

RQ-2018-07-09-47

Log-in Checklist

Login Station ID: #2

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

Date/Time of Receipt: 7-12-18/10:15

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	Yes	No		
Red	3.4	10					
Red	3.1	10					

*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 ☐ Date _____

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 REQUIRED? (Blue dot on container) Yes ☒ No ☐ Init: SR

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 $\leq$ 2.0? Yes ☒ No ☐ NA ☐ Init: SR

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

Coolers Unpacked/Checked by: SR Date: 7-12-18

NCRs (Y/N)? N

Event ID: CEN-DIST-2018-07-12-01

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

Additional Comments:

Infrared Thermometer ID:	REC_02_2018
pH Paper 0.0 – 3.0 Lot #	230515 EXP:10-30-18
pH Paper 0 – 13 Lot #	222516 EXP:08-15-19
Chlorine Test Strips Lot #	033117L EXP:03/21

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 _____ If No _____

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: _____

Wekiva (W) / Six / Gee / Soldier / Howell

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: CEN-DIST

Requester: Michael Linger

Field Report Prepared By: Mike Linger

Project ID: SMP

Collected By: Mike Linger / Lawrence Dorman

Sampling Agency: FOEP

CE-ROC

Location	WIN ID / Field ID → Howell Creek @ US of Lake Howell Ln (2997A)	G2CE0138	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/11/18 Time 1134	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Field ID				Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 6.05	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/S				Temp (C) 29.9	pH 7.06	Sample Depth 0.2	Sp. Conductance (umho/cm) 215.6
Latitude			☐ dd ☐ dms	Salinity (ppt)	Comments		
Location	WIN ID / Field ID → Howell Creek @ 150m US of Lake Howell (2997A)	G2CE0072	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/11/18 Time 1150	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID				Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 5.81	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN				Temp (C) 29.6	pH 6.93	Sample Depth 0.3	Sp. Conductance (umho/cm) 216.8
Latitude			☐ dd ☐ dms	Salinity (ppt)	Comments		
Location	WIN ID / Field ID → Gee Creek @ SR Hwy 419 (2994A)	G2CE0075	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/11/18 Time 1224	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID				Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 5.77	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/S				Temp (C) 27.7	pH 6.99	Sample Depth 0.3	Sp. Conductance (umho/cm) 197.6
Latitude			☐ dd ☐ dms	Salinity (ppt)	Comments		
Location	WIN ID / Field ID → Gee Creek @ Alton Rd (2994A)	G2CE0161	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/11/18 Time 1242	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID				Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 6.20	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/S				Temp (C) 28.7	pH 7.05	Sample Depth 0.3	Sp. Conductance (umho/cm) 177.0
Latitude			☐ dd ☐ dms	Salinity (ppt)	Comments		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
MKL	7/11/18 1600	Fed Ex	2	SK	7-12-18/10:15

* CD-FLR-ECQ sent to contract lab

Group: A	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
	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:	Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab	<u>1 sent to contract lab</u>
	CD-FLR-ECQ						
Group: A	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>1</u>
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
					H2SO4 LOT# SA8885170 EXP: 03/26/19		
Group: A	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
	W-PO4-F						
Group: B	Bottle Type:	P-250ML-WI-THI	# of Bottles: 4	Preservative:	Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab	<u>4 sent to contract lab</u>
	CD-FLR-ECQ						
Group: B	Bottle Type:	QPCR-P-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
	PCR-FILTER						
Group: B	Bottle Type:	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
	W-E8321-DI						
	W-E8321-MS						
Group: C	Bottle Type:	P-250ML-WI-THI	# of Bottles: 2	Preservative:	Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab	<u>2 sent to contract lab</u>
	CD-FLR-ECQ						
Group: C	Bottle Type:	QPCR-P-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>2</u>
	PCR-FILTER						

Group: C	Bottle Type: QPCR-P-500ML PCR-HF183	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: BG-500ML W-E8321-DI W-E8321-MS	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: D	Bottle Type: P-250ML-WI-THI CD-FLR-ECQ	# of Bottles: 2	Preservative: Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab	2 sent to contract lab
Group: D	Bottle Type: QPCR-P-500ML PCR-FILTER PCR-GULL2	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: D	Bottle Type: BG-500ML W-E8321-DI W-E8321-MS	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: E	Bottle Type: P-250ML-WI-THI CD-FLR-ECQ	# of Bottles: 1	Preservative: Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab	1 sent to contract lab

Wekiva (W) / Six / Gee / Soldier / Howell

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: CEN-DIST

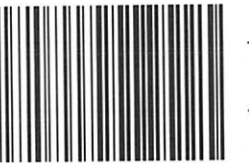
Requester: Michael Linger

Field Report Prepared By: Mike Linger

Project ID: SMP

Collected By: Mike Linger / Lawrence Drinan

Sampling Agency: FDEP CE-ROC

Location	WIN ID / Field ID →		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/11/18 Time 1302	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Field ID	Soldier Creek @ just downstream of SR Hwy 419 (2986)	G2CE0162		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 6.34	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/STC				Temp (C) 26.8	pH 7.14	Sample Depth 0.3	Sp. Conductance (umho/cm) 221.5
Latitude	☐ dd ☐ dms		☐ dd ☐ dms	Salinity (ppt)	Comments		
Location	WIN ID / Field ID →		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/11/18 Time 1310	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID	Soldier Creek @ 150m Upstream of SR Hwy 419 (2986)	G2CE0071		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 6.40	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/STC				Temp (C) 26.9	pH 7.11	Sample Depth 0.3	Sp. Conductance (umho/cm) 211.3
Latitude	☐ dd ☐ dms		☐ dd ☐ dms	Salinity (ppt)	Comments		
Location	WIN ID / Field ID →		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/11/18 Time 1329	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID	Six Mile @ 400m US of Lake Jessup (2984)	G2CE0074		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 5.96	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/STC				Temp (C) 26.8	pH 7.00	Sample Depth 0.3	Sp. Conductance (umho/cm) 350.1
Latitude	☐ dd ☐ dms		☐ dd ☐ dms	Salinity (ppt)	Comments		
Location	WIN ID / Field ID →		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/11/18 Time 1336	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID	Elder Springs Run @ US of Myrtle St (2984)	G2CE0120		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 6.38	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/STC				Temp (C) 26.6	pH 7.05	Sample Depth 0.3	Sp. Conductance (umho/cm) 307.0
Latitude	☐ dd ☐ dms		☐ dd ☐ dms	Salinity (ppt)	Comments		

Relinquished By: MKL	Date/Time: 7/11/18 1600	Shipping Method: Fed Ex	Number of Coolers Shipped: 2	Received By: SR	Date/Time: 7.12.18/10.15
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* CD-FLR-ECQ sent to contract lab

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:	P-250ML-WI-THI	# of Bottles: 1	Preservative:	Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab _____
	CD-FLR-ECQ					
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:	FILTER-ICE	Enter Number of Bottles Sent to Lab _____
	W-PO4-F					
Group: B	Bottle Type:	P-250ML-WI-THI	# of Bottles: 4	Preservative:	Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab _____
	CD-FLR-ECQ					
Group: B	Bottle Type:	QPCR-P-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	PCR-FILTER					
Group: B	Bottle Type:	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	W-E8321-DI					
	W-E8321-MS					
Group: C	Bottle Type:	P-250ML-WI-THI	# of Bottles: 2	Preservative:	Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab _____
	CD-FLR-ECQ					
Group: C	Bottle Type:	QPCR-P-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	PCR-FILTER					

Group: C	Bottle Type: PCR-HF183	QPCR-P-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: C	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: D	Bottle Type: CD-FLR-ECQ	P-250ML-WI-THI	# of Bottles: 2	Preservative:	Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab _____
Group: D	Bottle Type: PCR-FILTER PCR-GULL2	QPCR-P-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: D	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: E	Bottle Type: CD-FLR-ECQ	P-250ML-WI-THI	# of Bottles: 1	Preservative:	Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab _____

Wekiva (W) / Six / Gee / Soldier / Howell

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: CEN-DIST

Requester: Michael Linger

Field Report Prepared By:

Project ID: SMP

Collected By:

Mike Linger / Lawrence Drennon

Sampling Agency:

FOEP CE-Roc

Location		WIN ID / Field ID → Little Wekiva (west) @ 150m East of Northwestern Ave (2987B)		G2CE0174		☐ Comp ☒ Grab Collection (comp begin or grab) Date 7/11/18 Time 1426		☒ Eastern ☐ Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A
WIN/STO		Temp (C) 29.8		pH 6.86		Sample Depth 0.3		☐ ft ☒ m Sp. Conductance (umho/cm) 166.5		
Latitude		☐ dd ☐ dms		☐ dd ☐ dms		Salinity (ppt)		Comments		
Location		WIN ID / Field ID → Little Wekiva (west) @ 50m US of Northwestern Ave (2987B)		G2CE0099		☐ Comp ☒ Grab Collection (comp begin or grab) Date 7/11/18 Time 1430		☒ 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)		E
WIN/STO		Temp (C) 29.8		pH 6.87		Sample Depth 0.3		☐ ft ☒ m Sp. Conductance (umho/cm) 166.6		
Latitude		☐ dd ☐ dms		☐ dd ☐ dms		Salinity (ppt)		Comments		
Location		Field ID		WIN/STO		☐ Comp ☐ Grab Collection (comp begin or grab) Date Time		☐ Eastern ☐ Central	Composite end Date Time	Bottle Group(s)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)				
Temp (C)		pH		Sample Depth		☐ ft ☐ m		Sp. Conductance (umho/cm)		
Latitude		☐ dd ☐ dms		☐ dd ☐ dms		Salinity (ppt)		Comments		
Location		Field ID		WIN/STO		☐ Comp ☐ Grab Collection (comp begin or grab) Date Time		☐ Eastern ☐ Central	Composite end Date Time	Bottle Group(s)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)				
Temp (C)		pH		Sample Depth		☐ ft ☐ m		Sp. Conductance (umho/cm)		
Latitude		☐ dd ☐ dms		☐ dd ☐ dms		Salinity (ppt)		Comments		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
MKL	7/11/18 1600	FedEx	2	SR	7-12-18/10:15

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:	P-250ML-WI-THI	# of Bottles: 1	Preservative:	Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab _____
	CD-FLR-ECQ					
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					
				H2SO4		
				LOT# SA8885178		
				EXP: 03/26/19		
Group: A	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab _____
	W-PO4-F					
Group: B	Bottle Type:	P-250ML-WI-THI	# of Bottles: 4	Preservative:	Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab _____
	CD-FLR-ECQ					
Group: B	Bottle Type:	QPCR-P-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	PCR-FILTER					
Group: B	Bottle Type:	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	W-E8321-DI					
	W-E8321-MS					
Group: C	Bottle Type:	P-250ML-WI-THI	# of Bottles: 2	Preservative:	Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab _____
	CD-FLR-ECQ					
Group: C	Bottle Type:	QPCR-P-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	PCR-FILTER					

Group: C	Bottle Type: PCR-HF183	QPCR-P-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: C	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: D	Bottle Type: CD-FLR-ECQ	P-250ML-WI-THI	# of Bottles: 2	Preservative:	Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab _____
Group: D	Bottle Type: PCR-FILTER PCR-GULL2	QPCR-P-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: D	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: E	Bottle Type: CD-FLR-ECQ	P-250ML-WI-THI	# of Bottles: 1	Preservative:	Na thiosulfate and Ice	Enter Number of Bottles Sent to Lab _____



CONTRACT LAB - CHAIN OF CUSTODY

Client Name: Department of Environmental Protection
Address: 3319 Maguire Blvd Suite 232, Orlando, FL 32803
Project Manager: Natalie Ayala / Michael Linger / Kalina Warren
Telephone Number: (407) 897-4100

Project Name: SMP

Project Number (RQ): RQ-2018-07-09-47

Site Location: Seminole Co. Run

Sampler Names: Mike Linger / Mike Dcnnan

Contract/PO # Flowers ~~AF3150~~ Pace ~~AF3150~~

FIELD ID	Date	Time Sampled	No. of Containers	Grab	Composite	Preservative				Matrix				Analyze For:		
						ICE	HCL	HNO3	NONE	Groundwater	Wastewater	Drinking Water	Surface Water	Escherichia Coli (ECQ)	Enterococci (ENQ)	Fecal Coliform (FC)
G2CE0072	7/11/18	1150	1	X		X							X	X		
G2CE0075		1224	1	X		X							X	X		
G2CE0138		1134	1	X		X							X	X		
G2CE0161		1242	1	X		X							X	X		
G2CE0162		1302	1	X		X							X	X		
G2CE0071		1310	1	X		X							X	X		
G2CE0074		1329	1	X		X							X	X		
G2CE0120		1336	1	X		X							X	X		

Special Instructions:

Samples are ambient water and not suspected to contain chlorine

Relinquished by:	Date	Time	Received by:	Date	Time	Comments
<i>[Signature]</i>	7/11/18	1454	<i>[Signature]</i>	7/11	1454	Temp Upon Receipt: 35°C
Relinquished by:	Date	Time	Received by:	Date	Time	Sample Containers Intact?
						(Y) N



CONTRACT LAB - CHAIN OF CUSTODY

Client Name: Department of Environmental Protection
Address: 3319 Maguire Blvd Suite 232, Orlando, FL 32803
Project Manager: Natalie Ayala / Michael Linger / Kalina Warren
Telephone Number: (407) 897-4100

Contract/PO # Flowers - ~~AF3150~~ Pace - ~~AF3150~~

Project Name: SMP
Project Number (RQ): RQ-2018-07-09-47
Site Location: Seminole Co Run
Sampler Names: Mike Linger / Mike Drennan

FIELD ID	Date	Time Sampled	No. of Containers	Grab	Composite	Preservative				Matrix				Analyze For:		
						ICE	HCL	HNO3	NONE	Groundwater	Wastewater	Drinking Water	Surface Water	Escherichia Coli (ECQ)	Enterococci (ENQ)	Fecal Coliform (FC)
G2CE0099	7/11/18	1430	1	X		X							X	X		
G2CE0174	7/11/18	1426	1	X		X							X	X		

Special Instructions:

Samples are ambient water and not suspected to contain chlorine

Relinquished by:	Date	Time	Received by:	Date	Time	Comments
<i>Mike Linger</i>	7/11/18	1454	<i>Mike Linger</i>	7/11	1454	Temp Upon Receipt: 35.0
						Sample Containers Intact?
						☒ N

Date of Request: 20-JUN-2018
 Created By: LINGER_M On: 20-JUN-2018
 Modified By: WATTS_J On: 21-JUN-2018
 Customer: CEN-DIST
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District: Central District
 Sampling Event: Wekiva (W) / Six / Gee / Soldier / Howell

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: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 21-JUN-2018
 Biology Request Reviewed By: SWANSON_C On: 20-JUN-2018
 Sampling Kit Required: YES Ship on: 29-JUN-2018
 Sampling Kit Shipped: YES On: 27-JUN-2018
 Sampling Kit Packed By: SHAIK_A
 Preservatives Needed: NO
 Date to Receive Samples: 09-JUL-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: A: Wekiva (W)
 B: Six X2 / Gee X2
 C: Soldier X2
 D: Howell X2
 E: Wekiva (W)

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 using a maximum of 250 mL of sample
Bottle Type: P-250ML-WI-THI	Number of Bottles: 1	Preserved With: Na thiosulfate and Ice
CD-FLR-ECQ	Template: DEFAULT	(SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Chemical Laboratory in Altamonte Springs
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

Bottle Group A (Water) With 1 Samples:

Bottle Type: P-125ML Number of Bottles: 1 Preserved With: FILTER-ICE
 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 4 Samples:

Bottle Type: P-250ML-WI-THI Number of Bottles: 4 Preserved With: Na thiosulfate and Ice
 CD-FLR-ECQ Template: DEFAULT (SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Chemical Laboratory in Altamonte Springs

Bottle Type: QPCR-P-500ML Number of Bottles: 4 Preserved With: ICE
 PCR-FILTER Template: DEFAULT (SOP-PCR-4.0) Preparation of Samples by Filtration and held for qPCR Analysis

Bottle Type: BG-500ML Number of Bottles: 4 Preserved With: ICE
 W-E8321-DI Template: (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
 W-E8321-MS Template: DEFAULT (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Bottle Group C (Water) With 2 Samples:

Bottle Type: QPCR-P-500ML 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 Type: BG-500ML Number of Bottles: 2 Preserved With: ICE
 W-E8321-DI Template: (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
 W-E8321-MS Template: DEFAULT (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Bottle Type: P-250ML-WI-THI Number of Bottles: 2 Preserved With: Na thiosulfate and Ice
 CD-FLR-ECQ Template: DEFAULT (SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Chemical Laboratory in Altamonte Springs

Bottle Group D (Water) With 2 Samples:

Bottle Type: P-250ML-WI-THI Number of Bottles: 2 Preserved With: Na thiosulfate and Ice
 CD-FLR-ECQ Template: DEFAULT (SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Chemical Laboratory in Altamonte Springs

Bottle Type: QPCR-P-500ML 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-GULL2 Template: DEFAULT (SOP-PCR-1.2) Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction

Bottle Type: BG-500ML Number of Bottles: 2 Preserved With: ICE
 W-E8321-DI Template: (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
 W-E8321-MS Template: DEFAULT (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Bottle Group E (Water) With 1 Samples:

Bottle Type: P-250ML-WI-THI Number of Bottles: 1 Preserved With: Na thiosulfate and Ice
 CD-FLR-ECQ Template: DEFAULT (SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Chemical Laboratory in Altamonte Springs

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

FedEx®

Do Not Lift Using This Tag

ORIGIN ID: TLHA (407) 894-7555
MIKE LINDER
FL DEP CENTRAL DISTRICT
3818 MAGUIRE BLVD STE 232

ORIGIN: FL 328033767
UNITED STATES US

SHIP DATE: 27JUN18
ACTWGT: 40.00 LB MAN
CAD: 0446970/CAFE3210

TO JOHN WATTS
FLORIDA DEP/CHEMISTRY SECTION
2600 BLAIRSTONE RD

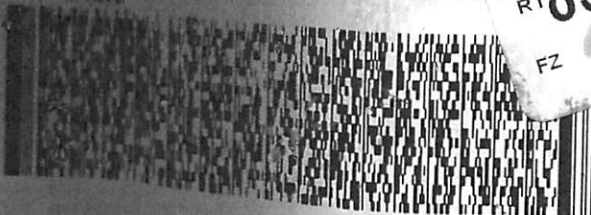
TALLAHASSEE FL 32399

(904) 245-1077

REF:

DEPT:

RMA: 11 JUL 18



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36 TLHA

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THU - 12 JUL 10:30A
PRIORITY OVERNIGHT

32399

FL-US

TLH



FID 5037306 11JUL18 ORLA 546C2/0532/0C8A

ORIGIN ID: TLHA (407) 894-7555
MIKE LINGER
FL DEP CENTRAL DISTRICT
3319 MAGUIRE BLVD STE 232

ORLANDO, FL 328033767
UNITED STATES US

SHIP DATE: 27JUN18
ACTWGT: 40.00 LB MAN
CAD: 0446970/CAFE3210

TO JOHN WATTS
FLORIDA DEP/CHEMISTRY SECTION
2600 BLAIRSTONE RD

TALLAHASSEE FL 32399

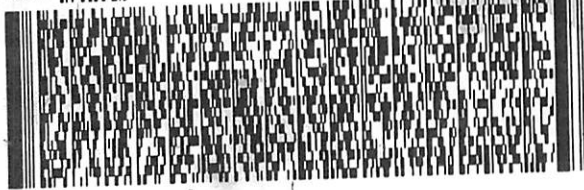
(850) 245-8077

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PO:

RMA: ||| ||| |||



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36 TLHA

32399
FL-US
TLH



FID 5037366 11JUL18 ORLA 546C2/8532/8C8A

RT 856

1 10:30 B
9307
07.12

FZ

Cooler Packing Worksheet for Request: RQ-2018-07-09-47**Wekiva (W) / Six / Gee / Soldier / Howell****Ship Cooler On: 6/29/2018****Customer/Project: CEN-DIST/SMP**

Assigned To: SHAIK_A

Requester: Michael Linger

Priority: 3

407-897-4180
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767

Attn: Mike Linger

Please return
packing list with
sample submittal
forms.

Comments:

No preservatives needed.

A: Wekiva (W)
B: Six X2 / Gee X2
C: Soldier X2
D: Howell X2
E: Wekiva (W)

Requested Analyses:**Bottle Group: A****# of Sites: 1****Container ID: P-1L****Qty: 1 Preservation: ICE****Lot #** 00071006**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 using a maximum of 250 mL of sample

Container ID: P-250ML-WI-THI**Qty: 1 Preservation: Na thiosulfate and Ice****Lot #** L18005**Description:****Analysis**

CD-FLR-ECQ

Description

Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Laboratory

Container ID: BG-500ML

Qty: 4 Preservation: ICE

Lot # 50071432

Description: Brown Glass Bottle 500ML

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

Bottle Group: C

of Sites: 2

Container ID: P-250ML-WI-THI

Qty: 2 Preservation: Na thiosulfate and Ice

Lot # L18005

Description:

Analysis

CD-FLR-ECQ

Description

Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Laboratory

Container ID: QPCR-P-500ML

Qty: 2 Preservation: ICE

Lot # 50071432 70172

Description: 500ml Sterile Nalgene

Affix PCR Instruction Label to container

Analysis

PCR-FILTER

PCR-HF183

Description

Preparation of Samples by Filtration and held for qPCR Analysis

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

Container ID: BG-500ML

Qty: 2 Preservation: ICE

Lot # 50071432

Description: Brown Glass Bottle 500ML

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

Bottle Group: D

of Sites: 2

Container ID: P-250ML-WI-THI

Qty: 2 Preservation: Na thiosulfate and Ice

Lot # L18005

Description:

Analysis

CD-FLR-ECQ

Description

Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Laboratory

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1223623

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00070684

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: FILTER-ICE

Lot # 00069732

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: 4

Container ID: P-250ML-WI-THI

Qty: 4 Preservation: Na thiosulfate and Ice

Lot # 118005

Description:

Analysis

CD-FLR-ECQ

Description

Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Laboratory

Container ID: QPCR-P-500ML

Qty: 4 Preservation: ICE

Lot # 00070172

Description: 500ml Sterile Nalgene

Affix PCR Instruction Label to container

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Container ID: QPCR-P-500ML

Qty: 2 Preservation: ICE

Lot # 50070712

Description: 500ml Sterile Nalgene

Affix PCR Instruction Label to container

Analysis

PCR-FILTER

PCR-GULL2

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Detection and quantification of coastal bird specific *Catellibacillus marimammillium* Gull2 genetic marker with quantitative polymerase chain reaction

Container ID: BG-500ML

Qty: 2 Preservation: ICE

Lot # 50071432

Description: Brown Glass Bottle 500ML

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

Bottle Group: E

of Sites: 1

Container ID: P-250ML-WI-THI

Qty: 1 Preservation: Na thiosulfate and Ice

Lot # 418005

Description:

Analysis

CD-FLR-ECQ

Description

Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Laboratory

Cooler Packed By: AB

Number of Coolers: 3

Date: 6-25-18

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 _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-07-09-47