

WRLS 3/9/17

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 YSI #4 RQ- 2017-03-06-58 Project WRLS

- 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 03/04/2016

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.	N. Fredrick	3/9/17	0740	22.76	8.62	8.62	100	46.1	0.78	P	L
ICV			0745	22.81	8.61	8.60	99.9	46.1	0.78	P	L
CCV	B. P.	3/9/17	1550	24.07	8.41	5.74	68.2	41.6	0.78	P	L
CCV											

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 mos/cm	Meter Reading μ mos/cm	Pass / Fail	Lab / Field
Calibr.	N. Fredrick	3/9/17	0750	1461101A	11/17	1,000	1,000	P	L
ICV			0755			100	104	P	L
CCV	B. P.	3/9/17	1513	1298116	4/17	12,900	12,981	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.	N. Fredrick	3/9/17	0758	2608904	7/18	7.0	7.0	-10.0	P	L
Calibr.			0800	2608626	8/18	4.0	4.0	166.8	P	L
Calibr.				2608E35	2/18	10.0	9.99	-184.6	P	L
ICV										
CCV	B. P.	3/9/17	1515	2608626	8/18	4.0	4.02	166.4	P	L
CCV	B. P.	3/9/17	1517	2608E35	2/18	10.0	9.99	-185.8	P	L

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;mV pH 4 Range +180 $\pm$ 50;mV pH 10 Range -180 $\pm$ 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

WRLS Observation Sheet

Florida Department of Environmental Protection

Locating possible human waste sources
by process of elimination.

Round 1: Exploratory

Rounds 2 and 3: Sewage Detection Response

WBID Name <u>Miller Creek</u>		Form filled out by: <u>Nicole Frederick</u>		Date of Observations: <u>3/9/17</u>	
WBID Number <u>2287</u>	Class <u>Marine or Fresh</u>	Names of Observers: <u>N. Frederick / B. Davis</u>			
Rainfall in the last... (inches)	6 hrs: <u>NONE</u>	24 hrs: <u>NONE</u>	36 hrs: <u>none</u>	Comments:	
Source of rain data:					

Station ID	Time of observations	Sampled today? (✓)	Type of station				Site Accessibility Easy access? Or is it inaccessible and why? What equipment may be needed? Is municipality assistance needed (i.e. key, road block, manhole lift)?	Flow conditions (✓)				Flow Direction		Flow parameters (estimated)			Area Observations Add Upstream (↑) or Downstream (↓) of station, where possible						
			Open segment of stream-proper (✓)	Open ditch (✓)	Manhole to stormwater conveyance	Outfall of Open (O) or Closed (C) conveyance		Flowing	Flushing ¹	Wet but stagnate	Visibly disconnected			Depth of Flowing Water (m)	Width of flowing water (m)	Flow Speed (m/s)	Wildlife (birds, etc.)	Farm animals	Pet waste	Homeless population observed nearby (number)	Trash (in water [W] or on banks [B])? Take Photo	Urban (U)/ Rural (R)	Homes (H), Farm (F), Businesses (B), Industries (I)
R1 A	1300	✓	✓				Easy Access	✓				S → N	0.2	6	11 sec/m		Birds	NO	?	maybe	W	U	B/H
R1 E	1330	✓	✓				Easy Access	✓				S → N	0.15	0.5	20 sec/m		NO	maybe	maybe	maybe	W	U	H
R1 B	1350	✓	✓	NF			Easy Access	✓				S → N	0.3	5	20 sec/m		NO	maybe	maybe	maybe	W	U	H
R1 C	1415	✓	✓				Easy Access	✓				S → N	0.1	0.01	30 sec/m		NO	NO	yes	NO	W	U	H
R2 A2							Easy - See Notes					→											
R2 A1							Easy - See Notes					→											
R2 A3							Easy - See Notes					→											
R2 B2							Easy - See Notes					→											
R2 B1							Easy - See Notes					→											
R2 C1							Eliminate - NO water					→											

¹Flushing means the entire water segment is flushing while on site.²Add any additional comments on observations (i.e. possible human waste sources, unmapped sewer pipe or outfall, sewage odors) in the photo log.

R2A2

NOTES

(Atlantic Blvd)
from R1A, turn onto Mayfair, creek is approx. $\frac{1}{8}$ mile
(wood house up on stilts). enter creek - walk up approx.
100 m -
See apts. on left. open canopy area

R2A1

Apt. complex off beach blvd. Mayfair Village. go to
back of complex (NE corner) open fence @ end.
Walk down steep creek side to creek.

R2A3

off beach blvd, turn onto Carmichael Ave,
apt. down on left side (no name?)

R2B2

(Stillman St.) Beach blvd - @ Schumaner Ave?
creek is on ↑ Draxel/

R2B1

Behind Store - Iachis House Schumacher

R2C1

Eliminate - No water

ENVIRONMENTAL PROTECTION ING PROGRAM FIELD SHEET

January 2017

PAGE 1 OF 1

Data Qualified?

Yes / No

Date: 3/9/2017

(mm/dd/yyyy)

/BID: 2287

Latitude: 30.30617

(Decimal Degrees)

County: Duval RQ - 2017-03-06-58

ORG ID: 21 FLA

Longitude: 81.62872

(Decimal Degrees)

Receiving Body of Water:

Field ID:

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Nicole Frederick					X	X			
Brown Davis					X	X			

Sampling Equipment	
☐ Sample Container	☐ Van Dorn ☒ Pole
☐ Carboy	☐ Syringe
☐ Dipper	☐ Other
Equipment ID Ortho Kit # NF	

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

Water Level: Dry / Pooled <u>Low</u> / Normal / High / Flooded					Matrix: <u>Fresh</u> / <u>Marine</u> / DI				
Meter ID# 952 #4					Photos: <u>Yes</u> / No				
					Tide Falling: <u>Yes</u> / No / NA				

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	1300	0.1	0.2	3.48	41.7	7.68	4.10	0.2	1445	21.6
CEN								NOB		

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#:

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			☐ <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-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 ☐ Enterococcus ☒ PCR-FILTER HF-185	☒ Ice			
Tracers	☐ W-LCMS-DIJ ☒ W-UHERB-AA W-SUC-APP	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Other			

Notes:	Place Label Here (If Available)
Signature: <u>Nicole Frederick</u>	Date: 3/9/2017

Field Parameters Entered into LIMS: (Initials/Date) Field Parameters QC in LIMS: (Initials/Date)

Date Migrated to STORET: (Initials/Date) Field Sheets Scanned/Saved: (Initials/Date)



MILLER RND 1 SITE C

ENVIRONMENTAL PROTECTION NG PROGRAM FIELD SHEET

January 2017

PAGE 1 OF 1

Date Qualified?

Yes No

Date: 3/9/2017

(mm/dd/yyyy)

BID: 2287

Latitude: 30.30050

(Decimal Degrees)

County: Duval RQ - 2017-03-06-08

ORG ID: 21 FLA

Longitude: 81.63105

(Decimal Degrees)

Receiving Body of Water:

Field ID:

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Nicole Frederich									
Brian Davis									

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

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

Water Level: Dry / Pooled ☒ Low Normal / High / Flooded		Matrix: Fresh ☒ Marine / DI								
Meter ID# PSI #4		Photos: Yes ☒ No								
Tide Falling: Yes ☒ No / NA										
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (umhos/cm)	Temp. (C°)
EST	1415	0.05	0.10	292	32.2	6.26	0.13	0.10	276	26.07
CEN								VOB		

Biological Samples Collected: None ☒ HA SCI RPS Algae ID LVS LVI Other
SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#:

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			☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO2			☐ <2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 um Filter	☐ Ice			
Chlorophyll	☐ CHLSUITE-W	☐ Ice			
Physical/Aggregate (Fresh)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-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 ☐ Enterococcus ☐ PCR-FILTER	☒ Ice			
Tracers	☐ W-LCMS-DIJ ☒ W-UHERB-AA W-SUC-AA	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Notes:	Place Label Here (If Available)
Signature: [Signature]	Date: 3/9/2017

Field Parameters Entered into LIMS: (Initials/Date)	Field Parameters QC in LIMS: (Initials/Date)
Date Migrated to STORET: (Initials/Date)	Field Sheets Scanned/Saved: (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION WATER QUALITY MONITORING PROGRAM FIELD SHEET

January 2017

PAGE 1 OF 1

Data Qualified?

Yes / No



MILLER RND 1 SITE D

Date: 3/9/2017

(mm/dd/yyyy)

NOT SAMPLED

WBID: 2287

Latitude:

(Decimal Degrees)

County: Duval RQ -

ORG ID: 21 FLA

Longitude:

(Decimal Degrees)

Receiving Body of Water:

Field ID:

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check

Sampling Equipment		
☐ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Equipment ID Ortho Kit #		
Collection Method		
☐ Wading	☐ Via Boat	
☐ From Shore	☐ Canoe/Kayak	
☐ Other (note below)	☐ Electric Motor	
☐ Gasoline Motor		

Water Level: Dry / Pooled / Low / Normal / High / Flooded

Matrix: Fresh / Marine / DI

Meter ID#

Photos: Yes / No

Tide Falling: Yes / No / NA

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			underground							
CEN										

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#:

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			☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₂			☐ <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-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 ☐ Enterococcus ☐ PCR-FILTER	☐ Ice			
Tracers	☐ W-LCMS-DU ☐ W-UHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Place Preservative Sticker(s) Here
(If Available)

Notes:

Could not find access -
Underground. No surface
access - manhole only

Place Label Here
(If Available)

Signature:

Date:

2017

Field Parameters Entered into LIMS:

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

MILLER CREEK ROUND 1

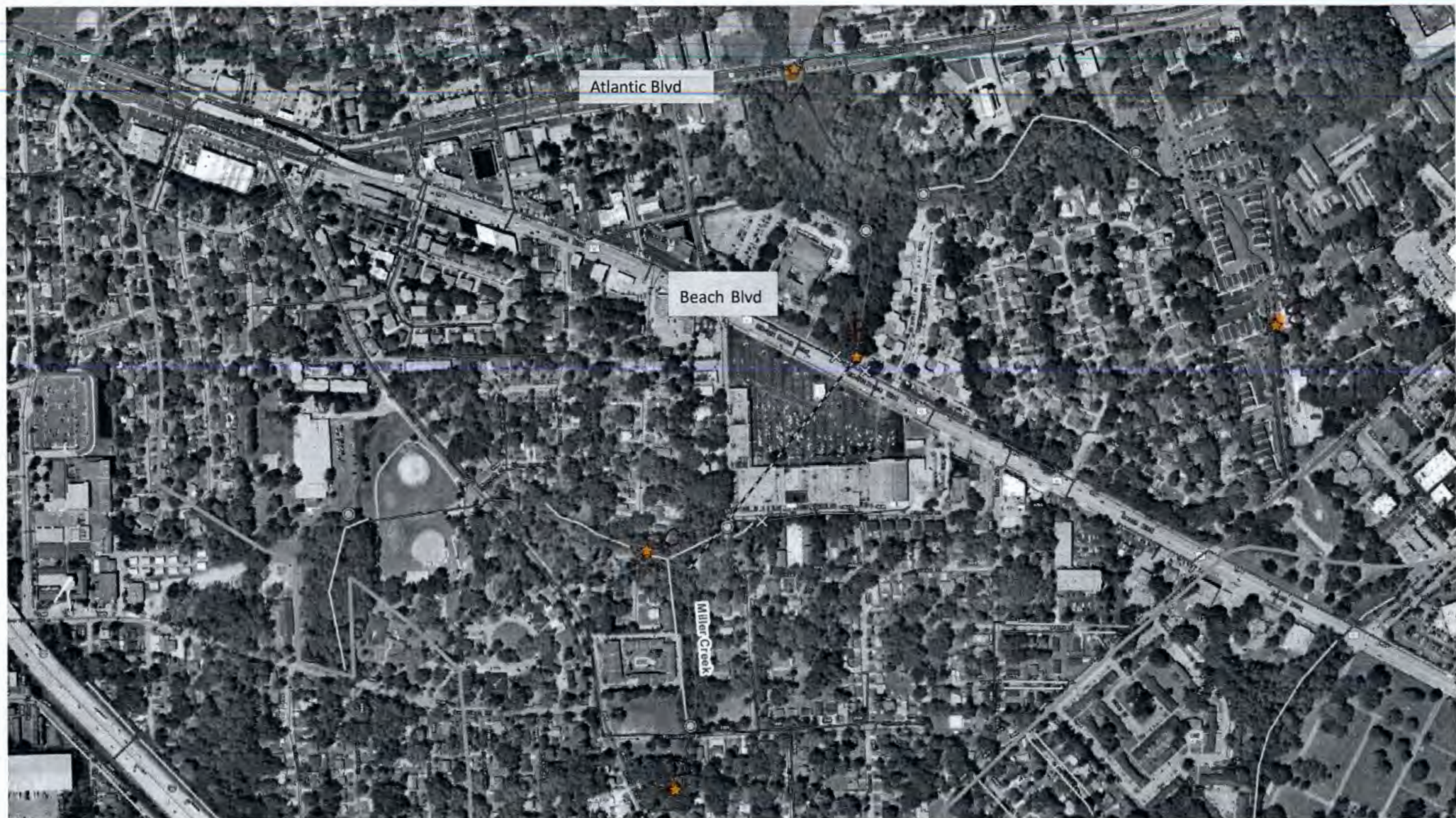
Site A 30.305988/-81.628805

Site B 30.302640/-81.628156

Site C 30.300500/-81.630431

Site D 30.297874/-81.630699

Site E 30.303043/-81.622395



RQ-2017-03-06-08



MILLER R1A DUP

WBID: 2287

QA/QC Sample Inform:

Duplicate

Time Zone: EST CENSample Depth (m): 0.1Time: 1305Total Depth (m): 0.20

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			☐ < 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 ☐ Entero ☒ PCR-FILTER	☒ Ice			
Tracers	☒ W-SUC-AA-R ☒ W-UHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Blank

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			☐ < 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 ☐ Entero ☐ PCR-FILTER	☒ Ice			
Tracers	☒ W-SUC-AA-R ☒ W-UHERB-AA	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Other			

Notes:



MILLER R1A BLANK

Signature: Michelle AnnDate: 3/9/17

Field Parameters Entered into LIMS: _____

(Initials/Date)

Field Parameters QC in LIMS: _____

(Initials/Date)

Date Migrated to STORET: _____

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