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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- 2022-04-11-48 Project: Algae Response

Orange, Ventosp Wetlands.

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 5/3/22

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	5/4/22	814	21.2	762.6	8.9	/	100.3	/	1.02	(P) F	(L) F
ICV	↓	↓	815	21.1	762.6	8.9	8.92	100.3	/	1.02	(P) F	(L) F
CCV	Kim Appleby	↓	1703	22.9	760.2	8.6	8.63	100.4	/	1.02	(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	5/4/22	758	220225A	3/23	1000	1000	(P) F	(L) F
ICV	↓	↓	759	210917A	9/22	100	100.7	(P) F	(L) F
CCV	Kim Appleby	↓	1705	211122B	12/22	1413	1422	(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	5/4/22	803	2112B19	12/23	7.02	21.3	7.02	-16.1	(P) F	(L) F
Calibr.	↓	↓	806	2201D88	1/24	4.00	21.3	4.00	164.1	(P) F	(L) F
Calibr.	↓	↓	808	2202A63	7/23	10.04	21.4	10.04	-183.2	(P) F	(L) F
ICV	↓	↓	810	2112B19	12/23	7.02	21.3	7.05	-13.2	(P) F	(L) F
CCV	Kim Appleby	↓	1708	2201D88	1/24	4.00	21.9	4.00	161.9	(P) F	(L) F
CCV	↓	↓	1710	2202A63	7/23	10.03	21.9	10.03	-185.3	(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 10 167.1, slope from 4 to 7 180.2 (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: 5/2/22
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	5/4/22	817	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:

Cyanobacteria Bloom Response Field Data Sheet (2022-04-15 v1)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ - 2022-04-11-48		**Collected By:**	Kimberly Appleby, Brian Davis
Customer:	WQAP	**Field Report Prepared By:**	Kim Appleby
Project ID:	BLOOM_RESP	**Sampling Agency:**	NEROC

Location: Orange lake-McIntosh Bay

Comments: Weather: Sunny. Specks of algae seen distributed on surface and with in water column.

Field ID: NEHAB0065		**Coordinates:**	29.43618, -82.19034
WIN Secondary Resource Type: Lake		**Collection Equip:**	WaterBottle
WIN ID: NEHAB0065		**High Tide Time:**	**Low Tide Time:**
Matrix: Fresh	Grab	**Tide:**	☐ Rising ☐ Falling ☐ Slack ■ N/A

Water Quality

Date	Time ■ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTh)
05/04/2022	11:40	123.8	9.91	26.6	9.51	0.3	2.82	1	84.2	0.04
	11:50	12.5	1.04	20.6	6.47	2			90.4	0.04
	11:53	3.5	0.31	21	6.18	2.32			97.4	0.04

Bloom Observations

Algal Bloom Observed? ■ Yes ☐ No

Water Clarity	■ Clear	☐ Slightly Turbid	☐ Turbid	☐ Opaque
Bloom Color	■ Green	☐ Red	☐ Brown	☐ Other:
Algae Type	■ Planktonic	☐ Filamentous	☐ Other:	
Algae Accumulation	☐ Mat	■ Specks	☐ Scum	☐ Glob
Algae Distribution	■ Surface-Entire	☐ Surf-Localized	☐ Surf-Windblown	■ Suspended ☐ Benthic ☐ Epiphytic

Parameter Suite	Parameter Methods	Preservation	pH Check	#Bottles Sent to Lab	Bottle Group
Algae ID (PT-50mL)	☐ ALGAE-ID	☐ Ice			
Bloom ID (PT-50mL)	■ BLOOM-ID	■ Ice		1	A
Chlorophyll (BP-1L)	■ CHLSUITE-W	■ Ice		1	B
Toxins (BG-WD250)	■ W-MCYST-AA / W-SAXTN-MS	■ Ice		1	B
Preserved Nutrients (500mL HDPE)	☐ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☐ Ice ☐ H2SO4	☐ <2		
	Acid Lot:	Exp:			
Filtered Nutrients (P125mL)	■ W-PO4-F	☐ Field Filtered 0.45um Filter; Filter Lot #	■ 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	05/04/2022 16:00	1		

