

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: Desi

RQ: 2024-08-05-41

Project: Doctor Lake

- Notes: (1) Always wait for meter to stabilize before recording any readings. Algae Resample
 (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 7/2/24

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.	H. Brown	8/7/24	747	22.2	752.2	8.6	—	99.0	—	1.007	P/F	L/F
ICV	H. Brown	8/7/24	757	22.2	752.7	8.6	8.63	99.1	—	1.007	P/F	L/F
CCV	H. Brown	8/7/24	1350	22.5	751.7	8.6	8.5	97.2	—	1.007	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.	H. Brown	8/7/24	753	240618A	06/2025	1000	1000	P/F	L/F
ICV	H. Brown	8/7/24	754	230612A	01/2025	100	100.1	P/F	L/F
CCV	H. Brown	8/7/24	1354	231103C	11/2024	50000	50558	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.	H. Brown	8/7/24	756	43110047	11/3/25	7.01	22.6	7.01	-33.8	P/F	L/F
Calibr.	H. Brown	8/7/24	805	44010045	4/8/26	4.00	22.6	4.00	138.8	P/F	L/F
Calibr.	H. Brown	8/7/24	807	44020286	2/21/26	10.02	22.5	10.02	-204.1	P/F	L/F
ICV	H. Brown	8/7/24	809	44040045	4/8/26	4.00	22.4	4.00	138.8	P/F	L/F
CCV	H. Brown	8/7/24	1356	44020286	2/27/26	10.03	22.3	10.05	-205.1	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 10 170.3, slope from 4 to 7 172.3 (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: 7/2/24

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	H. Brown	8/7/24	812	0.00	0.00	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:



Cyanobacteria Bloom Response Field Data Sheet (2024-07-22 v1)

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

Meter Passed
End of Day CCV

Yes / No

RQ - 2024-08-05-41		Collected By:		Haylee Brown, Katrin Villinger, Katherine Halbert							
Customer:	NE-DIST		Field Report Prepared By:		Haylee Brown						
Project ID:	BLOOM_RESP		Sampling Agency:		NEROC						
Location: Doctors Lake - Pace Island dock				Comments:							
Field ID / WIN ID: NEHAB0055				Coordinates:		30.13591, -81.71990					
WBID:				Collection Equip:		WaterBottle					
WIN Secondary Resource Type: Lake				High Tide Time:		15:03		Low Tide Time:		09:36	
Matrix:	Marine		Grab		Tide:		☒ Rising ☐ Falling ☐ Slack ☐ N/A				
Water Quality		Meter ID:		Desi			Secchi ID:				
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTH)	
08/07/2024	09:40	6.31	80.7	26.4	7.15	0.3	0.72	0.72	8433	4.68	
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 (PT-50mL)		☐ ALGAL-ID ☒ BLOOM-ID				☒ Ice			1	A	
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	B	
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	B	
Physical/Aggregate		☒ W-COLOR				☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B	
		Acid Lot:		SA3340020		Exp:		12/11/2024			
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um	Filter Lot #	R1EB01329		☒ Ice	1	B	
					Syringe Lot #	NA					
Quantitative Algae		☐ DTY-QN-C / ☐ PKD-QN-C				☐ Ice		☐ Lugols			
Relinquished By:		Date/Time		Number of Coolers Shipped			Received By:		Date/Time		
Haylee Brown		08/07/2024 16:30		1							

Cyanobacteria Bloom Response Data Handling Addendum

RQ-	2024-08-05-41	Date	08/07/2024
Field ID	NEHAB0055	Time	09:40
Location	Doctors Lake - Pace Island dock		

SECTION FOR FDEP USE

LIMS EVENT ID: NE-DIST-2024-08-08-01WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: DB 08/13/2024QC Station ID, Field Parameters In LIMS DMT:

(Initials/Date)(Initials/Date)

Scan/Save Field Sheets 8/7/2024 KVMigrate Data to WIN:Verify Data In WIN:

(Initials/Date)(Initials/Date)(Initials/Date)



Cyanobacteria Bloom Response Field Data Sheet (2024-07-22 v1)

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

Meter Passed

End of Day CCV

Yes / No

RQ - 2024-08-05-41		Collected By:		Haylee Brown, Katrin Villinger, Katherine Halbert								
Customer:	NE-DIST		Field Report Prepared By:		Haylee Brown							
Project ID:	BLOOM_RESP		Sampling Agency:		NEROC							
Location: Doctors Lake - Mill Cove					Comments: two days post- tropical storm Debby							
Field ID / WIN ID: NEHAB0057					Coordinates:		30.12360, -81.72753					
WBID:					Collection Equip:		WaterBottle					
WIN Secondary Resource Type: Lake					High Tide Time:		15:03		Low Tide Time:		09:36	
Matrix:	Marine		Grab		Tide:		☒ Rising ☐ Falling ☐ Slack ☐ N/A					
Water Quality		Meter ID:		Desi			Secchi ID:					
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPT _h)		
08/07/2024	10:20	6.12	77.8	26.2	7.51	0.25	0.54	0.54	8465	4.7		
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 (PT-50mL)		☐ ALGAL-ID ☒ BLOOM-ID				☒ Ice			1	A		
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	B		
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	B		
Physical/Aggregate		☒ W-COLOR				☒ Ice			1	B		
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B		
		Acid Lot:		SA3340020		Exp:		12/11/2024				
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um		Filter Lot # R1EB01329		☒ Ice		1	B	
				Syringe Lot #		NA						
Quantitative Algae		☐ DTY-QN-C / ☐ PKD-QN-C				☐ Ice		☐ Lugols				
Relinquished By:		Date/Time		Number of Coolers Shipped				Received By:		Date/Time		
Haylee Brown		08/07/2024 16:30		1								

Cyanobacteria Bloom Response Data Handling Addendum

RQ-	2024-08-05-41	Date	08/07/2024
Field ID	NEHAB0057	Time	10:20
Location	Doctors Lake - Mill Cove		

SECTION FOR FDEP USE

LIMS EVENT ID: NE-DIST-2024-08-08-01WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: DB 08/13/2024QC Station ID, Field Parameters In LIMS DMT:

(Initials/Date)(Initials/Date)

Scan/Save Field Sheets8/7/2024 KVMigrate Data to WIN:Verify Data In WIN:

(Initials/Date)(Initials/Date)(Initials/Date)

Cyanobacteria Bloom Response

Blank Sample Addendum

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

RQ - 2024-08-05-41		Collected By:		Haylee Brown, Katrin Villinger, Katherine Halbert			
Customer:	NE-DIST	Field Report Prepared By:		Haylee Brown			
Project ID:	BLOOM_RESP	Sampling Agency:		NEROC			
Location: Doctors Lake - Mill Cove			Comments:				
Field ID / WIN ID:		FB_08072024					
Matrix:	Field Blank			Coordinates:			
Blank Information				FLABSV BLANK			
Collection Date/Time	08/07/2024 10:25						
DI Source	NE ROC Lab						
DI Location	CarNB						
DI Container Name/ID	CarNB						
DI Container Type	Carboy						
Parameter Suite	Parameter Methods			Preservation	pH Check	#Bottles Sent to Lab	Bottle Group
Toxins (P-125/BG-250)	☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN			☒ Ice		1	C
Physical/Aggregate	☒ W-COLOR			☒ Ice		1	C
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP			☒ Ice ☒ H2SO4	☒ <2	1	C
	Acid Lot:	SA3340020	Exp:	12/11/2024			
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45um	Filter Lot #	R1EB01329	☒ Ice	1	C
			Syringe Lot #	NA			
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time		
Haylee Brown	08/07/2024 16:30	1					



Cyanobacteria Bloom Response Field Data Sheet (2024-07-22 v1)

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Meter Passed
End of Day CCV

Yes / No

RQ - 2024-08-05-41		Collected By:		Haylee Brown, Katrin Villinger, Katherine Halbert							
Customer:	NE-DIST		Field Report Prepared By:		Haylee Brown						
Project ID:	BLOOM_RESP		Sampling Agency:		NEROC						
Location: Swimming Pen Creek - Whiteys Fish Camp				Comments: 2 days post tropical storm							
Field ID / WIN ID: NEHAB0074				Coordinates:		30.10101, -81.74642					
WBID:				Collection Equip:		WaterBottle					
WIN Secondary Resource Type: River/Stream				High Tide Time:		15:03		Low Tide Time:		09:36	
Matrix:	Marine		Grab		Tide:		☒ Rising ☐ Falling ☐ Slack ☐ N/A				
Water Quality		Meter ID:		Desi			Secchi ID:				
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTH)	
08/07/2024	10:40	5.13	65	26.3	7.07	0.3	0.73	0.73	7961	4.4	
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 (PT-50mL)		☐ ALGAL-ID ☒ BLOOM-ID				☒ Ice			1	A	
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	B	
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	B	
Physical/Aggregate		☒ W-COLOR				☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B	
		Acid Lot:		SA3340020		Exp:		12/11/2024			
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um		Filter Lot # R1EB01329 Syringe Lot # NA		☒ 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			
Haylee Brown		08/07/2024 16:30		1							

Cyanobacteria Bloom Response Data Handling Addendum

RQ-	2024-08-05-41	Date	08/07/2024
Field ID	NEHAB0074	Time	10:40
Location	Swimming Pen Creek - Whiteys Fish Camp		

SECTION FOR FDEP USE

LIMS EVENT ID: NE-DIST-2024-08-08-01WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: DB 08/13/2024QC Station ID, Field Parameters In LIMS DMT:

(Initials/Date)(Initials/Date)

Scan/Save Field Sheets 8/7/ 2024 KVMigrate Data to WIN:Verify Data In WIN:

(Initials/Date)(Initials/Date)(Initials/Date)