

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Algal Bloom Response - as needed

last revised Jan 25, 2018

Customer: WQAP

Requester: Cheryl A. Swanson

Field Report Prepared By:

Project ID: BLOOM-RESP

Collected By: Matthew Bearden

Sampling Agency:

Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 7/30/19 Time 1010		Composite end Date		Bottle Group(s) (See pg 2)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.28		Total Res. Chlorine			
WIN/STORET #		Temp (C) 30.41		pH 8.08		Sample Depth 0.3		Sp. Conductance (umho/cm) 112	
Latitude		☐ dd ☐ dms		Salinity (ppt) 0.05		Comments		A	
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date		Composite end Date		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine			
WIN/STORET #		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)	
Latitude		☐ dd ☐ dms		Salinity (ppt)		Comments			
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date		Composite end Date		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine			
WIN/STORET #		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)	
Latitude		☐ dd ☐ dms		Salinity (ppt)		Comments			
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date		Composite end Date		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine			
WIN/STORET #		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)	
Latitude		☐ dd ☐ dms		Salinity (ppt)		Comments			
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date		Composite end Date		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine			
WIN/STORET #		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)	
Latitude		☐ dd ☐ dms		Salinity (ppt)		Comments			

Relinquished By: M. Bearden	Date/Time: 7/30/19 1530	Shipping Method: Fed Ex	Number of Coolers Shipped: 1	Received By:	Date/Time:
-----------------------------	-------------------------	-------------------------	------------------------------	--------------	------------

Group: A	Bottle Type: BLOOM-ID	PT-50ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: B	Bottle Type: CHLSUTE-W	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: B	Bottle Type: W-MCYST-AA	BG-250ML-WDMT H	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: B	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab _____
Group: C	Bottle Type: DTY-QN-C PKD-QN-C	BP-1L	# of Bottles: 2	Preservative:	Lugols	Enter Number of Bottles Sent to Lab _____

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:

Busta

RQ:

Project:

Bloom Response

- 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 5/14/19

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.	M. Bowden	7/30	0635	24.65	761.4	8.3	8.33	100.2	81.9	1.00	P/F	L/F
ICV	I	1	0637	24.63	761.4	8.3	8.32	98.7	80.8		P/F	L/F
CCV	F. Faria	1	1422	27.6	761.4	7.9	7.95	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 μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	MB	7/30	0648	284542	3/20	10000	10000	P/F	L/F
ICV	I	1	0656	290490	3/21	100	104	P/F	L/F
CCV	F. Faria	1	1424	2902878	02/21	500	510	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.	MB	7/30	0650	191304	3/21	7.00	24.35	7.00	-22.4	P/F	L/F
Calibr.	I	1	0652	191303	3/21	4.00	24.33	4.00	153.8	P/F	L/F
Calibr.	I	1	0654	187640	12/20	10.00	24.38	10.00	-200.6	P/F	L/F
ICV	I	1	0655	187680	12/20	10.00	24.32	9.99		P/F	L/F
CCV	F. Faria	1	1425	111304	3/21	7.00	24.4	7.00	-	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 10 178.2, slope from 4 to 7 176.2 (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						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:

