



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

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petty Gulf Lake at Deertake Rd. East

Data Qualified?
Yes / No

STORET Station Name: Lake Petty Gulf at Deertake Rd. East BR Date: 2-9-16
(mm/dd/yyyy)

STORET Station ID: GIWA0016 Latitude: 30° 35.238'
(Decimal Degrees)

WBID: 564c RQ: 2016-02-08-09 ORG ID: 21FLWQA Longitude: 84° 13.384'
(Decimal Degrees)

Receiving Body of Water: _____ Field ID: GIWA0016 County: Leon

Sampling Team Members								Sampling Equipment			
								☒ Sample Container	☐ Van Dorn	☐ Pole	
								☐ Carboy	☒ Syringe		
								☐ Dipper	☐ Other		
Equipment ID <u>N/A</u>											
Collection Method											
☐ Wading								☐ Via Boat			
☒ From Shore								☐ Canoe/Kayak			
☐ Other (note below)								☐ Electric Motor			
								☐ Gasoline Motor			

Water Level:	Dry	/	Low	/	Normal	/	High	/	Flooded	Matrix:	Fresh	/	Marine	/	DI		
Meter ID#	<u>Bio # 7</u>					Photos:	<u>Yes</u> / No					Tide Falling:	<u>Yes</u> / No / <u>NA</u>				

Field Sample										
Time Zone	Time	Total Depth (m)	Sample Depth	Temp (°C)	DO (mg/L)	DO (%SAT)	COND (µmhos/cm)	Salinity (ppt)	pH	Secchi Disk (m)
EST	10:18	0.5m	0.5m	10.65°	8.95	80.7	654	0.32m	6.74	0.6 visible to bottom
CEN		0.6m								

Biological Samples Collected: <u>None</u> HA SCI LVS RPS LVI Other _____							
Parameter Suite	Parameter Methods			Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ TKN / TP / Nox / NH3 / TOC ☐ Other _____			☒ Ice ☒ H2SO4	<u>See below</u>		☒ <2
Metals	☐ W-ICPMS ☐ W-ICP			☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ oP ☒ Field Filtered 0.45 µm Filter			☒ Ice			
Chlorophyll	☒ CHLSUITE-W			☒ Ice			
BOD	☒ BOD-INHB ☒ BOD-UNIN			☒ Ice			
Physical/Aggregate	☒ TSS / Turbidity / Alkalinity / Color ☐ Other _____			☒ Ice			
Macroinvertebrates	☐ MI-FW-QLDC			☐ Formalin			
Microbiology	☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR			☐ Ice			
Periphyton	☐ ALGAE-ID			☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH			☐ Ice ☐ Other _____			

Contains 1:1 Sulfuric Acid SA-5259020 EXP: 09/16/16 Warning! See MSDS

QA/QC Sample Information

Duplicate N/A

Time Zone: EST CEN		Sample Depth (m): _____		Field ID: _____	
Time: _____		Total Depth (m): _____			
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☐ TKN / TP / Nox / NH3 / TOC ☐ Other _____	☐ Ice ☐ H ₂ SO ₄			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2
Filtered Nutrients	☐ oP ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)		
Chlorophyll	☐ CHLSUITE-W	☐ Ice			
BOD	☐ BOD-INHB ☐ BOD-UNIN	☐ Ice			
Physical/Aggregate	☐ TSS / Turbidity / Alkalinity / Color ☐ Other _____	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other _____			

Blank N/A

Time Zone: EST CEN		Time: _____		Field ID: _____		Location: _____	
☐ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank		Equimnet ID: _____					
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check		
Preserved Nutrients	☐ TKN / TP / Nox / NH3 / TOC ☐ Other _____	☐ Ice ☐ H ₂ SO ₄			☐ < 2		
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2		
Filtered Nutrients	☐ oP ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)				
Chlorophyll	☐ CHLSUITE-W	☐ Ice					
BOD	☐ BOD-INHB ☐ BOD-UNIN	☐ Ice					
Physical/Aggregate	☐ TSS / Turbidity / Alkalinity / Color ☐ Other _____	☐ Ice					
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR	☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other _____					

Notes:

Very windy. station at leeward end of long fetch, blowing at Beaufort number four 5

Do Not US Cond/Salinity Results Probe calibrated WRONG!
Conductivity did Not Pass CCL -

Place Label Here
(If Available)

Signature: _____

[Signature]

Date: _____

2-9-16

Field Parameters Entered into LIMS: _____

CM 2-15-16

(Initials/Date)

Field Parameters QC in LIMS: _____

BR 2/15/16

(Initials/Date)

Date Migrated to STORET: _____

DT 3-11-16

(Initials/Date)

Field Sheets Scanned/Saved: _____

CM 3/16/16

(Initials/Date)

Lake Arrowhead, Lake Kanturk, Petty Gulf Lake and Alford Arm Tributary

Page 1 of 2
last revised Nov 10, 2015

Requester: Benjamin Ralys

Field Report Prepared By: James Albright

Project ID: SMP

Collected By: Benjamin Relys

Sampling Agency: FDEP - WAS

Location		Collection (comp begin or grab)		Sampling Agency: <u>FOEP - WAS</u>		
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Date	Time	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Lake Arrowhead @ boat dock @ Turtle CK Ln near Outlet	☐ Comp ☒ Grab	2-9-14	9:30	Eastern		
STORET # <u>61WA0004</u>	Fresh	Diss. Oxygen	9.87	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
Latitude <u>30.568517</u> ☒ dd ☐ dms	Temp (C) <u>11.71</u>	pH <u>6.54</u>	Sample Depth <u>0.5</u> ☐ ft ☒ m	Sp. Conductance (umho/cm) <u>788</u>		
Longitude <u>84.13394</u> ☐ dd ☒ dms	Salinity (ppt) <u>0.39</u>	Comments <u>Very green water w/ (suspended algae)</u>				
Lake Petty Gulf @ Deer Lake Rd 6.5T	☐ Comp ☒ Grab	2-9-16	10:15	Eastern		
STORET # <u>61WA0016</u>	Fresh	Diss. Oxygen	8.95	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
Latitude <u>30° 35.238' N</u> ☐ dd ☒ dms	Temp (C) <u>10.65</u>	pH <u>6.74</u>	Sample Depth <u>0.5</u> ☐ ft ☒ m	Sp. Conductance (umho/cm) <u>654</u>		
Longitude <u>84° 13.394' W</u> ☐ dd ☒ dms	Salinity (ppt) <u>0.32</u>	Comments <u>Leeward end of long fetch w/ strong winds 15 gusting to 20+ kt</u>				
Killeen Chain of Lakes Outlet @ Vilde Piny Rd by mt Hill ct	☐ Comp ☒ Grab	2-9-14	11:00	Eastern		
STORET # <u>61WA0015</u>	Fresh	Diss. Oxygen	9.39	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
Latitude <u>30° 32.241' N</u> ☐ dd ☒ dms	Temp (C) <u>9.44</u>	pH <u>6.39</u>	Sample Depth <u>0.25</u> ☐ ft ☒ m	Sp. Conductance (umho/cm) <u>594</u>		
Longitude <u>84° 13.708' W</u> ☐ dd ☒ dms	Salinity (ppt) <u>0.29</u>	Comments				
Alford Arm Tributary at Buck Lake Rd	☐ Comp ☒ Grab	2-9-14	12:15	Eastern		
STORET # <u>61WA0017</u>	Fresh	Diss. Oxygen	8.14	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
Latitude <u>30° 27.818' N</u> ☐ dd ☒ dms	Temp (C) <u>10.51</u>	pH <u>6.26</u>	Sample Depth <u>0.5</u> ☐ ft ☒ m	Sp. Conductance (umho/cm) <u>515</u>		
Longitude <u>84° 10.269' W</u> ☐ dd ☒ dms	Salinity (ppt) <u>0.23</u>	Comments				
Relinquished By: <u>[Signature]</u> Date/Time <u>2-9-16/1:28</u> Shipping Method <u>[Signature]</u> Received By: <u>[Signature]</u> Date/Time <u>2-9-16 13:28</u> Relinquished By: <u> </u> Date/Time <u> </u> Received By: <u> </u> Date/Time <u> </u>						

Group: A	Bottle Type:	P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-NO2						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
	BOD-UNIN						
Group: A	Bottle Type:	BP-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
	CHL-CORR-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>4</u>
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 4	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	<u>4</u>
	W-PO4-F						

RQ-2016-02-08-09

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: Bio # 7Project: SMP- Ochlockonee - St. Marks

- 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 _____

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.	J. Albright	2-9-16	0805	18.7°	9.333	9.27	99.4	80.8		P	Lab
ICV	J. Albright	2-9-16	0811	18.8°	9.314	9.27	99.4	79.9		P	Lab
CCV	J. Albright	2-9-16	1345	18.9°	9.295	9.25	99.5	82.9		P	Lab
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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	J. Albright	2-9-16	0815	CC13882	7-15-16	1,000	1,010	P	L
ICV	J. Albright	2-9-16	0817	CC13882	7-15-16	1,000	1,009	P	L
CCV	J. Albright	2-9-16	1346	CC13882	7-15-16	1,000	1,000	F	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.	J. Albright	2-9-16	0820	156244	10-2017	7.0	7.0	-20.7	P	L
Calibr.	J. Albright	2-9-16	0825	154634	7-2017	4.0	4.0	152.2	P	L
Calibr.	J. Albright	2-9-16	0830	146934	10-2016	10.0	10.0	-199.7	P	L
ICV	J. Albright	2-9-16	0835	146934	10-2016	10.0	9.95	-197.3	P	L
CCV	J. Albright	2-9-16	1357	146934	10-2016	10.0	9.9	-194.2	P	L
CCV										

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 mVDepth (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

Cooler Packing Worksheet for Request: RQ-2016-02-08-09
Lake Arrowhead, Lake Kanturk, Petty Gulf Lake and Alford Arm Tributary

Ship Cooler On: 1/25/2016
Customer/Project: WQAP/SMP

Requester: Benjamin Ralys
Priority: 3

850-245-8443
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400
Attn: Benjamin Ralys

Comments:
No preservatives needed.

Requested Analyses:

Bottle Group: A

of Sites: 4

Container ID: P-1L

Qty: 4 Preservation: ICE

Lot # 00063459

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-NO2
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)
Nitrite in aqueous matrices as mg N/L
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: P-1L

Qty: 4 Preservation: ICE

Lot # 00062304

Description: Plastic Bottle 1L

Analysis

BOD-UNIN

Description

BOD, NOT nitrogen-inhibited

Container ID: BP-1L

Qty: 4 Preservation: ICE

Lot # 1154697

Description: Brown Plastic Bottle 1L

Analysis

Description

Container ID: P-500ML

Qty: 4 Preservation: ICE And H2SO4

Lot # 00063222

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: 4 Preservation: ICE-FLTR

Lot # 00062786

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: CVDate: 2/1/16DEP Cooler ID #(s): 2 Coolers

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle (1 per cooler)
- ☒ FedEx Bills, if applicable (1 per cooler)
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

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

N/A

PLEASE RETURN ALL COOLERS FOR RQ-2016-02-08-09