Algae bloom affected

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 50 Tch RQ- QA-2019-08-05-44 2019-08-05-44 Project: Status Snapshot

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 6/2019

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.	JPlumsh	10/1/19	730	22.8	758	8.6	8.6	99.7	—	—	P / F	L / F
ICV	"	"	732	"	758	8.6	8.6	99.7	—	—	P / F	L / F
CCV	JPurrish	10/1/19	1512	24.3	757	8.4	8.4	100.6	—	—	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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	JPlumsh	10/1/19	734	19071KB	7/20	1000	1000	P / F	L / F
ICV	"	"	736	19071A	7/20	100	104	P / F	L / F
CCV	JPlumsh	10/1/19	1515	147430	12/19	147	153	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.	JPlumsh	10/1/19	735	2902778	1/21	7.00	23.5	7.01	-7	P / F	L / F
Calibr.	"	"	735	2904B00	3/21	4.00	23.5	4.00	174.4	P / F	L / F
Calibr.	"	"	740	2816F55	4/20	10.00	23.6	10.02	-178.6	P / F	L / F
ICV	"	"	745	2904B00	3/21	4.0	23.6	4.02	170.6	P / F	L / F
CCV	JPlumsh	10/1/19	1518	2902778	1/21	7.0	23.5	7.17	-14.	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	JPlumsh	10/1/19	755	0.00	0.00	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:

Cyanobacteria Bloom Response Field Data Sheet

RQ-2019- 08-05-44		Collected By:	Jeremy Parrish
Customer		Field Report Prepared By:	Jeremy Parrish
Project ID:	Bloom Response	Sampling Agency:	FDEP DEARNED

WIN ID/Field ID: HABNE0002

Round Lake

Comments:

Collection Equipment:	Grab		
Matrix:	Surface Water (Grab)	Coordinates:	29.6251, -81.7007
Tide: ☐ Rising ☐ Falling ☐ Slack ☐ N/A		High Tide Time:	Low Tide Time:

Water Quality

Date	Time ☒ EST ☐ CEN	Sample Depth (m)	Total Depth (m)	Secchi (m)	Temp °C	pH (SU)	D.O. (mg/L)	D.O. (%)	Cond. (umho/cm)	Salinity (ppt)
10/1/19	1315	0.3	4.7	1.5	29.2	7.15	7.77	101.0	250	0.12

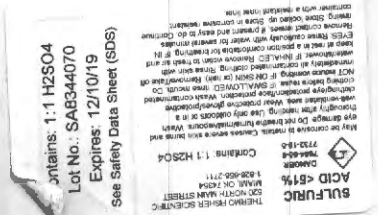
Bloom Observations

Algal Bloom Observed? ☒ Yes ☐ No

Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	☐ Other:
Water Clarity	☐ Clear	☐ Slightly Turbid	☒ Turbid	☐ Opaque	
Bloom Color	☒ Green	☐ Red	☐ Brown	☐ Other:	
Water Surface	☐ Clear	☐ Scum	☒ Globs	☐ Slick	

Parameter Suite	Parameter Methods	Preservation	pH Check	#Bottles Sent to Lab	Bottle Group
Bloom ID (PT-500mL)	☒ BLOOM-ID	☒ Ice		1	
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	
Toxins	☒ W-MCYST-AA	☒ Ice		1	
Preserved Nutrients (500mL HDPE)	W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☒ Ice ☒ H2SO4	☒ <2	1	
	Lot SA8344070 Exp: 12/10/19		☐ <2		
Filtered Nutrients (P125mL)	☒ W-PO4-F ☐ Field Filtered 0.45um Filter	☒ Ice		1	
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C	☐ Ice ☐ Lugols			

Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time
Brian Davis	10/1/19 1600	1		



Request Number: RQ-2019-08-05-44

Algae Bloom Response-as needed

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WQAP

Project ID: BLOOM-RESP

Requester: Jeremy M. Parrish

Collected By: B Davis, J Parrish

Field Report Prepared By: Brian Davis

Sampling Agency: DEAR NED

Location / Field ID / WIN: WIN ID/Field ID: HABNE0002 — Round Lake	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 10/1/19 Time 1315	(Eastern) Central	Composite end Date Time		Bottle Group(s) (See pg 2) A, B
	Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 7.77 ☑ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
	Temp (C) 29.2	pH 7.15	Sample Depth 0.3 ☐ ft ☑ m	Sp. Conductance (umho/cm) 250		
Latitude ☑ dd ☐ dms	Longitude ☑ dd ☐ dms	Salinity (ppt) 0.12	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			
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			

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
B D	10/1/19 1600	FedEx	1		

Group: A	Bottle Type: BLOOM-ID	PT-50ML	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-MCYST-AA	BG-250ML-WDMTH	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: B	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	1
Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 8	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1