

Login Checklist

RQ-2020-12-14-44

Login Station ID: #4

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 12/18/2020 10:25

*Cooler Temperature	Samples Frozen?	* All Samples in Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Waybill Tracking #
					Present?		*Intact?		
	YES	HNO ₃	Formalin		Yes	No	Yes	No	
2.0°C				12		X			9293 8008 6233
3.6°C				12		X			9293 8008 6222
1.7°C				9		X			9293 8008 6244
2.8°C				9		X			9293 8008 6266

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: TJLWR

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: TJLWR

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

Yes ☐ No ☐ NA ☒ Init: TJLWR

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

Coolers Unpacked/Checked by: TJLWR

Date: 12/18/2020

Event contains NCRs (Y/N)? None

Event ID: Project Greenshores

NW-DIST-2020-12-18-01 (DISTRICT)

Page 1 of 2, of Date Received: 18-DEC-2020 10:25

RINO NGY

Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

Infrared Thermometer ID:	#4 Temp Gun EXP:10/28/2021
pH Test Strips 0 – 6	N/A
pH Paper 0 – 3	N/A
pH Paper 0 – 13	231019 EXP:11/01/2022
Chlorine Test Strips	8261 EXP:07/2021

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: _____

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: NW-DIST

Project ID: DISTRICT

Requester: Cheryl Bunch

Collected By: Zach Schang

Field Report Prepared By: Zach Schang

Sampling Agency: FDEP

Location	Range Marker East of Texar		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 10:10	Eastern ☒ Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Field ID	1		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
WIN/STORET #	3302H32GSI		Temp (C) 14.27	pH 7.87	Sample Depth .15	Sp. Conductance (umho/cm) 35377	
Latitude	☒ dd ☐ dms	Longitude	☒ dd ☐ dms	Salinity (ppt) 22.33	Comments		
Location	Pns Bay Midpoint between Bridge and Muscogee		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 10:30	Eastern ☒ Central	Composite end Date Time	Bottle Group(s)
Field ID	2		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
WIN/STORET #	3302J86S2		Temp (C) 14.51	pH 8.06	Sample Depth .15	Sp. Conductance (umho/cm) 36374	
Latitude	☒ dd ☐ dms	Longitude	☒ dd ☐ dms	Salinity (ppt) 23.02	Comments		
Location	Pns Bay East of Primary Storm Drain		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 10:41	Eastern ☒ Central	Composite end Date Time	Bottle Group(s)
Field ID	3		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
WIN/STORET #	3302J26S3		Temp (C) 14.47	pH 8.07	Sample Depth .15	Sp. Conductance (umho/cm) 37303	
Latitude	☒ dd ☐ dms	Longitude	☒ dd ☐ dms	Salinity (ppt) 23.65	Comments		
Location	Pns Bay South of Primary Storm Drain		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 10:50	Eastern ☒ Central	Composite end Date Time	Bottle Group(s)
Field ID	4		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
WIN/STORET #	3302J26S4		Temp (C) 15.02	pH 8.07	Sample Depth .15	Sp. Conductance (umho/cm) 38168	
Latitude	☒ dd ☐ dms	Longitude	☒ dd ☐ dms	Salinity (ppt) 24.28	Comments		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Z. Schang	12/17/20 / COB	FedEx	4	Tyler Reynolds	12/18/2020 @ 10:25

Group: A	Bottle Type:	BP-1L	# of Bottles: 14	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
CHLSUITE-W						
Group: A	Bottle Type:	TEST HAS NO BOTTLE	# of Bottles: 14	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
NW-UWF-ENQ						
Group: A	Bottle Type:	P-1L	# of Bottles: 14	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
TURBIDITY						
W-COLOR						
W-TSS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 14	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
W-NH3						
W-NO2NO3						
W-S-A-TP						
W-TKN						

H2SO4
LOT# SA0293040
EXP: 10/19/2021

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: NW-DIST

Project ID: DISTRICT

Requester: Cheryl Bunch

Collected By:

Zach Schang

Field Report Prepared By:

Zach Schang

Sampling Agency:

FDEP

Location Pensacola Bay End of Chase St		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 11:10	Eastern ☒ Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Field ID 5	Matrix (type, e.g., Salt, Fresh, etc) Salt	Diss. Oxygen 8.59	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A	
WIN/STORET # 3302J2G55	Temp (C) 14.12	pH 7.98	Sample Depth .15	Sp. Conductance (umho/cm) 37638		
Latitude 30.415528	☒ dd ☐ dms	Longitude 87.1980277	☒ dd ☐ dms	Salinity (ppt) 23.93	Comments	
Location Pns Bay Midpoint between Mosogee / Hawkshaw		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 11:22	Eastern ☒ Central	Composite end Date Time	Bottle Group(s)
Field ID 6	Matrix (type, e.g., Salt, Fresh, etc) Salt	Diss. Oxygen 8.44	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A	
WIN/STORET # 3302J1G56	Temp (C) 14.96	pH 8.09	Sample Depth .15	Sp. Conductance (umho/cm) 37622		
Latitude 30.412375	☐ dd ☐ dms	Longitude 87.2007916	☒ dd ☐ dms	Salinity (ppt) 23.92	Comments	
Location Pensacola Bay Midpoint between bridge and port		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 11:32	Eastern ☒ Central	Composite end Date Time	Bottle Group(s)
Field ID 7	Matrix (type, e.g., Salt, Fresh, etc) Salt	Diss. Oxygen 8.55	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A	
WIN/STORET # 3302J8G57	Temp (C) 14.74	pH 8.09	Sample Depth .15	Sp. Conductance (umho/cm) 37287		
Latitude 30.408194	☒ dd ☐ dms	Longitude 87.1993333	☒ dd ☐ dms	Salinity (ppt) 23.66	Comments	
Location Pensacola Bay West of Primary Stormdrain		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 11:00	Eastern ☒ Central	Composite end Date Time	Bottle Group(s)
Field ID 8	Matrix (type, e.g., Salt, Fresh, etc) Salt	Diss. Oxygen 8.79	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A	
WIN/STORET # 3302J2G58	Temp (C) 14.31	pH 7.91	Sample Depth .15	Sp. Conductance (umho/cm) 37355		
Latitude 30.416528	☒ dd ☐ dms	Longitude 87.1979722	☒ dd ☐ dms	Salinity (ppt) 23.70	Comments	

Relinquished By: Z. Schang	Date/Time 12/17/20 COB	Shipping Method FedEx	Number of Coolers Shipped: 4	Received By: Tanner Ruppel	Date/Time 12/18/2020 @ 10:25
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Group: A	Bottle Type:	BP-1L	# of Bottles: 14	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	CHLSUITE-W					
Group: A	Bottle Type:	TEST HAS NO BOTTLE	# of Bottles: 14	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	NW-UWF-ENQ					
Group: A	Bottle Type:	P-1L	# of Bottles: 14	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	TURBIDITY W-COLOR W-TSS					
Group: A	Bottle Type:	P-500ML	# of Bottles: 14	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN					

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: NW-DIST

Requester: Cheryl Bunch

Field Report Prepared By:

Zach Schang

Project ID: DISTRICT

Collected By: Zach Schang

Sampling Agency:

FDEP

Location Pensacola Bay, West of Hawkshaw Lagoon		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 12:09		Eastern Central	Composite end Date Time		Bottle Group(s) (See pg 2) A
Field ID 9		Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 9.55	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET # 3302J1G59		Temp (C) 14.65	pH 8.17	Sample Depth .15	☐ ft ☒ m	Sp. Conductance (umho/cm) 37229		
Latitude 30.409444	☒ dd ☐ dms	Longitude 87.2034722	☒ dd ☐ dms	Salinity (ppt) 23.62	Comments			
Location Pensacola Bay, South of Bayfront stormdrain		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 12:00		Eastern Central	Composite end Date Time		Bottle Group(s) A
Field ID 10		Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 8.58	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET # 3302J7G510		Temp (C) 14.46	pH 7.98	Sample Depth .15	☐ ft ☒ m	Sp. Conductance (umho/cm) 37004		
Latitude 30.408194	☒ dd ☐ dms	Longitude 87.2050277	☒ dd ☐ dms	Salinity (ppt) 23.45	Comments			
Location Pensacola Bay at Seville Marina Inlet		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 11:50		Eastern Central	Composite end Date Time		Bottle Group(s) A
Field ID 11		Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 8.66	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET # 3302J7G511		Temp (C) 14.97	pH 7.87	Sample Depth .15	☐ ft ☒ m	Sp. Conductance (umho/cm) 33961		
Latitude 30.407694	☒ dd ☐ dms	Longitude 87.2074444	☒ dd ☐ dms	Salinity (ppt) 21.32	Comments			
Location Pensacola Bay, East of port spoil pond		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 11:40		Eastern Central	Composite end Date Time		Bottle Group(s) A
Field ID 12		Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 8.50	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET # 3302J7G512		Temp (C) 14.82	pH 8.09	Sample Depth .15	☐ ft ☒ m	Sp. Conductance (umho/cm) 37389		
Latitude 30.405694	☒ dd ☐ dms	Longitude 87.2036666	☒ dd ☐ dms	Salinity (ppt) 23.77	Comments			

Relinquished By: Z. Schang	Date/Time 12/17/20 COB	Shipping Method Fed Ex	Number of Coolers Shipped: 4	Received By: Tina Reynolds	Date/Time 12/18/2020 @ 10:25
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Group: A	Bottle Type:	BP-1L	# of Bottles: 14	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
CHLSUITE-W						
Group: A	Bottle Type:	TEST HAS NO BOTTLE	# of Bottles: 14	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
NW-UWF-ENQ						
Group: A	Bottle Type:	P-1L	# of Bottles: 14	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
TURBIDITY						
W-COLOR						
W-TSS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 14	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab _____	
W-NH3						
W-NO2NO3						
W-S-A-TP						
W-TKN						

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: NW-DIST

Project ID: DISTRICT

Requester: Cheryl Bunch

Collected By: Zach Schang

Field Report Prepared By: Zach Schang

Sampling Agency: FDEP

Location Hawkshaw Lagoon at Memorial Bridge		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 12:21		Eastern ☒ Central	Composite end Date Time		Bottle Group(s) (See pg 2) A
Field ID 13		Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 9.76	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET # 330251HL1		Temp (C) 11.69	pH 7.82	Sample Depth .15	☐ ft ☒ m	Sp. Conductance (umho/cm) 21261		
Latitude 30.412125	☒ dd ☐ dms	Longitude 87.2024333	☒ dd ☐ dms	Salinity (ppt) 12.77	Comments			
Location Pensacola Bay, 150ft south of Hawkshaw Lagoon East Stomach		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/17/20 Time 12:35		Eastern ☒ Central	Composite end Date Time		Bottle Group(s) A
Field ID 14		Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 10.03	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET # 330251GS7		Temp (C) 14.21	pH 8.20	Sample Depth .15	☐ ft ☒ m	Sp. Conductance (umho/cm) 37351		
Latitude 30.413111	☒ dd ☐ dms	Longitude 87.2011944	☒ dd ☐ dms	Salinity (ppt) 23.71	Comments			
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time		Eastern 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		Eastern 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: Z. Schang	Date/Time 12/17/20 COB	Shipping Method Fed Ex	Number of Coolers Shipped: 4	Received By: Tulio Ruy Novais	Date/Time 12/18/2020 @ 10:28
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Group: A	Bottle Type:	BP-1L	# of Bottles: 14	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	CHLSUITE-W					
Group: A	Bottle Type:	TEST HAS NO BOTTLE	# of Bottles: 14	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	NW-UWF-ENQ					
Group: A	Bottle Type:	P-1L	# of Bottles: 14	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	TURBIDITY					
	W-COLOR					
	W-TSS					
Group: A	Bottle Type:	P-500ML	# of Bottles: 14	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab _____	
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					

Document Reference # 05.1.0

Laboratory: Wetlands Research Laboratory

Sampler's initials

Method of transport: _____ on ice by automobile

Page 1 of 1

Samples delivered by: Fach Schang of FDEP

Date/Time: 12/17/20

Sample received by: _____ of WRL

Date/Time:

Instructions: Fill in all fields except "Lab ID" on sample transport form completely. Each sample container must use a separate line. Place this form in a waterproof bag and place it with the samples for transport. If a field log or other chain of custody is attached, that information may be referenced on this form and the log or COC attached.

Comments ____ sample container lot# ____ L. _____ Marine Waters _____ "Samples are ambient water and not suspected to contain chlorine."

Contact organization _____ FDEP

Contact name_Zach Schang

Phone: (850) 324-1666

Address 160 Governmental Center, suite 308, Pensacola, FL 32502

Sampler's name: Zach Schan

¹Matrix: SW = surface water, PW = pore water, GW = ground water, S = soil/sediment, X =

²Type codes G = grab C = composite, X =

³ Recorded using IRT-2

Date of Request: 01-DEC-2020
 Created By: BUNCH_CA On: 01-DEC-2020
 Modified By: JASROTIA_P On: 02-DEC-2020
 Customer: NW-DIST
 Project: DISTRICT
 Division: Division of Environmental Assessment and Restoration
 District: Northwest District
 Event Description: Project Greenshores

Send Coolers To:

Phone: SC-695-8300
 160 Government Center
 Suite 308
 Pensacola, FL 32502-5794
 Attn: Cheryl Bunch
 Cooler Ship EMail: cheryl.bunch@dep.state.fl.us

Priority: 3
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 01-DEC-2020
 Biology Request Reviewed By: JASROTIA_P On: 02-DEC-2020
 Sampling Kit Required: YES Ship on: 08-DEC-2020
 Sampling Kit Shipped: YES On: 08-DEC-2020
 Sampling Kit Packed By: SHAIK_A
 Preservatives Needed: YES
 Date to Receive Samples: 18-DEC-2020
 Logged In By: REYNOLDS_T On: 18-DEC-2020

Send Final Report To:

160 Government Center
 Suite 308
 Pensacola, FL 32502-5794
 Attn: Cheryl Bunch
 Report Notification EMail: cheryl.bunch@dep.state.fl.us

Comments: 1 - case of sulfuric acid

Bottle Group A (Water) With 14 Samples:

Bottle Type: BP-1L	Number of Bottles: 14	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: TEST HAS NO	Number of Bottles: 14	Preserved With: ICE
NW-UWF-ENQ	Template: DEFAULT	(Enterolert/QT) Enterococci by Enterolert/QT by UWF in Pensacola
Bottle Type: P-1L	Number of Bottles: 14	Preserved With: ICE
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-COLOR	Template: DEFAULT	(SM 2120 B-2011) True Color measured at 450 nm (not valid for NPDES monitoring)
Color (true)		
W-TSS	Template: DEFAULT	(SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample
Bottle Type: P-500ML	Number of Bottles: 14	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

