

Revision Date: 08/04/2014

RQ-2018-09-17-95

Date: 09/17/2018

Time:

Lake Mattie

Bloom Response



MATTIE BLOOM

RESPONSE FIELD DATA SHEET

(7-6-06 V2)

 MATTIE BLOOM		DATE (M/D/YY):		TIME: (AM)		Case ID#																														
		9/17/18		0906																																
COUNTY:			LOCATION:			NEAREST TOWN/CITY:																														
POLK			LAKE MATTIE			AUBURNDALE																														
Visit Type:		Samples collected:		Samples submitted to:		Photos Taken:																														
Initial ☐		☒ yes ☐ no		FDEP LAB		☒ yes ☐ no																														
Recon ☐		Sample collection method:																																		
Sampling ☐		Single Grab: ☒ Grab Composite: ☐ Depth integrated composite: ☐																																		
Follow-up ☒																																				
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		Specify																														
LAKE WIDE																																				
Lake/Estuary Typical depth		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		Longitude																																
		Degrees Minutes Seconds		Degrees Minutes Seconds																																
Present Weather conditions		28.138504		-81.791659																																
80's, LIGHT CLOUDS																																				
BLOOM THROUGH OUT LAKE																																				
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. W, NW WIND						Rainfall amount																														
<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. (mg/l):</th> <th>Cond. (µmho/cm) or Salinity (ppt):</th> <th>Secch(m)</th> </tr> </thead> <tbody> <tr> <td>Top</td> <td>2.3</td> <td>29.55</td> <td>8.03</td> <td>6.87</td> <td>198</td> <td>89.9</td> </tr> <tr> <td>Mid-depth</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bottom</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.3</td> </tr> </tbody> </table>									WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	Secch(m)	Top	2.3	29.55	8.03	6.87	198	89.9	Mid-depth							Bottom						0.3
WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	Secch(m)																														
Top	2.3	29.55	8.03	6.87	198	89.9																														
Mid-depth																																				
Bottom						0.3																														
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					<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Abundance:</th> <th>Absent</th> <th>Rare</th> <th>Common</th> <th>Abundant</th> </tr> </thead> <tbody> <tr> <td>Periphyton</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Fish</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Aquatic Macrophytes</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Iron/sulfur Bacteria</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </tbody> </table>				Abundance:	Absent	Rare	Common	Abundant	Periphyton	☐	☐	☐	☐	Fish	☐	☐	☐	☐	Aquatic Macrophytes	☐	☐	☐	☐	Iron/sulfur Bacteria	☐	☐	☐	☐			
Abundance:	Absent	Rare	Common	Abundant																																
Periphyton	☐	☐	☐	☐																																
Fish	☐	☐	☐	☐																																
Aquatic Macrophytes	☐	☐	☐	☐																																
Iron/sulfur Bacteria	☐	☐	☐	☐																																

VISIT TEAM:

FDEP SW ROC

AGENCY:

Contains: 1:1 Sulfuric Acid
Lot No.: SA7275010
Expires: 10/02/18
See Safety Data Sheet (SDS)

Central Laboratory Submittal Form

Field Report Prepared By: *M. Zelnick*

Sampling Agency: SUD ROR

[illegible]

Group: A Bottle Type: PT-50ML # of Bottles: 2 Preservative: ICE Enter Number of Bottles Sent to Lab 2
BLOOM-ID

Group: B Bottle Type: BG-WD250 # of Bottles: 1 Preservative: ICE Enter Number of Bottles Sent to Lab 1
W-MCVCYST-AA

Group: C Bottle Type: BP-1L # of Bottles: 1 Preservative: ICE Enter Number of Bottles Sent to Lab 1
CHLSUITE-W

Group: C Bottle Type: P-500ML # of Bottles: 1 Preservative: ICE And H2SO4 Enter Number of Bottles Sent to Lab 1
W-NH3
W-NO2NO3 SA. 7275010
W-S-A-TP
W-TKN

Group: C Bottle Type: P-125ML # of Bottles: 1 Preservative: FILTER-ICE Enter Number of Bottles Sent to Lab 1
W-PO4-F

Group: D Bottle Type: BP-1L # of Bottles: 1 Preservative: Lugols Enter Number of Bottles Sent to Lab 2
DTY-QN-C
PKD-QN-C

Ref: Date: 28Aug18 SHIPPING: 0.00
Dep: Wgt: 15.00 LBS SPECIAL: 0.00
DV: 0.00 HANDLING: 0.00
TOTAL: 0.00
Sms: PRIORITY OVERNIGHT Master 4385 5032 9537
TRCK: 4385 5032 9559

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: L1L SON

RQ: 2018-09-17-95

Project: MULTI BLOOM RST

- 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 6/6/18

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. BEARDEN	9/17	0651	23.40	760	8.51	8.51	100.0	63.5	1.01	P/F	L/F
ICV	1	1	0653	23.37	760	8.51	8.46	99.3	—	—	P/F	L/F
CCV	D. Horning		1149	25.45	760	8.20	8.31	101.1	—	—	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.	MB	9/17	0655	28071007	7/20	1000	1000	P/F	L/F
ICV	1	1	0656	2807691	7/20	100	100	P/F	L/F
CCV	D. Horning		1148	2804190	4/20	500	497	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.	MB	9/17	0658	178054	11/19	7.0	23.42	7.00	-17.7	P/F	L/F
Calibr.	1	1	0700	181456	4/20	4.0	23.50	4.00	158.9	P/F	L/F
Calibr.	1	1	0703	178540	12/19	10.0	23.49	10.00	-195.9	P/F	L/F
ICV	1	1	0705	178540	12/19	10.0	23.49	9.98		P/F	L/F
CCV	D. Horning		1150	178054	11/19	7.00	23.57	6.99	-17.2	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 10 178.2, slope from 4 to 7 176.6 (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)

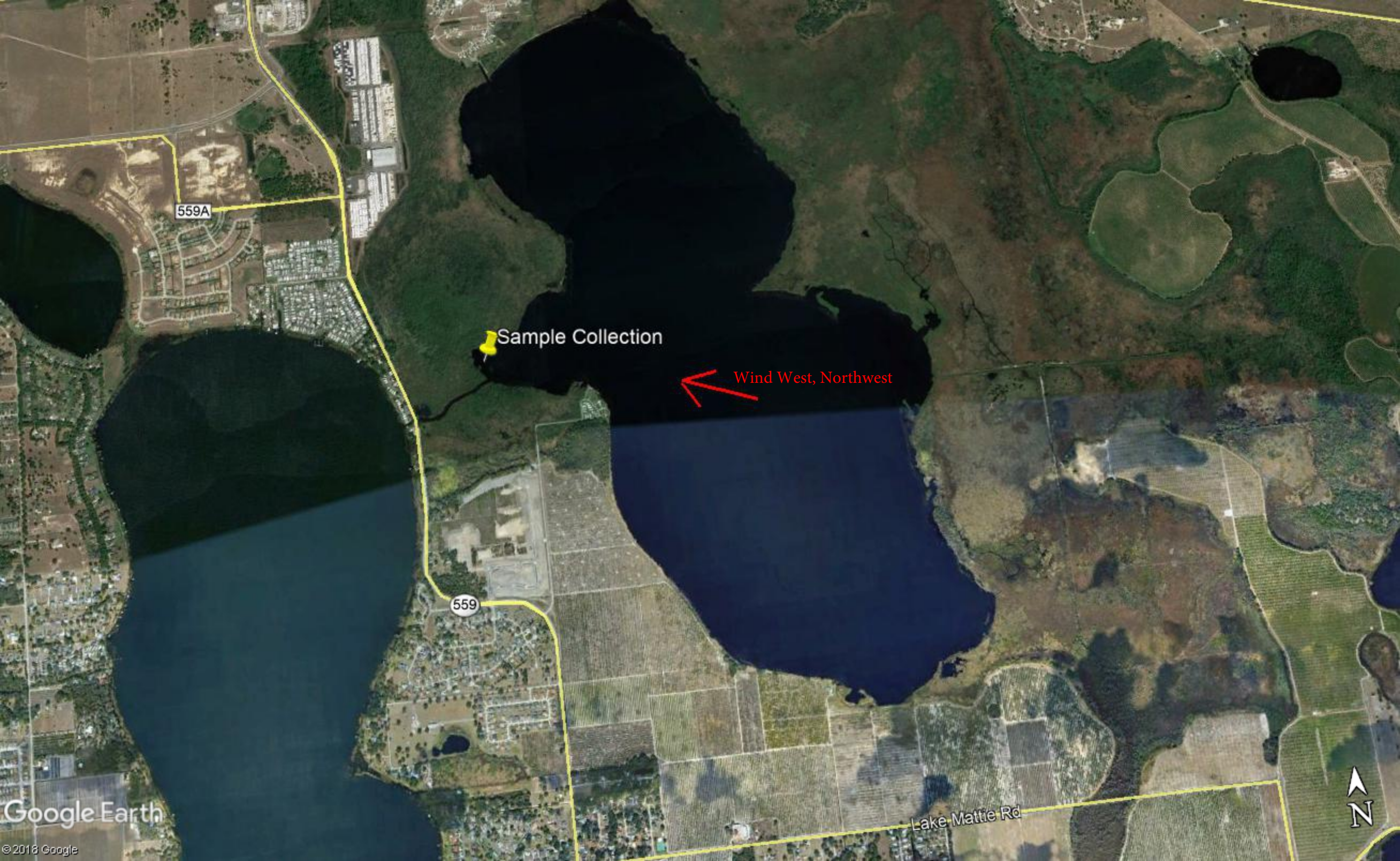
If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

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



559A

Sample Collection

Wind West, Northwest

559

Lake Mattie Rd

Google Earth

© 2018 Google

