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: Bruce RQ- 2021-09-20-34 Project: SMP/Algae Re.

2021 09 -06-43

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 8/16/21

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.	Brian Davis	9/16	805	21.2	760.1	8.9	/	100.0	/	1.05	(P) / F	(L) / F
ICV	↓	↓	807	21.2	760.1	8.9	8.88	99.9	/	1.05	(P) / F	(L) / F
CCV	↓	↓	1517	22.9	759.8	8.6	8.7	101.2	/	1.05	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Brian Davis	9/16	739	210426B	5/22	1000	1000	(P) / F	(L) / F
ICV	↓	↓	741	210426B	5/22	20,000	20367	(P) / F	(L) / F
CCV	↓	↓	1519	210426A	5/22	100	100.9	P / F	L / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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.	Brian Davis	9/16	747	2104E81	4/23	7.02	21.4	7.02	-38.9	P / F	L / F
Calibr.	↓	↓	755	2103659	3/23	4.00	21.3	4.00	141.6	P / F	L / F
Calibr.	↓	↓	758	2107A04	12/22	10.04	21.4	10.04	-208.1	P / F	L / F
ICV	↓	↓	801	2104E81	4/23	7.02	21.4	7.05	-38.3	P / F	L / F
CCV	↓	↓	1522	2107A04	12/22	10.04	21.9	~~21.9~~	208.4	P / F	L / F
CCV								10.11		P / F	L / F

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 10 169.2, slope from 4 to 7 125.5 (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: 8/18/21
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	Brian Davis	9/16	809	0.00	0.00	(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:

Form effective August 1, 2018

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 09-06-43		Collected By:	Kim Appleby + Brian Davis
Customer ~~21FLA~~ 21FLA		Field Report Prepared By:	Kim Appleby
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP

WIN ID/Field ID: NEHAB0029

LSJR @ end of Blake Ave

Comments: Algae streaks seen on surface of water and concentrated along shore-line. Algae seen throughout water column.

		Collection Equipment:	ortho kit #7
Matrix:	Fresh (Grab)	Coordinates:	30.174050 -81.697170
Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A		High Tide Time: 800	Low Tide Time: 1440

Water Quality

Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPTh)	Secchi Disk (m)	Total Depth (m)
9/16/21	1310	10.15	134.7	29.9	8.59	0.3	779	0.38	0.572 (5)	0.572

Bloom Observations

Algal Bloom Observed?	☒ Yes ☐ No			
Water Surface	☒ Clear	☒ Scum	☒ Globs	☐ Slick
Water Clarity	☐ Clear	☐ Slightly Turbid	☐ Turbid	☐ Opaque
Bloom Color	☒ Green	☐ Red	☐ Brown	☐ Other: _____
Algae Distribution	☒ Suspended in water column		☒ On surface	☐ Other: _____
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 SA0353110	Exp: 1/11/22	☐ <2		
Filtered Nutrients (P125mL)	☒ W-PO4-F ☒ Field Filtered 0.45um Filter	☒ Ice		1	B
Quantitative Algae	~~☒ DTY-QN-C / PKD-QN-C~~ NA	☐ Ice ☐ Lugols			

Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time
Kim Appleby	9/16/21 1600	2		

LIMs QC'd: BD 10/21/21

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 09-06-43		Collected By:	Kim Appleby + Brian Davis
Customer	21 FLA	Field Report Prepared By:	Kim Appleby
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP

WIN ID/Field ID: NEHAB0025

Comments: No algae seen.

LSJR end of Oakvale Rd

Collection Equipment: ortho kit #7

Matrix: Fresh (Grab)

Coordinates: 30.109630 -81.643050

Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A

High Tide Time: 920 Low Tide Time: 1620

Water Quality

Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPTh)	Secchi Disk (m)	Total Depth (m)
9/16/21	1155	5.55	72.7	29.3	7.44	0.3	773	0.37	1.1	1.545
	1158	5.48	71.6	29.2	7.43	0.98	780	0.38		

Bloom Observations

Algal Bloom Observed?	☐ Yes	☒ No		
Water Surface	☒ Clear	☐ Scum	☐ Globs	☐ Slick
Water Clarity	☒ Clear	☐ Slightly Turbid	☐ Turbid	☐ Opaque
Bloom Color	☐ Green	☐ Red	☐ Brown	☐ Other: _____
Algae Distribution	☐ Suspended in water column		☐ On surface	☐ Other: _____
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 SA1105060	Exp: 4/30/22	☐ <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		

Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time
Kim Appleby	9/16/21 1600	2		

LIMs QC'd: BD 10/21/21

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 09-06-43		Collected By:	Kim Appleby + Brian Davis
Customer	ZIFLA	Field Report Prepared By:	Kim Appleby
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP

Field ID:

WIN ID/Field ID: NEHAB0024

Christopher Creek below San Jose Blvd

Comments: No algae seen.

Collection Equipment: Ortho kit #7

Matrix: Fresh (Grab)

Coordinates: 30.252490 -81.642340

Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A

High Tide Time: 800 Low Tide Time: 1440

Water Quality

Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPTh)	Secchi Disk (m)	Total Depth (m)
9/16/21	1045	3.67	47.0	28.0	7.07	0.3	944	0.46	0.9	1.057

Bloom Observations

Algal Bloom Observed? ☐ Yes ☒ No

Water Surface	☒ Clear	☐ Scum	☐ Globs	☐ Slick
Water Clarity	☐ Clear	☒ Slightly Turbid	☐ Turbid	☐ Opaque
Bloom Color	☐ Green	☐ Red	☐ Brown	☐ Other: _____
Algae Distribution	☐ Suspended in water column		☐ On surface	☐ Other: _____
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: SA1105060 Exp:		☐ <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			

Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time
Kim Appleby	9/16/21 1600	2		1600 NA

SULFURIC ACID >51% — THERMO FISHER SCIENTIFIC 520 NORTH MAIN STREET MIAMI, OK 74354 1-828-869-2711 — DANGER 7664-93-9 7732-18-5 — Contains: Conc. H2SO4 — May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fume/mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash contaminated clothing before reuse. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Store in corrosive resistant container with a resistant inner liner

Contains: Conc. H2SO4 Lot No.: SA1105060 Expires: 04/30/22 See Safety Data Sheet (SDS)

LIMs QC'd: BD 10/21/21