

Station ✓
62TLHR0050
DMT ✓
WIN ✓



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

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

RQ - 2020-07-20-44	Collected By: Paul Blair/Mike Eckles
Customer: 8034	Field Report Prepared By: Paul Blair
Project ID: Algal Bloom Response	Sampling Agency: 8034 TLHROC
Location: Merritts Mill Pond Southern End	Comments: Event Description Algal Bloom Response - 21FLTLHR
Field ID: HAB-081120-0002	Coordinates: 30.7591 / 85.1834
WIN ID: HAB-TLHR 00010002	Collection Equip: Sample Bottle
Matrix: Fresh	High Tide Time: N/A Low Tide Time:
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 (PPT)
8-11-20	10:30	137.9	10.73	28.4	7.63	0.3	1.7	1.7	248.5	0.12
"	10:35	142.3	11.02	28.4	7.65	1.2	1.7	1.7	247.5	0.12

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
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	A
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: 9354050	Exp: 12-20-20				
Filtered Nutrients (P125mL)	☒ W-PO4-F ☒ Field Filtered 0.45µm Filter	☒ Ice		1	B
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C	☒ Ice	Lugols? Y/N	1	C
Relinquished By: Blair/Eckles	Date/Time: 8-11-20	Number of Coolers Shipped: 1	Received By:	Date/Time: 8-11-20	

Bio - chl
chem - Nutrients Job 55,57

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WQAP

Project ID: BLOOM-RESP

Requester: Michael Eckles

Collected By:

Field Report Prepared By:

Sampling Agency:

Location	HAB-TLH-0002		Collection (comp begin or grab)		Comp	Grab	Date	Time	Composite end		Bottle Group(s)	
Field ID	Pecott Mill Paul Southern End		Matrix (type, e.g., Salt, Fresh, etc)		☒		8-11-20		10:30		A, B, C	
WIN/STORET #	HAB-TLH-0001-0002		Temp (C)		28.4		pH		7.63		Diss. Oxygen	
Latitude	dd dms		Salinity (ppt)		0.12		Sample Depth		0.3		Total Res. Chlorine	
Location			Matrix (type, e.g., Salt, Fresh, etc)		☐		Time		Date		Time	
Field ID			Temp (C)				pH				Diss. Oxygen	
WIN/STORET #			Salinity (ppt)				Sample Depth				Total Res. Chlorine	
Latitude	dd dms		Comments								mg/L Total Res. Chlorine	
Location			Matrix (type, e.g., Salt, Fresh, etc)		☐		Time		Date		Time	
Field ID			Temp (C)				pH				Diss. Oxygen	
WIN/STORET #			Salinity (ppt)				Sample Depth				Total Res. Chlorine	
Latitude	dd dms		Comments								mg/L Total Res. Chlorine	
Location			Matrix (type, e.g., Salt, Fresh, etc)		☐		Time		Date		Time	
Field ID			Temp (C)				pH				Diss. Oxygen	
WIN/STORET #			Salinity (ppt)				Sample Depth				Total Res. Chlorine	
Latitude	dd dms		Comments								mg/L Total Res. Chlorine	
Location			Matrix (type, e.g., Salt, Fresh, etc)		☐		Time		Date		Time	
Field ID			Temp (C)				pH				Diss. Oxygen	
WIN/STORET #			Salinity (ppt)				Sample Depth				Total Res. Chlorine	
Latitude	dd dms		Comments								mg/L Total Res. Chlorine	
Location			Matrix (type, e.g., Salt, Fresh, etc)		☐		Time		Date		Time	
Field ID			Temp (C)				pH				Diss. Oxygen	
WIN/STORET #			Salinity (ppt)				Sample Depth				Total Res. Chlorine	
Latitude	dd dms		Comments								mg/L Total Res. Chlorine	
Location			Matrix (type, e.g., Salt, Fresh, etc)		☐		Time		Date		Time	
Field ID			Temp (C)				pH				Diss. Oxygen	
WIN/STORET #			Salinity (ppt)				Sample Depth				Total Res. Chlorine	
Latitude	dd dms		Comments								mg/L Total Res. Chlorine	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Blais/Eckles	8-11-20 12:44	HD		ARB	8-11-20 12:44

1800.
1800.

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:

154177

RQ:

2020-07-20-24

Project:

Algal 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

7-20

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.	Paul Blair	8-11-20	7:50	22.4	757.4	8.65	8.68	100.2		1.06	P/F	L/F
ICV	"	"	7:52	22.4	757.3	8.64	8.69	100.3		"	P/F	L/F
CCV	"	12:50	8-11-20	22.0	757.2	8.65	8.70	100.7		"	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.	Paul Blair	8-11-20	8:01	200407D	4-21	1000	1000	P/F	L/F
ICV	"	8-11-20	8:02	2905F63	5-21	100	101.0	P/F	L/F
CCV	"	"	12:52	200407D	4-21	1000	997	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.	Paul Blair	8-11-20	8:06	200407C	10-21	7.01	22.6	7.01	85.9	P/F	L/F
Calibr.	"	"	8:09	191120B	6-21	4.01	22.7	4.00	78.4	P/F	L/F
Calibr.	"	"	8:11	190405D	10-20	10.03	22.9	10.02	-246.9	P/F	L/F
ICV	"	"	8:14	"	"	10.03	23.0	10.01	-246.9	P/F	L/F
CCV	"	"	13:00	191120B	6-21	4.01	22.8	4.11	78.9	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 10 161.0, slope from 4 to 7 164.3 (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: 7-20

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	Paul Blair	8-11-20	8:25	0.00	0.00	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:

