



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

PAGE 1 OF 13

Data Qualified?
Yes / No

STORET Station Name: St. Marks River at Channel Marker 22

Date: 9/8/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0008

WBID: 793A

Latitude: 30.0929

(Decimal Degrees)

County: Wakulla

RQ - 2016-08-29-21

ORG ID: 21FLWQA

Longitude: -84.1939

(Decimal Degrees)

Receiving Body of Water: Gulf of Mexico

Field ID: G1WA0008_09082016

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection
Ben Ralys			X				X	
Ray Stuart		X		X	X	X		X

Sampling Equipment		
☐ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Equipment ID		

Collection Method	
☐ Wading	☐ Via Boat
☐ From Shore	☐ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☒ Gasoline Motor

Water Level: Dry / Low / <u>Normal</u> / High / Flooded	Matrix: Fresh / <u>Marine</u> / DI
Meter ID# Biology #2	Photos: Yes / <u>No</u>
	Tide Falling: <u>Yes</u> / No / NA

Field Sample

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
EST	10:45am	0.3	NA	4.78	59.6	7.36	4.09	NA Current too strong	7432	25.25
CEN										

Biological Samples Collected:		<u>None</u>	HA	SCI	LVS	RPS	LVI	Other
Parameter Suite	Parameter Methods		Preservation		Acid Lot#	Expiration	pH Check	
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP		☒ Ice ☒ H2SO4		6168040	6/16/17	☒ <2	
Metals	☐ W-ICPMS ☐ W-ICP		☐ Ice ☐ HNO2				☐ <2	
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter		☒ Ice					
Chlorophyll	☒ CHLSUITE-W		☒ Ice					
Physical/Aggregate (Fresh)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-Cl / W-COLOR / W-SO4-IC / W-TDS		☐ Ice					
Physical/Aggregate (Marine)	☒ Alkalinity / W-F / W-TSS / TURBIDITY		☒ Ice					
Macroinvertebrates	☐ MI-FW-QLDC		☐ Formalin					
Microbiology	☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR		☐ Ice					
Periphyton	☐ ALGAE-ID		☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH		☐ Ice ☐ Other					

Place (s) Here

Portals
1:1
Sulfuric Acid
SA-6168040
EXP: 06/16/17
Warning

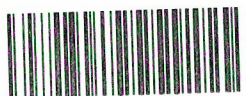
QA/QC Sample Information

Duplicate

Time Zone: <u>EST</u> CEN		Sample Depth (m): <u>0.3</u>		Field ID: <u>G1WA0008_09082016</u>	
Time: <u>10:45 AM</u>		Total Depth (m): <u>NA</u>			
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H ₂ SO ₄	6209120	7/24/17	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	Contains 1:1 Sulfuric Acid SA-6209120 EXP: 07/27/17 Warning! See SDS		
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine)	☒ Alkalinity / W-F / W-TSS / TURBIDITY	☒ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Blank

Time Zone: <u>EST</u> CEN		Time: <u>2:25</u>		Field ID: _____		Location: _____	
☒ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank		Equipment ID: _____					
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check		
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H ₂ SO ₄	6168040	6/16/17	☒ <2		
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ <2		
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	Place Preservative Sticker(s) Here (If Available)				
Chlorophyll	☒ CHLSUITE-W	☒ Ice					
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice					
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice					
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR	☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other					

Notes:		 G1WA0008 88 Sept 2016 St. Marks River at Channel Marker 22	
Signature: <u>[Signature]</u>		Date: <u>9/9/16</u>	

Field Parameters Entered into LIMS: <u>CM 9-12-16</u>	Field Parameters QC in LIMS: _____
(Initials/Date)	(Initials/Date)
Date Migrated to STORET: _____	Field Sheets Scanned/Saved: _____
(Initials/Date)	(Initials/Date)

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this name.

Meter **Biology #2**

RQ- **2016-08-29-21**

Project **SMP**

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification **06/03/2016**

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	9/8/16	7:30	21.81	8.77	8.77	100.0	51.2	-	P	L
ICV	Ben Ralys	9/8/16	7:30	21.83	8.77	8.78	100.0	51.2	-	P	L
CCV	Ben Ralys	9/9/16	9:12	22.22	8.77	8.77	100.0	50.2	-	P	L
CCV				24.87	8.71						

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	9/8/16	7:32	160330D	4/2017	1,000	1,000	P	L
ICV	Ben Ralys	9/8/16	7:34	160330D	4/2017	1,000	1,000	P	L
CCV	Ben Ralys	9/9/16	9:15	160330E	4/2017	50,000	49,839	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	9/8/16	7:36	160330B	10/2017	7.0	6.99	-19.9	P	L
Calibr.	Ben Ralys	9/8/16	7:38	160330A	4/2017	4.0	3.99	158.5	P	L
Calibr.	Ben Ralys	9/8/16	7:40	160330C	10/2017	10.0	9.96	-187.6	P	L
ICV	Ben Ralys	9/8/16	7:41	160330C	10/2017	10.0	9.96	-187.4	P	L
CCV	Ben Ralys	9/9/16	9:18	160330A	4/2017	4.0	3.98	157.3	P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification _____

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

East River, St. Marks River, Moriah Creek and Wakulla River

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By: B. Ralys

Project ID: SMP

Collected By: Ben Ralys, Ray Stuart

Sampling Agency: FDEP

Location Wakulla River Below US 98		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/8/2016 Time 9:45am		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s) (See pg 2)	
Field ID GIWA0028-09082016		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 3.88		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		B	
STORET # GIWA0028		Temp (C) 21.45		pH 7.45		Sample Depth 0.3		Sp. Conductance (umho/cm) 295			
Latitude 30.17607		☒ dd ☐ dms		Longitude -84.2429		☒ dd ☐ dms		Salinity (ppt) 0.14		Comments	
Location St. Marks River at channel Marker 60		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/8/2016 Time 10:15am		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID GIWA0055-09082016		Matrix (type, e.g., Salt, Fresh, etc) SALT		Diss. Oxygen 4.17		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
STORET # GIWA0055		Temp (C) 23.19		pH 7.31		Sample Depth 0.3		Sp. Conductance (umho/cm) 575			
Latitude 30.1447		☒ dd ☐ dms		Longitude -84.2088		☒ dd ☐ dms		Salinity (ppt) 0.27		Comments	
Location St. Marks River at channel Marker 22		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/8/2016 Time 10:45am		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID GIWA0008-09082016		Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 4.78		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
STORET # GIWA0008		Temp (C) 25.25		pH 7.36		Sample Depth 0.3		Sp. Conductance (umho/cm) 7432			
Latitude 30.0929		☒ dd ☐ dms		Longitude -84.1939		☒ dd ☐ dms		Salinity (ppt) 4.09		Comments	
Location Mouth of East River		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/8/2016 Time 11:15am		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID GIWA0011-09082016		Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 4.81		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
STORET # GIWA0011		Temp (C) 28.26		pH 7.44		Sample Depth 0.3		Sp. Conductance (umho/cm) 19876			
Latitude 30.0893		☒ dd ☐ dms		Longitude -84.1774		☒ dd ☐ dms		Salinity (ppt) 12.1		Comments	

Relinquished By Ben Ralys	Date/Time 9/8/16 3:21	Shipping Method hand delivered	Number of Coolers Shipped:	Received By: PLW	Date/Time 9/8/16 / 1521
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East River, St. Marks River, Moriah Creek and Wakulla River

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By: B. Ralys

Project ID: SMP

Collected By: Ben Ralys, Ray Stuart

Sampling Agency: FDEP

Location East River Downstream of Boggy Bayou		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/8/2016 Time 11:33am	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Field ID GIWA0056 - 09082016		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 4.02	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
STORET # GIWA0056		Temp (C) 27.71	pH 6.97	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 8667
Latitude 30.0972	☒ dd ☐ dms	Longitude -84.1752	☒ dd ☐ dms	Salinity (ppt) 4.64	Comments	
Location Moriah Creek 100m upstream of Newport Rd.		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/8/2016 Time	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID GIWA0057 - 09082016		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
STORET # GIWA0057		Temp (C)	pH	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm)
Latitude 30.1857	☒ dd ☐ dms	Longitude -84.1929	☒ dd ☐ dms	Salinity (ppt)	Comments Not Sampled Water levels Not representative of ambient conditions.	
Location Moriah Creek at St. Marks River		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12:55pm	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID GIWA0037 - 09082016		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 5.34	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
STORET # GIWA0037		Temp (C) 24.32	pH 7.27	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 263
Latitude 30.18194	☒ dd ☐ dms	Longitude -84.18967	☒ dd ☐ dms	Salinity (ppt) 0.12	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)
STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments	

Relinquished By: Ben Ralys	Date/Time 9/8/2016 3:21	Shipping Method hand delivered	Number of Coolers Shipped:	Received By: RW	Date/Time 9/8/16/1521
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East River, St. Marks River, Moriah Creek and Wakulla River

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

Project ID: SMP

Collected By:

Sampling Agency:

Location <i>St Marks River at Channel Marker 22</i>		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <i>9/8/2016</i> Time <i>10:45am</i>		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s) (See pg 2)	
Field ID <i>GIWA0008-09082016</i>		Matrix (type, e.g., <u>Salt</u> , Fresh, etc)		Diss. Oxygen <i>4.78</i>		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		<i>E</i>	
STORET # <i>GIWA0008</i>		Temp (C) <i>25.25</i>		pH <i>7.36</i>		Sample Depth <i>0.3</i>		☐ ft ☒ m			
Latitude <i>30.0929</i>		☒ dd ☐ dms		Longitude <i>-84.1939</i>		☒ dd ☐ dms		Salinity (ppt) <i>4.09</i>		Comments <i>Duplicate</i>	
Location <i>Moriah Creek at St Marks River</i>		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <i>9/8/2016</i> Time <i>12:55pm</i>		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID <i>GIWA0037-09082016</i>		Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen <i>5.34</i>		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		<i>D</i>	
STORET # <i>GIWA0037</i>		Temp (C) <i>24.32</i>		pH <i>7.27</i>		Sample Depth <i>0.3</i>		☐ ft ☒ m			
Latitude <i>30.18194</i>		☒ dd ☐ dms		Longitude <i>-84.18967</i>		☒ dd ☐ dms		Salinity (ppt) <i>0.12</i>		Comments <i>Duplicate</i>	
Location <i>Field Blank</i>		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <i>9/8/2016</i> Time <i>2:25pm</i>		☒ 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)		<i>C</i>	
STORET #		Temp (C)		pH		Sample Depth		☐ ft ☐ m			
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)			
STORET #		Temp (C)		pH		Sample Depth		☐ ft ☐ m			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	

Relinquished By: <i>Ben Ralys</i>	Date/Time <i>9/8/2016 3:21</i>	Shipping Method <i>hand delivered</i>	Number of Coolers Shipped:	Received By: <i>fw</i>	Date/Time <i>9/8/16/1521</i>
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Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 3	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab	3
Group: C	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab	1
Group: D	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: D	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: D	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	1

Cooler Packing Worksheet for Request: RQ-2016-08-29-21
East River, St. Marks River, Moriah Creek and Wakulla River

Ship Cooler On: 8/15/2016
Customer/Project: WQAP/SMP

Requester: Benjamin Ralys
Priority: 3

850-245-8443
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400
Attn: Ben Ralys

Comments:

Bottle Group A: Saltwater chemistry suite
Bottle Group B: Freshwater chemistry suite
Bottle Group C: Field Blank
Bottle Group D: 1 Duplicate for freshwater chemistry
Bottle Group E: 1 Duplicate for saltwater chemistry

1 - case of Nitric Acid
3 - liters of DI water for blank

Requested Analyses:

Bottle Group: A

of Sites: 4

Container ID: P-1L

Qty: 4 Preservation: ICE

Lot # 00064523

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

Container ID: BP-1L

Qty: 4 Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 4 Preservation: ICE And H2SO4

Lot # 00064947

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

Container ID: P-125ML

Qty: 4 Preservation: ICE-FLTR

Lot # 00065090

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B

of Sites: 3

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 00064523

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
W-TDS
W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L
Turbidity in aqueous matrices
Chloride in aqueous matrices
True Color measured at 450 nm
Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Sulfate in aqueous matrices
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 3 Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 3 Preservation: ICE And H2SO4

Lot # 00064947

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

Container ID: P-125ML

Qty: 3 Preservation: ICE-FLTR

Lot # 00065090

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: C

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00064523

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
W-TDS
W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L
Turbidity in aqueous matrices
Chloride in aqueous matrices
True Color measured at 450 nm
Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Sulfate in aqueous matrices
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00064947

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

Container ID: P-125ML

Qty: 1 Preservation: ICE-FLTR

Lot # 00065090

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: D

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00064523

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
W-TDS
W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L
Turbidity in aqueous matrices
Chloride in aqueous matrices
True Color measured at 450 nm
Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Sulfate in aqueous matrices
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00064947

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

Container ID: P-125ML

Qty: 1 Preservation: ICE-FLTR

Lot # 00065090

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: E

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00064523

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

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00064947

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

Description

Ammonia in aqueous matrices as mg N/L

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

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

Container ID: P-125ML

Qty: 1 Preservation: ICE-FLTR

Lot # 00065090

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: SK Date: 8-19-16

DEP Cooler ID #(s): 3 coolers

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle (1 per cooler)
- ☐ FedEx Bills, if applicable (1 per cooler)
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID Nitric Acid exp. 8-05-16 Lot # NA 6218060
ID _____ Lot # _____
ID _____ Lot # _____
ID _____ Lot # _____
ID _____ Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-08-29-21