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

Meter ID: Stitch RQ- 2020-05-04-41 Project: ~~ESFA Cost~~ BMAP 2

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

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.	JPunch	5/27/20	736	23.7	759	8.4	8.4	99.9	—	1.033	(P) / F	(L) / F
ICV	"	5/27/20	737	23.7	759	8.4	8.418	100.3	—	1.033	(P) / F	(L) / F
CCV	AKalmbacher	5-27-20	1230	24.7	759.8	8.3	8.35	100.9	—	1.037	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	JPunch	5/27/20	738	191018	10/20	1000	1000	(P) / F	(L) / F
ICV	"	5/27/20	739	19071A	7/20	100	101.5	(P) / F	(L) / F
CCV	AKalmbacher	5-27-20	1235	191018	10/2020	1,000	1,002	(P) / F	(L) / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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.	JPunch	5/27/20	742	2911819	10/21	7.	23.9	7.01	300	(P) / F	(L) / F
Calibr.	"	"	743	2910629	10/21	4.	23.9	4.01	152.0	(P) / F	(L) / F
Calibr.	"	"	744	9912823	5/21	10.	23.9	10.01	201.0	(P) / F	(L) / F
ICV	"	"	745	2910629	10/21	4.	23.9	3.99	151.5	(P) / F	(L) / F
CCV	AKalmbacher	5-27-20	1238	9912823	5/2021	10.0	24.8	10.00	202.3	(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 ± 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	JPunch	5/27/20 ~~750~~	750	0.01	0.02	(P) / F	(L) / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

Revision 2/24/2020

WIN Number / Site Name

WIN / Field ID: 20030897

MONCRIEF CR @ 21ST ST

WBID Number: 2228B

Comments:

Matrix: Surface Fresh ☒ Surface Salt ☐

Sample Type: E. coli ☐ Entero ☐ Fecal ☐

Weather Conditions:

Sample Access: Wading ☐ From Shore ☒ Dock ☐ Bridge ☐

Sample Ice Preserved in 15 minutes? Yes ☐ No ☐

Initials Sample & Preservation: KA

Initials Documentation: AK

Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppth	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack
1105	0.2	0.1	24.5	240.3	0.11	7.2	2.75	32.9	0.2	

WIN Number / Site Name

WIN / Field ID: 20030726

MONCRIEF CR AT MONCRIEF ROAD

WBID Number: 2228B

Comments:

Matrix: Surface Fresh ☒ Surface Salt ☐

Sample Type: E. coli ☒ Entero ☐ Fecal ☐

Weather Conditions:

Sample Access: Wading ☐ From Shore ☒ Dock ☐ Bridge ☐

Sample Ice Preserved in 15 minutes? Yes ☒ No ☐

Initials Sample & Preservation: AK

Initials Documentation: AK

Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppth	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack
1125	0.4	0.2	25.4	269.0	0.13	7.27	3.16	38.4	0.4(S)	

WIN Number / Site Name

WBID Number

Matrix: Surface Fresh ☐ Surface Salt ☐

Sample Type: E. coli ☐ Entero ☐ Fecal ☐

Weather Conditions:

Comments:

Sample Access: Wading ☐ From Shore ☐ Dock ☐ Bridge ☐

Sample Ice Preserved in 15 minutes? Yes ☐ No ☐

Initials Sample & Preservation:

Initials Documentation:

Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppth	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack

WIN Number / Site Name

WBID Number

Matrix: Surface Fresh ☐ Surface Salt ☐

Sample Type: E. coli ☐ Entero ☐ Fecal ☐

Weather Conditions:

Comments:

Sample Access: Wading ☐ From Shore ☐ Dock ☐ Bridge ☐

Sample Ice Preserved in 15 minutes? Yes ☐ No ☐

Initials Sample & Preservation:

Initials Documentation:

Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppth	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack

Signature: [signature] Date: 5-27-2020

Field Sheet Scanned (Initials/date): AK 5/27/2020 Parameters uploaded to LIMs (Initials/date): _____

Data QC'd in LIMs (Initials/date): BD 6/15/20 Data Migrated to WIN (Initials/date): _____

All documentation meets requirements of FDEP SOP FD 1000

Revision 2/24/2020

Florida DEP *North East District ROC* BMAP Field sheet

Data Pass QCV? Yes / No

Date: 5-27-2020 RQ#: 2020-05-04-41

Event Name: BMAP 2 Meter ID: ProDSS 'Stitch'

Sampling Team Members: K.Appleby/A.Kalmbacher

All bacteria samples taken are surface water grab samples.

WIN Number / Site Name

WIN ID/Field ID: 20030848

NW TRIBUTARY TO OPEN CR AT HODGES

WBID Number: 2299B

Matrix: Surface Fresh ☒ Surface Salt ☐

Sample Type: E. coli ☒ Entero ☐ Fecal ☐

Weather Conditions: Overcast mid 80's

Comments: Close to 2" of rain previous 2 nights

Sample Access: Wading ☐ From Shore ☒ Dock ☐ Bridge ☐

Sample Ice Preserved in 15 minutes? Yes ☒ No ☐

Initials Sample & Preservation: AK Initials Documentation: AK

Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppth	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack
0915	0.28	0.15	25.3	442.1	0.21	7.07	6.36	77.5	0.28	

WIN Number / Site Name

WIN ID/Field ID: 20030653

TERRAPIN CR AT FAYE ROAD

WBID Number: 2204

Matrix: Surface Fresh ☒ Surface Salt ☐

Sample Type: E. coli ☒ Entero ☐ Fecal ☐

Weather Conditions:

Comments:

Sample Access: Wading ☐ From Shore ☒ Dock ☐ Bridge ☐

Sample Ice Preserved in 15 minutes? Yes ☒ No ☐

Initials Sample & Preservation: AK Initials Documentation: AK

Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppth	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack
0955	0.1	0.05	23.9	105.8	0.05	6.57	6.89	81.6	0.1(s)	

WIN Number / Site Name

WIN / Field ID: 20030123

TROUT R @ DINSMORE BOAT RAMP DOCK NR US 1

WBID Number: 2203B

Matrix: Surface Fresh ☐ Surface Salt ☒

Sample Type: E. coli ☐ Entero ☒ Fecal ☐

Weather Conditions:

Comments:

Sample Access: Wading ☐ From Shore ☐ Dock ☐ Bridge ☐

Sample Ice Preserved in 15 minutes? Yes ☒ No ☐

Initials Sample & Preservation: AK Initials Documentation: AK

Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppth	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack
1025	.45	0.28	26.1	17656	10.3	6.6	2.9	38.6	0.45	Flood

WIN Number / Site Name

WIN / Field ID: 20030753

TROUT RIVER AT OLD KINGS RD

WBID Number: 2203

Matrix: Surface Fresh ☒ Surface Salt ☐

Sample Type: E. coli ☒ Entero ☐ Fecal ☐

Weather Conditions:

Comments:

Sample Access: Wading ☐ From Shore ☒ Dock ☐ Bridge ☐

Sample Ice Preserved in 15 minutes? Yes ☒ No ☐

Initials Sample & Preservation: AK Initials Documentation: KA

Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppth	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack
1040	0.7	0.35	23.6	2724	1.41	6.91	2.28	26.9	~~0.7~~ 0.7(s)	Flood

All documentation meets requirements of FDEP SOP FD 1000

Request Number: RQ-2020-05-04-41

Bmap 2

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Project ID: BMAP

Requester: Jeremy M. Parrish

Field Report Prepared By: A. Kalmbacher

Collected By: K. Appleby

Sampling Agency: FDEP/NEROC

WIN ID/Field ID: 20030848

NW TRIBUTARY TO OPEN CR AT HODGES

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 5-27-2020 Time 0915 (Eastern / Central) | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 6.36 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 25.3 | pH 7.07 | Sample Depth 0.15 ☐ ft ☒ m | Sp. Conductance (umho/cm) 442.1

Salinity (ppt) | Comments

WIN ID/Field ID: 20030653

TERRAPIN CR AT FAYE ROAD

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 5-27-2020 Time 0955 (Eastern / Central) | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 6.89 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 23.9 | pH 6.57 | Sample Depth 0.05 ☐ ft ☒ m | Sp. Conductance (umho/cm) 105.8

Salinity (ppt) 0.05 | Comments

WIN / Field ID: 20030123

TROUT R @ DINSMORE
BOAT RAMP DOCK NR US 1

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 5-27-2020 Time 1025 (Eastern / Central) | Composite end Date Time | Bottle Group(s): B

Matrix (type, e.g. Salt, Fresh, etc): Salt | Diss. Oxygen 2.9 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 26.1 | pH 6.6 | Sample Depth 0.28 ☐ ft ☒ m | Sp. Conductance (umho/cm) 17,656

