FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF 11 DT 9/28/17

Data Qualified? Yes / (No)

Location/STORET Station Name: Lower Dianne Lake Middle **Date:** 9/27/17 (mm/dd/yyyy)

STORET # G1WA0040 **WBID:** 546A **Latitude:** 30.59355 (Decimal Degrees)

County: Leon **RQ -** 2017-09-25-40 **ORG ID:** 21FLWQA **Longitude:** -84.23534 (Decimal Degrees)

Receiving Body of Water: Lake Iamonia **Field ID:** G1WA0040_9272017

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson		X		X	X
Blake Spencer	X		X		

Sampling Equipment

- [X] Sample Container
- [ ] Carboy
- [ ] Dipper
- [ ] Van Dorn
- [X] Syringe
- [ ] Other
- [ ] Pole

Equipment ID

Collection Method

- [ ] Wading
- [ ] From Shore
- [ ] Other (note below)

Via Boat

- [X] Canoe/Kayak
- [X] Electric Motor
- [ ] Gasoline Motor

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

Matrix: (Fresh) / Marine / DI

Meter ID# Biology #2 **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	1012	.3m	2.7	9.98	116.1	8.51	.04	1.5	85	28.71
CEN	1019	2.2		8.75	113.3	8.32	.04		84	28.55

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

SBIO ID Numbers: SBIO-ID: 77950 RPS-ID: Macrophyte-ID: 10733 LIMS#: 1932185

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	[X] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[X] Ice [X] H_2SO_4	7163030	6/12/18	[X] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[X] W-PO4-F [X] Field Filtered 0.45 µm Filter	[ ] Ice			
Chlorophyll	[X] CHLSUITE-W	[ ] Ice			
Physical/Aggregate (Fresh)	[X] 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	[X] E Coli [ ] F Coli [ ] Enterococci [ ] qPCR	[X] Ice			
Tracers	[ ] W-SUC-AA-R [ ] W-UHERB-AA [ ] W-AHERB-AA	[ ] Ice			
Pesticides	[ ] W-PSNP-TQ [ ] W-AHERB-AA [ ] W-PYR-AA-R [ ] W-PCL-SQ-R [ ] W-UHERB-AA [ ] W-GLYPH [ ] W-SUC-AA-R	[ ] Ice [ ] Other			

Contains 1:1 Sulfuric Acid
Lot No.: SA7163030
Expires: 06/12/18
See Safety Data Sheet (SDS)

THERMO FISHER SCIENTIFIC
5201 NORTH MAIN STREET
MIAMI, OK 74354
1-800-962-2711

Contains 1:1 Sulfuric Acid

SULFURIC ACID >51%
DANGER
7664-93-9
7732-18-5

May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fumes/mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. *Wash contaminated clothing before reuse. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Store in corrosive resistant container with a resistant inner liner.

Sticker(s) Here

Notes:

Kit-A, Bacteria

Lower Dianne Lake Middle

STORET

G1WA0040

Field ID

Lower Dianne Lake Middle

Sept 27, 2017

G1WA0040_09272017

Signature: Curtis Musson **Date:** 9-27-17

Field Parameters Entered into LIMS: DT 9/28/17 (Initials/Date) Field Parameters QC in LIMS:

Date Migrated to STORET: (Initials/Date) Field Sheets Scanned/Saved: DT 9/28/17 (Initials/Date)

SBIO ID: 77950
Macrophyte ID: 10733
LIMS ID: 1932185

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ **MACROPHYTE ID:** _____ LATITUDE: _____
COUNTY: Leon STORET #: G1WA0040 LONGITUDE: _____
DATE: 09/27/2017 TIME: 1012 SAMPLING AGENCY: FDEP
SITE NAME: Lower Dianne Lake Middle WBID: 546A
FIELD ID/NAME: G1WA0040_09272017 LAKE SIZE: 66 acres RQ: 2017-09-25-40

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) :

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)
34	10		1	42	3	5	6 (Water)

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) **LDI:** 4.6

Land Use Source & Year:

Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy

Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy

Artificially Impounded ☒ Yes ☐ No

STORMWATER INPUTS 4	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place	Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place	Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
LAKESIDE ALTERATIONS 2	Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected)	Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected)	Many structures, roads or other human disturbance visible (50%-70% lakeside affected)	Highly developed or disturbed (>70% of lakeside affected)
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
BUFFER ZONE 2	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer	50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer	< 29% of shoreline with >18m buffer
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water:
Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☒ pH<2 ☐ No
Color Sample Taken? ☐ Yes ☐ No Lot # 71630 Exp. Date: 6/12/18
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:	0.3	28.71	8.51	8.98	116.1	85	0.04
Mid-Depth:							
Bottom :	2.2	28.55	8.32	8.75	113.3	84	0.04

Meter ID: Biology #2

Clarity: ☐ Clear ☐ Opaque ☒ Turbid ☐ Slightly Turbid

Color: ☐ Clear ☐ Tannic ☒ Green

SECCHI (M) 1.5 VOB ☐

Total Station Depth (M) 2.7

Sediment Type: (may check more than one)
☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated
☒ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify):_____

Sample Taken? ☐ Yes ☒ No

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	☐	☒	☐	☐

Additional Notes:
Active Veg. Management, Grass Carp

Weather Conditions : 90's, Sunny, DRY

SAMPLING TEAM: Curtis Musson, Blake Spencer **SIGNATURE:** _____ **DATE:** 9/27/17

62-160.800, F.A.C.

Revision Date: March 1, 2014

SBIO ID: 77950
Macrophyte ID: 10733
LIMS ID: 1932185

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

STORET STATION NUMBER: G1WA0040	DATE (M/D/Y) 09/27/2017	LAKE NAME Lower Dianne Lake	FIELD ID / NAME:
ECO-REGION: Tallahasse Hills, Valdosta Lime Sink	COUNTY: Leon	SAMPLING LOCATION/DESCRIPTION: Lower Dianne Lake Middle	LAKE SIZE: 66 Acres

PARAMETER				
HYDROLOGY	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 ☒
Color $\bar{X}$=8.4 PCU	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 (1.5m) 11	Secchi >3 m / Secchi(m)	3 2.6 2.2 1.8 1.4	1.0 0.9 0.8 0.7 0.6	0.5 0.4 0.3 0.2 0.1
	Or VOB 20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Vegetation Quality 2	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa	Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants	Large masses (21%- 40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats	Lake choked (>40%) with nuisance macrophytes (duck-weed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed)
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Stormwater Inputs 4	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place	Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place	Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bottom Substrate Quality 10	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present	Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present	Moderate layer of CPOM/ mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom	Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Lakeside Adverse Human Alternations 2	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%)	Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected	Many structures, roads or other human disturbance visible (50%-70%) lakeside affected)	Highly developed or disturbed (>70% of lakeside affected)
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Upland Buffer Zone 2	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer	50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer	< 29% of shoreline with >18m buffer
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	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	40	COMMENTS: Grass carp in the system. Most/All Aquatic Veg removed

ANALYSIS DATE: 9/27/17	ANALYST: Curtis Musson, Blake Spencer	SIGNATURE:

SBIO ID: 77950
Macrophyte ID: 10733 LIMS ID: 1932185

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: LOWER DIANNE LAKE, G1WA0040 | Date: 09/27/2017

SPECIES	1	4	7	10	Collected? (√)	SPECIES	1	4	7	10	Collected? (√)
Myriophyllum aquaticum						Salix caroliniana					
*Myriophyllum heterophyllum						**Salvinia minima**					
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum						**Sapium sebiferum**					
Myriophyllum spicatum						Saururus cernuus					
*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		X				Thalia geniculata					
Panicum repens	A	X	X	A		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum		X			
*Paspalum repens				A		Typha sp.					
Paspalum urvillei	X		X	X		**Urochloa mutica (Brachiaria mutica)**					
Peltandra sp.						*Utricularia gibba (U. biflora)					
Persea sp.						*Utricularia floridana					
Pennisetum purpureum						*Utricularia foliosa					
Phragmites australis						*Utricularia inflata					
Pinus elliottii						*Utricularia purpurea					
Pistia stratioides						*Utricularia cornuta					
Pluchea sp.						*Utricularia radiata					
*Polygonum glabrum (densiflorum)						Vallisneria americana					
*Polygonum hydropiperoides	X					*Websteria confervoides					
*Polygonum punctatum						**Wedelia trilobata (Sphagneticola trilobata)**					
*Polygonum						Wolffiella spp.					
Pontederia cordata						Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)											
Proserpinaca pectinata											
*Rhexia Mariana				X							
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynochospora tracyi											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata	X	A	X	X							
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											

SBIO ID: 77950
Macrophyte ID: 10733 LIMS ID: 1932185

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: LOWER DIANNA LAKE	County: Leon	Date: 9/27/2017
Analyst: Curtis Musson, Blake Spencer	Signature: Curtis Musson	STORET: G1WA0040

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 3, 6, 9, 12

SPECIES	1	4	7	10	Collected? (√)
Acer rubrum					
Alternanthera philoxeroides		X	X	X	
Andropogon sp.					
Azolla filiculoides (A. caroliniana)					
Baccharis sp.	X				
Bacopa caroliniana	X	X	X	X	
Bacopa monnieri					
Bidens laevis	X			X	
Bidens mitis					
Blechnum serrulatum					
Boehmeria cylindrica	X	X	X	X	
Brasenia schreberi					
Cabomba caroliniana					
Casuarina equisitifolia					
Centella asiatica					
Cephalanthus occidentalis					
Ceratophyllum demersum					
Chara sp.					
Cladium jamaicense					
Cliftonia monophylla					
Colocasia esculenta					
*Commelina					
Crinum americanum					
***Cyperus alternifolius** (C. involucratus)					
Cyperus articulatus					
Cyperus haspan					
*Cyperus lecontei					
*Cyperus polystachyos					
*Cyperus odoratus	X			X	
*Cyperus surinamensis					
Cyrilla racemiflora		X	X		
Decodon verticillatus					
Diodia virginiana				X	
*Echinochloa crus-galli					
*Echinochloa muricatum					
Echinochloa walteri					
Eclipta prostrata (E. alba)		X			
Egeria densa					
Eichhornia crassipes					
*Eleocharis baldwinii					
*Eleocharis viviparus	X	X	X		
Eleocharis cellulosa					
Eleocharis equisetoides					
Eleocharis interstincta					
*Eriocaulon compressum					
*Eriocaulon decangulare					
Eupatorium capillifolium					
*Fuirena					
Fuirena scirpoidea					
Gordonia lasianthus					

SPECIES	1	4	7	10	Collected? (√)
Habenaria repens				X	
Hydrilla verticillata					
Hydrocotyle sp.	X	X	X	X	
Hrdrolea quadrivalis	X	X	X	X	
Hygrophila polysperma					
*Hypericum fasciculatum					
*Hypericum hypericoides					
*Hypericum myrtifolium					
Ilex cassine					
Ipomoea aquatica					
Ipomoea sagittata					
Iris pseudacorus					
Itea virginica					
Juncus effusus					
*Juncus marginatus					
*Juncus megacephalus					
Juncus repens					
*Juncus scirpoides					
Lachnanthes caroliniana					
Leersia hexandra					
Landoltia punctata (Spirodela punctata)					
Lemna sp.					
Leucothoe racemosa (Eubotrys racemosa)					
Limnobium spongia					
Limnophila sessiliflora					
Liquidamber styraciflua				X	
*Ludwigia arcuata		D	D		
*Ludwigia leptocarpa	X	X	X	X	
*Ludwigia linearis		X			
*Ludwigia octovalvis					
***Ludwigia peruviana**					
*Ludwigia repens					
*Ludwigia					
Luziola fluitans (Hydrochloa carolinensis)					
Lycopus ~~virginicus~~ americana				X	
Lyonia lucida					
Magnolia virginiana					
Mayaca fluviatilis					
Melaleuca quinquenervia					
Micranthemum glomeratum					
Micranthemum umbrosum	X	X	X	X	
Mikania scandens	X	X		X	
Mimosa pigra					
Myrica cerifera	X	X	D		
Bidens alba				X	

Boldly "X" this box if there is qualified data on this page.

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Meter ID: Biology #2 RQ- 2017-09-25-40 Project: SMP

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.	Blake Spencer	9/27/17	0727	22.55	8.684	8.65	100.0	51.2		(P) / F	(P) F
ICV	Blake Spencer	9/27/17	0729	22.54	8.660	8.65	100.0	52.3		(P) / F	(P) F
CCV	Curtis Musson	9/27/17	1613	23.21	8.546	8.64	101.1	53.3		(P) / F	(P) / F
CCV										P / F	L / F

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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	9/27/17	0731	170310D	03/2018	1000	1001	(P) / F	(L) F
ICV	Blake Spencer	9/27/17	0732	170310D	03/2018	1000	1001	(P) / F	(L) / F
CCV	Curtis Musson	9/27/17	1608	170614D	06/2018	100	104	(P) / F	(L) / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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.	Blake Spencer	9/27/17	0739	170310B	09/2018	7.0	7.00	34.9	(P) / F	(L) F
Calibr.	Blake Spencer	9/27/17	0746	170614A	06/2018	4.0	4.00	202.7	(P) / F	(L) F
Calibr.	Blake Spencer	9/27/17	0751	170310C	09/2018	10.0	9.99	-126.6	(P) / F	(L) F
ICV	Blake Spencer	9/27/17	0754	170310C	09/2018	10.0	10.00	-126.9	(P) F	(L) F
CCV	Curtis Musson	9/27/17	1610	170614A	06/2018	4.01	4.18	191	(P) / F	(L) / F
CCV									P / F	L / F

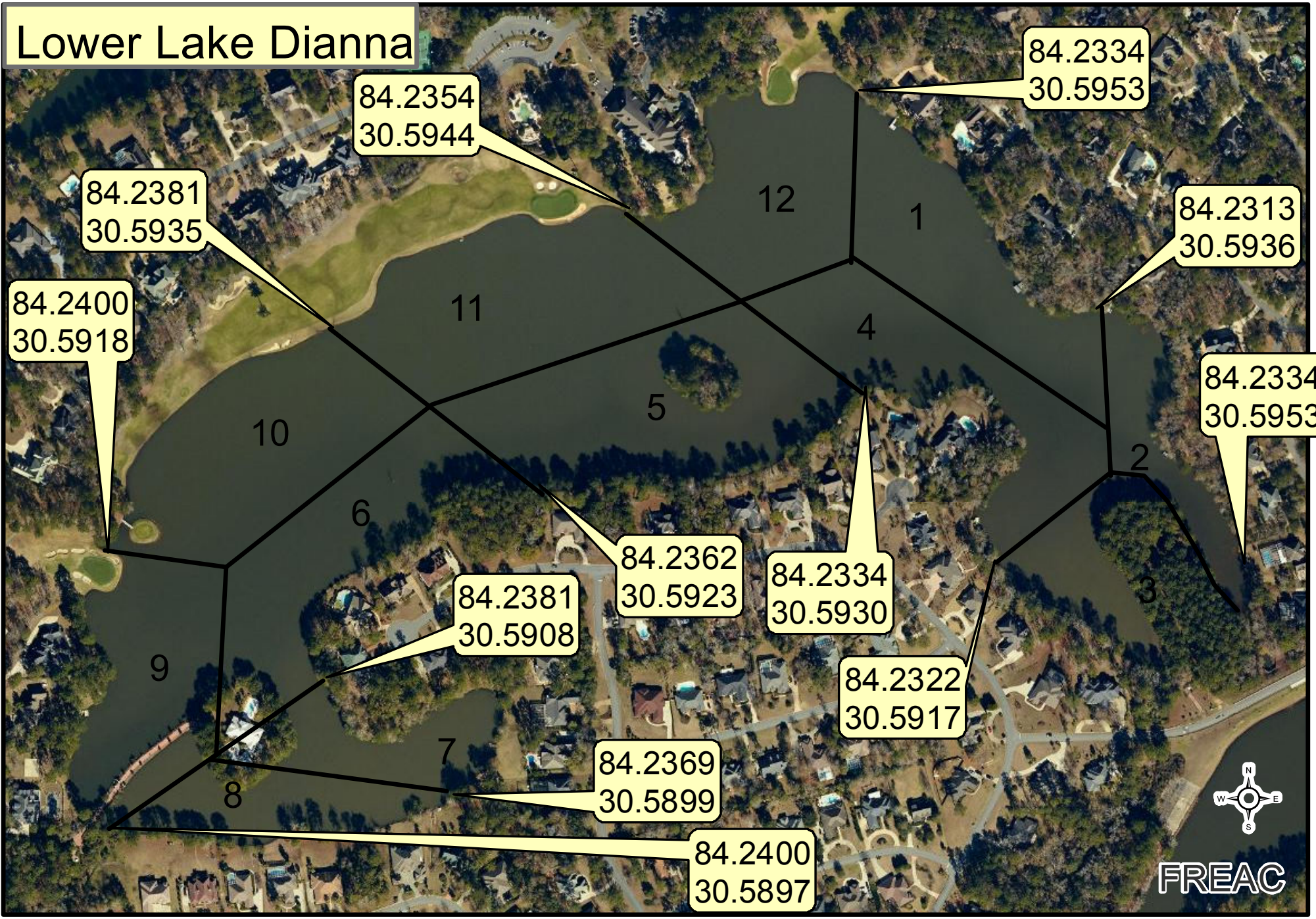
pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 161.5, slope from 4 to 7 167.8 (both must be between 165 and 180 mV)

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
Pressure mode in air						P / F	L / F

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

COMMENTS:


Lower Lake Dianna
84.2334
30.5953
84.2354
30.5944
84.2381
30.5935
84.2313
30.5936
84.2400
30.5918
84.2334
30.5953
84.2362
30.5923
84.2334
30.5930
84.2381
30.5908
84.2322
30.5917
84.2369
30.5899
84.2400
30.5897
12
1
11
4
5
10
6
2
3
9
7
8
N
W
E
S
FREAC

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: 2017-09-25-40
Killearn Lakes Chain of Lakes
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson
Collected By: Curtis Musson, Blake Spencer

Field Report Prepared By: Curtis Musson
Sampling Agency: FDEP

Location: Pine Hill Lake Middle
STORET: Q1WA0054
Field ID: Pine Hill Lake Middle Sept. 27, 2017 Q1WA0054_09272017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/27/17 Time 0951 (Eastern / ~~Central~~)
Collection (comp begin or grab) Date / Time /	Bottle Group(s): AB
Matrix (Salt, Fresh): Fresh	Diss. Oxygen (mg/L): 7.76
Temp (C): 28.78	pH: 7.94
Sample Depts (m): 0.3	Sp. Conductance (umho/cm): 44
Salinity (ppt): 0.02	Comments:
Latitude (Decimal Degrees):	Longitude (Decimal Degrees):

Location: Petty Gulf Lake Middle
STORET: Q1WA0022
Field ID: Petty Gulf Lake Middle Sept. 27, 2017 Q1WA0022_09272017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/27/17 Time 1051 (Eastern / ~~Central~~)
Collection (comp begin or grab) Date / Time /	Bottle Group(s): A, B
Matrix (Salt, Fresh): Fresh	Diss. Oxygen (mg/L): 8.07
Temp (C): 28.85	pH: 7.18
Sample Depts (m): 0.3	Sp. Conductance (umho/cm): 58
Salinity (ppt): 0.03	Comments:
Latitude (Decimal Degrees):	Longitude (Decimal Degrees):

Location: Lower Dianne Lake Middle
STORET: Q1WA0040
Field ID: Lower Dianne Lake Middle Sept 27, 2017 Q1WA0040_09272017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/27/17 Time 1012 (Eastern / ~~Central~~)
Collection (comp begin or grab) Date / Time /	Bottle Group(s): A, B
Matrix (Salt, Fresh): Fresh	Diss. Oxygen (mg/L): 8.98
Temp (C): 28.71	pH: 8.51
Sample Depts (m): 0.3	Sp. Conductance (umho/cm): 85
Salinity (ppt): 0.04	Comments: LVI
Latitude (Decimal Degrees):	Longitude (Decimal Degrees):

Relinquished By:	Date/Time	Number of Coolers	Received By:	Date/Time
Curtis Musson	9/27/17 / 1430	2		9-27-17 / 1430

Request Number: 2017-09-25-40
Killearn Lakes Chain of Lakes
Customer: WAS-SECT
Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Requester: Curtis Musson
Collected By: Curtis Musson, Blake Spencer
Field Report Prepared By: Curtis Musson
Sampling Agency: FDEP

Location: Lake Tom John Middle
STORET
G1WA0043
Field ID: Lake Tom John Middle Sept. 27, 2017
G1WA0043_09272017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/27/17 Time 1344 Eastern Central	Collection (comp begin or grab) Date / Time /		Bottle Group(s) A, B
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 8.70			
Temp (C) 30.31	pH 6.58	Sample Depts (m) 0.03	Sp. Conductance (umho/cm) 66	
Salinity (ppt) 0.03	Comments			
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		

Location: Lake Monkey Business Middle
STORET
G1WA0036
Field ID: Lake Monkey Business Middle Sept. 27, 2017
G1WA0036_09272017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/27/17 Time 1230 Eastern Central	Collection (comp begin or grab) Date / Time /		Bottle Group(s) A, B
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 9.04			
Temp (C) 29.91	pH 7.67	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 79	
Salinity (ppt) 0.04	Comments			
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		

Location: Upper Dianne Lake Middle
STORET
G1WA0041
Field ID: Upper Dianne Lake Middle Sept. 27, 2017
G1WA0041_09272017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/27/17 Time 1148 Eastern Central	Collection (comp begin or grab) Date / Time /		Bottle Group(s) A, B ALGAL_ID Added
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 8.38			
Temp (C) 29.62	pH 7.53	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 87	
Salinity (ppt) 0.04	Comments Algae Mat Sampled			
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		

Relinquished By:	Date/Time	Number of Coolers	Received By:	Date/Time
Curtis Musson	9/27/17 / 1430	2	[illegible]	9-27-17 / 14:30

Group: A	Bottle Type: P-1L	# of Bottles: 6	Preservative: ICE	**Enter Number of Bottles Sent to Lab**	6 of 6	
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS					
Group: A	Bottle Type: BP-1L	# of Bottles: 6	Preservative: ICE	**Enter Number of Bottles Sent to Lab**	6 of 6	
	CHLSUITE-W					
Group: A	Bottle Type: P-500ML	# of Bottles: 6	Preservative: ICE And H2SO4	**Enter Number of Bottles Sent to Lab**	6 of 6	
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
Group: A	Bottle Type: P-125ML	# of Bottles: 6	Preservative: ICE-FLTR	**Enter Number of Bottles Sent to Lab**	6 of 6	
	W-PO4-F					
Group: B	Bottle Type: P-250ML-WO-THI	# of Bottles: 6	Preservative: ICE	**Enter Number of Bottles Sent to Lab**	6 of 6	
	ECOLI-18QT					

1 Algal_ID Added

1

Cooler Packing Worksheet for Request: RQ-2017-09-25-40
NE TLH Lakes
Ship Cooler On: 9/20/2017
Customer/Project: WAS-SECT/SMP

Assigned To: GREENWOO_J
Requester: Curtis Musson
Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:
Group A: Freshwater Kit
Group B: E. coli

Packing Notes:
No FedEx lables needed
1 - case sulfruic acid ✓

Requested Analyses:

Bottle Group: A # of Sites: 6

Container ID: P-1L **Qty: 6** **Preservation: ICE** **Lot #** 0006912 2

Description: Plastic Bottle 1L

Analysis	Description
ALKALINITY	Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Turbidity in aqueous matrices
W-CL-IC	Chloride in aqueous matrices
W-COLOR	True Color measured at 450 nm
W-F	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO4-IC	Sulfate in aqueous matrices
W-TDS	Total Dissolved Solids in aqueous matrices
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: BP-1L **Qty: 6** **Preservation: ICE** **Lot #** 12045414

Description: Brown Plastic Bottle 1L

Analysis	Description
CHLSUITE-W	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-500ML **Qty: 6** **Preservation: ICE And H2SO4** **Lot #** 0006865 41

Description: Plastic Bottle 500 mL Affix YELLOW sulfuric acid dot to container.

Analysis	Description
W-NH3	Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML **Qty: 6** **Preservation: ICE-FLTR** **Lot #** 0006834 7

Description: Plastic Bottle 125 mL

Analysis	Description
W-PO4-F	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B **# of Sites: 6**

Container ID: P-250ML-WO-THI **Qty: 6** **Preservation: ICE** **Lot #** L17048

Description:

Analysis	Description
ECOLI-18QT	Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

---

Cooler Packed By: J.D Number of Coolers: 2 Date: 9/22/17

Kit must also include:
- ✓ Field Sheets
- ✓ Temperature Control Bottle
- ___ FedEx Bills, if applicable
- ✓ Plastic Bags
- ✓ Zip Ties

If Preservation Included:

ID	Sulfuric Acid	Exp	8/21/18	Lot #	SA 7233080
ID		Exp		Lot #	
ID		Exp		Lot #	
ID		Exp		Lot #	
ID		Exp		Lot #	

PLEASE RETURN ALL COOLERS FOR RQ-2017-09-25-40