Cyanobacteria Bloom Response Field Data Sheet (2022-04-15 v1)

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RQ - 2022-04-11-48		**Collected By:**	Brian Davis, Kim Appleby
Customer:	WQAP	**Field Report Prepared By:**	Brian Davis
Project ID:	BLOOM_RESP	**Sampling Agency:**	NEROC
Location: Lake Wauberg		**Comments:** Very pea green water.	
Field ID: NEHAB0072		**Coordinates:**	29.53032, -82.30233
WIN Secondary Resource Type: Lake		**Collection Equip:**	WaterBottle
WIN ID: NEHAB0072		**High Tide Time:**	**Low Tide Time:**
Matrix: Fresh	Grab	**Tide:**	☐ Rising ☐ Falling ☐ Slack ■ N/A

Water Quality

Date	Time ■ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTh)
05/04/2022	15:05	209.4	16.29	27.8	10.32	0.3	4.5	0.5	125.5	0.06
	15:12	30.4	2.92	25.9	6.88	2			82.4	0.04
	15:14	4.9	0.38	25.4	6.62	4			85.3	0.04

Bloom Observations

Algal Bloom Observed? ■ Yes ☐ No

Water Clarity	☐ Clear	☐ Slightly Turbid	■ Turbid	☐ Opaque
Bloom Color	■ Green	☐ Red	☐ Brown	☐ Other:
Algae Type	■ Planktonic	☐ Filamentous	☐ Other:	
Algae Accumulation	☐ Mat	☐ Specks	☐ Scum	☐ Glob
Algae Distribution	☐ Surface-Entire	☐ Surf-Localized	☐ Surf-Windblown	■ Suspended ☐ Benthic ☐ Epiphytic

Parameter Suite	Parameter Methods	Preservation	pH Check	#Bottles Sent to Lab	Bottle Group
Algae ID (PT-50mL)	☐ ALGAE-ID	☐ Ice			
Bloom ID (PT-50mL)	■ BLOOM-ID	■ Ice		1	A
Chlorophyll (BP-1L)	■ CHLSUITE-W	■ Ice		1	B
Toxins (BG-WD250)	■ W-MCYST-AA / W-SAXTN-MS	■ Ice		1	B
Preserved Nutrients (500mL HDPE)	☐ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☐ Ice ☐ H2SO4	☐ <2		
	Acid Lot:	Exp:			
Filtered Nutrients (P125mL)	■ W-PO4-F	■ Field Filtered 0.45um Filter; Filter Lot # ; ■ 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
Brian Davis	05/04/2022 16:00	1		

Cyanobacteria Bloom Response Field Data Sheet (2022-04-15 v1)

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RQ - 2022-04-11-48		**Collected By:**	Brian Davis, Kim Appleby
Customer:	WQAP	**Field Report Prepared By:**	Brian Davis
Project ID:	BLOOM_RESP	**Sampling Agency:**	NEROC
Location: 183rd ave Canal off Cross Creek		**Comments:** Very low oxygen. Very little flow.	
Field ID: NEHAB0076		**Coordinates:**	29.48501, -82.16323
WIN Secondary Resource Type: Canal		**Collection Equip:**	WaterBottle
WIN ID: NEHAB0076		**High Tide Time:**	**Low Tide Time:**
Matrix: Fresh	Grab	**Tide:**	☐ Rising ☐ Falling ☐ Slack ■ N/A

Water Quality

Date	Time ■ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTh)
05/04/2022	12:55	22.1	1.8	25	6.33	0.3	0.6	0.6	128.1	0.06

Bloom Observations

Algal Bloom Observed? ■ Yes ☐ No

Water Clarity	☐ Clear	■ Slightly Turbid	☐ Turbid	☐ Opaque
Bloom Color	■ Green	☐ Red	☐ Brown	☐ Other:
Algae Type	■ Planktonic	☐ Filamentous	☐ Other:	
Algae Accumulation	☐ Mat	■ Specks	■ Scum	☐ Glob
Algae Distribution	■ Surface-Entire	☐ Surf-Localized	☐ Surf-Windblown	■ Suspended ☐ Benthic ☐ Epiphytic

Parameter Suite	Parameter Methods	Preservation	pH Check	#Bottles Sent to Lab	Bottle Group
Algae ID (PT-50mL)	■ ALGAE-ID	■ Ice		1	A
Bloom ID (PT-50mL)	■ BLOOM-ID	■ Ice		1	B
Chlorophyll (BP-1L)	■ CHLSUITE-W	■ Ice		1	B
Toxins (BG-WD250)	■ W-MCYST-AA / W-SAXTN-MS	■ Ice		1	B
Preserved Nutrients (500mL HDPE)	☐ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☐ Ice ☐ H2SO4	☐ <2		
	Acid Lot:	Exp:			
Filtered Nutrients (P125mL)	■ W-PO4-F	■ Field Filtered 0.45um Filter; Filter Lot # ; ■ 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
Brian Davis	05/04/2022 13:04	1		

Cyanobacteria Bloom Response Field Data Sheet (2022-04-15 v1)

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RQ - 2022-04-11-48		**Collected By:**	Kim Appleby, Brian Davis
Customer:		**Field Report Prepared By:**	Kimberly Appleby
Project ID:	BLOOM_RESP	**Sampling Agency:**	NEROC
Location: Orange Lake HAB Center		**Comments:** Weather: Sunnny. Algae seen evenly distributed on water surface and in water column.	
Field ID: NEHAB0075		**Coordinates:**	29.46560, -82.17754
WIN Secondary Resource Type: Lake		**Collection Equip:**	WaterBottle
WIN ID: NEHAB0075		**High Tide Time:**	**Low Tide Time:**
Matrix: Fresh	Grab	**Tide:**	☐ Rising ☐ Falling ☐ Slack ■ N/A

Water Quality

Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTh)
05/04/2022	12:10	92.8	7.48	26.4	7.07	0.3	3.1	0.8	83.9	0.04
	12:27	72.7	5.93	25.5	6.88	2			83.7	0.04
	12:28	66.6	5.46	25.5	6.81	2.6			83.8	0.04

Bloom Observations

Algal Bloom Observed? ■ Yes ☐ No

Water Clarity	■ Clear	☐ Slightly Turbid	☐ Turbid	☐ Opaque
Bloom Color	■ Green	☐ Red	☐ Brown	☐ Other:
Algae Type	■ Planktonic	☐ Filamentous	☐ Other:	
Algae Accumulation	☐ Mat	■ Specks	☐ Scum	☐ Glob
Algae Distribution	■ Surface-Entire	☐ Surf-Localized	☐ Surf-Windblown	■ Suspended ☐ Benthic ☐ Epiphytic

Parameter Suite	Parameter Methods	Preservation	pH Check	#Bottles Sent to Lab	Bottle Group
Algae ID (PT-50mL)	☐ ALGAE-ID	☐ Ice			
Bloom ID (PT-50mL)	■ BLOOM-ID	■ Ice		1	A
Chlorophyll (BP-1L)	■ CHLSUITE-W	■ Ice		1	B
Toxins (BG-WD250)	■ W-MCYST-AA / W-SAXTN-MS	■ Ice		1	B
Preserved Nutrients (500mL HDPE)	☐ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☐ Ice ☐ H2SO4	☐ <2		
	Acid Lot:	Exp:			
Filtered Nutrients (P125mL)	■ W-PO4-F	■ Field Filtered 0.45um Filter; Filter Lot # ; ■ 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
Brian Davis	05/04/2022 16:00	1		