

McCoy, Ian

From: Boman, Leif
Sent: Friday, July 15, 2022 11:24 AM
To: McCoy, Ian; Riordan, Terry
Cc: Bearden, Matthew; Klug, Kyle
Subject: RE: Site Information
Attachments: RQ-2022-07-11-12_Corrected 07152022LB.pdf

I've attached the hard copy update with the corrections. Thanks!

Leif

From: Boman, Leif
Sent: Friday, July 15, 2022 11:14 AM
To: McCoy, Ian <Ian.McCoy@FloridaDEP.gov>; Riordan, Terry <Terry.Riordan@FloridaDEP.gov>
Cc: Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>; Klug, Kyle <Kyle.Klug@floridadep.gov>
Subject: RE: Site Information

Ah yikes, yes. Let me pull it from the tablet PDF. One minute.

Leif

From: McCoy, Ian <Ian.McCoy@FloridaDEP.gov>
Sent: Friday, July 15, 2022 11:13 AM
To: Boman, Leif <Leif.Boman@FloridaDEP.gov>; Riordan, Terry <Terry.Riordan@FloridaDEP.gov>
Cc: Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>; Klug, Kyle <Kyle.Klug@FloridaDEP.gov>
Subject: Site Information

Good morning, I received RQ-2022-07-11-12 and noticed that one of the field sheets was missing a lot of info. I logged in this site based on the bottle but could you fill out the rest?

Attached is the paperwork in question, thank you for your time!

Ian McCoy
Florida DEP Receiving
Lab Support Staff
Phone - 850-245-8062

RQ-2022-07-11-12

Login Checklist

Login Station ID: #2

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 7/15/2022 10:05

*Cooler Temperature	Samples Frozen?	* All Samples in Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Waybill Tracking #	
		YES	HNO ₃		Formalin	Present?		*Intact?		
						Yes	No	Yes		No
1.4 1.6				10 10		✓			5681 9228554766 522555487244	

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# _____

Chain of Custody/ Field Sheet(s) Included?

Yes ☒ No ☐

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included?

Yes ☐ No ☒

CONTAINER CHECK

Evidence Tape on Bottles?

Yes ☐ No ☐ NA ☒Evidence Tape intact? Yes ☐ No ☐

If Criminal, photographs taken?

Yes ☐ No ☐Containers intact? Yes ☒ No ☐

Caps on tight?

Yes ☒ No ☐

Sufficient Sample Volume:

Yes ☒ 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 ☒ Init: IM

Chlorine detected? (One container checked per Field ID)

Yes ☐ No ☐ Init: _____

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 ☒ No ☐ NA ☐ Init: IM

**W-1-4-DIOX (Green dot on container) preserved to pH < 4.0?

Yes ☐ No ☐ NA ☒ Init: IM

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

Coolers Unpacked/Checked by: IM

Date: 7/15/2022

Event contains NCRs (Y/N)? ☒

Event ID:

Algal Bloom Response - CEROC
 WQAP-2022-07-15-01 (BLOOM-RESP)
 Date Received: 15-JUL-2022 10:05

Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

Infrared Thermometer ID:	IR TEMP GUN #2 exp:10/19/22
pH Test Strips 0 – 6	
pH Paper 0 – 3	
pH Paper 0 – 13	210620 exp: 4/15/23
Chlorine Test Strips	0070 exp: 02/2023

ENCORE SAMPLES

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

Were Encore samples received? Yes _____ Init: _____

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 (2019-12-16 v4)

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

RQ <u>2022-07-11-12</u>		Collected By: <u>LR Bates</u>	
Customer:	WQAP	Field Report Prepared By: <u>LR Bates</u>	
Project ID:	BLOOM-RESP	Sampling Agency: 21FLCEN	
Location:		Comments:	
Field ID: HABCE0118_LakeIvanhoe1		<u>lake green</u>	
Win ID: HABCE0118		Coordinates: <u>28.5624448, -81.3751635</u>	
Lake Ivanhoe - Center of Eastern Lobe		Collection Equip:	
WIN ID:		High Tide Time:	Low Tide Time:
Matrix:	<u>Fresh</u>	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)
<u>7/14/22</u>	<u>14:09</u>	<u>103.9</u>	<u>7.53</u>	<u>32.4</u>	<u>8.32</u>	<u>0.3</u>	<u>3.9</u>	<u>2.1</u>	<u>215.9</u>	<u>0.10</u>

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: _____	☐ N/A	
Algae Distribution	☒ Suspended in water column	☐ On surface	☐ Other: _____	☐ N/A		
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		<u>1</u>	<u>A</u>
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		<u>1</u>	<u>B</u>
Toxins (BG-WD250)	☒ W-MCYST-AA <u>W-SAXTN-MS</u>	☒ Ice		<u>1</u>	<u>B</u>
	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☒ Ice ☐ H2SO4	☒ <2	<u>1</u>	<u>B</u>
Preserved Nutrients (500mL HDPE)	Acid Lot: <u>132643</u>	Exp: <u>12/18/22</u>			
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45µm Filter	☒ Ice	<u>1</u>	<u>B</u>
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C	☐ Ice	Lugols? Y / N		
Relinquished By: <u>Bates</u>	Date/Time: <u>7/14/22 16:00</u>	Number of Coolers Shipped: <u>2</u>	Received By: <u>IM</u>	Date/Time: <u>7/15/22 10:05</u>	

LIMS EVENT ID: WQAP-2022-

WIN Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT:

QC Station ID, Field Parameters in LIMS DMT:

(Initials/Date)

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data in WIN:

(Initials/Date)



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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

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8/365

RQ - 2022-07-11-12		Collected By: Liz Bates								
Customer:	WQAP	Field Report Prepared By: Liz Bates								
Project ID:	BLOOM-RESP	Sampling Agency: 21FLCEN								
Location:		Comments:								
Field ID: HABCE0110_LakeSue1										
Win ID: HABCE0110										
Lake Sue - Lakeshore Dr. West Lobe										
Coordinates:										
Collection Equip:										
WIN ID:		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)
7/14/22	14:51	114.6	8.11	33.9	8.25	0.3	1.6	1.1	215.5	0.10
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: _____	☐ N/A					
Algae Distribution	☒ Suspended in water column	☐ On surface	☐ Other: _____	☐ N/A						
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 W-SAXTN-MS		☒ Ice			1	B			
	☐ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice ☒ H2SO4		☐ <2	1	B			
Preserved Nutrients (500mL HDPE)	Acid Lot:	132683	Exp:	12/18/22						
Filtered Nutrients (P125mL)	☒ W-PO4-F	☐ Field Filtered 0.45µm Filter		☒ Ice		1	B			
	☐ DTY-QN-C / PKD-QN-C		☐ Ice		Lugols? Y / N					
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
Bates	16:00 7/14/22	+2		IM	7/15/22 10:05					

LIMS EVENT ID: WQAP-2022-

WIN Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT:

QC Station ID, Field Parameters in LIMS DMT:

(Initials/Date)

Scan/Save field sheets

Migrate Data to WIN:

Verify Data in WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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

RQ - 2022-07-11-12		Collected By: <u>W Bates</u>	
Customer: WQAP	Field Report Prepared By: <u>W Bates</u>		
Project ID: BLOOM-RESP	Sampling Agency: 21FLCEN		
Location:		Comments: <u>floating aquatic plants @ site</u>	
Field ID: HABCE0132_FishLake		Coordinates: <u>28.272808, -81.3397714</u>	
Win ID: HABCE0132		Collection Equip:	
Fish Lake - Sexton Park		High Tide Time:	Low Tide Time:
Matrix: <u>Fresh</u>	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)
<u>7/14/22</u>	<u>9:15</u>	<u>30.7</u>	<u>2.36</u>	<u>29.0</u>	<u>7.23</u>	<u>0.3</u>	<u>0.5</u>	<u>0.5</u>	<u>243.1</u>	<u>0.11</u>

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: _____	☒ N/A	
Algae Distribution	☐ Suspended in water column		☐ On surface	☐ Other: _____	☒ N/A	
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		<u>1</u>	<u>A</u>
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		<u>1</u>	<u>B</u>
Toxins (BG-WD250)	☒ W-MCYST-AA <u>W-SAXTN-MS</u>	☒ Ice		<u>1</u>	<u>B</u>
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☒ Ice ☒ H2SO4	☐ <2	<u>1</u>	<u>B</u>
	Acid Lot: <u>13683</u>	Exp: <u>12/18/22</u>			
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45µm Filter	☒ Ice	<u>1</u>	<u>B</u>
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C	☐ Ice	Lugols? Y / N		
Relinquished By: <u>Bates</u>	Date/Time: <u>7/14/22</u>	Number of Coolers Shipped: <u>2</u>	Received By: <u>IM</u>	Date/Time: <u>7/15/22 10:05</u>	

LIMS EVENT ID: WQAP-2022-

WIN Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT:

QC Station ID, Field Parameters in LIMS DMT:

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data in WIN:



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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

RQ- 2022-07-11-12		Collected By: Leif Boman, Terry Riordan	
Customer: WQAP		Field Report Prepared By: Leif Boman	
Project ID: BLOOM-RESP		Sampling Agency: 21FLCEN	
Location: Field ID: HABCE0112_LakeMann Win ID: HABCE0112 Lake Mann - McQueen Park		Comments: Coordinates: 28.5344713, 81.4235901 Collection Equip: Bottle 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)
07/14/22	14:42	133.2	9.52	33.2	8.4	0.3	1.1	1.1	198.3	0.09

