

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET

(7-6-06 V2)

WATERBODY NAME: MOORINGS BAY		DATE (M/D/Y): 02/11/2019	TIME (AM) (PM): 1335	Case ID#: SD 02112019-001
COUNTY: COLLIER	LOCATION: PARK SHORE LANDINGS CONDO 26.1977443 -81.8090564	NEAREST TOWN/CITY: NAPLES		

THE BUREAU OF SCIENCE
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MIAMI, FL 33136
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E-MAIL: info@bosc.state.fl.us
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Contains: 1:1 H2S04
Lot No.: SA8274060
Expires: 10/01/19
See Safety Data Sheet (SDS)

Visit Type: Initial ☒ Recon ☒ Sampling ☒ Follow-up ☐	Samples collected: ☒ yes ☐ no	Samples submitted to: FDEP - TAMAHANSEE	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: ☒			
Estimated size of bloom: Impounded: ☐ yes ☐ no		Stream/River/Canal m wide	
Lake/Estuary Typical depth Inflows: ☒ yes ☐ no		Typical Transient m deep	
Outflows: ☒ yes ☐ no		Water velocity m/s	
		Left bank Middle Right bank	

Canopy Cover: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐
Description of Bloom/ PARTLY cloudy
Latitude: 26 Degrees 11 Minutes 51.9 Seconds Longitude: 81 Degrees 48 Minutes 32.6 Seconds
Present Weather conditions PARTLY cloudy
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):	D.O. %	Secchi (m)
Top	0.3	22.2	7.83	8.80	50.600	12.2	1.2 S
Mid-depth	0.7	21.8	7.90	8.92	50.624	12.3	
Bottom	1.2						
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: ☒ DECOMPOSITION							
Water Surface (check box): Clear: ☐ Scum: ☐ Globes: ☐ Slick: ☒							
Water Clarity (check box): Clear: ☒ Slightly: ☐ Turbid: ☐ Opaque: ☐							
Bloom Color (check box): Green: ☒ Red: ☐ Brown: ☐ Other: ☐							
Notes				Abundance:			
				Absent Rare Common Abundant			
				Periphyton ☒ ☐ ☐ ☐			
				Fish ☐ ☐ ☒ ☐			
				Aquatic Macrophytes ☒ ☐ ☐ ☐			
				Iron/sulfur Bacteria ☒ ☐ ☐ ☐			

VISIT TEAM

AGENCY

FDEP - SROL

MARYANN DUGAN, NICOLE REISTAD,
RHONDA WATKINS, KATIE LAACKONEN (COLLIER CO.)

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: 185 SNEK

RQ:

Project: ALGAL BLOOM

- 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 12/26/2018

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	02/11/19	1140	26.2	764.5	8.14	8.14	100.6		102431	P / F	L / F
ICV	"	"	1141	26.1	764.5	8.15	8.16	100.7			P / F	L / F
CCV	N. Reistad	02/11/19	1616	25.0	764.5	8.32	8.27	100.2			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.	M. DUGAN	02/11/19	1134	2810027	10/20	1000	1000	P / F	L / F
ICV	"	"	1136	2809050	09/20	10,000	19216	P / F	L / F
CCV	N. Reistad	02/11/19	1557	2711027	11/19	50,000	49887	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	02/11/19	1142	185764	08/20	6.994	25.6	7.00	-6.9	P / F	L / F
Calibr.	"	"	1144	185488	08/20	4.011	25.6	4.01	169.4	P / F	L / F
Calibr.	"	"	1146	185490	09/20	10.003	25.6	10.00	184.5	P / F	L / F
ICV	"	"	1148	185490	09/20	10.013	25.4	9.99		P / F	L / F
CCV	N. Reistad	02/11/19	1600	185764	08/20	6.994	25.5	7.02		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 10 177.6, slope from 4 to 7 176.3 (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: 12/26/18

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: 3312B; 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: