



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

PAGE 1 OF 12

Data Qualified?
Yes ☒ No ☒

STORET Station Name: Petty Gulf lake Middle

Date: 07/20/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0022

WBID: 564C

Latitude: 30.58915

(Decimal Degrees)

County: Leon

RQ - RQ-2016-07-18-47

ORG ID: 21FLWQA

Longitude: -84.22637

(Decimal Degrees)

Receiving Body of Water: LOWER DIANNE LAKE

Field ID: G1WA0022 -07202016

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Curtis Musson									☐ Sample Container	☐ Van Dorn	☐ Pole	
Ben Ralys									☐ Carboy	☒ Syringe		
									☐ Dipper	☐ Other		
									Equipment ID			
									Collection Method			
									☐ Wading	☒ Via Boat		
									☐ From Shore	☒ Canoe/Kayak		
									☐ Other (note below)	☐ Electric Motor		
										☐ Gasoline Motor		
Water Level: Dry / Low / <u>Normal</u> / High / Flooded				Matrix: <u>Fresh</u> / Marine / DI				Tide Falling: Yes / No / <u>NA</u>				
Meter ID# Biology 2				Photos: Yes / <u>No</u>								
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	12:15	0.3	3.0	8.55	117.1	7.86	0.03	1.1	62	32.23		
CEN	12:20	2.5		6.35	84.7	7.09	0.03		62	30.86		
Biological Samples Collected: None <u>HA</u> SCI LVS RPS <u>LVI</u> Other												
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	SA-6133010	05/12/2017	☒ <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					
Microbiology		☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR					☐ Ice					
Periphyton		☐ ALGAE-ID					☐ Ice					
Pesticides		☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R					☐ Ice					
		☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH					☐ Other					

Contains 1:1 Sulfuric Acid SA-6133010 EXP: 05/12/17 Warning! See SDS

Place Sticker(s) Here (if available)

Notes:

SBio-ID: 76546

Macrophyte-ID: 9925



G1WA0022 20 July 2016

Petty Gulf Lake Middle

Signature: Ben Ralys

Date: 7/20/16

Field Parameters Entered into LIMS: CN 7-22-16

(Initials/Date)

Field Parameters QC in LIMS:

Date Migrated to STORET: CN 7-25-16

(Initials/Date)

Field Sheets Scanned/Saved: CN 7-25-16

(Initials/Date)

SBto ID: 76546

DEP Form FD 9000-6: Lake Habitat Assessment Field Sheet

STORET STATION NUMBER: G1WA0022	DATE (M/D/Y) 7-20-16	LAKE NAME Pettys Gulf Lake		FIELD ID / NAME: G1WA0022-07202016
ECO-REGION: Tall Tim	COUNTY: Leon	SAMPLING LOCATION/DESCRIPTION: Pettys Gulf Lake, Middle		LAKE SIZE: 25.3 acres
PARAMETER	No surface inflow or outflow present, very long water residence time, groundwater seepage dominates ☐	Surface water inflow present, but flow is rare, moderate to long water residence time ☐	Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time ☐	Impounded, hydrology of system artificially controlled ☒
HYDROLOGY				
Color	Very clear, uncolored water (benthic sampling appropriate) ☐	Water somewhat tannin stained (benthic sampling appropriate) ☐	Dark, discolored water (water color 20 PCU or higher) ☐	Visibility extremely reduced due to high color ☒
	Optimal	Suboptimal	Marginal	Poor
Secchi 1.0m ☐ 16	Secchi > 3 m Or VOB 20 19 18 17 16	3 2.6 2.2 1.8 1.4 15 14 13 12 11	1.0 0.9 0.8 0.7 0.6 10 9 8 7 6	0.5 0.4 0.3 0.2 0.1 5 4 3 2 1
Vegetation Quality ☐ 2	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 20 19 18 17 16	Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants 15 14 13 12 11	Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats 10 9 8 7 6	Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed) 5 4 3 2 1
Stormwater Inputs ☐ 5	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 18 17 16	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 15 14 13 12 11	Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 10 9 8 7 6	Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place 5 4 3 2 1
Bottom Substrate Quality ☐ 3	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 20 19 18 17 16	Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present 15 14 13 12 11	Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom 10 9 8 7 6	Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom 5 4 3 2 1
Lakeside Adverse Human Alterations ☐ 2	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 20 19 18 17 16	Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected 15 14 13 12 11	Many structures, roads or other human disturbance visible (50%-70%) lakeside affected 10 9 8 7 6	Highly developed or disturbed (>70% of lakeside affected) 5 4 3 2 1
Upland Buffer Zone ☐ 1	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 16	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 15 14 13 12 11	50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 10 9 8 7 6	< 29% of shoreline with >18m buffer 5 4 3 2 1
Adverse Watershed Land Use ☐ 9	Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1			
TOTAL SCORE 32	COMMENTS: Grass carp			
ANALYSIS DATE: 7/20/2016	ANALYST: Curtis Mussen, Ben Ralys		SIGNATURE:	

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 76546 **MACROPHYTE ID:** _____ **LATITUDE:** 30.58915
COUNTY: Leen **STORET #:** 61WA0022 **LONGITUDE:** -84.22637
DATE: 7-20-2016 **TIME:** 12:15 **SAMPLING AGENCY:** FDEP
SITE NAME: Lake Petty Gulf **WBID:** 564C
FIELD ID/NAME: 61WA0022-07202016 **LAKE SIZE:** 25.3 acres **RQ:** 2016-07-18-47

WATERSHED / LAKESIDE FEATURES

SB to tp: 76546

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : <u>Reservoirs</u> Forest/Natural <u>34.2</u> Silviculture <u>9.8</u> Field/Pasture <u>—</u> Agricultural <u>1.1</u> Residential <u>41.6</u> Commercial <u>2.4</u> Industrial <u>5.2</u> Other (Specify) <u>5.6</u>								LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>4.6</u>					
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy								Artificially Impounded ☒ Yes ☐ No					
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy								Land Use Source & Year: <u>NWE 2009-2010</u>					
STORMWATER INPUTS <u>5</u>		Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 18 17 16			Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 15 14 13 12 11			Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 10 9 8 7 6			Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place <u>5</u> 4 3 2 1		
LAKESIDE ALTERATIONS <u>2</u>		Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) 20 19 18 17 16			Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected) 15 14 13 12 11			Many structures, roads or other human disturbance visible (50%-70% lakeside affected) 10 9 8 7 6			Highly developed or disturbed (>70% of lakeside affected) 5 4 3 <u>2</u> 1		
BUFFER ZONE <u>1</u>		Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 16			89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 15 14 13 12 11			50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 10 9 8 7 6			< 29% of shoreline with >18m buffer 5 4 3 2 <u>1</u>		

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water: Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☐ No pH<2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>6133010</u> Exp. Date: <u>5/12/17</u> Alkalinity Sample Taken? ☐ Yes ☒ No Water Level ☐ Low ☒ Normal ☐ High						Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____ Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Meter Readings: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: <u>0.3</u> <u>32.23</u> <u>7.86</u> <u>8.55</u> <u>112.1</u> <u>62</u> <u>0.03</u> Mid-Depth: <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> Bottom: <u>2.5</u> <u>30.86</u> <u>7.09</u> <u>6.35</u> <u>84.7</u> <u>62</u> <u>0.03</u>						Clarity: ☐ Clear ☒ Turbid ☐ Slightly Turbid Color: ☐ Clear ☒ Tannic ☐ Green SECCHI (M) <u>1.1</u> Total Station Depth (M) <u>3.0</u> VOB ☐					
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☒ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____						Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic					
Biological Communities: LVI Conducted? ☒ Yes ☐ No Phytoplankton Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot #: _____ Exp. Date: _____ Algal Bloom/Algal ID Sample Taken? Yes ☒ No Active Vegetation Mgmt? ☒ Yes ☐ No ☐ Don't Know						Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☒ ☐ Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☒ ☐ ☐ Exotic Apple Snails ☒ ☐ ☐ ☐					
Weather Conditions: <u>Clear, Hot, Sunny</u>						Additional Notes: <u>Grass carp</u>					
SAMPLING TEAM: <u>Curtis Muisson / Ben Ralys</u>						SIGNATURE: <u>Curtis Muisson</u>					
DATE: <u>7/20/2016</u>											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site:						Date:					
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	Collected? (✓)
Myriophyllum aquaticum						Salix caroliniana					
*Myriophyllum heterophyllum						Salvinia minima					
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum						Sapium sebiferum					
Myriophyllum spicatum						Saururus cernuus	X		X		
*Najas filifolia						Schinus terebinthifolius					
*Najas guadalupensis						*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani (Scirpus validus)					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)					
Nuphar sp.						Scirpus cyperinus					
Nymphaea odorata						*Sesbania					
Nymphoides aquatica						Solidago sp.					
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.					
Panicum hemitomon						Thalia geniculata					
Panicum repens		X	X	X		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum	X	X			
*Paspalum repens						Typha sp.					
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.						*Utricularia gibba (U. biflora)					
Persea sp.						*Utricularia floridana					
Pennisetum purpureum						*Utricularia foliosa					
Phragmites australis						*Utricularia inflata					
Pinus elliotii						*Utricularia purpurea					
Pistia stratioides						*Utricularia cornuta					
Pluchea sp.						*Utricularia radiata					
*Polygonum glabrum (densiflorum)						Vallisneria americana					
*Polygonum hydropiperoides						*Websteria confervoides					
*Polygonum punctatum			X	X		Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum						Wolffiella spp.					
Pontederia cordata		X				Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)											
Proserpinaca pectinata											
*Rhexia mariguel			X			Viviparus (Eleocharis)	X	X			
*Rhynchospora corniculata						Fr. Pseudocyperus	X		X		
*Rhynchospora inundata						Hydrocotyle quadrivalvis		X	X		
Rhynchospora tracyi						Sedge - Carex lecontei		X	X		
Ricciocarpus natans						Asplenium		X	X		
Sabal palmetto						Unknown Grass (Sarcidra)		X			
Sacciolepis striata			X			Sedge - Carex (Cyperus odoratus)		X			
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis		X	X	X							
Sagittaria lancifolia											
Sagittaria latifolia											

SBJA ID: 76546

Macrophyte ID: 9925

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Petty Gulf</u>					County: <u>Leon</u>					Date: <u>7/20/16</u>				
Analyst: <u>Ben Rals, Curtis Musson</u>					Signature: <u>Ben Rals</u>					STORET:				
Except where noted as "sp." species level identification required. *Genera that may require lab verification* Plants in bold = FLEPPC invasive exotic. It is important to note dominant or co-dominant taxa (by areal extent) for each unit. Use "D" to denote dominant taxon, or "C" for the 2 co-dominant taxa.										Lake units sampled (circle one group): 1, 4, 7, 10 2, 5, 8, 11 <u>(3, 6, 9, 12)</u>				
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	Collected? (✓)			
Acer rubrum				X		Habenaria repens								
Alternanthera philoxeroides	X	X	X	X		Hydrilla verticillata	X	D	X	D				
Andropogon sp.						Hydrocotyle sp.	X	X	X	X				
Azolla filiculoides (A. caroliniana)						Hygrophila polysperma								
Baccharis sp.						*Hypericum fasciculatum								
Bacopa caroliniana	X	X	X	X		*Hypericum hypericoides								
Bacopa monnieri						*Hypericum myrtifolium								
Bidens laevis			X	X		Ilex cassine								
Bidens mitis						Ipomoea aquatica								
Blechnum serrulatum						Ipomoea sagittata								
Boehmeria cylindrica	X					Itea virginica	CM	X	X					
Brasenia schreberi						Juncus effusus								
Cabomba caroliniana						*Juncus marginatus								
Casuarina equisetifolia						*Juncus megacephalus								
Centella asiatica			X	X	CM	Juncus repens								
Cephalanthus occidentalis	X					*Juncus scirpoides								
Ceratophyllum demersum	CM	X				Lachnanthes caroliniana								
Chara sp.	X			X		Leersia hexandra								
Cladium jamaicense						Landoltia punctata (Spirodela punctata)								
Cliftonia monophylla	CM	X				Lemna sp.								
Colocasia esculenta	X	X	X	X		Leucothoe racemosa (Eubotrys racemosa)		X	X	X	CM			
*Commelina						Limnobia spongia								
Crinum americanum						Limnophila sessiliflora								
* Cyperus alternifolius (C. involucratus)						Liquidambar styraciflua								
Cyperus articulatus						*Ludwigia arcuata		X	X					
Cyperus haspan						*Ludwigia leptocarpa								
*Cyperus lecontei		X				*Ludwigia linearis								
*Cyperus polystachyos						*Ludwigia octovalvis								
*Cyperus odoratus				X		* Ludwigia peruviana								
*Cyperus surinamensis						*Ludwigia repens		X						
Cyrilla racemiflora	X					*Ludwigia								
Decodon verticillatus						Luziola fluitans (Hydrochloa carolinensis)		X						
Diodia virginiana						Lyonia lucida								
*Echinochloa crus-galli						Magnolia virginiana								
*Echinochloa muricatum						Mayaca fluviatilis								
Echinochloa walteri						Melaleuca quinquenervia								
Eclipta prostrata (E. alba)						Micranthemum glomeratum			X	X				
Egeria densa						Micranthemum umbrosum			X	X	CM			
Eichhornia crassipes		X		X		Mikania scandens								
*Eleocharis baldwinii		X		X		Mimosa pigra								
*Eleocharis						Myrica cerifera		X	X	X				
Eleocharis cellulosa														
Eleocharis equisetoides														
Eleocharis interstincta														
*Eriocaulon compressum														
*Eriocaulon decangulare														
Eupatorium capillifolium														
*Fuirena														
Fuirena scirpoidea														
Gordonia lasianthus														

Macrophyte QC Report

STORET: G1WA0022

Visit ID: 76546

Macrophyte ID: 9925

LIMS ID:

Sample Date: 7/20/2016

Collector Name: Musson, Curtis

Identifier Name: Musson, Curtis

Macrophyte Sample Comments:

Taxa Name:	Rep 1	Rep 2	Rep 3	Rep 4	
<i>Acer rubrum</i>			P		cm
<i>Alternanthera philoxeroides</i>	P	P	P	P	cm
<i>Bacopa caroliniana</i>	P	P	P	P	cm
<i>Bidens laevis</i>			P	P	cm
<i>Boehmeria cylindrica</i>	P				cm
<i>Cephalanthus occidentalis</i>	P				cm
<i>Chara</i>	P			P	cm
<i>Colocasia esculenta</i>	P	P	P	P	cm
<i>Cyperus lecontei</i>		P			cm
<i>Cyperus odoratus</i>				P	cm
<i>Cyrilla racemiflora</i>	P				cm
<i>Eichhornia crassipes</i>		P		P	cm
<i>Eleocharis baldwinii</i>		P		P	cm
<i>Eleocharis vivipara</i>	P	P			cm
<i>Hydrilla verticillata</i>	P	D	C	D	cm
<i>Hydrolea quadrivalvis</i>		P	P		cm
<i>Iris pseudacorus</i>	P		P		cm
<i>Ludwigia arcuata</i>		P	P		cm
<i>Ludwigia repens</i>		P			cm
<i>Luziola fluitans</i>		P			cm
<i>Micranthemum glomeratum</i>		P	P		cm
<i>Myrica cerifera</i>	P	P	P		cm
<i>Panicum repens</i>	D	P	C	P	cm
<i>Polygonum punctatum</i>		P	P	P	cm
<i>Pontederia cordata</i>	P				cm
<i>Rhexia</i>			P		cm
<i>Sacciolepis striata</i>			P		cm
<i>Sagittaria isoetiformis</i>	P	P	P	P	cm
<i>Saururus cernuus</i>	P		P		cm
<i>Triadenum virginicum</i>	P	P			cm

7-25-2016

This data has not been fully approved at this time.



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 page.

Meter **Bios Y #2**

RQ- **2016-07-18-47**

Project **Smp**

- 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 **06/03/2016**

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.	Curtis Musson	7/20/16	718	23.4	8.514	8.52	100.0	43.1	—	P	LAB
ICV	Curtis Musson	7/20/16	719	23.4	8.514	8.53	100.2	43.1	—	P	LAB
CCV	Curtis Musson	7/20/16	1356	30.1	7.533	7.68	101.7	44.1	—	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	7-20-16	721	160330D	04/2017	1000	1000	P	LAB
ICV	Curtis Musson	7/20/16	723	160330D	04/2017	1000	1000	P	LAB
CCV	Curtis Musson	7/20/16	1356	2601533	12/2017	100	100	P	LAB
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.	Curtis Musson	7/20/16	723	160330B	10/2017	7.0	7.00	49.1	P	L
Calibr.	Curtis Musson	7/20/16	728	160330A	04/2017	4.01	4.01	—	P	L
Calibr.	Curtis Musson	7/20/16	730	160330C	10/2017	10.01	10.01	-189.6	P	L
ICV	Curtis Musson	7/20/16	732	160330A	04/2017	4.01	4.02	159.2	P	L
CCV	Curtis Musson	7/20/16	1403	160330C	10/2017	10.01	10.02	-189	P	LAB
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 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

