

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: ProDSS Hatch

RQ: 2020-03-09-14

Project: BMAP 2

- 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.	<u>AKalmbacher</u>	<u>03-12-20</u>	<u>0805</u>	<u>21.3</u>	<u>758.7</u>	<u>8.8</u>	<u>8.84</u>	<u>99.8</u>	<u>—</u>	<u>1.020725</u>	<u>P</u> / F	L / <u>F</u>
ICV		<u>↓</u>	<u>0808</u>	<u>21.5</u>	<u>758.7</u>	<u>8.8</u>	<u>8.83</u>	<u>99.9</u>	<u>—</u>	<u>1.020725</u>	<u>P</u> / F	<u>L</u> / F
CCV	<u>AKalmbacher</u>	<u>↓</u>	<u>1310</u>	<u>22.3</u>	<u>759</u>	<u>8.7</u>	<u>8.71</u>	<u>100.0</u>	<u>—</u>	<u>1.020725</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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	<u>AKalmbacher</u>	<u>03-12-20</u>	<u>0810</u>	<u>191018</u>	<u>10/2020</u>	<u>1.000</u>	<u>1.000</u>	P / F	L / F
ICV		<u>↓</u>	<u>0813</u>	<u>190711A</u>	<u>07/2020</u>	<u>100</u>	<u>103.6</u>	<u>P</u> / F	<u>L</u> / F
CCV	<u>AKalmbacher</u>	<u>↓</u>	<u>1312</u>	<u>191018</u>	<u>10/2020</u>	<u>1.000</u>	<u>1.002</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>AKalmbacher</u>	<u>03-12-20</u>	<u>0815</u>	<u>2911819</u>	<u>10/2021</u>	<u>7.</u>	<u>23.7</u>	<u>7.01</u>	<u>-26.1</u>	P / F	L / F
Calibr.		<u>↓</u>	<u>0818</u>	<u>2910G29</u>	<u>10/2021</u>	<u>4.</u>	<u>23.8</u>	<u>4.00</u>	<u>157.9</u>	P / F	L / F
Calibr.		<u>↓</u>	<u>0821</u>	<u>4912B23</u>	<u>5/2021</u>	<u>10.</u>	<u>23.6</u>	<u>10.02</u>	<u>-145.8</u>	P / F	L / F
ICV		<u>↓</u>	<u>0823</u>	<u>2910G29</u>	<u>10/2021</u>	<u>4.0</u>	<u>23.7</u>	<u>3.97</u>	<u>157.7</u>	<u>P</u> / F	<u>L</u> / F
CCV	<u>AKalmbacher</u>	<u>↓</u>	<u>1315</u>	<u>4912B23</u>	<u>5/2021</u>	<u>10.0</u>	<u>23.6</u>	<u>10.00</u>	<u>147.1</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 _____, 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	<u>AKalmbacher</u>	<u>03-12-20</u>	<u>0825</u>	<u>0.00</u>	<u>0.00</u>	<u>P</u> / F	<u>L</u> / 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 DEP North East District ROC BMAP Field sheet

Data Pass CCV?

Yes / No

Date: 03-12-2020 RQ#: 2020-03-09-14Event Name: _____ Meter ID: YSI Pro DSS StitchSampling Team Members: R. McDonald, A. Kalmbacher

All bacteria samples taken are surface water grab samples.

WIN / Field ID:  20030953				WBID Number <u>2208.A</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>AK</u>		Initials Documentation <u>AK</u>	
LITTLE FISHWEIR AT OAK ST.				Sample Access: Wading ☐ Dock ☐ From Shore ☐ Bridge ☒		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐							
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/Flood Slack <u>?</u>			
<u>0925</u>	<u>0.2</u>	<u>0.1</u>	<u>18.1</u>	<u>497</u>	<u>0.24</u>	<u>6.59</u>	<u>3.81</u>	<u>40</u>	<u>0.2 VOB</u>				
Comments and Weather: <u>Clear, 65°</u> <u>Water level low</u>													

WIN / Field ID:  20030801				WBID Number		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>AK</u>		Initials Documentation <u>AK</u>	
BIG FISHWEIR CR SF @ HAMILTON ST				Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐							
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/Flood Slack <u>?</u>			
<u>0955</u>	<u>0.24</u>	<u>0.15</u>	<u>18.7</u>	<u>2168</u>	<u>1.13</u>	<u>7.2</u>	<u>6.5</u>	<u>70%</u>	<u>0.24</u>				
Comments and Weather: <u>Partly Cloudy, 65°</u>													

WIN ID/Field ID:  20030082				WBID Number		Matrix: Surface ☐ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation	
BUTCHER PEN CR @ CONFEDERATE PT ROAD				Sample Access: Wading ☐ Dock ☐ From Shore ☐ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☐ No ☐							
Time	Total depth(in)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/Flood Slack <u>?</u>			
<u>1025</u>	<u>0.33</u>	<u>0.15</u>	<u>19.4</u>	<u>6312</u>	<u>3.46</u>	<u>6.9</u>	<u>5.8</u>	<u>64</u>	<u>0.33</u>				
Comments and Weather: <u>Partly Cloudy 65°</u>													

Signature: _____ Date: _____

Field Sheet Scanned (Initials/date): _____ Parameters uploaded to LIMs (Initials/date): _____

Data QC'd in LIMs (Initials/date): BD 6/2/2020

Data Migrated to WIN (Initials/date): _____

WIN ID/Field ID:  20030760					WBID Number 2322		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation AK		Initials Documentation AK	
BUTCHER PEN CR AT WESCONNETT					Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐				Sample Ice Preserved in 15 minutes? Yes ☒ No ☐					
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/Flood Slack				
1040	1.17	0.3	18.0	372	0.18	6.9	4.3	46.1	0.8					
Comments and Weather: Partly Cloudy, 70°														

WIN ID/Field ID:  20030891					WBID Number 2326A		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation AK		Initials Documentation AK	
GOODBYS CR ABOVE WEST BRANCH AT SAN CLERC					Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐				Sample Ice Preserved in 15 minutes? Yes ☒ No ☐					
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/Flood Slack				
1130	0.4	0.2	17.0	355.8	0.17	7.1	6.72	69	0.4	VOB				
Comments and Weather: Partly Cloudy, 73°														

WIN ID/Field ID:  20030793					WBID Number		Matrix: Surface ☐ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation AK		Initials Documentation AK	
CRAIG CR @ HENDRICKS AVE					Sample Access: Wading ☐ Dock ☐ From Shore ☐ Bridge ☐				Sample Ice Preserved in 15 minutes? Yes ☐ No ☐					
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/Flood Slack				
1200	0.47	0.2	19.8	10415	5.91	6.9	AK 3.9	45.4	0.4					
Comments and Weather: Partly Cloudy, 73°														

WIN ID/Field ID:  20030958					WBID Number		Matrix: Surface ☐ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation AK		Initials Documentation AK	
CRAIG CR. 100m DOWN FROM FOOTBRIDGE IN PARK					Sample Access: Wading ☐ Dock ☐ From Shore ☐ Bridge ☐				Sample Ice Preserved in 15 minutes? Yes ☐ No ☐					
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/Flood Slack				
1210	0.44	0.2	AK 19.7 19.6	13723	7.9	6.9	AK 7.0	81	0.44	VOB				
Comments and Weather: Partly Cloudy, 75°														

Bmap 1 2020

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Requester: Jeremy M. Parrish

Field Report Prepared By:

A. Kalmbacher

Project ID: BMAP

Collected By:

K. McDonald

Sampling Agency:

FDEP / NE ROC

WIN ID/Field ID:



20030760

BUTCHER PEN CR AT WESCONNETT

Latitude

☐ dd

Longitude

☐ dms

WIN ID/Field ID:



20030082

BUTCHER PEN CR @ CONFEDERATE PT ROAD

Latitude

☐ dd

Longitude

☐ dms

WIN / Field ID:



20030801

BIG FISHWEIR CR SF
@ HAMILTON ST

Latitude

☐ dd

Longitude

☐ dms

WIN / Field ID:



20030953

LITTLE FISHWEIR AT OAK ST.

Latitude

☐ dd

Longitude

☐ dms

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 03-12-2020 Time 1040	Eastern Central	Composite end Date	Time	Bottle Group(s) (See pg 2)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 4.3	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
Temp (C) 18.0	pH 6.9	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 372	
☐ dd ☐ dms	Salinity (ppt) 0.18	Comments			
☐ Comp ☒ Grab	Collection (comp begin or grab) Date 03-12-2020 Time	Eastern Central	Composite end Date	Time	Bottle Group(s)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
Temp (C) 19.4	pH 6.9	Sample Depth 0.15	☐ ft ☒ m	Sp. Conductance (umho/cm) 6312	
☐ dd ☐ dms	Salinity (ppt) 3.46	Comments			
☐ Comp ☒ Grab	Collection (comp begin or grab) Date 03-12-2020 Time	Eastern Central	Composite end Date	Time	Bottle Group(s)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 6.5	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
Temp (C) 18.7	pH 7.2	Sample Depth 0.15	☐ ft ☒ m	Sp. Conductance (umho/cm) 2168	
☐ dd ☐ dms	Salinity (ppt) 1.13	Comments			
☐ Comp ☒ Grab	Collection (comp begin or grab) Date 03-12-2020 Time	Eastern Central	Composite end Date	Time	Bottle Group(s)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 3.8	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
Temp (C) 18.1	pH 6.5	Sample Depth 0.1	☐ ft ☒ m	Sp. Conductance (umho/cm) 497	
☐ dd ☐ dms	Salinity (ppt) 0.24	Comments			

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
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Group: A	Bottle Type: P-250ML-WI-THI NE-ALS-ECQ	# of Bottles: 5	Preservative: ICE	Enter Number of Bottles Sent to Lab	5
Group: B	Bottle Type: P-250ML-WI-THI NE-ALS-ENQ	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2

→ Sent to ALS Lab

Group: A	Bottle Type: P-250ML-WI-THI	# of Bottles: 5	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
NE-ALS-ECQ				

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

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Bmap 1 2020

Customer: NE-DIST

Project ID: BMAP

Requester: Jeremy M. Parrish

Field Report Prepared By: _____

Collected By: _____

Sampling Agency: _____

WIN ID/Field ID:



20030793

CRAIG CR @ HENDRICKS AVE

 Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms

WIN ID/Field ID:



20030958

CRAIG CR. 100m DOWN FROM
FOOTBRIDGE IN PARK
 Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms

WIN ID/Field ID:



20030891

GOODBYS CR ABOVE WEST BRANCH
AT SAN CLERC
 Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>03-12-2020</u> Time _____	<u>Eastern</u> Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2) B	
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen <u>3.9</u> ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
Temp (C) <u>19.8</u>	pH <u>6.9</u>	Sample Depth <u>0.2</u> ☐ ft ☒ m	Sp. Conductance (umho/cm) <u>10,415</u>		
☐ dd ☐ dms Salinity (ppt) <u>5.91</u>	Comments				
☒ Comp ☒ Grab	Collection (comp begin or grab) Date <u>03-12-2020</u> Time _____	<u>Eastern</u> Central	Composite end Date _____ Time _____	Bottle Group(s) B	
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen <u>7.0</u> ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
Temp (C) <u>19.6</u>	pH <u>7.2</u>	Sample Depth <u>0.2</u> ☐ ft ☒ m	Sp. Conductance (umho/cm) <u>13,723</u>		
☐ dd ☐ dms Salinity (ppt) <u>7.9</u>	Comments				
☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>03-12-2020</u> Time _____	<u>Eastern</u> Central	Composite end Date _____ Time _____	Bottle Group(s) A	
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen <u>6.72</u> ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
Temp (C) <u>17.0</u>	pH <u>7.1</u>	Sample Depth <u>0.2</u> ☐ ft ☒ m	Sp. Conductance (umho/cm) <u>355</u>		
☐ dd ☐ dms Salinity (ppt) <u>0.17</u>	Comments				
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____	<u>Eastern</u> 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) ☐ dd ☐ dms Comments				

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

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

SR #

ALS Contact: Mandy Sullivan

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