

From: Sewell, Matthew
Sent: Thursday, July 14, 2016 12:43 PM
To: Holland, Kathryn <Kathryn.Holland@dep.state.fl.us>
Cc: Watts, John <John.Watts@dep.state.fl.us>; White, Ramsey <Ramsey.White@dep.state.fl.us>
Subject: RE: RQ-2016-06-13-33

No, metals analyzed it properly. The samplers really messed this up. Let me start over...

If we take the assumption

All the samples taken at 12:15 should be associated with G1SE0002. All samples taken at 13:20 please associate with G1SE0016.

Does this clear it up?

From: Holland, Kathryn
Sent: Thursday, July 14, 2016 9:49 AM
To: Sewell, Matthew <Matthew.Sewell@dep.state.fl.us>
Cc: Watts, John <John.Watts@dep.state.fl.us>; White, Ramsey <Ramsey.White@dep.state.fl.us>
Subject: RE: RQ-2016-06-13-33

Matt,

Please see the note below from our metals chemist and let me know how to proceed:

"Metals analyzed the sample that was collected at 12:15, which is G1SE0002. But, the LIMS field ID for this sample is G1SE0016 with a collection time of 13:20.

I'm still not sure if Metals has analyzed the correct sample. The original field sheet indicates sample G1SE0016 was for bottle group B, which includes Metals. The note says bottle group A was accidentally used to collect the sample. And another note says the G1SE0016 site needs all analyses from bottle group B, which includes Metals. Should Metals have analyzed G1SE0016?"

Kathryn

From: Sewell, Matthew
Sent: Thursday, July 14, 2016 8:41 AM
To: Holland, Kathryn <Kathryn.Holland@dep.state.fl.us>
Cc: Watts, John <John.Watts@dep.state.fl.us>; White, Ramsey <Ramsey.White@dep.state.fl.us>
Subject: RE: RQ-2016-06-13-33

Bottle group B should be a clone of Bottle group A with added Pesticide analysis (several different suites)

Basically what happened is: at the "Henry Creek" site, the plastic bottles from bottle group B were used instead of Bottle group A accidentally. Organics were NOT sampled at this site.

At site "Martin Hwy Canal" the plastic bottles from bottle group A were combined with the Glass amber bottles from Bottle group B. (the bottle group B organics are needed at this site and were collected here and paired up with the remaining plastic bottles with bottle group A labels on them)

Hope this helps. If not a phone call may make it more clear.

From: Holland, Kathryn

Sent: Thursday, July 14, 2016 7:52 AM

To: Sewell, Matthew <Matthew.Sewell@dep.state.fl.us>

Cc: Watts, John <John.Watts@dep.state.fl.us>; White, Ramsey <Ramsey.White@dep.state.fl.us>

Subject: RQ-2016-06-13-33

Good morning,

Based on some of the chemistry calculations and results we are seeing for the attached sampling event, we're having a bit of a time trying to determine which results go with which sites. Nutrients appear to match your notes but metals do not. Results from organics don't seem to match any of the notes, exactly.

What would help us would be if you'd send us a new submittal form, filled out the way the samples were actually submitted. Maybe breaking it down by bottle group, one entry per site per bottle group would help?

Thanks,

Kathryn

Kathryn Holland
Florida Department of Environmental Protection
Central Laboratory, Scientific Services Support
(850) 245-8095

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: SE-DIST

Requester: Matt Sewell

Field Report Prepared By: _____

Project ID: SMP

Collected By: _____

Sampling Agency: _____

Location <i>Henry Creek @ SR710</i>		☐ Comp ☐ Grab	Collection (comp begin or grab) Date <i>6/2/16</i> Time <i>6:15</i>	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2) <i>Plastic Bottles from B</i>
Field ID <i>G1SE0002</i>		Matrix (type, e.g., Salt, Fresh, etc) <i>Fresh</i>		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			
Location <i>Martin Hwy Canal</i>		☐ Comp ☐ Grab	Collection (comp begin or grab) Date <i>6/2/16</i> Time <i>1320</i>	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s) <i>Plastic bottles from A + Glass bottles from B</i>
Field ID <i>G1SE0016</i>		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			
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			
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:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
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SMP-Myrtle/L-63

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: SE-DIST

Requester: Matt Sewell

Field Report Prepared By:

Ashley Hurley

Project ID: SMP

Collected By:

James Pitts

Sampling Agency:

21 FLWPB

Location Harry Creek @ SR 710		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6/21/16 Time 12:15	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2) A	
Field ID G1SE0002		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 4.7	☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)
STORET # G1SE0002		Temp (C) 24.0	pH 6.5	Sample Depth 0.3	☐ ft ☒ m		Sp. Conductance (umho/cm) 953
Latitude 27.175047	☒ dd ☐ dms	Longitude -80.701721	☒ dd ☐ dms	Salinity (ppt) 0.47	Comments Plastic bottles mixed up (used Bottle Group B)		
Location Martin Hwy Canal 100m E of Meador Dairy Rd		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6/21/16 Time 13:20	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s) B	
Field ID G1SE0016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 5.3	☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)
STORET # G1SE0016		Temp (C) 25.6	pH 6.7	Sample Depth 0.3	☐ ft ☒ m		Sp. Conductance (umho/cm) 273
Latitude 27.1623805	☒ dd ☐ dms	Longitude -80.67305	☒ dd ☐ dms	Salinity (ppt) 0.13	Comments Plastic bottles mixed up (used bottle group A)		
Location ↑ this site needs All		☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____	☐ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s)	
Field ID Analysis from Bottle Group "B"		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)
STORET # (Resteader)		Temp (C)	pH	Sample Depth	☐ ft ☐ m		Sp. Conductance (umho/cm)
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments Email or call IF questions matthew.sewell@dep or 772-828-6519		
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: [Signature]	Date/Time 6/21/16 11:00	Shipping Method Fedex	Number of Coolers Shipped: 2	Received By: SK	Date/Time 6/22/16/10:10
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Group: A	Bottle Type:	P-1L	# of Bottles: 1	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: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	CHLSUITE-W					
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	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: 1	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab _____
	W-PO4-F					
Group: B	Bottle Type:	P-1L	# of Bottles: 1	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: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	CHLSUITE-W					
Group: B	Bottle Type:	BG-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	W-AHERB-AA					
	W-UHERB-AA					

Date of Request: 25-MAY-2016
 Created By: SEWELL_M On: 25-MAY-2016
 Modified By: MATTHEWS_D On: 27-MAY-2016
 Customer: SE-DIST
 Project: SMP
 Division:
 District: Southeast District
 Sampling Event: SMP-Myrtle/L-63

Send Coolers To:

Phone: (772) 380-5572
 FL Dept. of Environmental Protection
 2199 South Rock Road
 Fort Pierce, FL 34945
 Attn: Matthew Sewell

Program Module Number: 1306
 Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 27-MAY-2016
 Biology Request Reviewed By: MATTHEWS_D On: 27-MAY-2016
 Sampling Kit Required: YES Ship on: 03-JUN-2016
 Sampling Kit Shipped: YES On: 01-JUN-2016
 Sampling Kit Packed By: BOWDEN_M
 Preservatives Needed: NO
 Date to Receive Samples: 15-JUN-2016
 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: Bottle group A = L-63
 Bottle group B = Myrtle Slough

Bottle Group A (Water) With 1 Samples:

Bottle Type: P-1L	Number of Bottles: 1	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/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
Bottle Type: BP-1L	Number of Bottles: 1	Preserved With: ICE
CHLSUITE-W	Template:	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Bottle Type: P-500ML	Number of Bottles: 1	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-00) Nonpurgeable Organic Carbon in aqueous matrices
Bottle Type: P-125ML	Number of Bottles: 1	Preserved With: ICE-FLTR
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 1 Samples:

Bottle Type: BG-1L	Number of Bottles: 4	Preserved With: ICE
W-PC-AA-SF	Template:	(DEP SOP: GC-011-5 (based on EPA 608 and 617)) Organochlorine pesticides (low levels) in water matrices by GC/ECD.
Bottle Type: P-125ML	Number of Bottles: 1	Preserved With: ICE-FLTR
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 1 Samples:

Bottle Type: BG-1L	Number of Bottles: 4	Preserved With: ICE
W-PSNP-TQ	Template:	(EPA 8270D) Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS
Bottle Type: BG-1L	Number of Bottles: 1	Preserved With: ICE
W-PYR-AA-R	Template: DEFAULT	(EPA 8321B) Pyraclostrobin in water matrices by HPLC/MS/MS
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
Bottle Type: BP-1L	Number of Bottles: 1	Preserved With: ICE
CHLSUITE-W	Template:	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Bottle Type: BG-1L	Number of Bottles: 1	Preserved With: ICE
W-AHERB-AA	Template: DEFAULT	(USGS O-2060-01) Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS
W-UHERB-AA	Template:	(USGS O-2060-01) Urea herbicides and other chemicals in water matrices by HPLC/MS/MS
Bottle Type: P-500ML	Number of Bottles: 1	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		
Chromium		
Iron		
Magnesium		
Nickel		
Potassium		
Sodium		
Zinc		
W-ICPMS	Template:	(EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects
Arsenic		
Cadmium		
Copper		
Lead		
Silver		
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

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

Log-in Checklist

RQ- 2016-06-1413-33

Shipping Method: Fedex

Date/Time of Receipt: 6-22-16/10:10

Cooler ID	Cooler Temperature*	No. Sample Containers in Cooler	Evidence Tape				Tracking # (fill out only if waybill copy is damaged)
			Present?		*Intact?		
Yes	No	Yes	No				
Red	0.4	14			✓		810019178424
Red	0.7	8			✓		810-783412599320

*If the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX), or if Evidence Seal is damaged, identify the containers in the affected cooler(s) on back of this form.

**Note: If "No" is checked in any of the fields below, fill out the back of this form with additional details (Field ID, Test IDs, etc.) and generate an NCR.

**Chain of Custody/ Field Sheet(s) Included? Yes ✓ No

CONTAINER CHECK

**Evidence Tape on Bottles? Yes No ✓ If yes, is it intact? Yes No

**Caps on tight? Yes ✓ No **Containers intact? Yes ✓ No

**Sufficient Sample Volume: Yes ✓ No

CHLORINE CHECK (Blue dot on container)

Check the Box marked "Yes" or "No" for the Presence of Chlorine. If Cl detected, an NCR is required.					
Analysis	Yes	No	Analysis	Yes	No
W-1,4 DIOX			W-PC-AA-SF		<u>✓</u>
W-AHERB-AA (-AHB-AA-R)		<u>✓</u>	W-PCL-SQ (-R)		
W-BNA (-625, -R)			W-PDQUAT		
W-CARB-AA (-CAB-AA-R)			W-PESTNP-R		
W-ENDO-AA			W-PSCL-TQ		
W-GLYPH			W-PSNP-TQ		<u>✓</u>
W-NP-AA-SF			W-PST-CL-R		
W-PAH (-R)			W-TR-TQ		
W-PCB-R					

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

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

**W-1-4-DIOX (Green dot on container) preserved to pH < 4.0? Yes No NA ✓ Init: SK

Coolers Unpacked/Checked by: SK Date: 6-22-16

NCRs (Y/N)? N

Event ID: SE-DIST-2016-06-22-01

NCR #

Log-in Checklist

Samples with Incorrect pH Preservation or presence of Chlorine

Field ID	Bottle Test ID(s)	pH / Cl	Action Taken

Samples in Coolers with Incorrect Preservation or Damaged Evidence Tape

Cooler ID	Field ID	Bottle Test ID(s)

Bottles Not Intact

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

Samples with Insufficient Volume for Analyses

Field ID	Bottle Test ID(s)	Action Taken

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____ No____

If 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: _____

Additional Comments: