

Login Station ID: # 3

Date/Time of Receipt: 06/29/2022 / 09:40

[illegible]

COOLER CHECK

*All samples received on ice unless otherwise noted. HNO3 and Formalin preserved samples do NOT have a temperature requirement.

- If the temperature of a cooler exceeds 6.0 oC (above 10.0 oC for W-1-4-DIOX and microbiology) or received without ice, identify affected samples in an NCR. **NCR#** _____
- DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C for W-1-4-DIOX) without login confirmation from customer for samples requiring ice preservation; identify affected samples in an NCR. **NCR#** _____
- If cooler or samples are received with a damaged Evidence Seal; identify the affected samples in an NCR. **NCR#** _____
- If coolers or samples are received late; identify the affected samples in an NCR. **NCR#** _____

Yes **x** No

Yes _____ No **X**

CONTAINER CHECK

Evidence Tape on Bottles? Yes ____ No ____ NA **X** Evidence Tape intact? Yes ____ No ____

If Criminal, photographs taken? Yes ☐ No ☐ Containers intact? Yes ☒ No ☐

Caps on tight? Yes **X** No

Sufficient Sample Volume: Yes **X** No

If NO is checked above, generate an NCR listing affected sample IDs in its appropriate category. NCR# _____

CHLORINE CHECK REQUIRED? (Blue dot on container) Yes _____ No x Init: **ABS** /

Chlorine detected? (One container checked per Field ID) Yes _____ No _____ Init: **ABS** /

If chlorine is detected, generate an NCR listing affected sample IDs . NCR# _____

PRESERVATION CHECK (EXCLUDING SAMPLES SENT TO OVERFLOW LABS, "OV-")

Acid Preserved Samples: pH < 2.0? Yes **X No NA Init: **ABS** /

**W-1-4-DIOX (Green dot on container) preserved to pH<4.0? Yes ☐ No ☐ NA ☒ Init: ABS

If samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# _____

Coolers Unpacked/Checked by: ABS / Date: 06/29/2022 Event contains NCRs (Y/N)? N

EventID: **WQAP - 2022 - 06 - 29 - 01**

Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

Infrared Thermometer ID:	IRTG # 3 EXP:10/19/2022
pH Test Strips 0 – 6	LOT#223819AV EXP:8/30/2023
pH Paper 0 – 3	N/A
pH Paper 0 – 13	LOT 207621 EXP:3/15/2024
Chlorine Test Strips	0064/10/23/05 abs 0070 / 2023 / 02

ENCORE SAMPLES

S-VOC-MS samples in Encores must be frozen within 48 hours of collection.

Were Encore samples received? Yes _____ Init: ABS

Date and time placed in freezer _____

Were all samples placed in freezer within 48 hours of collection? Yes _____ No _____

If no, were samples shipped on dry ice? Yes _____ No _____

If S-VOC-MS samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# _____

FOR CLEAN LAB USE ONLY – Total Mercury Preservation Check(W-HG-AF;W-HG-AF-F):

Samples preserved within 48 hours? Yes _____ No _____

Date and time samples preserved: _____



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

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

RQ - 2022-06-06-57		Collected By:		Brian Davis, Katrin Villinger	
Customer: WQAP		Field Report Prepared By:		Katrin Villinger	
Project ID: BLOOM_RESP		Sampling Agency:		NEROC	
Location: Lochloosa Lake entrance to Cross Creek			Comments: 500 ml brown bottle used for W-MCYST-AA analysis. Did not have the wide mouth 250 ml brown bottle in house. Will order more kits for future sampling using correct bottle.		
Field ID: NEHAB0079			Coordinates: 29.50736, -82.14934		
WIN Secondary Resource Type: Lake			Collection Equip: WaterBottle		
WIN ID: NEHAB0079			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 _h)
06/28/2022	00:00 12:00	151.1	11.23	31	9.37	0.3	2.582	0.6	98.6	0.04
	12:05	52.4	4.03	29.2	6.82	2			94.4	0.04

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	C
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	D
Toxins (BG-WD250)	☒ W-MCYST-AA ☐ W-SAXTN-MS ☐ OV-TOXN	☒ Ice		1	D
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP SA1308030	☒ Ice ☒ H2SO4	☒ <2	1	D
	Acid Lot:	Exp:			
Filtered Nutrients (P125mL)	☒ W-PO4-F ☒ Field Filtered 0.45um Filter	☒ Ice		1	D
	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	06/28/2022 16:05	1	a.shaik	06/29/2022 / 09:40	

From sample.
AB



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

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RQ - 2022-06-06-57		Collected By:		Brian Davis, Katrin Villinger						
Customer:	Wqap	Field Report Prepared By:		Katrin Villinger						
Project ID:	BLOOM_RESP	Sampling Agency:		NEROC						
Location: Lochloosa Lake @ Park			Comments:							
Field ID: NEHAB0082			Coordinates: 29.50577, -82.10402							
WIN Secondary Resource Type: Lake			Collection Equip: WaterBottle							
WIN ID: NEHAB0082			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)
06/28/2022	12:25	110	8.5	30.6	7.72	0.3	1.759	0.65	95.8	0.04
	12:28	5.1	0.4	28.1	6.21	1.2			405.6	0.19
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	C		
Chlorophyll (BP-1L)	☒ CHLSUITE-W			☒ Ice			1	D		
Toxins (BG-WD250)	☒ W-MCYST-AA ☐ W-SAXTN-MS ☐ OV-TOXN			☒ Ice			1	D		
	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP			☒ Ice ☒ H2SO4 ☒ <2			1	D		
Preserved Nutrients (500mL HDPE)	SA1308030			12/1/22						
	Acid Lot:			Exp:						
Filtered Nutrients (P125mL)	☒ W-PO4-F			☒ Field Filtered 0.45µm Filter		☒ Ice	1	D		
	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	06/28/2022 16:30	1		a.shaik		06/29/2022 / 09:40				



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

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RQ - 2022-06-06-57		Collected By:		Brian Davis, Katrin Villinger	
Customer:	WQAP	Field Report Prepared By:		Katrin Villinger	
Project ID:	BLOOM_RESP	Sampling Agency:		NEROC	
Location: Lochloosa Lake NE in Veg			Comments: 500 ml brown bottle used for W-MCYST-AA analysis. Did not have the wide mouth 250 ml brown bottle in house. Will order more kits for future sampling using correct bottle.		
Field ID: NEHAB0083			Coordinates: 29.54450, -82.12232		
WIN Secondary Resource Type: Lake			Collection Equip: Water Bottle		
WIN ID: NEHAB0083			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)
06/28/2022	11:25	124.7	9.23	31.1	8.55	0.3	1.847	0.6	95.5	0.04
	11:30	34.2	2.65	28.9	6.4	1.3			96.2	0.04

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	C
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	D
Toxins (BG-WD250)	☒ W-MCYST-AA ☐ W-SAXTN-MS ☐ OV-TOXN	☒ Ice		1	D
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP SA1308030 Acid Lot: Exp:	☒ Ice ☒ H2SO4	☒ <2	1	D
Filtered Nutrients (P125mL)	☒ W-PO4-F ☒ Field Filtered 0.45µm Filter Filter Lot # R1EB01329	☒ Ice		1	D
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C	☐ Ice ☐ Lugols			

Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time
katrin Villinger	06/28/2022 16:30	1	A.SHAIK	06/29/2022 / 09:40

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- 2022-06-06-57

Project: Aquatic Response

- Notes: (1) Always wait for meter to stabilize before recording any readings. Lake Lochloosa
 (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	Barometer mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	<u>K. Villinger</u>	<u>6/28/22</u>	<u>820</u>	<u>22.9</u>	<u>762.5</u>	<u>8.6</u>	<u>-</u>	<u>100.3</u>	<u>-</u>	<u>1.022</u>	<u>P</u> F	<u>L</u> F
ICV		<u>↓</u>	<u>821</u>	<u>22.6</u>	<u>762.5</u>	<u>8.7</u>	<u>8.70</u>	<u>100.5</u>	<u>-</u>	<u>1.022</u>	<u>P</u> F	<u>L</u> F
CCV	<u>Brian Davis</u>	<u>↓</u>	<u>1702</u>	<u>23.8</u>	<u>761.8</u>	<u>8.5</u>	<u>8.51</u>	<u>100.7</u>	<u>✓</u>	<u>1.02</u>	<u>P</u> F	<u>L</u> 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.	<u>K. Villinger</u>	<u>6/28/22</u>	<u>824</u>	<u>220225A</u>	<u>3/23</u>	<u>1000</u>	<u>1000</u>	<u>P</u> F	<u>L</u> F
ICV			<u>827</u>	<u>210917A</u>	<u>9/22</u>	<u>100</u>	<u>100.1</u>	<u>P</u> F	<u>L</u> F
CCV	<u>Brian Davis</u>	<u>1704</u>	<u>6/28/22</u>	<u>220225A</u>	<u>3/23</u>	<u>1000</u>	<u>1001</u>	<u>P</u> F	<u>L</u> 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.	<u>K. Villinger</u>	<u>6/28/22</u>	<u>829</u>	<u>4203B87</u>	<u>2/24</u>	<u>7.00</u>	<u>25.7</u>	<u>7.00</u>	<u>-15.4</u>	<u>P</u> F	<u>L</u> F
Calibr.			<u>833</u>	<u>2205F96</u>	<u>5/24</u>	<u>4.00</u>	<u>23.4</u>	<u>4.00</u>	<u>161.9</u>	<u>P</u> F	<u>L</u> F
Calibr.			<u>836</u>	<u>2202A63</u>	<u>7/23</u>	<u>10.02</u>	<u>23.3</u>	<u>10.02</u>	<u>-144.4</u>	<u>P</u> F	<u>L</u> F
ICV			<u>839</u>	<u>2205F96</u>	<u>5/24</u>	<u>4.00</u>	<u>23.5</u>	<u>3.97</u>	<u>162.6</u>	<u>P</u> F	<u>L</u> F
CCV	<u>Brian Davis</u>	<u>6/28/22</u>	<u>1706</u>	<u>2202A63</u>	<u>7/23</u>	<u>10.01</u>	<u>24.3</u>	<u>9.98</u>	<u>-184.0</u>	<u>P</u> F	<u>L</u> 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 10 169, slope from 4 to 7 177.3 (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: 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	<u>K. Villinger</u>	<u>6/28/22</u>	<u>840</u>	<u>0.000</u>	<u>0.000</u>	<u>P</u> F	<u>L</u> F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