Salinity (ppt) 10.3 | Comments

WIN / Field ID: 20030753

TROUT RIVER AT
OLD KINGS RD

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 5-27-2020 Time 1040 (Eastern / Central) | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): Salt | Diss. Oxygen 2.28 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 23.6 | pH 6.91 | Sample Depth 0.35 ☐ ft ☒ m | Sp. Conductance (umho/cm) 2,724

Salinity (ppt) 1.41 | Comments

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
A. Kalmbacher	5-27-2020 1145	N/A			

Group: A	Bottle Type: NE-ALS-ECQ	P-250ML-WI-THI	# of Bottles: ~~2~~ 5	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	Sent to ALS
Group: B	Bottle Type: NE-ALS-ENQ	P-250ML-WI-THI	# of Bottles: 1	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	Sent to ALS

Request Number: RQ-2020-05-04-41

Bmap 2

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Project ID: BMAP

Requester: Jeremy M. Parrish

Collected By: K. Appleby

Field Report Prepared By: A. Kalmbacher

Sampling Agency: FDEP / NE ROC

WIN / Field ID: 20030897

MONCRIEF CR @ 21ST ST

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 5-27-2020 Time 1105 | Eastern / Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 2.75 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 24.5 | pH 7.2 | Sample Depth 0.1 ☐ ft ☒ m | Sp. Conductance (umho/cm) 240.3

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) 0.11 | Comments

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WIN / Field ID: 20030726

MONCRIEF CR AT MONCRIEF ROAD

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 5-27-2020 Time 1125 | Eastern / Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 3.16 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 25.4 | pH 7.27 | Sample Depth 0.2 ☐ ft ☒ m | Sp. Conductance (umho/cm) 269.0

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) 0.13 | Comments

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Location | ☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern / Central | Composite end Date Time | Bottle Group(s)

Field ID | Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

WIN/STORET # | Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments

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Location | ☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern / Central | Composite end Date Time | Bottle Group(s)

Field ID | Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

WIN/STORET # | Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments

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Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
A. Kalmbacher	5-27-2020 1145	N/A			

Group: A	Bottle Type: P-250ML-WI-THI	# of Bottles: 2	Preservative:	ICE	**Enter Number of Bottles Sent to Lab** _____
	NE-ALS-ECQ					
Group: B	Bottle Type: P-250ML-WI-THI	# of Bottles: 1	Preservative:	ICE	**Enter Number of Bottles Sent to Lab** _____
	NE-ALS-ENQ					

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR #

ALS Contact: Mandy Sullivan

ALS Environmental

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Ph(904) 739-2277 / FAX (904) 739-2011

Page 1 of 1

Client Name	Project Number
FDEP-NE ROC	RQ-2020-05-04-41
Report To	Report CC
Dep-Overflowmicro@dep.state.fl.us	
Company/Address	
8800 Baymeadows Way W Jacksonville, Fl 32256	
Phone # 904-256-1700 (904-256-1700)	FAX #
Sampler's Signature	Sampler's Printed Name
	Amy Kalmbacher

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	Preservative	E.Coli	Enterococci	REMARKS
20030848		5-27-2020	0915	SW	2		✓	✓	Fresh
20030653			0955		2		✓		↓
20030123			1025		2			✓	Marine
20030753			1040		2		✓	✓	Fresh
20030897			1105		2		✓	✓	↓
20030726		↓	1125		2		✓	✓	

Preservative Key: 0. None; 1. HCL; 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. NaHSO4; 8. ICE

Special Instructions/Comments: Email Report to: Dep-Overflowmicro@dep.state.fl.us

2.8°C, 0.5°C

TURNAROUND REQUIREMENTS

___ RUSH (SURCHARGES APPLY)

X STANDARD

REQUESTED FAX DATE
N/A

REQUESTED REPORT DATE
N/A

REPORT REQUIREMENTS

___ I. Results Only

___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

___ III. Results + QC and Calibration Summaries

___ IV. Data Validation Report with Raw Data

Edata ___ Yes ___ No

INVOICE INFORMATION

P.O. # B10739

Bill to:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Amy Kalmbacher	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: FDEP/NE ROC	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 5-27-2020 (1703)	Date/Time: 5/27/2020 (1703)	Date/Time	Date/Time	Date/Time	Date/Time