



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Deep Creek @ 400m S of SR40

Date: 2/26/2018

WIN/ Field ID: G2CE0167

WBID: 2908

Latitude: 29.201369 (mm/dd/yyyy)

County: Volusia

ORG ID: 21 FL CEN

Longitude: -81.36886 (Decimal Degrees)

Receiving Body of Water: Spring Garden Crk

RQ-2018- 02-26-72 (Decimal Degrees)

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Mike Drennan										

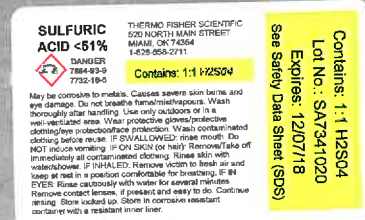
Sampling Equipment					
☒ Sample Container	☐ Van Dorn	☐ Pole			
☐ Carboy	☒ Syringe				
☐ Dipper	☐ Other				
Depth Measured with <u>SECCHI DISK LINE</u>					
Equipment ID					

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

Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded						Meter ID# <u>BOOP NON</u>		Matrix: <u>Fresh</u> / Marine / DI		
Photos: Yes / <u>No</u>		Flow: No Flow / Intestinal / <u>Flowing</u> / NA		Tide: Rising/ Falling/ Slack/ <u>NA</u>		Tide Times: High Low				
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)
EST	1055	0.6	0.3	0.3	3.30	37.1	5.07	0.05	108	21.20
CEN										

Biological Samples Collected:										
<u>None</u> HA SCI RPS Algae ID LVS LVI Other:										

SBIO ID Numbers:		SBIO-ID:	HA-ID:	RPS-ID:	Macrophyte-ID:	LIMS#:
Parameter Suite	Parameter Methods				Preservation	Lot#
Preserved Nutrients	☒ W-NH3 / ☐ W-NO2NO3 / ☐ W-TKN / ☐ W-TOC / ☐ W-S-A-TP				☒ Ice ☒ H2SO4	SA7341020
Metals	☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3	
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice	13615055
Chlorophyll	☒ CHLSUITE-W				☒ Ice	
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice	
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY				☐ Ice	
Macroinvertebrates	☐ MI-FW-QLDC				☐ Formalin	
Periphyton	☐ ALGAE-ID				☐ Ice	
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci				☒ Ice	
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BaCR ☐ PCR-GULL2 ☐ PCR-GFD				☐ Ice	
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA				☐ Ice	
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-CARB-AA				☐ Ice	
	☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R				☐ Other	



Notes: Sonde (120840) retrieval #3

WIN ID / Field ID →

Deep Creek @ 400m S of SR40 (2908)



Signature: [Signature]

Date: 2/26/18

Enter Field Parameters, Verify Station ID in LIMS DMT: KMW 3/6/18 (Initials/Date)

QC Station ID, Field Parameters in LIMS DMT: (Initials/Date)

Scan/Save Field Sheets (Initials/Date)

Migrate Data to WIN: (Initials/Date)

Verify Data in WIN: (Initials/Date)

From: [Ayala, Natalie](#)
To: [Bowden, Magan](#)
Cc: [Musson, Curtis](#); [Linger, Michael](#)
Subject: Station Correction
Date: Tuesday, March 6, 2018 10:52:25 AM
Attachments: [STech Suite18030611360.pdf](#)

Magan,

I'm sorry about all of these corrections. There's another one from 2/26, RQ-2018-02-26-72.

Station G1CE0167 should be G2CE0167. I've attached the corrected submittal form.

Thank you,
Natalie Ayala
Environmental Specialist III
Division of Environmental Assessment and Restoration
3319 Maguire Blvd Suite 232
Orlando, FL 32803
Office: 407-897-4178

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Deep Creek

Customer: CEN-DIST

Requester: Michael Linger

Field Report Prepared By:

Natalie Ayala

Project ID: SMP

Collected By: Mike Drennan

Sampling Agency:

FDOP

Location	WIN ID / Field ID →				☐ Comp ☒ Grab		Collection (comp begin or grab)	☒ Eastern ☐ Central	Composite end	Bottle Group(s)
Field ID	Deep Creek @ 400m				Date		2/26/2018	Time	1055	Time
WIN/STOF	S of SR40 (2908)				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
					Temp (C)		21.20	pH	5.07	Sample Depth
					Salinity (ppt)		0.05	Comments		
							CD-FLR-GCQ SAMPLE SUBMITTED TO CONTRACT LAB			
					☐ Comp ☐ Grab		Collection (comp begin or grab)	☐ Eastern ☐ Central	Composite end	Bottle Group(s)
					Date			Time		Time
					Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
					Temp (C)			pH		Sample Depth
					Salinity (ppt)			Comments		
					☐ Comp ☐ Grab		Collection (comp begin or grab)	☐ Eastern ☐ Central	Composite end	Bottle Group(s)
					Date			Time		Time
					Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
					Temp (C)			pH		Sample Depth
					Salinity (ppt)			Comments		
					☐ Comp ☐ Grab		Collection (comp begin or grab)	☐ Eastern ☐ Central	Composite end	Bottle Group(s)
					Date			Time		Time
					Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
					Temp (C)			pH		Sample Depth
					Salinity (ppt)			Comments		
					☐ Comp ☐ Grab		Collection (comp begin or grab)	☐ Eastern ☐ Central	Composite end	Bottle Group(s)
					Date			Time		Time
					Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
					Temp (C)			pH		Sample Depth
					Salinity (ppt)			Comments		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Mike Drennan	2/26/2018	Fed Ex	1		

Group: A Bottle Type: P-1L # of Bottles: 1 Preservative: ICE Enter Number of Bottles Sent to Lab 1

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

Group: A Bottle Type: P-250ML-WI-THI # of Bottles: 1 Preservative: ICE Enter Number of Bottles Sent to Lab 1 *

CD-FLR-ECQ

SAMPLE SUBMITTED TO FLOWERS LAB

Group: A Bottle Type: BP-1L # of Bottles: 1 Preservative: ICE Enter Number of Bottles Sent to Lab 1

CHLSUITE-W

Group: A Bottle Type: P-500ML # of Bottles: 1 Preservative: ICE And H2SO4 Enter Number of Bottles Sent to Lab 1

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

Group: A Bottle Type: P-125ML # of Bottles: 1 Preservative: FILTER-ICE Enter Number of Bottles Sent to Lab 1

W-PO4-F

Log-in Checklist

RQ- 2018-02-26-72

Shipping Method: FedEx | UPS | HD | Greyhound | _____

Date/Time of Receipt: 02/27/18 @ 10:18

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	0.8°C	4		X			811977812022

*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 _____

Micro-Biology Overflow 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-E8321-DI, -MS, -21			W-NP-AA-SF		
W-BNA (-625, -R)			W-PDQUAT		
W-CARB-AA (-CAB-AA-R)			W-PCL-SQ-R		
W-U2060-MS			W-TR-TQ		
W-PCB-R			W-CT-CI-R		
W-PAH (-R)			W-PSNP-TQ		

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

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

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

Coolers Unpacked/Checked by: Tyler R Date: 02/27/18 NCRs (Y/N)? ✓

Event ID: Deep Creek
CEN-DIST-2018-02-27-01 (SMP) NCR # _____

Date Received: 27-FEB-2018 10:1

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 X

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

Deep Creek ~~400m~~

Customer: CEN-DIST

Project ID: SMP

Requester: Michael Linger

Field Report Prepared By: Lawrence Drennan

Collected By: Lawrence Drennan (Mike)

Sampling Agency: FDEP-CEROC

Location		☐ Comp ☒ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
WIN ID / Field ID → Deep Creek @ 400m S of SR40 (2908)		 G1CE0167		Date 2/26/18 Time 1055		Date		Time		(See pg 2) A	
		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
		Temp (C) 21.20		pH 5.07		Sample Depth 0.3		☐ ft ☒ m		Sp. Conductance (umho/cm) 108	
☐ dd ☐ dms		Salinity (ppt) 0.05		Comments							

Location		☐ Comp ☐ Grab		Collection (comp begin or grab)		☐ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID		Date		Time		Date		Time			
STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	

Location		☐ Comp ☐ Grab		Collection (comp begin or grab)		☐ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID		Date		Time		Date		Time			
STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	

Location		☐ Comp ☐ Grab		Collection (comp begin or grab)		☐ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID		Date		Time		Date		Time			
STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	

Location		☐ Comp ☐ Grab		Collection (comp begin or grab)		☐ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID		Date		Time		Date		Time			
STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	

Relinquished By: Mike Drennan	Date/Time: 2/26/18	Shipping Method: FedEx	Number of Coolers Shipped: 1	Received By: Tyler R	Date/Time: 02/27/18 09:18
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Group: A Bottle Type: P-1L # of Bottles: 1 Preservative: ICE Enter Number of Bottles Sent to Lab 1

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 1

CHLSUITE-W

Group: A Bottle Type: P-500ML # of Bottles: 1 Preservative: ICE And H2SO4 Enter Number of Bottles Sent to Lab 1

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

Group: A Bottle Type: P-125ML # of Bottles: 1 Preservative: FILTER-ICE Enter Number of Bottles Sent to Lab 1

W-PO4-F

~~Group: B Bottle Type: PJ-2L # of Bottles: 2 Preservative: Formalin Enter Number of Bottles Sent to Lab 2~~

~~MI-FW-QLDC~~

Group A

CO-FLR-ECQ

1

sent:

0



Project Name: SMP

Project Number: RQ-2018-02-26-72

Site Location: Deep Creek

Contract/PO # Flowers Lab - B16975

Sampler Names: Mike Dienna

Signature: _____

Special instructions:

Samples are ambient water and not suspected to contain chlorine

Relinquished by:	Date	Time	Received by:	Date	Time	Comments
Mike Drennan	2/26/18	1232	MM / FC	2/26	12:32	Temp Upon Receipt: 0°C
Relinquished by:	Date	Time	Received by:	Date	Time	Sample Cont.

Date of Request: 26-FEB-2018
 Created By: LINGER_M On: 26-FEB-2018
 Modified By: SWANSON_C On: 26-FEB-2018
 Customer: CEN-DIST
 Project: SMP
 Division:
 District: Central District
 Sampling Event: Deep Creek

Send Coolers To:

Phone: 407-897-4180
 FL Dept. of Environmental Protection
 3319 Maguire Blvd., Suite 232
 Orlando, FL 32803-3767
 Attn: Mike Linger

Program Module Number: 1306
 Priority: 3
 Event Status: A
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 26-FEB-2018
 Biology Request Reviewed By: SWANSON_C On: 26-FEB-2018
 Sampling Kit Required: NO Ship on:
 Sampling Kit Shipped:
 Sampling Kit Packed By:
 Preservatives Needed: NO
 Date to Receive Samples: 26-FEB-2018
 Received By:

Send Final Report To:

FL Dept. of Environmental Protection
 3319 Maguire Blvd., Suite 232
 Orlando, FL 32803-3767
 Attn: Mike Linger

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

Comments:**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 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:	Number of Bottles: 1	Preserved With: ICE
CD-FLR-ECQ	Template: DEFAULT	(SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by FlowersOverflow Laboratory for Central District
Bottle Type: BP-1L	Number of Bottles: 1	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: 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
Bottle Type: P-125ML	Number of Bottles: 1	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