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

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

RQ - 2020-02-03-33		**Collected By:**	Gary Shorek
Customer:	SODIST	**Field Report Prepared By:**	Miranda Carroll
Project ID:	Bloom Resp	**Sampling Agency:**	FDEP SROC
Location: Istokpoga Canal Boat Ramp		**Comments:** ~~* expired~~ MC	
Field ID: SD-HAB-072320-001		**Coordinates:**	27.4005, -81.1602
		Collection Equip:	Bottle
WIN ID:		**High Tide Time:**	**Low Tide Time:**
Matrix: Fresh (Grab)		**Tide:**	☐ Rising ☐ Falling ☐ Slack ☒ N/A

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)
7/23/20	1300	8.1	0.64	27.9	5.64	0.3	2.2	0.5	201.0	0.09
		4.6	~~4.6~~ MC 0.37	27.8	5.86	1.7	—		~~345.9~~ MC 354.0	0.17

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
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☒ Ice ☒ H2SO4	☒ <2	1	B
	Acid Lot: SA93540 50 ~~SA9203100~~ MC	Exp: 12/20/20 ~~7/22/20~~			
Filtered Nutrients (P125mL)	☒ W-PO4-F; ☒ Field Filtered 0.45um Filter; Filter Lot # 17D20459	☒ Ice		1	B
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C	☒ Ice	Lugols? (Y) / N	1	C

Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time
	7/23/20 1500	1		

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: SNEK RQ- 2020-07-20-25 Project: SMP

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 6/8/20

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.	Gary Snow	7/23/20	0752	20.9	758.7	8.90	8.92	100.1			(P) / F	(L) / F
ICV		7/23/20	0754	21.2	758.8	8.90	8.87	100.0			(P) / F	(L) / F
CCV	Miranda Carroll	"	1647	26.4	759.3	8.0	8.02	99.6			(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.	Gary Snow	7/23/20	0756	2006978	5/22	1000	1000	(P) / F	(L) / F
ICV		7/23/20	0759	1606706	5/22	100	104	(P) / F	(L) / F
CCV	Miranda Carroll	"	1648	2006978	5/22	1000	999	(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.	Gary Snow	7/23/20	0803	197048	01/21	7.00	24.1	7.01	-109.0	(P) / F	(L) / F
Calibr.	Gary Snow	7/23/20	0806	200052	2/22	4.00	24.1	4.00	44.7	(P) / F	(L) / F
Calibr.	Gary Snow	7/23/20	0808	197602	01/22	10.00	24.1	10.00	-273.6	(P) / F	(L) / F
ICV	Gary Snow	7/23/20	0810	200052	02/22	4.0	24.2	3.94		(P) / F	(L) / F
CCV	Miranda Carroll	"	1651	197602	1/22	10.03	23.4	10.15		(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: 3312B ; Date of last verification: 7/7/20

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						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: