

From: Wright, Colin
To: [Thompson, Michael](#)
Subject: RE: No Nickel, Chromium Results RQ-2018-01-29-33
Date: Friday, March 30, 2018 9:02:00 AM

Yes, we should re-report with the missing data. (And we should review our process and see if we can make this kind of error less likely to occur in the future, of course.)

Colin

From: Thompson, Michael
Sent: Friday, March 30, 2018 8:23 AM
To: Wright, Colin <Colin.Wright@dep.state.fl.us>
Subject: FW: No Nickel, Chromium Results RQ-2018-01-29-33

Colin, Cr and Ni are missing from the WAS-SECT-2018-01-31-01 event. We have acceptable Cr and Ni data to report. Do you want to re-issue the report?

Mike

From: Musson, Curtis
Sent: Tuesday, March 27, 2018 12:10 PM
To: Thompson, Michael <Michael.Thompson@dep.state.fl.us>
Subject: RE: No Nickel, Chromium Results RQ-2018-01-29-33

Thanks for looking into this.
Curtis

From: Thompson, Michael
Sent: Tuesday, March 27, 2018 11:37 AM
To: Musson, Curtis <Curtis.Musson@dep.state.fl.us>
Subject: RE: No Nickel, Chromium Results RQ-2018-01-29-33

Hello Curtis, sorry for the delay, I have been out of town. The results are absent most likely due to a component assignment error in LIMS. We probably have the Cr and Ni data and will be able to re-issue the report if necessary. Let me take a look at the data and I'll get back to you.

Mike

From: Musson, Curtis
Sent: Tuesday, March 20, 2018 4:28 PM
To: Thompson, Michael <Michael.Thompson@dep.state.fl.us>
Subject: No Nickel, Chromium Results RQ-2018-01-29-33

Mike,

I do not see Nickel, or Chromium results for RQ-2018-01-29-33. I checked the RQ and these analytes were requested. Do you have any ideas why these results are absent? I skimmed the results packet and for an explanation but found none.

Thanks,

Curtis Musson
Environmental Consultant
Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
2600 Blairstone Rd, MS#3560
Tallahassee, FL 32399
Curtis.musson@dep.state.fl.us
(850) 245-8453

RQ-2018-01-29-33

Log-in Checklist

Shipping Method: H.DDate/Time of Receipt: 01-31-18 13:31

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	3.3C	17		✓			
Red	5.9C	18		✓			
Red	2.6C	17		✓			

*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		
W-AHERB-AA (-AHB-AA-R)		☒	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		
W-NP-AA-SF			W-PST-CL-R		
W-PAH (-R)			W-TR-TQ		
W-PCB-R			W-CT-CI-R		

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

**Acid Preserved Samples: pH ≤ 2.0? Yes ☒ No ☐ NA ☐ Init: ADP

**W-1-4-DIOX (Green dot on container) preserved to pH < 4.0? Yes ☐ No ☒ NA ☐ Init: []

Coolers Unpacked/Checked by: ADPDate: 01-31-18NCRs (Y/N)? []Event ID: Black, Wards, Caney, Harbiwood, LiNCR # []

WAS-SECT-2018-01-31-01 (SMP)

Date Received: 31-JAN-2018 13:31

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:

Florida Department of Environmental Protection Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson, Will Lasley

Field Report Prepared By: Curtis Musson

Sampling Agency: FDEP

Location		Field ID		WIN/STORET #		Latitude		Longitude		WIN ID/Field ID		Collection (comp begin or grab)		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Composite end		Bottle Group(s)	
Caney Creek		Upstream of		US 90						G1WA0014		Date 1-31-2018		Time 1135		Eastern		Date		ABC	
												Temp (C) 8.87		pH 7.03		Sample Depth 0.1		Total Res. Chlorine (mg/L)		DE	
												Salinity (ppt) 0.04		Comments							

Location		Field ID		WIN/STORET #		Latitude		Longitude		WIN ID/Field ID		Collection (comp begin or grab)		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Composite end		Bottle Group(s)	
STORET FILED/WIN ID →		Black Creek		upstream of CR158						G1WA0072		Date 1-31-18		Time 1210		Eastern		Date		AB	
												Temp (C) 9.28		pH 6.69		Sample Depth 0.2		Total Res. Chlorine (mg/L)		CDG	
												Salinity (ppt) 0.03		Comments							

Location		Field ID		WIN/STORET #		Latitude		Longitude		Collection (comp begin or grab)		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Composite end		Bottle Group(s)	
										Date		Time		Eastern		Date			
										Temp (C)		pH		Sample Depth		Total Res. Chlorine (mg/L)			
										Salinity (ppt)		Comments							

Location		Field ID		WIN/STORET #		Latitude		Longitude		Collection (comp begin or grab)		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Composite end		Bottle Group(s)	
										Date		Time		Eastern		Date			
										Temp (C)		pH		Sample Depth		Total Res. Chlorine (mg/L)			
										Salinity (ppt)		Comments							

Relinquished By: Curtis Musson	Date/Time 1-31-18 / 1331	Shipping Method Drop off	Number of Coolers Shipped: 3	Received By: [Signature]	Date/Time 1-31-18 / 1331
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Black, Wards, Caney, Harbiwood, Little R., Meginis

Central Laboratory Submittal Form

last revised Jan 3, 2018

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Curtis Musson

Project ID: SMP

Collected By: Curtis Musson, Will Lester

Sampling Agency: FDEP

Location		WIN ID/Filed ID		☐ Comp	Collection (comp begin or grab)		☒ Grab	Date	Time	Eastern	Composite end	Bottle Group(s)
Field ID		Little River 100 meters upstream of US 90		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Date		Time	Date	Time
WIN/STORET #		G1WA0073		Fresh		94.7		1-31-2018		835		
Latitude		Longitude		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)		Bottle Group(s)
				9.70		6.89		0.3		204.5		ABCD G
Salinity (ppt)		Comments		0.04								
Location		WIN ID/Filed ID		☐ Comp	Collection (comp begin or grab)		☒ Grab	Date	Time	Eastern	Composite end	Bottle Group(s)
Field ID		Megginis Arm Run Downstream of Sharer		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Date		Time	Date	Time
WIN/STORET #		G1WA0033		Fresh		90.7		1-31-2018		925		
Latitude		Longitude		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)		Bottle Group(s)
				7.44		7.27		0.1		141		A, C, D G
Salinity (ppt)		Comments		0.07								
Location		WIN ID/Filed ID		☐ Comp	Collection (comp begin or grab)		☒ Grab	Date	Time	Eastern	Composite end	Bottle Group(s)
Field ID		Harbinwood Estates Drain		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Date		Time	Date	Time
WIN/STORET #		G1WA0034		Fresh		87.3		1-31-2018		1000		
Latitude		Longitude		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)		Bottle Group(s)
				9.94		7.65		0.1		133		A, B C, D G
Salinity (ppt)		Comments		0.06								
Location		WIN ID/Filed ID		☐ Comp	Collection (comp begin or grab)		☒ Grab	Date	Time	Eastern	Composite end	Bottle Group(s)
Field ID		Wards Creek upstream of bridge at CR 259		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Date		Time	Date	Time
WIN/STORET #		G1WA0002		Fresh		27.7		1-31-18		1100		
Latitude		Longitude		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)		Bottle Group(s)
				6.99		5.78		0.2		43		A, B, C, D, E, F
Salinity (ppt)		Comments		0.02								

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Musson	1-31-18 / 1331	Drop Off	3	ABP	1-31-18 / 1331

Group: A	Bottle Type:	P-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>6</u>
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 6	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
	W-PO4-F						
Group: B	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	<u>4</u>
	W-ICP						
	W-ICPMS						
Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
	ECOLI-18QT						
Group: D	Bottle Type:	BG-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
	W-AHERB-AA						
	W-SUC-AA-R						
	W-UHERB-AA						
Group: E	Bottle Type:	QPCR-P-250ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>2</u>
	PCR-FILTER						
	PCR-HF183						
Group: F	Bottle Type:	QPCR-P-250ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>2</u>
	PCR-BACR						

Group: F	Bottle Type: QPCR-P-250ML	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>2</u>
PCR-HF183				
Group: G	Bottle Type: QPCR-P-250ML	# of Bottles: 8	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>8</u>
PCR-FILTER				

Date of Request: 09-JAN-2018
 Created By: MUSSON_C On: 09-JAN-2018
 Modified By: SWANSON_C On: 11-JAN-2018
 Customer: WAS-SECT
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District:
 Sampling Event: Black, Wards, Caney, Harbiwood, Little R., Meginis

Send Coolers To:

Phone: 850-245-8453
 2600 Blair Stone Rd

 Tallahassee, FL 32399
 Attn: Curtis Musson

Program Module Number:

Priority: 3
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 11-JAN-2018
 Biology Request Reviewed By: SWANSON_C On: 11-JAN-2018
 Sampling Kit Required: YES Ship on: 26-JAN-2018
 Sampling Kit Shipped: YES On: 24-JAN-2018
 Sampling Kit Packed By: AYRES_J
 Preservatives Needed: NO
 Date to Receive Samples: 31-JAN-2018
 Received By: SHAIK_A On: 31-JAN-2018

Send Final Report To:

2600 Blair Stone Rd

 Tallahassee, FL 32399
 Attn: Curtis Musson

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

Comments: Group A: Freshwater Kit
 Group B: Metals
 Group C: E. coli
 Group D: Tracers (AHERB Short List)
 Group E: PCR_FILTER, HF183
 Group F: HF183, BacR
 Group G: PCR-filter

Bottle Group A (Water) With 6 Samples:

Bottle Type: P-1L	Number of Bottles: 6	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: 6	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: P-500ML	Number of Bottles: 6	Preserved With: ICE And H ₂ SO ₄
W-NH ₃	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO ₂ NO ₃	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Bottle Type: P-125ML	Number of Bottles: 6	Preserved With: FILTER-ICE
W-PO ₄ -F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group B (Water) With 4 Samples:

Bottle Type: P-500ML Number of Bottles: 4 Preserved With: HNO₃

Bottle Group B (Water) With 4 Samples:

Bottle Type: P-500ML	Number of Bottles: 4	Preserved With: HNO3
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
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Arsenic
Cadmium
Copper
Lead
Silver

Bottle Group C (Water) With 6 Samples:

Bottle Type:	Number of Bottles: 6	Preserved With: ICE
ECOLI-18QT	Template: DEFAULT	(SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Bottle Group D (Water) With 6 Samples:

Bottle Type: BG-1L	Number of Bottles: 6	Preserved With: ICE
W-AHERB-AA	Template: DEFAULT	(USGS O-2060-01) Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS
W-SUC-AA-R	Template: DEFAULT	(EPA 8321B) Analysis of sucralose in water matrices by HPLC/MS/MS
W-UHERB-AA	Template: DEFAULT	(USGS O-2060-01) Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Bottle Group E (Water) With 1 Samples:

Bottle Type: QPCR-P-250ML	Number of Bottles: 2	Preserved With: ICE
PCR-FILTER	Template: DEFAULT	(SOP-PCR-4.0) Preparation of Samples by Filtration and held for qPCR Analysis
PCR-HF183	Template: DEFAULT	(SOP-PCR-1.0) Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Bottle Group F (Water) With 1 Samples:

Bottle Type: QPCR-P-250ML	Number of Bottles: 2	Preserved With: ICE
PCR-BACR	Template: DEFAULT	(SOP-PCR-1.4) Detection and quantification of Ruminant specific Bacteroidetes BacR 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 Group G (Water) With 4 Samples:

Bottle Type: QPCR-P-250ML	Number of Bottles: 8	Preserved With: ICE
PCR-FILTER	Template: DEFAULT	(SOP-PCR-4.0) Preparation of Samples by Filtration and held for qPCR Analysis

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