



Cyanobacteria Bloom Response Field Data Sheet (2019-11-26 v3)

RQ- 2019-11-25-32		Collected By: KW GS CH MC								
Customer: DEP	Field Report Prepared By: MC									
Project ID: Bloom Response	Sampling Agency: FDEP SROC									
Field ID: SDHAB-12102019-001		Comments: protein slick on surface								
Site Name: Marina Town Hancock Creek		Collection Equipment: Pole								
Matrix: Marine	Grab	Coordinates:								
Tide: ☐ Rising ☐ Falling ☐ Slack ☐ N/A	High Tide Time:	Low Tide Time:								
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPT)	Secchi Disk (m)	Total Depth (m)
12/10/2019	0830	6.31	77.2	21.8	7.22	0.3	20510	12.28	0.9	0.9 (s)
Bloom Observations										
Algal Bloom Observed? ☐ Yes ☒ No										
Water Surface	☒ Clear	☐ Scum	☐ Globbs	☐ Slick						
Water Clarity	☒ Clear	☐ Slightly Turbid	☐ Turbid	☐ Opaque						
Bloom Color	☐ Green	☐ Red	☐ Brown	☒ Other: none						
Algae Distribution	☐ Suspended in water column	☐ On surface	☒ Other: none							
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	Other:					
Parameter Suite	Parameter Methods			Preservation	pH Check	#Bottles Sent to Lab	Bottle Group			
Bloom ID (PT-50ML)	☒ BLOOM-ID			☒ Ice		1	A			
Chlorophyll (BP-1L)	☒ CHLSUITE-W			☒ Ice		1	B			
Toxins (BG-WD250)	☒ W-MCYST-AA			☒ Ice		1	B			
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP			☒ Ice ☒ H2SO4	☐ <2	1	B			
	Lot	SA8274050	Exp:	10/1/19 re-cert.	☒ <2					
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice		1	B		
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C			☒ Ice ☐ Lugols		1	C			
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
Miranda Carroll	12/10/19	1								

ATILFURIC THERMO FISHER SCIENTIFIC
520 NORTH MAIN STREET
ANN ARBOR MI 48106
1:1 H2SO4
Lot No: SA8274050
Exp: 10/01/19
See Safety Data Sheet (SDS)
Contains: 1:1 H2SO4
Caution: Wash
gloves off in a
flooded sink with
at least 200 mL of
water. Do not
pour down drain.
Do not touch or
smell. If you do,
wash immediately
with water for
several minutes.
If you get it in
your eyes, flush
with water for
several minutes.
If you get it on
your skin, wash
with soap and
water for several
minutes.
If you get it on
your clothes, wash
with a detergent
and hot water.
Keep out of reach
of children.
Hazardous when
mixed with a
resistant base like
lime.

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

Meter ID: SNEK

RQ: 2014-11-25-32

Project: SMP

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

- 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 10/1/19

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.	Miranda Carroll	12/14/19	0720	23.6	758.1	8.4	8.46	99.8			P/F	L/F
ICV	"	"	0722	23.6	758.1	8.4	8.46	99.8			P/F	L/F
CCV	Gary Smalls	12/14/19	1205	26.8	757.9	8.0	7.95	99.3			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.	Miranda Carroll	12/9/19	0723	2907040	7/21	1,000	1,000	P/F	L/F
ICV	"	"	0726	2908081	8/21	100	99.6	P/F	L/F
CCV	Gary Smalls	12/10/19	1208	2909418	09/21	50,000	49606	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.	Miranda Carroll	12/9/19	0730	194546	7/21	7.00	24.4	7.01	-41.3	P/F	L/F
Calibr.	"	"	0735	193247	5/21	4.01	24.4	4.00	141.2	P/F	L/F
Calibr.	"	"	0738	193874	6/21	10.02	24.4	10.01	-219.8	P/F	L/F
ICV	"	"	0741	193247	5/21	4.01	24.3	3.95		P/F	L/F
CCV	Gary Smalls	12/10/19	1215	173874	6/21	10.01	24.1	7.95		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 _____, slope from 4 to 7 _____

(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: 3312B

Date of last verification: 6/18/19

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: