIN MANAGEMENT ACTION PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:		TROUT RIVER AT OLD KINGS RD				Sample Date:		2/1/2023		
WIN / Field ID:		20030753		ORG ID:	21FLA,21F LTPA	ENR:	-			
County:		Duval		WBID:	2203	STREAM	3F		Latitude:	30.43128
Receiving Body of Water:		St Johns River Above Dames Point				Longitude:	-81.76858			
						RQ-	2023-01-30-75			

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

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
	Syringe	x	Pole
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:		D#3	
Collection Method			
	Wading	Canoe/Kayak	
x	From Shore	Electric Motor	
		Gasoline Motor	
Depth Measured With Meter			

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	No
Meter ID:	Desi
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)
EST	1315	0.3	0.15	6.61	71.4	19	6.68	0.3	120	0.06
								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	E. coli	Contract Lab	Diversified	ICE			
Chlorophyll							
Physical/Aggregate							
Nutrients							
Filtered Nutrients							
Acid Preserved Nutrients							
Metals							
Organics (LC)							
Macroinvertebrates							
Organics (GC)							
Molecular							
Periphyton							
Phytoplankton							
BOD							
DOC							
Other(s)							
Field Comments:							
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.						
Relinquish Date:	02/01/2023	Signature:					

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ QC Station ID, Field Parameters In LIMS DMT: KH 03/13/2023

Save Field Sheets on Network: KV 2/1/23 (Initials/Date) Migrate Data to WIN: (Initials/Date)

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

BASIN MANAGEMENT ACTION PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:		TERRAPIN CREEK AT FAYE ROAD				Sample Date:		2/1/2023	
WIN / Field ID:	20030653	ORG ID:	21FLA	ENR:	-	Latitude:	30.43436		
County:	Duval	WBID:	2204	STREAM		3F	Longitude:	-81.56556	
Receiving Body of Water:		Dunn Creek				RQ-	2023-01-30-75		

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

Sampling Equipment				
x	Sample Container		Carboy	
	Dipper		Van Dorn	
	Syringe	x	Pole	Pole
Syringe Lot#		Filter Lot#		
Secchi Equipment ID:		D#3		
Collection Method				
	Wading		Canoe/Kayak	
x	From Shore		Electric Motor	
			Gasoline Motor	
Depth Measured With		Meter		

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	No
Meter ID:	Desi
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)
EST	1340	0.1	0.05	6.55	73.4	20.8	6.52	0.1	243	0.12
								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	E. coli Contract Lab Diversified	ICE			
Chlorophyll					
Physical/Aggregate Nutrients					
Filtered Nutrients					
Acid Preserved Nutrients					
Metals					
Organics (LC)					
Macroinvertebrates					
Organics (GC)					
Molecular					
Periphyton					
Phytoplankton					
BOD					
DOC					
Other(s)		SyringeLot#		FilterLot#	
Field Comments:					
Comments on COC:		Microbiology sample(s) submitted to contract laboratory.			
Relinquish Date:	02/01/2023	Signature:			

LIMS EVENT ID: WIN Import ID: KH 03/13/2023

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

Save Field Sheets on Network: KV 2/1/23 (Initials/Date) Migrate Data to WIN: (Initials/Date)

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

BASIN MANAGEMENT ACTION PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:	NW TRIBUTARY TO OPEN CR AT HODGES				Sample Date:	2/1/2023	
WIN / Field ID:	20030848	ORG ID:	21FLA	ENR:	-		
County:	Duval	WBID:	2299B	STREAM	3F		
Receiving Body of Water:	ICWW Duval. St Johns County				RQ-	2023-01-30-75	

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

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
	Syringe	x	Pole
	Syringe Lot#		Filter Lot#
	Secchi Equipment ID:	D#3	
Collection Method			
	Wading		Canoe/Kayak
x	From Shore		Electric Motor
			Gasoline Motor
Depth Measured With		Sonar	

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	NA
Meter ID:	Desi
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)
EST	1410	0.1	0.05	6.85	76.9	20.9	6.95	0.1	437	0.21
								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	E. coli Contract Lab Diversified	ICE			
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)					
Field Comments:					
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.				
Relinquish Date:	02/01/2023	Signature:			

LIMS EVENT ID: WIN Import ID: KH 03/13/2023

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

Save Field Sheets on Network: KV 2/1/23 Migrate Data to WIN: (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

BASIN MANAGEMENT ACTION PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:	MONCRIEF CR @ 21ST ST				Sample Date:	2/1/2023	
WIN / Field ID:	20030897	ORG ID:	21FLA	ENR:	-		
County:	Duval	WBID:	2228B	STREAM			
Receiving Body of Water:	Trout River Lower Reach				RQ-	2023-01-30-75	

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

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
	Syringe	x	Pole
	Syringe Lot#		Filter Lot#
	Secchi Equipment ID:	D#3	
Collection Method			
	Wading		Canoe/Kayak
x	From Shore		Electric Motor
			Gasoline Motor
Depth Measured With		Meter	

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	No
Meter ID:	Desi
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)
EST	1245	0.1	0.05	4.8	52.8	19.9	7.2	0.1	465	0.22

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)	Type	Lot#	Expiration Date	pH Check
Microbiology	E. coli Contract Lab Diversified	ICE			
Chlorophyll					
Physical/Aggregate Nutrients					
Filtered Nutrients					
Acid Preserved Nutrients					
Metals					
Organics (LC)					
Macroinvertebrates					
Organics (GC)					
Molecular					
Periphyton					
Phytoplankton					
BOD					
DOC					
Other(s)					

Field Comments:

Comments on COC: Microbiology sample(s) submitted to contract laboratory.

Relinquish Date:	02/01/2023	Signature:	
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LIMS EVENT ID: WIN Import ID: KH 03/13/2023

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

Save Field Sheets on Network: KV 2/1/23 Migrate Data to WIN: (Initials/Date)

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

BASIN MANAGEMENT ACTION PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:		MONCRIEF CR AT MONCRIEF ROAD				Sample Date:		2/1/2023	
WIN / Field ID:	20030726	ORG ID:	21FLA	ENR:	-	Latitude:	30.37028		
County:	Duval	WBID:	2228B	STREAM		Longitude:	-81.68383		
Receiving Body of Water:		Trout River Lower Reach				RQ-	2023-01-30-75		

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

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
	Syringe	x	Pole
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:		D#3	
Collection Method			
	Wading		Canoe/Kayak
x	From Shore		Electric Motor
			Gasoline Motor
Depth Measured With		Meter	

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	NA
Meter ID:	Desi
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)
EST	1230	0.4	0.3	5.87	64.4	19.7	7.2	0.4	402	0.19
								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	E. coli Contract Lab Diversified	ICE			
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)					
Field Comments:					
Comments on COC: Microbiology sample(s) submitted to contract laboratory.					
Relinquish Date:	02/01/2023	Signature:			

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ QC Station ID, Field Parameters In LIMS DMT: KH 03/13/2023

Save Field Sheets on Network: KV 2/1/23 (Initials/Date) Migrate Data to WIN: _____ (Initials/Date)