CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET (7-6-06 V2)

WATERBODY	DATE (M/D/YY):	TIME: (AM)	Case ID#:
Caloosahatchee River	05/09/19	1325	SD 050919-003

COUNTY:	LOCATION:	NEAREST TOWN/CITY:
Lee	Boat House at SR 31	Fort Myers

Visit Type: Initial ☐ Recon ☐ Sampling ☒ Follow- ☐

Samples collected: ☒ yes ☐ no

Samples submitted to: FDEP-Tallahassee

Photos Taken: ☒ yes ☐ no

Sample collection method: Single Grab: ☒ Grab Composite: ☐ Depth integrated composite: ☐

Sample & Analysis types: Aqueous: ☒ Surface Scum: ☐ Benthic mat: ☐ Tissue: ☐

Algal ID & enumeration: ☒ Nutrients: ☒ Chl-a: ☒ AGPT: ☒ Turbidity: ☒ Toxin: ☒ Specify

Estimated size of bloom:

Impounded: ☐ yes ☐ no

Lake/Estuary Typical depth: m deep

Inflows: ☐ yes ☐ no

Outflows: ☐ yes ☐ no

Stream/River/Canal: m wide

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

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

Canopy Cover: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐

Description of Bloom/ Present Weather conditions

Latitude (Degrees / Minutes / Seconds): 26.7157689

Longitude (Degrees / Minutes / Seconds): -81.7611980

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.

Last rain event

Rainfall amount

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	DO%	Sal. (ppt)	Secchi (m)
Top	0.3	29.4	8.28	8.46	1573	111.0	0.78	1.1
Mid-depth							9	
Bottom	1.5	28.8	8.27	8.56	1589	111.4	0.79	

System Type: Stream: ☒ (1st - 2nd order / 3rd - 4th order / 5th - 6th order / 7th order or greater) Lake: ☐ Wetland: ☐ Estuary: ☐ Other: ☐

Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐

Water Surface (check box): Clear: ☒ Scum: ☐ Globs: ☐ Slick: ☐

Water Clarity (check box): Clear: ☒ Slightly turbid: ☐ Turbid: ☐ Opaque: ☐

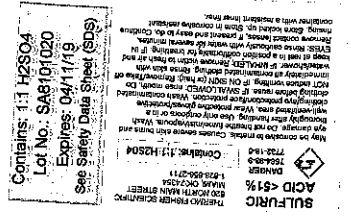
Bloom Color (check box): Green: ☒ Red: ☐ Brown: ☐ Other: ☐

Notes: small particulates floating in water column, small oil slick from boats

Abundance:	Absent	Rare	Common	Abundant
Periphyton	☒	☐	☐	☐
Fish	☐	☐	☒	☐
Aquatic Macrophytes	☐	☐	☒	☐
Iron/sulfur Bacteria	☒	☐	☐	☐

VISIT TEAM: Nicole Reistad — AGENCY: FDEP-SOROC

Gary Snorek



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 Plus RQ- Project: Mgore

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 03/19/19

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.	Tracy Smead	5/9/19	1206	27.9	760	7.84	7.94	99.3		1.02	P / F	L / F
ICV	"	"	1208	27.6	760	7.88	7.83	99.2			P / F	L / F
CCV	N. Reistad	05/09/19	1444	26.5	753.8	7.99	7.98	99.3			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.	Tracy Smead	5/9/19	1150	2904947	03/21	1000	1002	P / F	L / F
ICV	"	"	1155	2904982	4/21	100	99.2	P / F	L / F
CCV	N. Reistad	05/09/19	1451	28C9D50	09/20	10,000	9639	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.	Tracy Smead	5/9/19	1160	187681	11/20	7.00	24.8	7.00	-36.5	P / F	L / F
Calibr.	"	"	1159	190072	01/21	4.00	29.6	4.01	141.7	P / F	L / F
Calibr.	"	"	1202	187680	12/20	10.00	24.6	10.00	10.2	P / F	L / F
ICV	"	"	1205	190072	01/21	4.00	25.2	3.98		P / F	L / F
CCV	N. Reistad	05/09/19	1453	187680	12/20	10.03	25.1	10.12		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: Deep Blue ; Date of last verification: 12/26/18

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: