

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET

(7-6-06 v2)

WATERBODY NAME: <i>Indian Creek</i>		DATE (MM/YY): <i>5/6/19</i>	TIME (AM) (PM): <i>0925</i>	Case ID#: <i>SD-604 05062019-001</i>																												
COUNTY: <i>Lee County</i>	LOCATION: <i>Riverbend Community</i>	NEAREST TOWN/CITY: <i>N. Ft. Myers</i>																														
Visit Type: Initial ☒ Recon ☒ Sampling Follow-up ☒	Samples collected: ☒ yes ☐ no	Samples submitted to: <i>FLDIEP LAB</i>		Photos Taken: ☒ yes ☐ no																												
Sample & Analysis types: Aqueous: ☐ Surface Scum: ☐ Benthic mat: ☐ Tissue: ☐ Algal ID & enumeration: ☒ Nutrients: ☒ Chl-a: ☒ AGP: ☒ Turbidity: ☒ Toxin: ☒ <i>11/9-87</i>																																
Estimated size of bloom: <i>N/A</i> Lake/Estuary Typical depth: ☒ Impounded: ☐ yes ☒ no Inflows: ☒ yes ☐ no Outflows: ☒ yes ☐ no Stream/River/Canal: ☐ <i>S</i> m wide ☐ <i>5</i> m deep Traditional Transsect: ☐ <i>0.2</i> m deep ☐ <i>1.0</i> m deep ☐ <i>0.2m</i> 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: <i>26</i> Degrees <i>40</i> Minutes <i>58.602</i> Longitude: <i>-81</i> Degrees <i>51</i> Minutes <i>16.378</i> Present Weather conditions:																																
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.																																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>WATER QUALITY</th> <th>Depth (m):</th> <th>Temp. (C):</th> <th>pH (SU):</th> <th>D.O. (mM):</th> <th>Cond. (µmho/cm) or Salinity (ppt):</th> <th>Secchi (m):</th> </tr> </thead> <tbody> <tr> <td>Top</td> <td><i>0.3</i></td> <td><i>27.8</i></td> <td><i>7.29</i></td> <td><i>4.37</i></td> <td><i>6401</i></td> <td><i>56.6</i></td> </tr> <tr> <td>Mid-depth</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>3.46</i></td> </tr> <tr> <td>Bottom</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>1.0</i></td> </tr> </tbody> </table>					WATER QUALITY	Depth (m):	Temp. (C):	pH (SU):	D.O. (mM):	Cond. (µmho/cm) or Salinity (ppt):	Secchi (m):	Top	<i>0.3</i>	<i>27.8</i>	<i>7.29</i>	<i>4.37</i>	<i>6401</i>	<i>56.6</i>	Mid-depth						<i>3.46</i>	Bottom						<i>1.0</i>
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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: ☐ Opaque: ☐ Bloom Color (check box): Green: ☐ Red: ☐ Brown: ☐ Other: ☒ <i>None</i>																																
Notes: <i>No Algal Bloom present, area is tidally influenced</i> Abundance: ☐ Abundant ☐ Common ☐ Rare ☐ Absent ☒ Periphyton: ☐ Fish: ☐ Aquatic Macrophytes: ☒ Iron/sulfur Bacteria: ☒																																

VISIT TEAM

Chase (w/ly), John Baur (ph)

[Signature]

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Alger

Boldly "X" this box if there are qualified data on this page.

Meter ID: Pro Move

RQ: 2019

Project: ZSCB1904

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

8/19/19

DO	Name	Date	Time	Temp	Baro-	D.O.	Meter	% DO	Probe	Probe	Pass	Lab
DEP SOP			GT-ET	°C	meter	Chart	D.O.		Charge	Gain	/	/
FT 1500				mmHg	mg/L	mg/L					Fail	Field
Calibr.	<u>Barometer</u>	<u>3/6/19</u>	<u>0707</u>	<u>27.1</u>	<u>753.8</u>	<u>790</u>	<u>7.87</u>	<u>99.2</u>	<u>—</u>	<u>1.045</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>↓</u>	<u>↓</u>	<u>0710</u>	<u>27.0</u>	<u>753.8</u>	<u>7.91</u>	<u>7.85</u>	<u>99.9</u>	<u>—</u>	<u>—</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>Chase Conley</u>	<u>5/6/19</u>	<u>1606</u>	<u>27.2</u>	<u>755.0</u>	<u>7.90</u>	<u>9.10</u>	<u>101.8</u>	<u>—</u>	<u>—</u>	<u>P/F</u>	<u>L/F</u>
CCV												

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.	Name	Date	Time	Lot #	Expir.	Standard	Meter	Pass	Lab
Cond.			GT-ET		Date	µmhos/cm	µmhos/cm	/	/
FT 1200								Fail	Field
Calibr.	<u>Barometer</u>	<u>5/6/19</u>	<u>0713</u>	<u>290497</u>	<u>3/21</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>↓</u>	<u>↓</u>	<u>0716</u>	<u>2812465</u>	<u>12/20</u>	<u>100</u>	<u>101.3</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>Chase Conley</u>	<u>5/6/19</u>	<u>1600</u>	<u>2809050</u>	<u>9/20</u>	<u>10000</u>	<u>9869</u>	<u>P/F</u>	<u>L/F</u>
CCV									

Conductivity Acceptance criteria ± 5%

pH	Name	Date	Time	Lot #	Expir.	pH	Temp	Meter	mV	Pass	Lab
DEP SOP			GT-ET		Date	Buffer	°C	reading	SU	/	/
FT 1100						SU				Fail	Field
Calibr.	<u>Barometer</u>	<u>5/6/19</u>	<u>0707</u>	<u>187681</u>	<u>11/20</u>	<u>6.99</u>	<u>27.0</u>	<u>7.00</u>	<u>-45.6</u>	<u>P/F</u>	<u>L/F</u>
Calibr.			<u>0722</u>	<u>190072</u>	<u>10/21</u>	<u>4.01</u>	<u>27.3</u>	<u>4.01</u>	<u>133.5</u>	<u>P/F</u>	<u>L/F</u>
Calibr.			<u>0725</u>	<u>187680</u>	<u>12/20</u>	<u>9.99</u>	<u>27.0</u>	<u>9.98</u>	<u>-224.1</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>↓</u>	<u>↓</u>	<u>0728</u>	<u>190072</u>	<u>01/21</u>	<u>4.4</u>	<u>27.2</u>	<u>3.95</u>	<u>—</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>Chase Conley</u>	<u>5/6/19</u>	<u>1603</u>	<u>187680</u>	<u>12/20</u>	<u>9.99</u>	<u>9.88</u>	<u>9.88</u>	<u>—</u>	<u>P/F</u>	<u>L/F</u>
CCV							<u>24.9</u>				

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 11.9, slope from 4 to 7 17.9, (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: 12/26/18

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: DEB BLUE; Date of last verification: 12/26/18

Depth Sensor	Name	Date	Time	Calibrated	ICV Value	Pass	Lab
(Daily Calibration & ICV)			GT-ET	Value (0.00 or Offset), meters	meters	Fail	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: