

RQ-2022-03-28-15

Login Checklist

Login Station ID: #2

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 4/1/2022 10:14

*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	
1.6 0.4 1.3				9 10 13		✓			522555451423 522555451434 522555451445
						✓			
						✓			

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 ☐IM
4/1/22

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: IM

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: 4/1/2022

Event contains NCRs (Y/N)? ☒

Event ID:

St. Augustine
NE-DIST-2022-04-01-01 (SMP)
Date Received: 01-APR-2022 10:14

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	207621 exp: 3/15/24
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: _____

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

Date: 3/31/2022 **Collected By:** Katrin Villinger, Brian Davis
Customer: NE-DIST **Sampling Agency:** FDEP
RQ: RQ-2022-03-28-15 **Project ID:** SMP

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

Number of Coolers Shipped: 3

Delivery Method: FedEx

FIELD ID (Labels) submitted under this RQ for this collection date.

Site Location	Field ID/WIN ID
OYSTER CR @ DIXIE HWY	 27010056
San Sebastian at Marina North of SR312	 G5NE0604
San Sebastian River at Shipyards	 G5NE0603
San Sebastian River @ Hidden Harbor Marina	 27010088
Mill Creek at Powerline bridge	 G2NE1216

RELINQUISHED BY(SIGNATURE):

Katrin Villinger

DATE/TIME: 3/31/2022

1600EST

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By:

IM

Rec'd/Inspected Date:

4/1/22

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: Stitch

RQ: 2022-01-28-15

Project: SMP St Augustine

- 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 2/3/22

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.	Bruce Davis	3/31/22	845	21.5	758.6	8.8	8.8	99.8	/	1.07	P/F	L/F
ICV			846	21.5	758.5	8.8	8.81	99.9	/	1.07	P/F	L/F
CCV			1513	22.1	756.1	8.7	8.70	99.7	/	1.07	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.	Bruce Davis	3/31/22	806	210917B	9/22	1000	1000	P/F	L/F
ICV			810	211122B	12/22	1413	1411	P/F	L/F
CCV			1515	210917C	9/22	50,000	48625	P/F	L/F
CCV			1518	210917A	9/22	100	103.4	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.	Bruce Davis	3/31/22	828	2112B19	12/23	7.01	21.9	7.01	-26.2	P/F	L/F
Calibr.			832	2201P88	1/24	4.00	21.9	4.00	152.2	P/F	L/F
Calibr.			835	2202A63	7/23	10.03	21.8	10.03	-198.4	P/F	L/F
ICV			839	2112B19	12/23	7.01	21.9	7.06	-26.7	P/F	L/F
CCV			1521	2201P88	1/24	4.0	22.5	4.13	143.9	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 10 172.2, slope from 4 to 7 178.4 (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: 2/3/22

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	Bruce Davis	3/31/22	849	0.00	0.00	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:



RQ-2022-03-28-15

Customer: NE-DIST

Project ID: STRATEGIC MONITORING PLAN

Collected By: Katrin Villinger, Brian Davis

Field Report Prepared By: Katrin Villinger

Sampling Agency: FDEP

Place Label Here						Comments:				
WIN ID/Field ID:  27010056										
Location: OYSTER CR @ DIXIE HWY										
Matrix: Marine						(Check one) ☒ GRAB ☐ COMPOSITE				
Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT)
3/31/2022	1030 EST	4.75	57.3	21.2	7.93	0.15	0.296 ☒ VOB (S)	0.296	20850	12.5
	EST						Central Lab please use top row for login purposes			
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP Lot # SA1308030 Exp: 12/1/22				☒ Ice ☒ H2SO4*		☒ <2	1	C
Metals (P-500ML)		☐ W-ICPMS ☐ W-ICP ☐ W-HAR6 Lot # Exp:				☐ Ice NO3*		☐ <2		
Filtered Nutrients (P125ML)		☐ W-P04-F ☐ Field Filtered 0.45 µm Filter Filter Lot #				☐ Ice Syringe Lot #				
BOD (BP-1L)		☐ OV-BODUNIN				☐ Ice				
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	C
Physical/Aggregate (Fresh) (P-1L)		☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHL-F / W-COLOR / W-S04-IC / W- Lot # Exp:				☐ Ice				
Physical/Aggregate (Marine) (P-1L)		☒ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☒ Ice			1	C
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC				Formalin				
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☐ Coli ☐ Coli ☒ Enterococci Contract Lab				☒ Ice			1	C
Molecular (QPCR-P-500ML)		☐ CR-HF183 ☐ CR-BacR ☐ CR-DG3 ☐ CR-GULL2 ☐ CR-GFD				☐ Ice				
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice		MCAA Exp.		
Pesticides (BG-500ML) (BG-1L)		W-E8321-DI WE8321-MS W-PSNP-TQ W-CT-CL-R W-PCL-TQ-R W-CAR3-AA (5 ml of MCAA** Buffer Solution) W-TR-SQ-R W-PCB-TQ-R				☐ Ice		MCAA Lot#		
Phytoplankton/Periphyton		DTY-QN-C PKD-QN-C				☐ Ice				
Name: Katrin Villinger Brian Davis						Signature: 			Date: 03/31/2022	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION****STRATEGIC MONITORING PLAN FIELD SHEET**

January 2022

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: OYSTER CR @ DIXIE HWY**Date:** 3/31/2022**WIN/Field ID:** 27010056**WBID:** 2499**ENR:** -**Latitude:** 29.88768**County:** ST. JOHNS**Org ID:** 21FLA**Longitude:** -81.32765**Receiving Body of Water:** Upper East Coast**RQ:** 2022-03-28-15

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment	
							☒ Sample Container ☐ Dipper ☐ Syringe	☐ Carboy ☐ Van Dorn ☒ Pole
☒ Katrin Villinger		☒		☒			Depth measured with: Meter Secchi Equipment ID:	
☒ Brian Davis			☒		☒	☒	Collection Method	
							☐ Wading ☒ From Shore ☐ Other _____	
							☐ Canoe/Kayak ☐ Electric Motor ☐ Gasoline Motor	
Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded							Meter ID# STITCH	
Photos: No		Flow: Flow		Tide: Falling		Tide Times: High: 852 Low: 1503		
Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:								
SPIO ID Numbers:								
Notes: OVERCAST, WINDY, SCUM ON WATER SURFACE								
Duplicate Sample								
Time Zone: EST Time: _____ Field ID: N/A							(WIN ID_DUP)	
WIN DMT Activity ID: _____								
Blank								
Time Zone: _____ Time: _____ Field ID: _____							(Blank Type_DDMMYYYY)	
DI Source: _____ Location: _____								
DI Type: _____ Equipment ID: _____								
DI Container (Name/ID):					DI Container Type:			

LIMS EVENT ID: _____ **WIN Import ID:** _____**Enter Field Parameters, Verify Station ID In LIMS DMT:** _____ **QC Station ID, Field Parameters In LIMS DMT:** _____
(Initials/Date) (Initials/Date)**Scan/Save Field Sheets** *KV* **3/31/22** **Migrate Data to WIN:** _____ **Verify Data In WIN:** _____
(Initials/Date) (Initials/Date)



RQ-2022-03-28-15

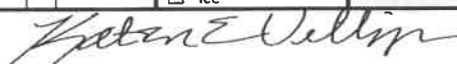
Customer: NE-DIST

Project ID: STRATEGIC MONITORING PLAN

Collected By: Katrin Villinger, Brian Davis

Field Report Prepared By: Katrin Villinger

Sampling Agency: FDEP

Place Label Here						Comments:				
WIN ID/Field ID:  G5NE0603										
Location: San Sebastian River at Shipyards										
Matrix: Marine						(Check one) ☒ GRAB ☐ COMPOSITE				
Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT)
3/31/2022	1145 EST	6.43	86.5	21.5	7.78	0.3	0.9 ☐ VOB (S)	4.698	45245	29.33
	1150 EST	6.42	86.4	21.5	7.77	4.198	Central Lab please use top row for login purposes		45150	29.3
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP Lot # SA1105060 Exp: 4/30/22				☒ Ice ☒ H2SO4*		☒ <2	1	A
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☐ W-HARD Lot # NA1105100 Exp: 6/7/22				☒ Ice ☒ NO3*		☒ <2	1	A
Filtered Nutrients (P125ML)		☐ W-P04-F ☐ Field Filtered 0.45 µm Filter Filter Lot #				☐ Ice Syringe Lot #				
BOD (BP-1L)		☐ OV-BODUNIN				☒ Ice				
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A
Physical/Aggregate (Fresh) (P-1L)		☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHL / W-COLOR / W-SO4-IC / W-				☐ Ice				
Physical/Aggregate (Marine) (P-1L)		☒ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☒ Ice			1	A
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC				Formalin				
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☐ Coli ☐ Coli ☒ Enterococci Contract Lab				☒ Ice			1	A
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ CR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD				☐ Ice				
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice		MCAA Exp.		
Pesticides (BG-500ML) (BG-1L)		W-E8321-DI W-E8321-MS W-PSNP-TQ W-CT-CL-R W-PCL-TQ-R W-CARB-AA (5 ml of MCAA** Buffer Solution) W-TR-SQ-R W-PCB-TQ-R				☐ Ice		MCAA Lot#		
Phytoplankton/Periphyton		DTY-QN-C PKD-QN-C				☐ Ice				
Name: Katrin Villinger Brian Davis						Signature: 			Date: 03/31/2022	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION****STRATEGIC MONITORING PLAN FIELD SHEET**

January 2022

Meter Passed End
of Day CCV
Yes / No**WIN Station Name:** San Sebastian River at Shipyards**Date:** 3/31/2022**WIN/Field ID:** G5NE0603**WBID:** 2491**ENR:** ENRT2**Latitude:** 29.88062**County:** ST. JOHNS**Org ID:** 21FLA**Longitude:** -81.32185**Receiving Body of Water:** Upper East Coast**RQ:** 2022-03-28-15

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Katrin Villinger	☒		☒		
☒	Brian Davis		☒		☒	☒
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☒ Pole
Depth measured with: Meter	
Secchi Equipment ID:	
Collection Method	
☐ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☒ Other Dock	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded

Meter ID# STITCH

Photos: NO **Flow:** FLOW **Tide:** FALLING **Tide Times:** High: 852 Low: 1503

Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:

SPIO ID Numbers:

Notes:
OVERCAST, WINDY

Duplicate Sample	
Time Zone: EST Time: Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:	

Blank	
Time Zone: Time: Field ID:	(Blank Type_DDMMYYYY)
DI Source: Location:	
DI Type: Equipment ID:	

DI Container (Name/ID):	DI Container Type:
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LIMS EVENT ID:

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

(Initials/Date)

QC Station ID, Field Parameters In LIMS DMT:

(Initials/Date)

Scan/Save Field Sheets

KV 3/31/22

Migrate Data to WIN:

(Initials/Date)

Verify Data In WIN:

(Initials/Date)



