

RQ-2022-05-23-47

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

Meter ID:

YSP-052

RQ-

2022-06-13-19

Project:

LSP-052

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

5/2/22

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.	J. P. Marsh	6/23/22	730	22.5	757	8.6	8.6	99.7	—	1.025	(P) F	(L) F
ICV	J	6/23/22	731	22.5	757	8.6	8.6	99.6	—	1.025	(P) F	(L) F
CCV	J. P. Marsh	6/23/22	1606	24.5	755	8.3	8.35	100.1	—	—	(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.	J. P. Marsh	6/23/22	733	226225A	3/23	1000	1000	(P) F	(L) F
ICV	J	6/23/22	734	210912A	9/22	100	97.3	(P) F	(L) F
CCV	J. P. Marsh	6/23/22	812	210912C	9/22	50000	49677	(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.	J. P. Marsh	6/23/22	742	420385T	2/24	7.	22.6	7.01	12.7	(P) F	(L) F
Calibr.	J		742	2205F96	5/24	4.	22.3	4.00	164	(P) F	(L) F
Calibr.	J		743	2202A63	7/23	10.	22.7	10.03	184	(P) F	(L) F
ICV	J		745	2205F96	2/24	4.	22.2	4.03	161.5	(P) F	(L) F
CCV	J	2	1613	2202A63	7/23	10	23.8	9.99	184	(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 10 171.7, slope from 4 to 7 176.7 (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: 5/3/22

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	J. P. Marsh	6/23/22	740	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 (2022-06-10 v1)

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

RQ - 2022-05-23-47				Collected By:		Katrin Villinger, Jeremy Parrish					
Customer:		WQAP		Field Report Prepared By:		Katrin Villinger					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Dr's Lake at Camp Echokotee				Comments: Windy. Water has odor							
Field ID: NEHAB0085				Coordinates:		30.15050, -81.72513					
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle sampling pole					
WIN ID:				High Tide Time:		7 4 6		Low Tide Time:		1248	
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 (PPTH)	
06/23/2022	10:15	121.3	8.94	29.6	8.28	0.3	0.6	0.3	9264	5.15	
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	
Algal ID (PT-50mL)		☐ ALGAL-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 ☐ OV-TOXN				☒ 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		06/23/2022 16:30		1							

Katrin E. Villinger



Cyanobacteria Bloom Response Field Data Sheet (2022-06-10 v1)

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RQ - 2022-05-23-47				Collected By:		Katrin Villinger, Jeremy Parrish				
Customer:		WQAP		Field Report Prepared By:		Katrin Villinger				
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC				
Location: Dr's Lake Near Lucy Branch				Comments: Windy, slight odor						
Field ID: NEHAB0086				Coordinates:		30.13962, -81.74511				
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle sampling pole				
WIN ID:				High Tide Time:		726	Low Tide Time:		1248	
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 (PPTH)
06/23/2022	10:45	156.6	11.27	31.1	8.81	0.3	0.77	0.45	9636	5.36
	10:50	153.2	11.04	31.1	8.8	0.6			9636	5.36
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
Algal ID (PT-50mL)		☐ ALGAL-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 ☐ OV-TOXN				☒ 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		06/23/2022 16:30		1						

Katrin E. Villinger



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RQ - 2022-05-23-47		Collected By:		Katrin Villinger, Jeremy Parrish						
Customer:	WQAP	Field Report Prepared By:		Katrin Vilinger						
Project ID:	BLOOM_RESP	Sampling Agency:		NEROC						
Location: Dr's Lake end of Lawrence Rd			Comments: Windy							
Field ID: NEHAB0073			Coordinates: 30.12961, -81.75171							
WIN Secondary Resource Type: Lake			Collection Equip: WaterBottle Sampling pole							
WIN ID:			High Tide Time: 726		Low Tide Time: 1248					
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 (PPTH)
06/23/2022	11:05	93.9	6.79	31	8.31	0.3	0.65	0.35	9584	5.33
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	
Algal ID (PT-50mL)		☐ ALGAL-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 ☐ OV-TOXN			☒ 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 0.45µm Filter		☒ Ice		1	R1EB01329	
		Filter Lot #								
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C			☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped		Received By:		Date/Time		
Katrin Villinger		06/23/2022 16:30		1						