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: 153484 **RQ-** 2022-04-25-45 **Project:** SMP/HAB

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 4.22

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Barometer mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	T. Fitzgerald	6-1-22	7:40	22.6	757.3	8.6	8.63	99.6	—	1.05	P / F	L / F
ICV	"	"	7:41	22.2	757.2	8.6	8.63	99.9	—	—	P / F	L / F
CCV	"	"	14:51	30.3	755.6	7.5	7.54	100.3	—	—	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.	T. Fitzgerald	6-1-22	7:43	2108170	8/22	1000	1000	P / F	L / F
ICV	"	"	7:44	2109K87	9/23	100	97.6	P / F	L / F
CCV	"	"	14:52	2108170	8/22	1000	1007	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.	T. Fitzgerald	6-1-22	7:45	201209F	6/22	7.01	22.5	7.01	-26.5	P / F	L / F
Calibr.	"	"	7:46	210513B	11/22	4.01	22.3	4.00	143.9	P / F	L / F
Calibr.	"	"	7:48	201209C	6/22	10.04	22.2	16.03	-182.5	P / F	L / F
ICV	"	"	7:54	"	"	10.04	22.2	9.96	-189.0	P / F	L / F
CCV	"	"	14:55	210513B	11/22	4.01	24.5	3.91	149.5	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 10 166.0, slope from 4 to 7 170.4 (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: 4-22
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	T. Fitzgerald	6-1-22	7:55	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:

Form effective August 1, 2018

Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ- 2021-10-04-67		Collected By:	~~Trey Fitzgerald~~, Paul Blair (TF)
Customer:		Field Report Prepared By:	Trey Fitzgerald
Project ID:	BLOOM-RESP	Sampling Agency:	8034

WIN ID / Field ID → TLHRHAB0013

KIT: Algal Bloom

Location

Lake Munson north lobe

Comments: Scum Sample Added

Coordinates:			
Collection Equip:			
High Tide Time:		Low Tide Time:	
Tide:	☐ Rising ☐ Falling ☐ Slack ☑ N/A		

WIN ID:	"		
Matrix:	Fresh	Grab	

Water Quality

Date	Time ☑ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTh)
06/01/2022	14:00	5.2	0.42	25.0	6.01	0.3	0.97	0.5	148.0	0.07

Bloom Observations

Algal Bloom Observed?	☑ Yes	☐ No			
Water Surface	☐ Clear	☑ Scum	☑ Globs	☐ Slick	
Water Clarity	☑ Clear	☐ Slightly Turbid	☐ Turbid	☐ Opaque	
Bloom Color	☑ Green	☐ Red	☑ Brown	☐ Other: _____	☐ N/A
Algae Distribution	☐ Suspended in water column		☑ On surface	☐ Other: _____	☐ N/A
Water Odors	☑ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	☐ Other: _____

Parameter Suite	Parameter Methods	Preservation	pH Check	#Bottles Sent to Lab	Bottle Group
Bloom ID (PT-50mL)	☑ BLOOM-ID	☑ Ice		1	~~B~~ A (TF)
Chlorophyll (BP-1L)	☑ CHLSUITE-W	☑ Ice		1	B
Toxins (BG-WD250)	☑ W-MCYST-AA	☑ Ice		1	B
Preserved Nutrients (500mL HDPE)	☑ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☑ Ice ☑ H2SO4	☑ <2	1	B
	Acid Lot: 1308030	Exp: 11/22			
Filtered Nutrients (P125mL)	☑ W-PO4-F	☑ Field Filtered 0.45um Filter; Filter Lot # 17162587 ☑ Ice		1	B
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C	☐ Ice Lugols? Y / N			

Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time
Trey Fitzgerald	06/1/22	1		

Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ-2021-10-04-67		Collected By:	Paul Blair
Customer:		Field Report Prepared By:	Trey Fitzgerald
Project ID:	BLOOM-RESP	Sampling Agency:	8034
Location:		Comments:	Scum Sample Added

