

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: 2022-04-11-48

Project: Algae Response

Lake Winnott - Memorial Park

- 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 2/3/22

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.	K. Villinger	4/18/22	849	21.1	758.8	8.9	—	99.8	—	1.0122	(P) F	(L) F
ICV	↓	↓	851	21.0	758.8	8.9	8.91	99.8	—	1.0122	(P) F	(L) F
CCV	↓	↓	1525	21.6	758.1	8.8	8.84	100.2	—	1.0122	(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.	K. Villinger	4/18/22	852	220225A	3/23	1000	1000	(P) F	(L) F
ICV	↓	↓	855	210917A	9/22	100	100.1	(P) F	(L) F
CCV	↓	↓	1528	210917C	9/22	50000	50500	(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.	K. Villinger	4/18/22	857	2112B19	12/23	7.02	21.0	7.02	-42.7	(P) F	(L) F
Calibr.	↓	↓	859	2201D88	1/24	4.00	21.1	4.00	136.0	(P) F	(L) F
Calibr.	↓	↓	902	2202A63	7/23	10.05	21.0	10.05	-210.7	(P) F	(L) F
ICV	✓	✓	904	2201D88	1/24	4.00	21.1	4.04	132.4	(P) F	(L) F
CCV	↓	↓	1532	2202A63	7/23	10.03	21.7	10.02	-211.4	(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 10 168.0, slope from 4 to 7 178.7 (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: 2/3/22

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	K. Villinger	4/18/22	905	0.000	0.000	(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 (2022-04-15 v1)

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

RQ - 2022-04-11-48		Collected By:		Brian D., Katrin V						
Customer:	WQAP	Field Report Prepared By:		Brian Davis						
Project ID:	BLOOM_RESP	Sampling Agency:		NEROC						
Location: Lake Winnott - 147 Bakers Acres Dr			Comments: Cloudy skies,							
Field ID: NEHAB0014			Coordinates: 29.65116, -82.04722							
WIN Secondary Resource Type: Lake			Collection Equip: WaterBottle							
WIN ID: NEHAB0014			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 (PPT)
04/18/2022	11:40	101.7	8.36	25	6.62	0.3	2.4	1	50.9	0.02
	11:45	76.5	6.52	23.3	6.1	1.9			51.6	0.02
	11:46	75.5	6.46	23.1	6.03	2			51.5	0.02
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	B			
	Acid Lot:	SA1308030		Exp:	12/01/2022					
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice	1	B			
	Filter Lot #		R1EB01329							
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C			☐ Ice	☐ Lugols					
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
Brian Davis	04/18/2022 16:00	1								



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RQ - 2022-04-11-48				Collected By:			Katrin Villinger, Brian Davis																		
Customer:		WQAP		Field Report Prepared By:			Katrin Villinger																		
Project ID:		BLOOM_RESP		Sampling Agency:			NEROC																		
Location: LSJR @ Memorial Park Shoreline					Comments: Partly cloudy, mild fish smell, turbid water. No bloom observed																				
Field ID: NEHAB0071					Coordinates:		30.30990, -81.67939																		
WIN Secondary Resource Type: River/Stream					Collection Equip:		WaterBottle																		
WIN ID: NEHAB0071					High Tide Time:		11:50		Low Tide Time:		18:10														
Matrix:		Marine		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 (PPT _h)					
04/18/2022		14:10		86.1		6.91		23.7		7.58		0.3		0.8		0.25		15842		9.26					
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		1		B					
				Acid Lot:		SA1308030						Exp:		12/1/22											
Filtered Nutrients (P125mL)				☒ W-PO4-F				☒ Field Filtered 0.45um Filter				☒ Ice				1		B							
								Filter Lot #		R1EB01329															
Quantitative Algae				☐ DTY-QN-C / PKD-QN-C								☐ Ice								☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped								Received By:								Date/Time					
Katrin Villinger		04/18/2022 16:30		1																					