

-05-23-47

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

- 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.	Katrin Villinger	5/2/22	858	21.1	764.2	8.9	-	100.5	-	1.024	P/F	L/F
ICV			900	21.1	764.5	8.9	8.94	100.6	-	1.024	P/F	L/F
CCV	Bruce Davis		1656	23.8	761.6	8.6	8.48	100.4		1.024	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	5/2/22	902	110225A	3/23	1000	1000	P/F	L/F
ICV			906	210917A	9/22	100	100.0	P/F	L/F
CCV	Bruce Davis		1658	211122A	12/22	15,000	15,034	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	5/2/22	907	1103887	2/24	7.02	20.8	7.02	-17.9	P/F	L/F
Calibr.			911	1101088	1/24	4.00	20.8	4.00	161.1	P/F	L/F
Calibr.			913	1102163	7/23	10.04	20.7	10.04	-186.4	P/F	L/F
ICV			917	1101088	1/24	4.00	20.8	3.97	161.1	P/F	L/F
CCV	Bruce Davis		1659	2202463	7/23	10.03	22.0	10.05	-187.6	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 10 168.5, slope from 4 to 7 179.0 (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	K. Villinger	5/2/22	919	0.00	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 (2022-05-20 v1)

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RQ - 2022-05-23-47				Collected By:		Katrin Villinger, Brian Davis					
Customer:		WQAP		Field Report Prepared By:		Brian Davis					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Rod Res Dam East				Comments: Stumpy, warm, water is clear, partly cloudy W-SAXTN-AA excluded from sample at site. Not required for bloom response project. Do not run for this site.							
Field ID: NEHAB0078				Coordinates:		29.51077, -81.80356					
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle					
WIN ID: NEHAB0078				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)	
05/23/2022	12:40	114.5	8.97	28	8.38	0.3	2.4	1.3	455.1	0.22	
	12:42	93.3	7.41	27.2	8.11	1.9			454.6	0.22	
	12:45	91.7	7.27	27.1	8.09	2			454.4	0.22	
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-AA ☐ OV-TOXN				☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP SA1308030 Acid Lot: Exp:				☒ Ice ☒ H2SO4		<2	1	B	
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45µm Filter Filter Lot # R1EB01329		☒ 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		05/23/2022 16:00		1							



Cyanobacteria Bloom Response Field Data Sheet (2022-05-20 v1)

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RQ - 2022-05-23-47				Collected By:		Brian Davis, Katrin Villinger					
Customer:		WQAP		Field Report Prepared By:		Brian Davis					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Dr's Lake end of Lawrence Rd				Comments: Sunny, partly cloudy							
Field ID: NEHAB0073				Coordinates:		30.12953, -81.75179					
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle					
WIN ID: NEHAB0073				High Tide Time:		1956		Low Tide Time:		1414	
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)	
05/23/2022	15:50	126.4	9.16	30.8	8.29	0.3	0.6	0.5	9808	5.47	
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				B	
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice				B	
Toxins (BG-WD250)		☒ W-MCYST-AA / W-SAXTN-MS ☐ OV-TOXN				☒ Ice				B	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP Acid Lot: SA1308030 Exp: 12/01/22				☒ Ice ☒ H2SO4		<2	1	B	
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45µm Filter Filter Lot # R1EB01329		☒ 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		05/23/2022 16:00		1							



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RQ - 2022-05-23-47				Collected By:		Brian Davis, Katrin Villinger					
Customer:		WQAP		Field Report Prepared By:		Brian Davis					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Swimming Pen Cr @ Whitey's Fish Camp				Comments: Partly cloudy							
Field ID: NEHAB0074				Coordinates:		30.10100, -81.74641					
WIN Secondary Resource Type: River/Stream				Collection Equip:		WaterBottle					
WIN ID: NEHAB0074				High Tide Time:		1956		Low Tide Time:		1414	
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)	
05/23/2022	15:15	95.1	7.08	28.6	7.23	0.25	0.905	0.7	9646	5.37	
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	B	
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A	
Toxins (BG-WD250)		☒ W-MCYST-AA / W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	A	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP SA1308030 Acid Lot: Exp:				☒ Ice ☒ H2SO4		☒ <2	1	A	
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter Filter Lot # R1EB01329		☒ Ice			1	A	
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped			Received By:		Date/Time		
Katrin Villinger		05/23/2022 16:30		1							