WIN ID / Field ID → TLHRHAB0012

KIT: Algal Bloom

Location

Lake Munson Inlet

Coordinates:			
Collection Equip:			
High Tide Time:	—	Low Tide Time:	—
Tide:	☐ Rising ☐ Falling ☐ Slack ☑ N/A		

WIN ID:			
Matrix:	Fresh	Grab	

Water Quality

Date	Time ☑ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTh)
06/01/2022	13:30	0.37	4.5	24.9	6.43	0.3	1.16	0.5	158.2	0.07

Bloom Observations

Algal Bloom Observed?	☑ Yes	☐ No			
Water Surface	☐ Clear	☑ Scum	☑ Globs	☐ Slick	
Water Clarity	☑ Clear	☐ Slightly Turbid	☐ Turbid	☐ Opaque	
Bloom Color	☑ Green	☐ Red	☑ Brown	☐ Other: _____	☐ N/A
Algae Distribution	☐ Suspended in water column		☑ On surface	☐ Other: _____	☐ N/A
Water Odors	☑ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	☐ Other: _____

Parameter Suite	Parameter Methods	Preservation	pH Check	#Bottles Sent to Lab	Bottle Group
Bloom ID (PT-50mL)	☑ BLOOM-ID	☑ Ice		1	A
Chlorophyll (BP-1L)	☑ CHLSUITE-W	☑ Ice		1	B
Toxins (BG-WD250)	☑ W-MCYST-AA	☑ Ice		1	B
	☑ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☑ Ice ☑ H2SO4	☑ <2	1	B
Preserved Nutrients (500mL HDPE)	Acid Lot: 1308030	Exp: 11/22			
Filtered Nutrients (P125mL)	☑ W-PO4-F	☑ Field Filtered 0.45um Filter, Filter Lot #: 17162587 ☑ Ice		1	B
TF ~~Quantitative Algae~~	☑ DTY-QN-C / PKD-QN-C	☑ Ice Lugols? Y/N		1	N/A

Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time
Trey Fitzgerald	06/01/2022	1		

Request Number: RQ-2021-10-04-67

Algal Bloom Response - TLHROC

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WOAP

Requester: Michael Eckles

Field Report Prepared By:

Sampled By:

Sampling Agency:

WIN ID / Field ID → TLHRHAB0013

KIT: Algal Bloom

Location

Lake Munson north lobe

WIN/STORET #					
Latitude — ☐ dd ☐ dms	Longitude — ☐ dd ☐ dms	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 06/01/2022 Time 14:00 Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2) B
		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 5.2 ☐ mg/L ☑ % sat	Total Res. Chlorine (mg/L)	
		Temp (C) 25.0	pH 6.01	Sample Depth 0.3 ☐ ft ☑ m	Sp. Conductance (umho/cm) 148.0
		Salinity (ppt) 0.07	Comments Added Scum Sample		

WIN ID / Field ID → TLHRHAB0012

KIT: Algal Bloom

Location

Lake Munson Inlet

Latitude — ☐ dd ☐ dms	Longitude — ☐ dd ☐ dms	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 6/1/22 Time 13:30 Eastern Central	Composite end Date Time	Bottle Group(s) B
		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 0.37 ☐ mg/L ☑ % sat	Total Res. Chlorine (mg/L)	
		Temp (C) 24.9	pH 6.43	Sample Depth 0.3 ☐ ft ☑ m	Sp. Conductance (umho/cm) 158.2
		Salinity (ppt) 0.07	Comments Added Scum Sample		

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
				KK	6.1.22 / 1445

Group: A	Bottle Type:	PT-50ML	# of Bottles: 6	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	_____
	BLOOM-ID						
Group: B	Bottle Type:	BP-1L	# of Bottles: 6	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	_____
	CHLSUITE-W						
Group: B	Bottle Type:	BG-250ML-WDMTH	# of Bottles: 6	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	_____
	W-MCYST-AA						
Group: B	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4	**Enter Number of Bottles Sent to Lab**	_____
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN						
Group: B	Bottle Type:	P-125ML	# of Bottles: 6	Preservative:	FILTER-ICE	**Enter Number of Bottles Sent to Lab**	_____
	W-PO4-F						