

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 #3

RQ:

2019-05-27-11

Project:

Algae Bloom Resp. LSVR coast

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.	J Parnish	5/30/19	725	24.2	760	8.4	8.4	100	—	—	P/F	L/F
ICV	J	↓	727	24.2	760	8.4	8.43	100.7	—	—	P/F	L/F
CCV	C Ruben	↓	1445	25.0	760	8.8	8.5	103	—	—	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 Parnish	5/30/19	730	120430A	5/20	1000	1000	P/F	L/F
ICV	J	5/30/19	731	147430	12/19	149	149	P/F	L/F
CCV	C Ruben	↓	1450	180919	2/2019	50,000	49720	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	5/30/19	735	2811E61	11/20	7.00	24.8	7.00	33.1	P/F	L/F
Calibr.	J	↓	736	21041300	3/21	4.00	24.8	4.00	1467	P/F	L/F
Calibr.	J	↓	738	2901B51	7/20	10.00	24.8	9.98	204.2	P/F	L/F
ICV	J	↓	741	2904B00	3/21	4.00	24.8	4.01	146	P/F	L/F
CCV	C Ruben	↓	1455	2811E61	11/20	7.0	24.6	6.95	-28.2	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	J Parnish	5/30/19	745	0.00	0.90	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:

CR 5/30/19



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?
Yes / No

January 2019

WIN Station Name: Doctors Lake @ Swimming Pen Mouth Date: 5/30/19
(mm/dd/yyyy)
WIN/ Field ID: _____ WBID: 2389 Latitude: 30.10699
(Decimal Degrees)
County: Clay ORG ID: 21FLA Longitude: -81.74957
(Decimal Degrees)
Receiving Body of Water: SFA RQ: 2019-05-06-31

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
C Ruben		X	X			
J Parrish			X	X	X	

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>meter</u>		
Equipment ID <u>Ortho #44</u>		

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

Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded		Meter ID# <u>YSI #3</u>		Matrix: <u>Fresh</u> / Marine / DI						
Photos: <u>Yes</u> / No		Flow: No Flow / Intestinal / <u>Flowing</u> / NA		Tide: Rising/ Falling/ Slack/ <u>NA</u>						
Tide Times: High _____ Low _____										
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTH)	Sp COND (umhos/cm)	Temp. (C°)
EST	<u>0850</u>	<u>1.965</u>	<u>0.3</u>	<u>0.4</u>	<u>8.68</u>	<u>115%</u>	<u>8.48</u>	<u>1.32</u>	<u>2569</u>	<u>29.2</u>
CEN										

Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:					
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	<u>SA9010030</u>	<u>6/1/20</u>	☒ <2
Metals	☐ W-ICPMS ☒ W-ICP <u>OR</u>	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	<u>R9BA86875</u>		
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / 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 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Notes:	Place Label Here
Signature: <u>[Signature]</u>	Date: <u>5/30/19</u>

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 <u>05/30/19</u> (Initials/Date)	Migrate Data to WIN: _____ (Initials/Date)
	Verify Data in WIN: _____ (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?

Yes / No

WIN Station Name: Doctors Lake Boy Scout Camp Date: 5/30/19
(mm/dd/yyyy)
WIN/ Field ID: _____ WBID: 2389 Latitude: 30.15094
(Decimal Degrees)
County: Clay ORG ID: 21FLA Longitude: -81.72446
(Decimal Degrees)
Receiving Body of Water: SFR RQ-2018- 05-06-31

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
C. Ruben					X		X		
J. Parrish						X	X	X	

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>meter</u>		
Equipment ID <u>Ortho #44</u>		
Collection Method		
☐ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☒ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded					Meter ID# <u>451 #3</u>			Matrix: <u>Fresh</u> / Marine/ DI		
Photos: Yes ☒ No ☐		Flow: No Flow / Intestinal / <u>Flowing</u> / <u>NA</u>		Tide: Rising/ Falling/ Slack/ <u>NA</u>		Tide Times: High _____ Low _____				
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)
EST	0915	1.14	0.3	0.7	7.36	98.9%	7.36	1.94	3722	29.8
CEN										

Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:									
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	4/20	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice	29BA86875		
Chlorophyll	☒ CHLSUITE-W					☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / 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 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD					☐ Ice			
Tracers	☐ W-E8321-DI ☐ W-E8321-MS					☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA					☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C					☐ Ice			

Notes:		Place Label Here	
Signature: <u>Chase R</u>		Date: <u>5/30/19</u>	

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 <u>CR 5/30/19</u> (Initials/Date)		Migrate Data to WIN: _____ (Initials/Date)	
		Verify Data In WIN: _____ (Initials/Date)	

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

Place Preserve (if

NEROC Algae Bloom Response-as needed

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WQAP

Requester: Jeremy M. Parrish

Field Report Prepared By: Jeremy Parrish

Project ID: BLOOM-RESP

Collected By:

Jeremy Parrish / Cheyenne Fisher

Sampling Agency:

FDEP 12 ROC

Location Doctors Lake @ Swimming Pen Mouth		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/30/19 Time 0850		☒ Eastern ☐ Central	Composite end Date — Time —		Bottle Group(s) (See pg 2)
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.68	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —		A, B, C, D
WIN/STORET #		Temp (C) 29.2	pH 8.48	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 2569		
Latitude 30.10699	☒ dd ☐ dms	Longitude -81.74957	☒ dd ☐ dms	Salinity (ppt) 1.32	Comments 115% DO, 1.965 Total depth, sechi = 0.4m			
Location Doctors Lake Boy Scout camp		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/30/19 Time 0915		☒ Eastern ☐ Central	Composite end Date — Time —		Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 7.36	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —		A, B, C, D
WIN/STORET #		Temp (C) 29.8	pH 7.76	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 3722		
Latitude 30.15094	☒ dd ☐ dms	Longitude -81.72446	☒ dd ☐ dms	Salinity (ppt) 1.94	Comments 98.9% DO, 1.14m Total depth, 0.7 sechi			
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			
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			

Requisitioned By: Jon Parr	Date/Time: 5/30/19 1500	Shipping Method: Fedex	Number of Coolers Shipped: 1	Received By:	Date/Time:
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Group: A	Bottle Type: BLOOM-ID	PT-50ML	# of Bottles: 8	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>2</u>
Group: B	Bottle Type: W-MCYST-AA	BG-250ML-WDMT H	# of Bottles: 8	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>2</u>
Group: C	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 8	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>2</u>
Group: C	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN	P-500ML	# of Bottles: 8	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab <u>2</u>
Group: C	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 8	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab <u>2</u>
Group: D	Bottle Type: DTY-QN-C PKD-QN-BV	BP-1L	# of Bottles: 8	Preservative: Lugols	Enter Number of Bottles Sent to Lab <u>2</u>