RQ-2022-03-28-15

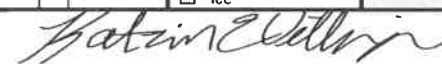
Customer: NE-DIST

Project ID: STRATEGIC MONITORING PLAN

Collected By: Katrin Villinger, Brian Davis

Field Report Prepared By: Katrin Villinger

Sampling Agency: FDEP

Place Label Here						Comments:				
WIN ID/Field ID:  G5NE0604										
Location: San Sebastian at Marina North of SR312										
Matrix: Marine						(Check one) ☒ GRAB ☐ COMPOSITE				
Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT)
3/31/2022	1105 EST	6.68	90.7	21.3	7.84	0.3	0.9 ☐ VOB (S)	5.334	48437	31.6
	1110 EST	6.69	90.7	21.2	7.86	4.834	Central Lab please use top row for login purposes		48695	31.84
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP Lot # SA1308030 Exp: 12/1/22				☒ Ice ☒ H2SO4*		☒ <2	1	A
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☐ W-HARD Lot # NA1105100 Exp: 6/7/22				☒ Ice ☒ NO3*		☒ <2	1	A
Filtered Nutrients (P125ML)		☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter Filter Lot #				☐ Ice Syringe Lot #				
BOD (BP-1L)		☐ OV-BODUNIN				☒ Ice				
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-E / W-TSS / TURBIDITY / W-CHL / W-COLOR / W-SO4-IC / W-				☒ Ice				
Physical/Aggregate (Marine) (P-1L)		☒ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☒ Ice			1	A
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC				☐ Formalin				
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☐ Coli ☐ Coli ☒ Enterococci Contract Lab				☒ Ice			1	A
Molecular (QPCR-P-500ML)		☐ CR-HF183 ☐ PCR-BacR ☐ CR-DG3 ☐ CR-GULL2 ☐ PCR-GFD				☐ Ice				
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice		MCAA Exp.		
Pesticides (BG-500ML) (BG-1L)		W-E8321-DI WE8321-MS W-PSNP-TQ W-CT-CL-R W-PCL-TQ-R W-CARB-AA (5 ml of MCAA** Buffer Solution) W-TR-SQ-R W-PCB-TQ-R				☐ Ice		MCAA Lot#		
Phytoplankton/Periphyton		DTY-QN-C PKD-QN-C				☐ Ice				
Name: Katrin Villinger Brian Davis						Signature: 			Date: 03/31/2022	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PLAN FIELD SHEET

January 2022

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: San Sebastian at Marina North of SR312

Date: 3/31/2022

WIN/Field ID: G5NE0604

WBID: 2491

ENR: ENRT2

Latitude: 29.87192

County: ST. JOHNS

Org ID: 21FLA

Longitude: -81.3165

Receiving Body of Water: Upper East Coast

RQ- 2022-03-28-15

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Katrin Villinger	☒	☒	☒		
☒	Brian Davis		☒		☒	☒
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☒ Pole
Depth measured with: Meter	
Secchi Equipment ID:	
Collection Method	
☐ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☒ Other Dockover	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded

Meter ID# STITCH

Photos: NO Flow: FLOW Tide: FALLING Tide Times: High: 852 Low: 1503

Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:

SPIO ID Numbers:

Notes:
OVERCAST, WINDY

Duplicate Sample	
Time Zone: EST Time: Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:	

Blank	
Time Zone: Time: Field ID:	(Blank Type_DDMMYYYY)
DI Source: Location:	
DI Type: Equipment ID:	

DI Container (Name/ID):	DI Container Type:

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: (Initials/Date)

Scan/Save Field Sheets KV 3/31/22 Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)



RQ-2022-03-28-15

Customer: NE-DIST

Project ID: STRATEGIC MONITORING PLAN

Collected By: Katrin Villinger, Brian Davis

Field Report Prepared By: Katrin Villinger

Sampling Agency: FDEP

Place Label Here						Comments:				
WIN ID/Field ID:  G2NE1216										
Location: Mill Creek at Powerline bridge										
Matrix: Fresh						(Check one) ☒ GRAB ☐ COMPOSITE				
Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT)
3/31/2022	1330 EST	5	56.5	21.3	7.52	0.3	0.06 ☐ VOB (S)	1.171	469.8	0.23
							Central Lab please use top row for login purposes			
	EST									
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)		☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice H2SO4*		<2		
		Lot #			Exp:					
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ NO3*		<2	1	B
		Lot #	NA1105100		Exp:	6/7/22				
Filtered Nutrients (P125ML)		☐ W-P04-F ☐ Field Filtered 0.45 µm Filter				☐ Ice				
		Filter Lot #				Syringe Lot #				
BOD (BP-1L)		☐ OV-BODUNIN				☒ Ice				
Chlorophyll (BP-1L)		☐ CHLSUITE-W				☐ Ice				
Physical/Aggregate (Fresh) (P-1L)		☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CLIC / W-COLOR / W-SO4-IC / W-				☐ Ice				
Physical/Aggregate (Marine) (P-1L)		☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☐ Ice				
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC				Formalin				
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☒ E. Coli ☐ Coli ☐ Enterococci				☒ Ice			1	B
		Contract Lab								
Molecular (QPCR-P-500ML)		☒ CR-HF183 ☒ CR-BacR ☐ CR-DG3				☒ Ice			1	B
		☐ CR-GULL2 ☐ CR-GFD								
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice		MCAA Exp. 2/4/23		
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI ☒ W-E8321-MS ☒ W-PSNP-TQ ☒ W-CT-CL-R				☒ Ice		MCAA Lot# 128343	10	B
		☒ W-PCL-TQ-R ☒ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☐ W-TR-SQ-R								
		☐ W-PCB-TQ-R								
Phytoplankton/Periphyton		DTY-QN-C PKD-QN-C				☐ Ice				
Name: Katrin Villinger Brian Davis						Signature: 			Date: 03/31/2022	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION****STRATEGIC MONITORING PLAN FIELD SHEET**

January 2022

Meter Passed End
of Day CCV
Yes / No**WIN Station Name:** Mill Creek at Powerline bridge**Date:** 3/31/2022**WIN/Field ID:** G2NE1216**WBID:** 2460**ENR:** -**Latitude:** 29.94115**County:** ST. JOHNS**Org ID:** 21FLA**Longitude:** -81.52351**Receiving Body of Water:** Lower St. Johns**RQ:** 2022-03-28-15

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Katrin Villinger	☒	☒	☒	☒	☒	☒	☒	☒
☒	Brian Davis	☒	☒	☒	☒	☒	☒	☒	☒
☐		☐	☐	☐	☐	☐	☐	☐	☐
☐		☐	☐	☐	☐	☐	☐	☐	☐

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☒ Pole
Depth measured with: Meter	
Secchi Equipment ID:	
Collection Method	
☐ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☒ Other Bridge	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded	Meter ID# STITCH
Photos: No Flow: FLOW Tide: FALLING	Tide Times: High: 800 Low: 1430
Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:	
SBIO ID Numbers:	
Notes: OVERCAST, WINDY	

Duplicate Sample	
Time Zone: EST Time: Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:	

Blank	
Time Zone: Time: Field ID:	(Blank Type_DDMMYYYY)
DI Source: Location:	
DI Type: Equipment ID:	

DI Container (Name/ID):	DI Container Type:
--------------------------------	---------------------------

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets *KV* 3/31/22 Migrate Data to WIN: Verify Data In WIN:



RQ-2022-03-28-15

Customer: NE-DIST

Project ID: STRATEGIC MONITORING PLAN

Collected By: Katrin Villinger, Brian Davis

Field Report Prepared By: Katrin Villinger

Sampling Agency: FDEP

Place Label Here						Comments:					
WIN ID/Field ID:  27010088											
Location: San Sebastian River @ Hidden Harbor Marina											
Matrix: Marine						(Check one) ☒ GRAB ☐ COMPOSITE					
Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT)	
3/31/2022	1210 EST	6.41	85.1	21.8	7.73	0.3	0.8 ☐ VOB (S)	6.038	40832	26.17	
	1215 EST	6.37	84.6	21.8	7.73	5.538	Central Lab please use top row for login purposes		41145	26.39	
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group	
Preserved Nutrients (P-500ML)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP Lot # SA1308030 Exp: 12/1/22				☒ Ice ☒ H2SO4*		☒ <2	1	A	
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☐ W-HARD Lot # NA1105100 Exp: 6/7/22				☒ Ice ☒ NO3*		☒ <2	1	A	
Filtered Nutrients (P125ML)		☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter Filter Lot # Syringe Lot #				☐ Ice					
BOD (BP-1L)		☐ OV-BODUNIN				☒ Ice					
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A	
Physical/Aggregate (Fresh) (P-1L)		Alkalinity / W-E / W-TSS / TURBIDITY / W-CHL / W-COLOR / W-SO4-IC / W-TPS				☒ Ice					
Physical/Aggregate (Marine) (P-1L)		☒ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☒ Ice			1	A	
MacroInvertebrates (PJ-2L)		☐ MI-FW-QLDC				Formalin					
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice					
Microbiology (Contract Lab Bottle)		☐ Coli ☐ Coli ☒ Enterococci Contract Lab				☒ Ice			1	A	
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ CR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD				☐ Ice					
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice		MCAA Exp.			
Pesticides (BG-500ML) (BG-1L)		W-E8321-DI WE8321-MS W-PSNP-TQ W-CT-CL-R W-PCL-TQ-R W-CARB-AA (5 ml of MCAA** Buffer Solution) W-TR-SQ-R W-PCB-TQ-R				☐ Ice		MCAA Lot#			
Phytoplankton/Periphyton		DTY-QN-C PKD-QN-C				☐ Ice					
Name: Katrin Villinger Brian Davis					Signature: 					Date: 03/31/2022	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION****STRATEGIC MONITORING PLAN FIELD SHEET**

January 2022

Meter Passed End
of Day CCV
Yes / No**WIN Station Name:** San Sebastian River @ Hidden Harbor Marina**Date:** 3/31/2022**WIN/Field ID:** 27010088**WBID:** 2491**ENR:** ENRT2**Latitude:** 29.88915**County:** ST. JOHNS**Org ID:** 21FLA**Longitude:** -81.3218**Receiving Body of Water:** Upper East Coast**RQ:** 2022-03-28-15

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Katrin Villinger	☒		☒		
☒	Brian Davis		☒		☒	☒
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☒ Pole
Depth measured with: Meter	
Secchi Equipment ID:	

Collection Method	
☐ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☒ Other Dock	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded	Meter ID# STITCH
Photos: No Flow: FLOW Tide: FALLING	Tide Times: High: 852 Low: 1503
Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:	
SBIO ID Numbers:	
Notes: OVERCAST, WINDY	

Duplicate Sample	
Time Zone: EST Time: Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:	

Blank	
Time Zone: Time: Field ID:	(Blank Type_DDMMYYYY)
DI Source: Location:	
DI Type: Equipment ID:	

DI Container (Name/ID):	DI Container Type:
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LIMS EVENT ID:

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

(Initials/Date)

(Initials/Date)

Scan/Save Field Sheets

KV 3/31/22

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

Cooler Packing Worksheet for Request: RQ-2022-03-28-15

St. Augustine

Ship Cooler On: 3/18/2022

Customer/Project: NE-DIST/SMP

Assigned To: MCCOY_I

Requester: Jeremy M. Parrish

Priority: 3

904-256-1693
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

Please return
packing list with
sample submittal
forms.

Comments:

Group A: (Surf-Salt) Nutrients, Metals, Bacteria

Group B: (Surf.Fresh) Pesticide, Bacteria, Markers

Group C: (Surf.-Salt) Nutrients, Bacteria

#####

Buffer Solution for W-CARB-AA Bottle Needed

#####

Requested Analyses:

Bottle Group: A

of Sites: 3

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 00082060

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-F

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO₃/L

Turbidity in aqueous matrices

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 3 Preservation: ICE

Lot # 1349942

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-250ML-WO-THI

Qty: 3 Preservation: ICE

Lot # L21256

Description: 250 ml Sterilized no tablet

Analysis

Description

Container ID: P-500ML

Qty: 3 Preservation: HNO3

Lot # 00082055

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 3 Preservation: ICE And H2SO4

Lot # 00082055

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Bottle Group: B

of Sites: 1

Container ID: P-250ML-WO-THI

Qty: 1 Preservation: ICE

Lot # L21256

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: QPCR-P-500ML

Qty: 1 Preservation: ICE

Lot # 00077419

Description: 500ml Sterile Nalgene

Analysis

PCR-BACR

PCR-DG3

PCR-HF183

Description

Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction

Detection and quantification of canine-specific DG3 Bacteroides genetic marker with quantitative polymerase chain reaction

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Container ID: BG-500ML

Qty: 1 Preservation: CH2CICOOH and Ice

Lot # 00082526

Description: Brown Glass Bottle 500ML *FILL Completely*

Affix BLUE dot to container.

Analysis

W-CARB-AA

Description

Carbamates in water matrices by HPLC/MS/MS

Container ID: BG-500ML FILL TO TOP Qty: 4 Preservation: ICE

Lot # 00082526

Description: Brown Glass Bottle 500ML *Fill Completely* Affix BLUE dot to container.

Analysis

W-CT-CI-R
W-PCL-TQ-R

Description

Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization
Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS

Container ID: BG-500ML Qty: 1 Preservation: ICE

Lot # 00082526

Description: Brown Glass Bottle 500ML *FILL Completely* Affix BLUE dot to container.

Analysis

W-E8321-DI
W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML Qty: 1 Preservation: HNO3

Lot # 00082055

Description: Plastic Bottle 500 mL Affix RED nitric acid dot to container.

Analysis

W-HARD
W-ICP
W-ICPMS

Description

Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3
Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: BG-1L Qty: 4 Preservation: ICE

Lot # 00075668

Description: Brown Glass Bottle 1L Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS

Bottle Group: C

of Sites: 1

Container ID: P-1L Qty: 1 Preservation: ICE

Lot # 00082060

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-F
W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L
Turbidity in aqueous matrices
Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1349942

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-250ML-WO-THI

Qty: 1 Preservation: ICE

Lot # L21256

Description: 250 ml Sterilized no tablet

Analysis

ENT-24-QT

Description

Enterococci by Enterolert Quanti-Tray method - non-chlorinated water systems

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00082055

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Cooler Packed By: IM

Number of Coolers: 3

Date: 3/16/22

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags/Zip Ties
- ☐ Acid Labels (sets of 24)

If Preservation Included:

ID		Exp	Lot #
ID	MCAA BUFFER SOL.	Exp	Lot #
ID	SER: # 128343	Exp	Lot #
ID	EXP: 02/04/2023	Exp	Lot #
ID		Exp	Lot #
ID		Exp	Lot #

PLEASE RETURN ALL COOLERS FOR RQ-2022-03-28-15

Date of Request: 25-FEB-2022
 Created By: PARRISH_J On: 25-FEB-2022
 Modified By: JASROTIA_P On: 08-MAR-2022
 Customer: NE-DIST
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District: Northeast District
 Event Description: St.Augustine

Send Coolers To:

Phone: 904-256-1693
 8800 Baymeadows Way West
 Suite 100
 Jacksonville, FL 32256
 Attn: Jeremy Parrish
 Cooler Ship EMail: Jeremy.M.Parrish@floridadep.gov

Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: AYRES_J On: 08-MAR-2022
 Biology Request Reviewed By: JASROTIA_P On: 08-MAR-2022
 Sampling Kit Required: YES Ship on: 18-MAR-2022
 Sampling Kit Shipped: YES On: 16-MAR-2022
 Sampling Kit Packed By: MCCOY_I
 Preservatives Needed: YES
 Date to Receive Samples: 28-MAR-2022
 Logged In By:

Send Final Report To:

8800 Baymeadows Way West
 Suite 100
 Jacksonville, FL 32256
 Attn: Jeremy Parrish
 Report Notification EMail: Jeremy.M.Parrish@floridadep.gov

Comments: Group A: (Surf-Salt) Nutrients, Metals, Bacteria
 Group B:(Surf.Fresh)Pesticide, Bacteria, Markers
 Group C:(Surf.-Salt)Nutrients, Bacteria

#####

Buffer Solution for W-CARB-AA Bottle Needed

#####

Bottle Group A (Water) With 3 Samples:

Bottle Type: P-1L	Number of Bottles: 3	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO ₃ /L
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-F	Template: DEFAULT	(SM 4500-F- C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-TSS	Template: DEFAULT	(SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample
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: P-250ML-WO-THI	Number of Bottles: 3	Preserved With: ICE
ENT-24-QT	Template: DEFAULT	(Enterolert/QT) Enterococci by Enterolert Quanti-Tray method - non-chlorinated water systems
Bottle Type: P-500ML	Number of Bottles: 3	Preserved With: HNO ₃
W-ICP	Template:	(EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
Calcium		
Iron		
Magnesium		
Strontium		
Tin		
Vanadium		
Zinc		

Bottle Group A (Water) With 3 Samples:

Bottle Type: P-500ML	Number of Bottles: 3	Preserved With: HNO3
W-ICPMS	Template:	(EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

*Strontium
Aluminum
Antimony
Arsenic
Beryllium
Cadmium
Chromium
Cobalt
Copper
Lead
Manganese
Molybdenum
Nickel
Selenium
Silver

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
W-TOC	Template: DEFAULT	(SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices

Bottle Group B (Water) With 1 Samples:

Bottle Type: BG-500ML	Number of Bottles: 1	Preserved With: ICE
W-E8321-DI	Template: DEFAULT	(EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
W-E8321-MS	Template: SMP	(EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
Bottle Type: P-500ML	Number of Bottles: 1	Preserved With: HNO3
W-HARD	Template: DEFAULT	(SM 2340 B-2011) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3
Hardness		
W-ICP	Template: SMP-FRESH	(EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Calcium
Iron
Magnesium
Potassium
Sodium
Strontium
Tin
Titanium
Vanadium
Zinc

W-ICPMS	Template: DEFAULT	(EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects
---------	-------------------	---

*Boron
Aluminum
Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Cobalt
Copper
Lead
Manganese
Molybdenum
Nickel
Selenium
Silver

Bottle Group B (Water) With 1 Samples:

Bottle Type: P-500ML W-ICPMS	Template: DEFAULT	Number of Bottles: 1	Preserved With: HNO3 (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects
Thallium			
Bottle Type: BG-1L W-PSNP-TQ	Template: DEFAULT	Number of Bottles: 4	Preserved With: ICE (EPA 8270E) Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS
Bottle Type: P-250ML-WO-THI ECOLI-18QT	Template: DEFAULT	Number of Bottles: 1	Preserved With: ICE (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems
Bottle Type: QPCR-P-500ML PCR-BACR	Template: DEFAULT	Number of Bottles: 1	Preserved With: ICE (SOP-PCR-1.4) Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction
PCR-DG3	Template: DEFAULT		(SOP-PCR-1.5) Detection and quantification of canine-specific DG3 Bacteroides genetic marker with quantitative polymerase chain reaction
PCR-HF183	Template: DEFAULT		(SOP-PCR-1.0) Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction
Bottle Type: BG-500ML W-CARB-AA	Template: DEFAULT	Number of Bottles: 1	Preserved With: CH2ClCOOH and Ice (EPA 8321B) Carbamates in water matrices by HPLC/MS/MS
Bottle Type: BG-500ML FILL TO W-CT-CI-R	Template: DEFAULT	Number of Bottles: 4	Preserved With: ICE (EPA 8276) Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization
W-PCL-TQ-R	Template: DEFAULT		(EPA 8270E) Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS

Bottle Group C (Water) With 1 Samples:

Bottle Type: P-1L ALKALINITY	Template: DEFAULT	Number of Bottles: 1	Preserved With: ICE (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Template: DEFAULT		(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-F	Template: DEFAULT		(SM 4500-F- C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-TSS	Template: DEFAULT		(SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample
Bottle Type: BP-1L CHLSUITE-W	Template: DEFAULT	Number of Bottles: 1	Preserved With: ICE (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: P-250ML-WO-THI ENT-24-QT	Template: DEFAULT	Number of Bottles: 1	Preserved With: ICE (Enterolert/QT) Enterococci by Enterolert Quanti-Tray method - non-chlorinated water systems
Bottle Type: P-500ML W-NH3	Template: DEFAULT	Number of Bottles: 1	Preserved With: ICE And H2SO4 (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
W-TOC	Template: DEFAULT		(SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices

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