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: ☒ N/A	
Algae Distribution	☐ Suspended in water column		☐ On surface	☐ Other: ☒ N/A	
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 W-SARIN-MS ☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☒ Ice ☐ H2SO4	☒	1	B
Preserved Nutrients (500mL HDPE)	Acid Lot: 132683 Exp:				
Filtered Nutrients (P125mL)	☒ W-PO4-F ☐ Field Filtered 0.45µm Filter Filter Lot # 17413308	☒ Ice		1	B
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C ☐ Ice	Lugols? Y / N			

Relinquished By: Boman, Leif	Date/Time: 07/14/22 16:00	Number of Coolers Shipped: 2	Received By: IM	Date/Time: 7/15/22 10:05
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LIMS EVENT ID: WQAP-2022-

Win Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT:

QC Station ID, Field Parameters in LIMS DMT:

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data in WIN:



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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

AB-FIELD-1.0

Original

Please disregard

IM

7/15/22

RQ - 2022-07-11-12		Collected By: Leif Boman, Terry Riordan								
Customer: WQAP	Field Report Prepared By: Leif Boman									
Project ID: BLOOM-RESP	Sampling Agency: 21FLCEN									
Location: Field ID: HABCE0112_LakeMann Win ID: HABCE0112 Lake Mann - McQueen Park		Comments: Coordinates: 28.5344713, 81.4235901 Collection Equip: Bottle								
WIN ID:		High Tide Time:	Low Tide Time:							
Matrix:	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)
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: _____	☒ N/A					
Algae Distribution	☐ Suspended in water column	☐ On surface	☐ Other: _____	☒ N/A						
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 W-SABTN-MS			☒ Ice			1	B		
	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP			☒ Ice ☐ H2SO4		☒ <2	1	B		
Preserved Nutrients (500mL HDPE)	Acid Lot: 132683		Exp:							
Filtered Nutrients (P125mL)	☒ W-PO4-F		☐ Field Filtered 0.45µm Filter		☒ Ice		1	B		
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C		☐ Ice		Lugols? Y / N					
Relinquished By: Boman, Leif	Date/Time: 16:00 07/14/22	Number of Coolers Shipped: 2		Received By: IM		Date/Time: 7/15/22 10:05				

LIMS EVENT ID: WQAP-2022-

WIN Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT:

QC Station ID, Field Parameters in LIMS DMT:

(Initials/Date)

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data in WIN:

(Initials/Date)

Date of Request: 02-JUN-2022
 Created By: BOMAN_L On: 02-JUN-2022
 Modified By: JASROTIA_P On: 23-JUN-2022
 Customer: WQAP
 Project: BLOOM-RESP
 Division: Division of Environmental Assessment and Restoration
 District: Central
 Event Description: Algal Bloom Response - CEROC

Send Coolers To:

Phone: 407-897-4181
 3319 Maguire Blvd Ste 232

 Orlando, FL 32803
 Attn: Leif Boman
 Cooler Ship EMail: Leif.Boman@FloridaDep.gov

Priority: 1
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: AYRES_J On: 22-JUN-2022
 Biology Request Reviewed By: JASROTIA_P On: 23-JUN-2022
 Sampling Kit Required: YES Ship on: 01-JUL-2022
 Sampling Kit Shipped: YES On: 01-JUL-2022
 Sampling Kit Packed By: ROBERTS_Z
 Preservatives Needed: NO
 Date to Receive Samples: 11-JUL-2022
 Logged In By:

Send Final Report To:

3319 Maguire Blvd. Suite 232

 Orlando, FL 32803
 Attn: Matt Bearden
 Report Notification EMail: Matthew.Bearden@FloridaDEP.gov

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

Bottle Group A - Priority 1
 For algal dominant taxon.

Bottle Group B - Priority 1
 For toxin testing, nutrients, 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 6 Samples:

Bottle Type: PT-50ML Number of Bottles: 6 Preserved With: ICE
 BLOOM-ID Template: DEFAULT (SOP-AB05) Assessment of dominant algal taxa in bloom or mat sample

Bottle Group B (Water) With 6 Samples:

Bottle Type: BP-1L Number of Bottles: 6 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: 6 Preserved With: ICE
 W-MCYST-AA Template: DEFAULT (EPA 8321B) Microcystins in water matrices by HPLC/MS/MS
 W-SAXTN-MS Template: (EPA 8321B) Saxitoxin in water matrices by HPLC/MS/MS

Bottle Type: P-500ML Number of Bottles: 6 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 Type: P-125ML Number of Bottles: 6 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