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Site Name: Harbor Isle Follow-Up Algal Bloom Response

AB-17-1.7

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET

(7-6-06 V2)

WATERBODY <i>Harbor Isle LAKE</i>		DATE (M/D/Y): <i>2/18/19</i>	TIME: (AM) <i>1105</i>	Case ID#:
COUNTY: <i>Pinellas</i>	LOCATION: <i>NORTH WEST</i> <i>Southern West lobe of lake</i>		NEAREST TOWN/CITY: <i>St. Petersburg</i>	
Visit Type: Initial ☐ Recon ☐ Sampling ☐ Follow-up ☒	Samples collected: ☒ yes ☐ no	Samples submitted to: <i>FDEP Central lab</i>	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: <i>50-75% of lake</i>		Impounded: ☒ yes ☐ no	Stream/River/Canal m wide	
Lake/Estuary Typical depth m deep	Inflows: ☐ yes ☒ no	Typical Transect m deep m deep m deep		
Outflows: ☐ yes ☒ no	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 <i>Cloudy, UPPER 70's, SLIGHT S, SE WIND</i>				
Print a map from GIS tool or Internet mapping service (e.g., Mapquest, Google Map)			Last rain event	
Sketch bloom area on the attached map. Indicate wind direction.			Rainfall amount	

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	DO %	SAL	Secch(m)
Top	<i>0.3</i>	<i>23.3</i>	<i>8.73</i>	<i>9.87</i>	<i>4665</i>	<i>117.5%</i>	<i>249</i>	
Mid-depth								
Bottom								

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: ☐ Globbs: ☐ Slick: ☒	
Water Clarity (check box): Clear: ☐ Slightly turbid: ☒ 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:

Matthew Bearden *SW ROC - FDEP*
Hannah SPRINKLE

**Florida Department of Environmental Protection
Central Laboratory Submittal Form**

Request Number: RQ-2019-02-18-65

Algal Bloom Response - Harbor Isle

Customer: SW-DIST

Project ID: BLOOM-RESP

Requester: Matthew Bearden

Collected By: *M. Borden*

Field Report Prepared By:

Sampling Agency:

[illegible]

Relinquished By: 11 B 200001	Date/Time 2/18/19 @ 1300	Shipping Method FedEx	Number of Coolers Shipped: 1	Received By:	Date/Time
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Ref: Dep:

Date: 24Jan19
Wot: 5.00 LBS

SHIPPING:	0.00
SPECIAL:	0.00
HANDLING:	0.00
TOTAL:	0.00

DV:
SVCS: PRIORITY OVERNIGHT
TRCK: 4751 8776 0318

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: Chewy

RQ- 2019-02-18-65

Project: BLOOM RESP

- 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 02/14/2019

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.	H-Sprinkle	02/18	0715	24.0	760.1	8.42	8.42	100.2	—	1.002	Ⓟ/F	Ⓟ/F
ICV			0717	24.1	760.0	8.42	8.43	100.4	—	—	Ⓟ/F	Ⓟ/F
CCV			1250	24.4	760.2	8.36	8.39	100.6	—	—	Ⓟ/F	Ⓟ/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.	H-Sprinkle	02/18	0722	2811E59	11/20	1000	1000	Ⓟ/F	Ⓟ/F
ICV			0725	2810946	09/20	100	99.4	Ⓟ/F	Ⓟ/F
CCV			1256	2810D03	10/20	5000	4990	Ⓟ/F	Ⓟ/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.	H-Sprinkle	02/18	0728	186588	10/20	7.01	23.8	7.01	-36.1	Ⓟ/F	Ⓟ/F
Calibr.			0730	184124	07/20	4.00	23.8	4.00	136.8	Ⓟ/F	Ⓟ/F
Calibr.			0732	183381	05/20	10.01	23.8	10.01	-213.6	Ⓟ/F	Ⓟ/F
ICV			0734			10.02	23.8	10.01	-214.1	Ⓟ/F	Ⓟ/F
CCV			1300	186588	10/20	7.00	23.8	7.03	-42.4	Ⓟ/F	Ⓟ/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

If mV are recorded: slope from 7 to 10 177.6, slope from 4 to 7 172.9 (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: 02/14/2019

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	H-Sprinkle	02/18	0713	0.000	0.000	Ⓟ/F	Ⓟ/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: