CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET

(7-6-06 V2)

WATERBODY NAME:	DATE (M/D/YY):	TIME: (AM) (PM)	Case ID#:
HICKEYS CREEK	9/9/19	1010	SD09092019-001

LOCATION:	COUNTY:	NEAREST TOWN/CITY:
HICKEYS CREEK @ 80	~~HEN~~ LEE	AVA

Visit Type: Initial [X], Recon [X], Sampling [X], Follow-up [ ]

Samples collected: [X] yes [ ] no

Samples submitted to: FDEP LAB

Photos Taken: [X] yes [ ] no

Sample collection method: Single Grab: [X] Grab Composite: [ ] Depth integrated composite: [ ]

Sample & Analysis types: Aqueous: [X] Surface Scum: [ ] Benthic mat: [ ] Tissue: [ ]

Algal ID & enumeration: [X] Nutrients: [X] Chl-a: [X] AGP: [X] Turbidity: [X] Toxin: [X] MICROCYSTIN (Specify)

Estimated size of bloom: N/A

Impounded: [X] yes [ ] no

Lake/Estuary Typical depth: ____ m deep

Inflows: [ ] yes [ ] no

Outflows: [ ] yes [ ] no

Stream/River/Canal: 18 m wide

Typical Transect: 1 m deep | 2 m deep | 1 m deep

Water velocity: 0.2 m/s (Left bank) | 0.2 m/s (Middle) | 0.2 m/s (Right bank)

Canopy Cover: Open : [ ] Lightly Shaded (11-45%): [X] Moderately Shaded (46-80%): [ ] Heavily Shaded: [ ]

Description of Bloom/ Present Weather conditions

NO APPARENT BLOOM AT TIME OF VISIT.

Latitude: 26° 42' 53.202" (Degrees Minutes Seconds)

Longitude: -81° 40' 21.203" (Degrees Minutes Seconds)

Last rain event: ____

Rainfall amount: ____

Print a map from GIS tool or Internet mapping service (e.g., Mapquest, Google Map)

Sketch bloom area on the attached map. Indicate wind direction.

WATER QUALITY	Depth (m):	Temp. (°C) :	pH (SU) :	D.O. (mg/l) :	Cond. (µmho/cm) or Salinity (ppt):	D.O. %	TD (m)	Secchi (m)
Top	0.3	30.5	7.52	5.34	635	71.3	1.3 m	1.3 "S"
Mid-depth								
Bottom								

SAL (PPT) 0.3

System Type: Stream: [X] (1st - 2nd order, 3rd - 4th order, 5th - 6th order, 7th order or greater) Lake: [ ] Wetland: [ ] Estuary: [ ] Other: [ ]

Water Odors (check box) : Normal: [X] Sewage: [ ] Petroleum: [ ] Chemical: [ ] Other: [ ]

Water Surface (check box): Clear: [X] Scum: [ ] Globs: [ ] Slick: [ ]

Water Clarity (check box): Clear: [ ] Slightly [X] Turbid: [ ] Opaque: [ ]

Bloom Color (check box): Green: [ ] Red: [ ] Brown: [ ] Other: [ ] N/A

Notes

Abundance:	Absent	Rare	Common	Abundant
Periphyton	[X]	[ ]	[ ]	[ ]
Fish	[ ]	[ ]	[X]	[ ]
Aquatic Macrophytes	[ ]	[ ]	[X]	[ ]
Iron/sulfur Bacteria	[X]	[ ]	[ ]	[ ]

VISIT TEAM:

	AGENCY:
JOHN BARRINGTON	CHAST COUNTY FDEP SOURCE

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: Pro Move RQ- Algae / L-2202 Project: Trend SOGT ST909

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 6/18/19

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.	Chase Conley	9/9/19	0740	25.5	757.4	8.2	8.17	99.7	—	1.03	(P) / F	(L) F
ICV	Chase Conley	9/9/19	0742	25.4	757.3	8.2	8.18	99.6	—	—	(P) F	(L) F
CCV	Barrington	9/9/19	1225	25.8	758	8.1	7.87	96.8	—	—	(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.	Chase Conley	9/9/19	0745	2907F48	7/21	500	502	(P) / F	(L) F
ICV	Chase Conley	9/9/19	0747	2904D82	4/21	100	99	(P) / F	(L) F
CCV	Barrington	9/9/19	1227	2909D40	7/21	1000	1001	(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.	Chase Conley	9/9/19	0750	191304	3/21	7.0	26.7	7.0	-64	(P) F	(L) F
Calibr.	Chase Conley	9/9/19	0752	191303	3/21	4.01	25.9	4.0	111.5	(P) F	(L) F
Calibr.	Chase Conley	9/9/19	0755	191735	4/21	10.03	25.9	9.99	-145	(P) F	(L) F
ICV	Chase Conley	9/9/19	0758	191303	3/21	4.01	25.9	4.0	—	(P) F	(L) F
CCV	Barrington	9/9/19	1230	191735	4/21	10.02	24.1	10.14	—	(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 10 181, slope from 4 to 7 175.5 (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: Deep Blue ; Date of last verification: 6/18/19

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: