

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET

(7-6-05 V2)

WATERBODY NAME: <u>Caloosahatchee River</u>		DATE (M/D/Y): <u>05/15/19</u>	TIME: (AM) (PM) <u>1120</u>	Case ID#: <u>SD051519-001</u>
COUNTY: <u>Lee</u>		LOCATION: <u>E North Shore Dr. at Point</u>		NEAREST TOWN/CITY: <u>North Fort Myers</u>
Visit Type: Initial ☐ Recon ☒ Sampling ☒ Follow-up ☐	Samples collected: ☒ yes ☐ no	Samples submitted to: <u>FDEP-Tallahassee</u>		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: ☒ AGP: ☒ Turbidity: ☒ Toxin: ☒		Specify		
Estimated size of bloom: Impounded: ☐ yes ☐ no		Stream/River/Canal ☐ m wide		
Lake/Estuary Typical depth Inflows: ☐ yes ☐ no Outflows: ☐ yes ☐ no		Typical Transect m deep m deep m deep Water velocity m/s m/s m/s Left bank Middle Right bank		

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

Description of Bloom: Latitude Degrees Minutes Seconds Longitude Degrees Minutes Seconds

Present Weather conditions

26.6704682-81.8707167Last rain event 05/15/19

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

Rainfall amount

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):	DO%	Sal(ppt)	Secchi (m)
Top	<u>0.3</u>	<u>27.5</u>	<u>7.84</u>	<u>5.35</u>	<u>7804</u>	<u>69.4</u>	<u>4.30</u>	<u>0.8</u>
Mid-depth								
Bottom	<u>0.8</u>							
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: ☐	Opaque: ☐			
Bloom Color (check box):		Green: ☐	Red: ☐	Brown: ☐	Other: ☐			
Notes: Contains: 11 H2SO4 Lot No.: SA8344070 Expires: 12/10/19 See Safety Data Sheet (SDS)		no visible algae in water column or on surface.			Abundance: Periphyton ☒ Absent ☐ Rare ☐ Common ☐ Abundant ☐ Fish ☐ Aquatic Macrophytes ☐ Iron/sulfur Bacteria ☒			

VISIT

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Nicole Reistad

AGENCY:

FDEP-SOROCMaryann Dugan

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: Project: CCHMMN/Algae

- 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.	M. DUGAN	05/15/19	0710	24.8	754.2	8.24	8.23	99.2			P/F	L/F
ICV	"	"	0712	24.7	754.2	8.25	8.25	99.3		1.175V	P/F	L/F
CCV	N. Reistad	05/15/19	1558	25.5	753.9	8.13	8.13	99.1			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.	M. DUGAN	05/15/19	0705	2904947	03/21	1000	1000	P/F	L/F
ICV	"	"	0707	281260	11/20	50,000	49,520	P/F	L/F
CCV	N. Reistad	05/15/19	1606	2904D82	04/21	100	NR 99.99	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.	M. DUGAN	05/15/19	0714	187681	11/20	7.	24.6	7.00	-16.0	P/F	L/F
Calibr.	"	"	0717	190072	01/21	4.	24.6	4.01	162.1	P/F	L/F
Calibr.	"	"	0719	187680	12/20	10.	24.7	10.01	-193.3	P/F	L/F
ICV	"	"	0721	187680	12/20	10.	24.7	10.00		P/F	L/F
CCV	N. Reistad	05/15/19	1609	187681	11/20	6.997	25.0	7.09		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 10 177.3, slope from 4 to 7 178.1 (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: 33128; 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 $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: