

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: Pro DSS Desi

RQ: 2019-06-10-66

Project: Hopkins CM

- 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 7/2019

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.	K. Appleby	9/25/19	735	23.6	758.9	8.5	8.49	99.9	-	-	P/F	L/F
ICV	↓	↓	737	23.5	758.9	8.5	8.49	99.9	-	-	P/F	L/F
CCV	C. Ruben	↓	1439	23.5	758.0	8.5	8.50	100.1	-	-	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.	K. Appleby	9/25/19	740	190711B	7/2020	1000	1000	P/F	L/F
ICV	↓	↓	742	7141319	12/2019	1413	1410	B/F	L/F
CCV	C. Ruben	↓	1441	190711C	7/2020	50,000	50,687	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.	K. Appleby	9/25/19	754	2902778	1/2021	7.00	23.9	7.00	-31.0	P/F	L/F
Calibr.	↓	↓	757	2904300	3/2021	4.00	24.1	4.00	150.7	P/F	L/F
Calibr.	↓	↓	759	2810F55	4/2020	10.00	24.1	10.00	-201.0	P/F	L/F
ICV	↓	↓	800	2904300	3/2021	4.00	24.2	3.98	151.3	P/F	L/F
CCV	C. Ruben	↓	1445	2810F55	4/2020	10.0	24.0	9.96	-200.3	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 _____, 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: 7/2019

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	K. Appleby	9/25/19	802	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:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?
Yes / No

January 2019

WIN Station Name: Hopkins Cr at Kings Rd Date: 9/24/19
WIN/ Field ID: 20030758 WBID: 2266 Latitude: 30.308697
County: Duval ORG ID: 21FLA Longitude: -81.421048
Receiving Body of Water: ICV RQ: 2019-06-10-66

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
K. Appleby							X	X	
B. Davis						X			X
C. Ruben					X				

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>Yes</u>		
Equipment ID <u>0-40 #7</u>		

Collection Method		
☐ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☒ Gasoline Motor	

Water Level: Dry / Pooled / Low / Normal / High / Flooded
Photos: Yes / No / Flow: No Flow / Intertidal / Flowing / NA
Tide: Rising / Falling / Slack / NA
Tide Times: High 800 Low
Matrix: Fresh / Marine / DI
Motor ID# Yes
SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:
Parameter Suite Parameter Methods Preservation Lot# Expiration pH Check
Preserved Nutrients ☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP ☐ Ice ☐ H2SO4 SA9010030 4/10/20 ☒ <2
Metals ☒ W-ICPMS ☒ W-ICP ☒ Ice ☒ HNO3 NA9099020 4/9/19 ☒ <2
Filtered Nutrients ☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter ☒ Ice
Chlorophyll ☒ CHL-SUITE-W ☒ Ice
Physical/Aggregate (Fresh) ☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-Cl / W-COLOR / W-SO4-IC / W-TDS ☐ Ice
Physical/Aggregate (Marine) ☒ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY ☒ Ice
Macroinvertebrates ☐ MI-FW-QLDC ☐ Formalin
Periphyton ☐ ALGAE-ID ☐ Ice
Microbiology ☐ E Coli ☐ F Coli ☒ Enterococci ☒ Ice
Molecular ☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ Ice
☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD
Tracers ☐ W-E8321-DI ☐ W-E8321-MS ☐ Ice
Pesticides ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ Ice
☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA
Phytoplankton ☐ DTY-QN-C ☐ PKD-QN-C ☐ Ice

Notes: _____
Signature: [Signature] Date: 9/24/19

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 _____ Migrate Data to WIN: _____ Verify Data In WIN: _____
(Initials/Date) (Initials/Date) (Initials/Date)

Contains: 1:1 H2SO4
Lot No.: SA9010030
Expires: 04/10/20
See Safety Data Sheet (SDS)

Contains: 1:1 HNO3
Lot No.: NA9099030
Expires: 04/09/20
See Safety Data Sheet (SDS)

ULFURIC ACID <51%
Lot No.: 7730-18-6
Expires: 04/10/20
See Safety Data Sheet (SDS)



Hopkins Cr at Kings Rd.

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: **3AD**

RQ- **2019-06-10-66**

Project: **Hopkins C/M**

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.	Brian V.	9/16/19	910	24.3	760	8.4	8.38	100	/	/	P/F	L/F
ICV		25	912	24.3	760	8.4	8.38	100.1	/	/	P/F	L/F
CCV		9/24/19	1409	23.8	760	8.4	8.45	100.1	/	/	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 D55 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.	Brian V.	9/16/19	915	190711B	7/20	1000	1000	P/F	L/F
ICV		25	918	190711C	7/20	50,000	50604	P/F	L/F
CCV		9/24/19	1413	190711B	7/20	1000	1010	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.						7.				P/F	L/F
Calibr.						4.				P/F	L/F
Calibr.						10.				P/F	L/F
ICV										P/F	L/F
CCV										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 _____, 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	Brian Davis	9/16/19	920	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:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SMP CONTINUOUS MONITORING SHEET

August 2017

PAGE ____ OF ____

Data Qualified?
Yes / No

STORET Station Name: Hopkins at Kings Rd

WBID: 2266

STORET Station ID: 20030758

ORG ID: 21FLA

Field ID: _____ County: Duval

RQ - 2019-06-10-66

Meter ID# : 3AD

Pre-Deployment Setup

Date: 9/16/19 Performed by: B Davis

Parameters Recorded: ☒ Date ☒ Time ☒ Temp. (°C) ☒ Sp. Cond. ☒ DOSAT ☒ DO (mg/L) ☐ pH ☐ Depth

Sampling Interval (min): 15 Free Memory (days): 55.2 Expected Battery Life: 202 Programmed Duration: 7 days

Sonde Filename: HC91619 Reset Clock? (Y or N) N

Programmed Start Date/Time: 9/16/19 (mm/dd/yyyy) 12:00 (hh:mm:ss) (Cent. / East) East Wipers Park Correctly? Y

Programmed End Date/Time: 9/23/19 (mm/dd/yyyy) 12:00 (hh:mm:ss) (Cent. / East) East Calibration Date 9/16/19

Deployment

Date: 9/16/19 Time Into Water: 1208 Time Zone: Cent. / East.

Deployed Sonde Latitude: 30.308697

Deployed By: BD
(print all staff present) KA

Deployed Sonde Longitude: -81.421048

Notes: (how to get to, landmarks, site considerations & concerns, etc.)

Starting at High tide

Photos: Yes / ☒ No

Retrieval

Date: 9/24/19 Time Out Of Water: 1100 Time Zone: Cent. / East.

Mounting left or removed? Removed

Retrieved By: BD CR KA

Notes: (significant fouling, signs of human disturbance, site considerations and concerns, etc.)

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Post-Deployment

Date: 9/24/19 Performed by: B Davis

Data File Downloaded? ☒ Yes / ☐ No Archived Filename: 09162019_data

Meter Verification Date: 9/24/19

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Florida Department of Environmental Protection

Central Laboratory Submittal Form

Continuous Monitoring Event

last revised Jan 25, 2018

Customer: NE-DIST

Requester: Brian Davis

Field Report Prepared By: B - D -

Project ID: SMP

Collected By: B Davis, C Ruten, K ApplebySampling Agency: NE D DEAP

Loc:	WIN / Field ID:		20030758	☐ Comp ☒ Grab	Collection (comp begin or grab)	☒ Eastern ☐ Central	Composite end	Bottle Group(s)
Field	Hopkins Cr at Kings Rd.			Date	9/25/19	Time	1100	(See pg 2)
WIN				Matrix (type, e.g., Salt, Fresh, etc)	Salt	Diss. Oxygen	3.05	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)	26.9	pH	7.01	
Location				Salinity (ppt)	22.45	Sample Depth	0.3	
Field ID				Comments				
WIN/STORET #				☐ Comp ☐ Grab	Collection (comp begin or grab)	☐ Eastern ☐ Central	Composite end	Bottle Group(s)
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Date		Time		
Location				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		
Field ID				Temp (C)		pH		
WIN/STORET #				Salinity (ppt)		Sample Depth		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Comments				
Location				☐ Comp ☐ Grab	Collection (comp begin or grab)	☐ Eastern ☐ Central	Composite end	Bottle Group(s)
Field ID				Date		Time		
WIN/STORET #				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		
Location				Salinity (ppt)		Sample Depth		
Field ID				Comments				
WIN/STORET #				☐ Comp ☐ Grab	Collection (comp begin or grab)	☐ Eastern ☐ Central	Composite end	Bottle Group(s)
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Date		Time		
Location				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		
Field ID				Temp (C)		pH		
WIN/STORET #				Salinity (ppt)		Sample Depth		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Comments				

Relinquished By: <u>B - D -</u>	Date/Time: <u>9/24/19 1600</u>	Shipping Method: <u>FedEx</u>	Number of Coolers Shipped: <u>1</u>	Received By:	Date/Time:
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Group: B	Bottle Type: BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	0
CHLSUITE-W					
Group: B	Bottle Type: P-250ML-WI-THI	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	0
NE-ALS-ENQ					
Group: B	Bottle Type: P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	0
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
Group: B	Bottle Type: P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	0
W-PO4-F					
Group: C	Bottle Type: P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
ALKALINITY TURBIDITY W-BR-IC W-F W-TSS					
Group: C	Bottle Type: BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
CHLSUITE-W					
Group: C	Bottle Type: P-250ML-WI-THI	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	2 to ALS
NE-ALS-ENQ					
Group: C	Bottle Type: P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	1
W-F-F W-PO4-F					
Group: C	Bottle Type: P-500ML	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab	1
W-ICP W-ICPMS					
Group: C	Bottle Type: P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
W-NH3 W-NO2NO3 W-S-A-TP					

Group: C Bottle Type: P-500ML # of Bottles: 1 Preservative: ICE And H2SO4 Enter Number of Bottles Sent to Lab

1

W-TKN

W-TOC