

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: S 1155 RQ: 2021-10-18-40 Project: A/S 1 Resample

- 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

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.	Bruce Davis	10/25	848	22.3	760.0	8.7	8.7	100.0	/	1.01	P/F	L/F
ICV	↓	↓	850	22.2	759.9	8.7	8.72	100.0	/	1.01	P/F	L/F
CCV	Kim Appleby	↓	1659	22.4	756.1	8.6	8.57	99.0	/	1.01	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.	Bruce D.	10/25	823	210426B	5/22	1000	1000	P/F	L/F
ICV	↓	↓	826	210426D	5/22	20,000	19,819	P/F	L/F
CCV	Kim Appleby	↓	1701	210426L	5/22	1413	1411	P/F	L/F
CCV	↓	↓	1704	210426A	5/22	100	101.4	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.	Bruce D.	10/25	824	2107F56	7/23	7.01	23.1	7.01	-28.8	P/F	L/F
Calibr.	↓	↓	838	2107640	7/23	4.00	23.2	4.00	144.3	P/F	L/F
Calibr.	↓	↓	841	2102E08	6/22	10.02	23.1	10.02	-205.7	P/F	L/F
ICV	↓	↓	844	2107F56	7/23	7.01	23.2	7.06	-32.5	P/F	L/F
CCV	Kim Appleby	↓	1710	2012E08	6/22	9.99	22.7	9.99	-202.4	P/F	L/F
CCV						10.02				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 10 176.6, slope from 4 to 7 173.1 (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

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	Bruce Davis	10/25	851	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

RQ-2021- 10-18-40		Collected By: Kim Appleby + Brian Davis								
Customer: ZI FLA	Field Report Prepared By: Kim Appleby									
Project ID: BLOOM_RESP	Sampling Agency: FDEP									
Field ID: WIN ID/Field ID:  NEHAB0037 COJ St Johns Marina		Comments: Very slight amount of algae seen in water column.								
Matrix: Fresh		☒ Grab	Collection Equipment: ortho kit #3							
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A		Coordinates: 30.320030, -81.662010	High Tide Time: 1320 Low Tide Time: 715							
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPT)	Secchi Disk (m)	Total Depth (m)
10/25/21	1320	7.19	87.4	25.0	7.74	0.3	1558	0.78	0.5	4.559
	1322	7.09	86.4	25.0	7.68	3.988	2574	1.32		
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	10/25/21 1600		2							

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 10-18-40		Collected By: Kim Appleby & Brian Davis	
Customer: 21FLA	Field Report Prepared By: Kim Appleby		
Project ID: BLOOM_RESP	Sampling Agency: FDEP		

WIN ID/Field ID: 
NEHAB0043

LSJR @ South end of Hart Bridge

Comments: No algae seen.

Matrix: Fresh		Collection Equipment: Ortho kit #3	
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A		Coordinates: 30.31790, -81.625570	
		High Tide Time: 740 ^{10A}	Low Tide Time: 740

Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPT)	Secchi Disk (m)	Total Depth (m)
10/25/21	1040	7.00	85.5	25.0	7.76	0.3	2270	1.17	0.4	0.663

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: 4/3-122	☐ <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	10/25/21 1600	2		

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 10-18-40		Collected By: Kim Appleby + Brian Davis	
Customer	ZI FLA	Field Report Prepared By: Kim Appleby	
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP

WIN ID/Field ID: 
NEHAB0033

LSJR @ St Vincent riverside

Comments: No algae seen.

Matrix: Fresh	(Grab)	Collection Equipment: Ortho kit #3
Coordinates: 30.306030, -81.689500		
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A	High Tide Time: 1325 Low Tide Time: 720	

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)
10/25/21	1110	7.55	91.9	25.3	7.81	0.3	1153	0.57	0.6	1.468

Bloom Observations					
Algal Bloom Observed? ☐ Yes ☒ No					
Water Surface	☒ Clear	☐ Scum	☐ Globbs	☐ 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	10/25/21 1600	2		

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 10-18-40		Collected By: Kim Appleby & Brian Davis	
Customer	ZIFLA	Field Report Prepared By:	Kim Appleby
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP

WIN ID/Field ID:  NEHAB0034

LSJR @ Marina Ortega Land

Comments: No algae seen.

Matrix:	Fresh	☒ Grab	Collection Equipment:	Ortho kit #3
Tide:	☒ Rising ☐ Falling ☐ Slack ☐ N/A	Coordinates:	30.276840, -81.712610	
		High Tide Time:	1430	Low Tide Time: 820

Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPTth)	Secchi Disk (m)	Total Depth (m)
10/25/21	1135	7.30	89.6	25.5	7.68	0.3	1435	0.72	0.6	2.140
	1137	7.15	87.5	25.4	7.66	1.840	1432	0.72		

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	10/25/21	2		

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 10-18-40	Collected By: Kim Appleby & Brian Davis
Customer ZIFLA	Field Report Prepared By: Kim Appleby
Project ID: BLOOM_RESP	Sampling Agency: FDEP

WIN ID/Field ID:



NEHAB0041

LSJR @ Worth Dr S

Comments: Algae very diffusely seen in water column.

Matrix: Fresh	Collection Equipment: Ortho Kit #3
Grab	Coordinates: 30.271320, -81.654970
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A	High Tide Time: 1320 Low Tide Time: 715

Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPT)	Secchi Disk (m)	Total Depth (m)
10/25/21	1215	6.85 6.91	84.0 83.4	25.2	7.64 7.63	0.3	1046	0.52	0.7	0.998

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: Kim Appleby	Date/Time: 10/25/21 1600	Number of Coolers Shipped: 2	Received By:	Date/Time:
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Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 10-18-40		Collected By: Kim Appleby & Brian Davis	
Customer	2IFLA	Field Report Prepared By: Kim Appleby	
Project ID:	BLOOM_RESP	Sampling Agency: FDEP	

WIN ID/Field ID: 
NEHAB0038

Canal to Marco Lake

Comments: Very slight amount of algae seen in water column.

Matrix: Fresh		Grab		Collection Equipment: Ortho Kit #3	
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A		Coordinates: 30.301240, -81.658220		High Tide Time: 1320 Low Tide Time: 715	

Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPTth)	Secchi Disk (m)	Total Depth (m)
10/25/21	1250	7.34	89.2	25.1	7.73	0.3	1147	0.57	0.7	1.753
	1252	7.30	88.7	25.0	7.72	1.242	1144	0.57		

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: SA1505060 Exp: 4/7/22		☐ <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: Kim Appleby	Date/Time: 10/25/21 1600	Number of Coolers Shipped: 2	Received By:	Date/Time:
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