



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes ☒ No ☐

WIN Station Name: Lake Arrowhead at boat dock at Turtle Crk Ln near outlet

Date: 04/10/2019 ✓
(mm/dd/yyyy)

WIN/ Field ID: G1WA0004 ✓

WBID: 564A

Latitude: 30.568517

County: Leon

ORG ID: 21FLWQA

Longitude: -84.218058
(Decimal Degrees)

Receiving Body of Water: Pine Hill Lake

RQ- 2019-03-04-69
(Decimal Degrees)

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jason Storrs						✓	✓			✓
Will Lasley						✓	✓	✓	✓	

Sampling Equipment	
☒ Sample Container	☐ Van Dorn ☐ Pole
☐ Carboy	☒ Syringe
☐ Dipper	☐ Other
Depth Measured with <u>YSI Pro DSS</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>PoDSI 15075</u>	Matrix: <u>Fresh</u> / Marine / DI
Photos: Yes / <u>No</u>	Flow: No Flow / Intestinal / Flowing <u>NA</u>	Tide: Rising/ Falling/ Slack <u>NA</u>
Tide Times: High <u>NA</u> Low <u>NA</u>		

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°)
<u>EST</u>	<u>0914</u>	<u>1.4</u>	<u>0.3</u>	<u>0.8</u>	<u>7.83</u>	<u>91.1</u>	<u>7.1</u>	<u>0.03</u>	<u>75</u>	<u>22.8</u>
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#:	<u>2077182</u>		

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	<u>SA8344070</u>	<u>12/10/19</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	<u>16803885</u>		
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-BR-IC / 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-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Notes:

Nutrients

WIN ID / FILED ID →
G1WA0004

Location Lake Arrowhead at boat dock at Turtle Crk Ln near outlet

Signature:

Date: 4/10/2019

LIMS EVENT ID: <u>IVAS-SECT-2019-04-10-01</u>	WIN Import ID:
Enter Field Parameters, Verify Station ID In LIMS DMT: <u>4/23/19</u>	QC Station ID, Field Parameters In LIMS DMT: <u>4/14/19</u>
Scan/Save Field Sheets	Migrate Data to WIN: <u>4/23/19</u>
(Initials/Date)	(Initials/Date)
Verify Data In WIN:	(Initials/Date)

Contains: 1.1 H2SO4
Lot No.: SA8344070
Expires: 12/10/19
See Safety Data Sheet (SDS)

Contains: 1.1 H2SO4
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Place Preservation
(If Applicable)

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 ID:

POBSS 155075
2014-03-04-69

RQ:

2019-03-04-69

Project:

Kilom Lake

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(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

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.	Jason Storr	4/10/19	755	22.7	8.7	8.70	98.9	N/A	1.034	Ⓟ/F	Ⓟ/F
ICV	Jason Storr	4/10/19	800	21.5	8.7	8.74	99.0			Ⓟ/F	Ⓟ/F
CCV	Will Lesley	4/10/19	1440	28.1	7.8	7.87	100.6			Ⓟ/F	Ⓟ/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Jason Storr	4/10/19	740	180621 C	07/2019	1000	1000	Ⓟ/F	Ⓟ/F
ICV	Jason Storr	4/10/19	742	180581	05/2020	100	101.2	Ⓟ/F	Ⓟ/F
CCV	Will Lesley	4/10/19	1444	120581	05/2020	100	102	Ⓟ/F	Ⓟ/F
CCV								P/F	L/F

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.	Jason Storr	4/10/19	743	180403 C	10/2019	7.02	7.02	152.9	Ⓟ/F	Ⓟ/F
Calibr.	Jason Storr	4/10/19	744	180621 D	07/2019	4.00	4.00	-24.5	Ⓟ/F	Ⓟ/F
Calibr.	Jason Storr	4/10/19	745	180621 F	01/2020	10.05	10.02	-191.0	Ⓟ/F	Ⓟ/F
ICV	Jason Storr	4/10/19	746	180621 F	01/2020	10.00	10.02	-191.7	Ⓟ/F	Ⓟ/F
CCV	Will Lesley	4/10/19	1446	180621 D	07/2019	4.0	4.0	148.9	Ⓟ/F	Ⓟ/F
CCV									P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass/ Fail	Lab/ Field	CCV
Pressure mode in air	Jason Storr	4/10/2019	750	0.00	0.271	Ⓟ/F	Ⓟ/F	0.00

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By:

Storrs / Laskey

Field Report Prepared By:

Storrs

Sampling Agency:

EDER

WIN ID / FILED ID → G1WA0043 Location Lake Tom John Middle		☐ Comp ☒ Grab Date 4/10/2019 Time 12:18	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 109.2	pH 7.9	Sample Depth 0.3	Sp. Conductance (umho/cm) 67	Composite end Date —	Total Res. Chlorine (mg/L) —	Bottle Group(s) (See pg 2) A
WIN ID / FILED ID → G1WA0054 Location Pine Hill Lake Middle		☐ Comp ☒ Grab Date 4/10/2019 Time 07:50	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 109.1	pH 7.6	Sample Depth 0.3	Sp. Conductance (umho/cm) 49	Composite end Date —	Total Res. Chlorine (mg/L) —	Bottle Group(s) A
Location Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms		Matrix (type, e.g., Salt, Fresh, etc) Temp (C) ☐ Salinity (ppt)		pH Sample Depth		Sp. Conductance (umho/cm)		Eastern Central Composite end Date Time		
Field ID WIN/STORET #		Collection (comp begin or grab) Date Time		Diss. Oxygen mg/L Total Res. Chlorine (mg/L)		Sample Depth ft (umho/cm)		Eastern Central Composite end Date Time		
Location Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms		Matrix (type, e.g., Salt, Fresh, etc) Temp (C) ☐ Salinity (ppt)		pH Sample Depth		Sp. Conductance (umho/cm)		Eastern Central Composite end Date Time		
Field ID WIN/STORET #		Collection (comp begin or grab) Date Time		Diss. Oxygen mg/L Total Res. Chlorine (mg/L)		Sample Depth ft (umho/cm)		Eastern Central Composite end Date Time		
Location Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms		Matrix (type, e.g., Salt, Fresh, etc) Temp (C) ☐ Salinity (ppt)		pH Sample Depth		Sp. Conductance (umho/cm)		Eastern Central Composite end Date Time		
Field ID WIN/STORET #		Collection (comp begin or grab) Date Time		Diss. Oxygen mg/L Total Res. Chlorine (mg/L)		Sample Depth ft (umho/cm)		Eastern Central Composite end Date Time		
Location Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms		Matrix (type, e.g., Salt, Fresh, etc) Temp (C) ☐ Salinity (ppt)		pH Sample Depth		Sp. Conductance (umho/cm)		Eastern Central Composite end Date Time		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
<i>Will Laskey</i>	4/10/19 14:24			<i>[Signature]</i>	4/10/19

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Storrs

Project ID: SMP

Collected By: Storrs / LasleySampling Agency: FDDEP

Lc	WIN ID / FILED ID → G1WA0040	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 4/10/2019 Time 1036	Eastern Central	Composite end Date — Time —	Bottle Group(s) (See pg 2)
Fi	Location Lower Dianne Lake Middle	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 102.0	☐ mg/L Total Res. Chlorine ☒ % sat (mg/L)		A
W	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Temp (C) 23.3	pH 7.5	Sample Depth 0.3	Sp. Conductance (umho/cm) 774
L	WIN ID / FILED ID → G1WA0041	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 4/10/2019 Time 1130	Eastern Central	Composite end Date — Time —	Bottle Group(s)
F	Location Upper Dianne Lake Middle	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 118.2	☐ mg/L Total Res. Chlorine ☒ % sat (mg/L)		A
V	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Temp (C) 24.2	pH 9.1	Sample Depth 0.3	Sp. Conductance (umho/cm) 82
L	WIN ID / FILED ID → G1WA0004	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 4/10/2019 Time 0914	Eastern Central	Composite end Date — Time —	Bottle Group(s)
F	Location Lake Arrowhead at boat dock at Turtle Crk Ln near outlet	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 91.1	☐ mg/L Total Res. Chlorine ☒ % sat (mg/L)		A
V	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Temp (C) 22.8	pH 7.1	Sample Depth 0.3	Sp. Conductance (umho/cm) 75
Location	Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☐ mg/L Total Res. Chlorine ☐ % sat (mg/L)		
MIN/STORE #	Temp (C)	pH	Sample Depth	☐ ft Sp. Conductance (umho/cm) ☐ m		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.03	Comments			

Relinquished By: <u>Will Lasley</u>	Date/Time 4/10/19	Shipping Method H	Number of Coolers Shipped: 2	Received By: <u>[Signature]</u>	Date/Time 4/10/19
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Group: A	Bottle Type: P-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: A	Bottle Type: BP-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
CHLSUITE-W						
Group: A	Bottle Type: P-500ML	# of Bottles: 5	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	5
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
H2SO4 LOT# S98344870 EXP: 12/10/2019						
Group: A	Bottle Type: P-125ML	# of Bottles: 5	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	5
W-PO4-F						
Group: B	Bottle Type: P-1L	# of Bottles: 5	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: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
CHLSUITE-W						
Group: B	Bottle Type: P-250ML-WO-THI	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
ECOLI-18QT						
Group: B	Bottle Type: P-500ML	# of Bottles: 5	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	
						