Request Number: RQ-2016-07-18-47

Petty Gulf Lake and Lake Monkey Business

Florida Department of Environmental Protection Central Laboratory Submittal Form

Page 1 of 2

last revised Apr 7, 2016

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Collected By: Ben Ralys / Curtis Mussen

Field Report Prepared By: Curtis Mussen

Sampling Agency: FDSP

Location	Lake Monkey Business, Middle			☐ Comp	Collection (comp begin or grab)	☒ Grab	Date	Time	Eastern	Composite end	Bottle Group(s)
Field ID	GIWA0036-07202016				Date	7-20-16	Time	0955	Central	Date	Time
STORET #	GIWA0036			Matrix (type, e.g., Salt, Fresh, etc)	Fresh		Diss. Oxygen	200	☒ mg/L	Total Res. Chlorine	(mg/L)
Latitude	30.60779	☒ dd	Longitude	-84.23076	☒ dd	Temp (C)	31.42	pH	7.15	Sample Depth	0.3
	☐ dms			☐ dms		Salinity (ppt)	0.03	Comments	SMP LVI		
Location	Petty Gulf Lake			☐ Comp	Collection (comp begin or grab)	☒ Grab	Date	Time	Eastern	Composite end	Bottle Group(s)
Field ID	GIWA0022-07202016				Date	7/20/16	Time	12:15	Central	Date	Time
STORET #	GIWA0022			Matrix (type, e.g., Salt, Fresh, etc)	Fresh		Diss. Oxygen	8.55	☒ mg/L	Total Res. Chlorine	(mg/L)
Latitude	30.58915	☒ dd	Longitude	-84.22637	☒ dd	Temp (C)	32.23	pH	7.86	Sample Depth	0.3
	☐ dms			☐ dms		Salinity (ppt)	0.03	Comments	SMP LVI		
Location				☐ Comp	Collection (comp begin or grab)	☐ Grab	Date	Time	Eastern	Composite end	Bottle Group(s)
Field ID					Date		Time		Central	Date	Time
STORET #				Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen		☐ mg/L	Total Res. Chlorine	(mg/L)
Latitude		☐ dd	Longitude		☐ dd	Temp (C)		pH		Sample Depth	
	☐ dms			☐ dms		Salinity (ppt)		Comments			
Location				☐ Comp	Collection (comp begin or grab)	☐ Grab	Date	Time	Eastern	Composite end	Bottle Group(s)
Field ID					Date		Time		Central	Date	Time
STORET #				Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen		☐ mg/L	Total Res. Chlorine	(mg/L)
Latitude		☐ dd	Longitude		☐ dd	Temp (C)		pH		Sample Depth	
	☐ dms			☐ dms		Salinity (ppt)		Comments			

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Mussen	7/20/16	DMPOR		AS	7-20-16/13:41
13:41					

Group: A Bottle Type: P-1L # of Bottles: 2 Preservative: ICE Enter Number of Bottles Sent to Lab 2

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

Group: A Bottle Type: BP-1L # of Bottles: 2 Preservative: ICE Enter Number of Bottles Sent to Lab 2

CHLSUITE-W

Group: A Bottle Type: P-500ML # of Bottles: 2 Preservative: ICE And H2SO4 Enter Number of Bottles Sent to Lab 2

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

Group: A Bottle Type: P-125ML # of Bottles: 2 Preservative: ICE-FLTR Enter Number of Bottles Sent to Lab 2

W-PO4-F

Cooler Packing Worksheet for Request: RQ-2016-07-18-47

Petty Gulf Lake and Lake Monkey Business

Ship Cooler On: 7/5/2016

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.

Bottle Group A: freshwater kit no metals

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 00064935

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
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)
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 2 Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 2 Preservation: ICE And H₂SO₄

Lot # 00065372

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

Description

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

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: 2 Preservation: ICE-FLTR

Lot # 00065090

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Cooler Packed By: SK

Date: 7-15-16

DEP Cooler ID #(s): 10001er

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 # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-07-18-47