

From: Ayres, Joshua
To: Musson, Curtis; Sewell, Matthew
Cc: Watts, John
Subject: RE: COOLERS
Date: Thursday, August 22, 2019 12:43:56 PM
Attachments: image001.png

Matt / Curtis -

We we're able to save all but one site from RQ-2019-08-19-37, due to FedEx mishandling error. Do you want us to re-ship one site from this RQ to resample?

Request Number: RQ-2019-08-19-37		Florida Department of Environmental Protection Central Laboratory Submittal Form		Page 1 of 3 last revised Jan 25, 2018	
SMP-Kevin Run		Requester: Matt Sewell		Field Report Prepared By: Alex Miranda	
Customer: SE-DIST Project ID: SMP		Collected By: Kristina Taylor		Sampling Agency: 21 FLWPB	
Location Field ID: L-62 upstream of S-154C WIN/STOF: WIN ID/Field ID:  G1SE0028		☐ Comp Collection (comp begin or grab) ☒ Grab Date 08/20/2019 Time 10:35 (Eastern Central) Matrix (type, e.g., Salt, Fresh, etc) Fresh Temp (C) 29.3 pH 6.33 Diss. Oxygen 0.4 mg/L Sample Depth 0.3 Sp. Conductance (umho/cm) 282.1		Composite end Date Time Bottle Group(s) (See pg 2) B	
Latitude ☐ dms Longitude ☐ dms		Saftey (ppt) 0.13 Comments			
Location Field ID: Lemkin Creek @ 78		☐ Comp Collection (comp begin or grab) ☒ Grab Date 08/20/2019 Time 11:45 (Eastern Central) Matrix (type, e.g., Salt, Fresh, etc)		Composite end Date Time Bottle Group(s)	



JOSHUA AYRES
Environmental Specialist III
DEP Laboratories
Voice: 850.245.8206
Joshua.Ayres@dep.state.fl.us

From: Musson, Curtis <Curtis.Musson@FloridaDEP.gov>
Sent: Wednesday, August 21, 2019 14:58
To: Ayres, Joshua <Joshua.Ayres@dep.state.fl.us>
Cc: Ayala, Natalie <Natalie.Ayala@FloridaDEP.gov>; Linger, Michael <Michael.Linger@FloridaDEP.gov>; Sewell, Matthew <Matthew.Sewell@FloridaDEP.gov>
Subject: RE: COOLERS

Josh,

For the Matt Sewell (SE-DIST) and Mike Linger (CEN-DIST) samples:

- Don't run anything out of hold time.
- Don't run anything that is out of temp when it arrives.

Salvage what you can and the rest will need to be resampled.

Thanks,
Curtis

From: Linger, Michael <Michael.Linger@FloridaDEP.gov>
Sent: Wednesday, August 21, 2019 2:10 PM
To: Musson, Curtis <Curtis.Musson@FloridaDEP.gov>
Cc: Ayala, Natalie <Natalie.Ayala@FloridaDEP.gov>
Subject: FW: COOLERS
Importance: High

Curtis,

Would we want the data qualified? I can give you the WBIDs associated with the coolers if needed.

Thanks,

Mike

From: Ayres, Joshua
Sent: Wednesday, August 21, 2019 10:56 AM
To: Amanda.Chase@flhealth.gov; Joyce.Bittle@flhealth.gov; Sewell, Matthew <Matthew.Sewell@FloridaDEP.gov>; Linger, Michael <Michael.Linger@FloridaDEP.gov>
Cc: Jones, Naasson <Naasson.Jones@dep.state.fl.us>; Klug, Kyle <Kyle.Klug@FloridaDEP.gov>; Reaves, Shawn D <Shawn.Reaves@dep.state.fl.us>; Reynolds, Tyler <Tyler.Reynolds@dep.state.fl.us>; Rodriguez, Gabriel H <Gabriel.H.Rodriguez@FloridaDEP.gov>; Sanford, Tucker <Tucker.Sanford@FloridaDEP.gov>; Shaik, Amzad <Amzad.Shaik@dep.state.fl.us>; Watts, John <John.Watts@FloridaDEP.gov>
Subject: FW: COOLERS
Importance: High

Ladies & Gentlemen -

Looks like your coolers missed the plane to Tallahassee last night and are stuck in Memphis. We'll try to salvage what we can when they arrive tomorrow but there is a chance that your samples will arrive out of temperature or hold time, **please let me know if you want your data qualified** (if applicable) or if you want us to re-ship kits.

Thanks.

JOSHUA AYRES
Environmental Specialist III
DEP Laboratories
Voice: 850.245.8206
Joshua.Ayres@dep.state.fl.us



From: Ayres, Joshua
Sent: Wednesday, August 21, 2019 10:14
To: Watts, John <John.Watts@FloridaDEP.gov>
Subject: RE: COOLERS

Looks like 8 missing now. The driver says he doesn't know why they didn't make it to Tally. No FedEx shipping delay alerts.

Tracking ID	Latest activity	Scheduled delivery date	Scheduled delivery time by	Ship date	Shipper name	Shipper company
475187825330	In transit;Arrived at FedEx location;MEMPHIS, TN	8/21/2019	10:30 AM	8/20/2019	AMANDA CHASE	DOH-Orange County
119031610020	In transit;Arrived at FedEx location;MEMPHIS, TN	8/21/2019	10:30 AM	8/20/2019	Joyce Bittle	Seminole County Health Dept
475187824621	In transit;Arrived at FedEx location;MEMPHIS, TN	8/21/2019	10:30 AM	8/20/2019	Matthew Sewell	Florida DEP-Southeast District
475187824632	In transit;Arrived at FedEx location;MEMPHIS, TN	8/21/2019	10:30 AM	8/20/2019	Matthew Sewell	Florida DEP-Southeast District
475187757377	In transit;Arrived at FedEx location;MEMPHIS, TN	8/21/2019	10:30 AM	8/20/2019	Michael Linger	Florida DEP-Central District
475187757388	In transit;Arrived at FedEx location;MEMPHIS, TN	8/21/2019	10:30 AM	8/20/2019	Michael Linger	Florida DEP-Central District
475187825926	In transit;Arrived at FedEx location;MEMPHIS, TN	8/21/2019	10:30 AM	8/20/2019	Michael Linger	Florida DEP-Central District
475187815204	In transit;Arrived at FedEx location;MEMPHIS, TN	8/21/2019	10:30 AM	8/20/2019	Mike Linger	FL DEP Central District



JOSHUA AYRES
Environmental Specialist III
DEP Laboratories
Voice: 850.245.8206
Joshua.Ayres@dep.state.fl.us

From: Watts, John <John.Watts@FloridaDEP.gov>
Sent: Wednesday, August 21, 2019 10:07
To: Ayres, Joshua <Joshua.Ayres@dep.state.fl.us>
Subject: RE: COOLERS

6 missing?

John Watts
FDEP Laboratories
Environmental Administrator
245-8077

From: Ayres, Joshua <Joshua.Ayres@dep.state.fl.us>
Sent: Wednesday, August 21, 2019 10:05 AM
Subject: COOLERS
Importance: High

15 Coolers / FedEx Express / 10:00



JOSHUA AYRES
Environmental Specialist III
DEP Laboratories
Voice: 850.245.8206
Joshua.Ayres@dep.state.fl.us

RQ- 2019-08-19-37

Log-in Checklist

Login Station ID: #4Shipping Method: FedEx UPS | HD | GreyhoundDate/Time of Receipt: 08/22/19 @ 10:20

Cooler Temperature*	Samples Frozen	* All Samples in Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Tracking # Damaged waybills only
					Present?		*Intact?		
	YES	HNO ₃	Formalin		Yes	No	Yes	No	
2.9°C				12		X			4751 8782 4621
4.0°C				12		X			4751 8782 4632

* HNO₃ and Formalin persevered samples do **NOT** have a temperature requirement. For all others, if the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX and microbiology), or if Evidence Seal is damaged. Identify the containers in the affected cooler(s) on back of this form. **DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C) without login confirmation from customer for samples requiring ice preservation. An NCR still is required.**

Chain of Custody/ Field Sheet(s) Included? Yes ✓ No Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included? Yes No **Note:** If "No" is checked below, fill out the back of this form (Field ID, Test IDs, etc.) and generate an NCR.

CONTAINER CHECK

**Evidence Tape on Bottles? Yes No X If yes, is it intact? Yes No **Caps on tight? Yes ✓ No **Containers intact? Yes ✓ No **Sufficient Sample Volume: Yes ✓ No

CHLORINE CHECK REQUIRED? (Blue dot on container)

Yes No X Init: TR

Chlorine detected? (One container checked per Field ID)

Yes No Init:

If "YES", list affected Field IDs and Test IDs below.

Field ID	List TestID(s) where Chlorine was Detected, an NCR is required.

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

**Acid Preserved Samples: pH ≤ 2.0? Yes ✓ No NA Init:

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

Yes No NA X Init: TRCoolers Unpacked/Checked by: Tyler R.Date: 08/22/19NCRs (Y/N)? NEvent ID: SMP-Kevin Run
SE-DIST-2019-08-22-01 (SMP)
Date Received: 22-AUG-2019 10:20NCR #

Log-in Checklist

Samples with Incorrect pH Preservation

Field ID	Bottle TestID(s)	pH	Action Taken

Samples in Coolers with Incorrect Preservation or Damaged Evidence Tape

Cooler ID	Field ID	Bottle TestID(s)

Bottles Not Intact

Field ID	Bottle TestID(s)	Loose Cap	Damaged Cap		Damaged Container		Evidence Tape Not Intact
			CK	BR	CK	BR	

Samples with Insufficient Volume for Analyses

Field ID	Bottle TestID(s)	Action Taken

Infrared Thermometer ID:	REC_04_2018 EXP:04/29/2020
pH Test Strips 0 – 6 Lot #	213316AV EXP:05/15/2020
pH Paper 0 – 3 Lot #	
pH Paper 0 – 13 Lot #	215517 EXP: 06/01/2020
Chlorine Test Strips Lot #	8261 EXP: 07/30/2021

Additional Comments:

Site L-62 upstream of S-154 received expired due to FedEx. Site not logged in per Curtis Mosson's instructions. 8/22/19

ENCORE SAMPLES

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

Were Encore samples received? Yes _____ No ☒

Date and time placed in freezer _____

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

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

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: _____

Florida Department of Environmental Protection

Central Laboratory Submittal Form

SMP-Kevin Run

Customer: SE-DIST

Requester: Matt Sewell

Field Report Prepared By: Alex Miranda

Project ID: SMP

Collected By: Kristene Taylor

Sampling Agency: 21 FLWPB

Location		☐ Comp	Collection (comp begin or grab)		☒ Eastern	Composite end		Bottle Group(s) (See pg 2)	
Field ID	Location: L-62 upstream of S-154C	☒ Grab	Date 08/20/2019	Time 10:35	☒ Central	Date	Time		
WIN/STO	WIN ID/Field ID:	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☒ mg/L	Total Res. Chlorine	B	
Latitude	G1SE0028	Fresh		0.14 + 8 AM		☒ % sat	(mg/L)		
		Temp (C) 29.3	pH 6.33	Sample Depth 0.3	☐ ft	Sp. Conductance (umho/cm) 282.1			
		☐ dd	Salinity (ppt) 0.13	Comments					
		☐ dms							
Location		☐ Comp	Collection (comp begin or grab)		☒ Eastern	Composite end		Bottle Group(s)	
Field ID	Location: Lemkin Creek @ 78	☒ Grab	Date 08/20/2019	Time 11:45	☒ Central	Date	Time		
WIN/STO	WIN ID/Field ID:	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☒ mg/L	Total Res. Chlorine	A	
Latitude	G1SE0026	Fresh		0.64 8.3 AM		☒ % sat	(mg/L)		
		Temp (C) 29.8	pH 6.90	Sample Depth 0.3	☐ ft	Sp. Conductance (umho/cm) 835			
		☐ dd	Salinity (ppt) 0.40	Comments					
		☐ dms							
Location		☐ Comp	Collection (comp begin or grab)		☒ Eastern	Composite end		Bottle Group(s)	
Field ID	Location: Taylor Creek @ 98	☒ Grab	Date 08/20/2019	Time 12:05	☒ Central	Date	Time		
WIN/STO	WIN ID/Field ID:	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☒ mg/L	Total Res. Chlorine	B	
Latitude	G1SE0025	Fresh		4.89		☐ % sat	(mg/L)		
		Temp (C) 30.7	pH 7.12	Sample Depth 0.3	☐ ft	Sp. Conductance (umho/cm) 382.5			
		☐ dd	Salinity (ppt) 0.18	Comments					
		☐ dms							
Location		☐ Comp	Collection (comp begin or grab)		☒ Eastern	Composite end		Bottle Group(s)	
Field ID	Location: L-63 @ SE 59th Blvd.	☒ Grab	Date 08/20/2019	Time 12:30	☒ Central	Date	Time		
WIN/STO	WIN ID/Field ID:	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☒ mg/L	Total Res. Chlorine	B	
Latitude	G1SE0029	Fresh		1.19		☐ % sat	(mg/L)		
		Temp (C) 30.5	pH 6.31	Sample Depth 0.3	☐ ft	Sp. Conductance (umho/cm) 194.7			
		☐ dd	Salinity (ppt) 0.09	Comments					
		☐ dms							

Relinquished By: Alex Miranda	Date/Time: 08/20/2019 15:15	Shipping Method: Fed EX	Number of Coolers Shipped: 2	Received By: [Signature]	Date/Time: 8/22/19 1020
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AT 8-22-19
3 CHL
5

11:16 08/22/19
AT

Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	ALKALINITY					
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					
Group: A	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	CHLSUITE-W					
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
Group: A	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab _____
	W-PO4-F					
Group: B	Bottle Type:	P-1L	# of Bottles: 10	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	ALKALINITY					
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					
Group: B	Bottle Type:	BP-1L	# of Bottles: 10	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	CHLSUITE-W					
Group: B	Bottle Type:	P-500ML	# of Bottles: 10	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					

SMP-Kevin Run

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: SE-DIST

Requester: Matt Sewell

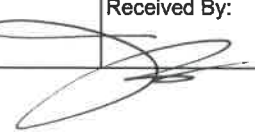
Field Report Prepared By: Alex Miranda

Project ID: SMP

Collected By: Kristene Taylor

Sampling Agency: 21 PLVPB

Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>08/20/2019</u> Time <u>12:48</u>	<u>Eastern</u> Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2)
Field ID	Location: L-63 canal @ SE 86th Blvd.	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>1.33</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/S	WIN ID/Field ID:  G1SE0022	Temp (C) <u>30.9</u>	pH <u>6.24</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>325.5</u>
Latitude	☐ dd ☐ dms	Salinity (ppt) <u>0.15</u>	Comments			
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>08/20/2019</u> Time <u>13:30</u>	<u>Eastern</u> Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID	Location: L-65 upstream of S-153	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>3.51</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/STOR	WIN ID/Field ID:  G1SE0050	Temp (C) <u>30.7</u>	pH <u>7.19</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>730</u>
Latitude	☐ dd ☐ dms	Salinity (ppt) <u>0.35</u>	Comments			
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____	<u>Eastern</u> Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments	
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____	<u>Eastern</u> Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments	

Relinquished By: <u>Alex Miranda</u>	Date/Time <u>08/20/2019 15:15</u>	Shipping Method <u>Fed EX</u>	Number of Coolers Shipped: <u>2</u>	Received By: 	Date/Time <u>8/22/19 1020</u>
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Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>1</u>
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
	W-PO4-F						
Group: B	Bottle Type:	P-1L	# of Bottles: 10	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>5</u>
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: B	Bottle Type:	BP-1L	# of Bottles: 10	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>5</u>
	CHLSUITE-W						
Group: B	Bottle Type:	P-500ML	# of Bottles: 10	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>5</u>
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						

Group: B	Bottle Type:	P-500ML	# of Bottles: 10	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	5
	W-TKN					
	W-TOC					

Group: B	Bottle Type:	P-125ML	# of Bottles: 10	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	5
	W-PO4-F					

Group: C	Bottle Type:	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	0
	ALKALINITY					
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					

Group: C	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	0
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					

Group: C	Bottle Type:	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	6
	W-PO4-F					

Date of Request: 01-AUG-2019
 Created By: SEWELL_M On: 01-AUG-2019
 Modified By: JASROTIA_P On: 01-AUG-2019
 Customer: SE-DIST
 Project: SMP
 Division:
 District: Southeast District
 Sampling Event: SMP-Kevin Run

Send Coolers To:

Phone: (772) 4485883
 FL Dept. of Environmental Protection
 2199 South Rock Road
 Fort Pierce, FL 34945
 Attn: Matthew Sewell

Program Module Number:

Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 01-AUG-2019
 Biology Request Reviewed By: JASROTIA_P On: 01-AUG-2019
 Sampling Kit Required: YES Ship on: 09-AUG-2019
 Sampling Kit Shipped: YES On: 08-AUG-2019
 Sampling Kit Packed By: SHAIK_A
 Preservatives Needed: NO
 Date to Receive Samples: 19-AUG-2019
 Received By:

Send Final Report To:

FL Dept. of Environmental Protection
 2199 South Rock Road
 Fort Pierce, FL 34945
 Attn: Matthew Sewell

Report Type: Final Only
 FTP Data: NO
 QC Report: YES
 Date Log: NO
 Authorization Log: NO

Comments:

Sampler Comments:
 Bottle Group A: G1SE0026; G1SE0027
 Bottle Group B: G1SE0022; G1SE0023; G1SE0024; G1SE0025; G1SE0028; G1SE0029; G1SE0050; G1SE0001; Field Replicate
 Bottle Group C: Blank

Bottle Group A (Water) With 2 Samples:

Bottle Type: P-1L	Number of Bottles: 2	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO4-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Bottle Type: BP-1L	Number of Bottles: 2	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Bottle Type: P-500ML	Number of Bottles: 2	Preserved With: ICE And H ₂ SO ₄
W-NH ₃	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO ₂ NO ₃	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
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices

Bottle Type: P-125ML	Number of Bottles: 2	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 B (Water) With 10 Samples:

Bottle Type: P-1L	Number of Bottles: 10	Preserved With: ICE
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Bottle Group B (Water) With 10 Samples:

Bottle Type: P-1L		Number of Bottles: 10	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L	
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices	
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices	
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm	
Color (true)			
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	
W-SO ₄ -IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices	
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices	
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	
Bottle Type: BP-1L		Number of Bottles: 10	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	
Bottle Type: P-500ML		Number of Bottles: 10	Preserved With: ICE And H ₂ SO ₄
W-NH ₃	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L	
W-NO ₂ NO ₃	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	
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices	
Bottle Type: P-125ML		Number of Bottles: 10	Preserved With: FILTER-ICE
W-PO ₄ -F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	

Bottle Group C (Water) With 1 Samples:

Bottle Type: P-500ML		Number of Bottles: 1	Preserved With: ICE And H ₂ SO ₄
W-NH ₃	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L	
W-NO ₂ NO ₃	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	
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices	
Bottle Type: P-125ML		Number of Bottles: 1	Preserved With: FILTER-ICE
W-PO ₄ -F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	
Bottle Type: P-1L		Number of Bottles: 1	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L	
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices	
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices	
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm	
Color (true)			
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	
W-SO ₄ -IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices	
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices	
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	