Date of Request: 19-MAY-2022
 Created By: PARRISH_J On: 19-MAY-2022
 Modified By: JASROTIA_P On: 26-MAY-2022
 Customer: WQAP
 Project: BLOOM-RESP
 Division: Division of Environmental Assessment and Restoration
 District:
 Event Description: Algal Bloom Response- NEROC

Send Coolers To:

Phone: 904-256-1700
 8800 Baymeadows Way West

 Jacksonville, FL 32256
 Attn: Jeremy Parrish
 Cooler Ship EMail: Jeremy.M.Parrish@dep.state.fl.us

Priority: 1
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: AYRES_J On: 26-MAY-2022
 Biology Request Reviewed By: JASROTIA_P On: 26-MAY-2022
 Sampling Kit Required: YES Ship on: 01-JUN-2022
 Sampling Kit Shipped: YES On: 02-JUN-2022
 Sampling Kit Packed By: KLUG_K
 Preservatives Needed: NO
 Date to Receive Samples: 06-JUN-2022
 Logged In By: SHAIK_A On: 29-JUN-2022

Send Final Report To:

8800 Baymeadows Way West

 Jacksonville, FL 32256
 Attn: Jeremy Parrish
 Report Notification EMail:
 Jeremy.M.Parrish@dep.state.fl.us; Brian.G.Davis@floridadep.gov
 ;Amelia.Rankin@dep.state.fl.us

Comments:

Unless peak algal bloom season, may analyze toxin after consultation with Biology's Taxonomy Manager.

Bottle Group A,C - Priority 1
 For algal dominant taxon.

Bottle Group B,D - Priority 1
 For toxin testing, nutrients, and chlorophyll, algal full ID

There are multiple bottles per Group in case multiple sample targets or sample locations are needed. Samplers use best professional judgement to decide which samples are appropriate to collect for a particular response. All sets of bottles do not have to be filled at one time.

Please print two copies of algal job labels at login.

Bottle Group A (Biological) With 3 Samples:

Bottle Type: PT-50ML Number of Bottles: 3 Preserved With: ICE
 BLOOM-ID Template: DEFAULT (SOP-AB05) Assessment of dominant algal taxa in bloom or mat sample

Bottle Group B (Water) With 3 Samples:

Bottle Type: BP-1L Number of Bottles: 3 Preserved With: ICE
 CHLSUITE-W Template: DEFAULT (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Bottle Type: BG-250ML-WDMTH Number of Bottles: 3 Preserved With: ICE
 W-MCYST-AA Template: (EPA 8321B) Microcystins in water matrices by HPLC/MS/MS

W-SAXTN-MS Template: DEFAULT (EPA 8321B) Saxitoxin in water matrices by HPLC/MS/MS

Bottle Type: P-500ML Number of Bottles: 3 Preserved With: ICE And H2SO4
 W-NH3 Template: DEFAULT (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
 W-NO2NO3 Template: DEFAULT (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
 W-S-A-TP Template: DEFAULT (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
 W-TKN Template: DEFAULT (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices

Bottle Group B (Water) With 3 Samples:

Bottle Type: P-125ML	Number of Bottles: 3	Preserved With: FILTER-ICE
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group C (Biological) With 3 Samples:

Bottle Type: PT-50ML	Number of Bottles: 3	Preserved With: ICE
BLOOM-ID	Template: DEFAULT	(SOP-AB05) Assessment of dominant algal taxa in bloom or mat sample

Bottle Group D (Water) With 1 Samples:

Bottle Type: P-125ML	Number of Bottles: 1	Preserved With: FILTER-ICE
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L
Bottle Type: BP-1L	Number of Bottles: 1	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: BG-250ML-WDMTH	Number of Bottles: 1	Preserved With: ICE
W-MCYST-AA	Template: DEFAULT	(EPA 8321B) Microcystins in water matrices by HPLC/MS/MS
Bottle Type: P-500ML	Number of Bottles: 1	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices

* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.