

Field Personnel processing steps

☐ New Field IDs created (when using a new station) Date: _____ initials: _____ ☒ NA

☐ Create entry in SMPStationCreationFile if new station is used

\\Fidep1\wqap\NW ROC\TMDL\WIN_Station Creation

☒ Date sampled Date: 08/27/2019 initials: FB

☒ Update "SMP Tracker" Date: 09/30/2019 initials: FB

☒ Photos put into archive Date: 10/01/2019 initials: FB ☐ NA

☒ Copy of Calibration Log for YSI used

☒ Field Sheets initialed/dated @ "Scan/Save Field Sheets" then scanned and saved into:

Scans_ToBeProcessed Date: 10/01/2019 initials: FB

Scan order; Cover Sheet, Calibration Log, Field Sheets, Tallahassee Submittal Sheets, Overflow Lab COC

☒ Update "Data Tracker"

\\publicfiles\pubfds\DEAR\WQAPmonitoring\StrategicMonitoring\2019\21FLPNS

Ready for folder system (top)

LIMS processing (to be completed by LIMS data personnel) (MC)

☐ Field parameters entered into LIMS Date: _____ initials: _____

☐ Digital RQ packet put into

SMP 2019/Data/Scanned Field Sheets Date: _____ initials: _____

☐ Digital field Sheets put into archive Date: _____ initials: _____

☐ Date submitted for QA/QC Date: _____ initials: _____

☐ Update "Data Tracker"

Database processing (Cheryl)

☐ Field parameters QA/QC in LIMS Date: _____ initials: _____

☐ Lab results put into archive (CB) Date: _____ initials: _____

☐ Data migrated to WINS Date: _____ initials: _____

☐ Update "Data Tracker"

Notes: Biology.

Site Name Lake Stone Center

Date: 08/27/2019

Field ID G4NW0426 Storet G4NW0426

Project: TMDL Studies

Visit ID 80186

RQ: 2019-07-08-47

Macro ID _____

LIMS ID: 2115115

HA ID: 16120

WBID: 25A

☒ LVI

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial FB

☒ Date and Initial QA: ML 8/27/19

☐ LVI entered in SBIO Initial _____

☐ Date and Initial QA: _____

☐ Plants getting verified

Date submitted: _____

☐ Plants verified

Date returned: _____

☐ VPDB authorized in SBIO

☐ Date and Initial: _____

☐ VPDB score: _____

☐ If SMP, scanned into database

Notes. Biology.

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

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

Meter ID: 154179

RQ: 2019-07-08-47

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.

Temperature (Quarterly) FT 1400:

Date of Last Temperature Verification

6/13/19

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.											P / F	L / F
ICV											P / F	L / F
CCV	<u>J. Hlade</u>	<u>8/27/19</u>	<u>0725</u>	<u>23.5</u>	<u>764.4</u>	<u>8.5</u>	<u>8.59</u>	<u>100.5</u>			<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
CCV	<u>F. Butera</u>	<u>8/27/19</u>	<u>1745</u>	<u>23.6</u>	<u>763.4</u>	<u>8.50</u>	<u>8.56</u>	<u>100.6</u>			<u>P</u> <u>F</u>	<u>L</u> <u>F</u>

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 (Pro DSS 0.75 to 1.50); 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.	<u>J. Hlade</u>	<u>8/27/19</u>	<u>0727</u>	<u>190116A</u>	<u>Jan '20</u>	<u>1000</u>	<u>1000</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
ICV	<u>J. Hlade</u>	<u>8/27/19</u>	<u>0729</u>	<u>190618A</u>	<u>Jan '20</u>	<u>100</u>	<u>103.9</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
CCV	<u>F. Butera</u>	<u>8/27/19</u>	<u>1758</u>	<u>190618A</u>	<u>Jan '20</u>	<u>100</u>	<u>104.1</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	<u>J. Hlade</u>	<u>8/27/19</u>	<u>0731</u>	<u>2811803</u>	<u>Oct '20</u>	<u>7</u>	<u>22.6</u>	<u>7.01</u>	<u>-66.3</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
Calibr.			<u>0733</u>	<u>2902818</u>	<u>Jan '21</u>	<u>4</u>	<u>24.9</u>	<u>4.01</u>	<u>117.1</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
Calibr.			<u>0735</u>	<u>4904E09</u>	<u>Dec '20</u>	<u>10</u>	<u>23.1</u>	<u>10.02</u>	<u>-230.4</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
ICV			<u>0737</u>	<u>2902818</u>	<u>Jan '21</u>	<u>4.0</u>	<u>24.4</u>	<u>3.97</u>	<u>117.1</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
CCV	<u>F. Butera</u>		<u>1752</u>	<u>2811803</u>	<u>Oct '20</u>	<u>7.0</u>	<u>22.9</u>	<u>6.98</u>	<u>-58.0</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
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 10 264.1, slope from 4 to 7 183.9 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 6/13/19

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last 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	<u>J. Hlade</u>	<u>8/27/19</u>	<u>0738</u>	<u>0.00</u>	<u>0.00</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>

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

COMMENTS:

Lake Stone



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?
Yes / NoWIN Station Name: **Lake Stone Center**Date: **08/27/2019**
(mm/dd/yyyy)WIN/ Field ID: **G4NW0426**WBID: **25A**Latitude: **30.96517**

(Decimal Degrees)

County: **Escambia**ORG ID: **21FLPNS**Longitude: **-87.290567**

(Decimal Degrees)

Receiving Body of Water: **Wiggins Branch**RQ- **2019-07-08-47**

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Frank Butera							☒ Sample Container	☐ Van Dorn	☐ Pole		
Stephan Slade							☐ Carboy	☐ Syringe			
							☐ Dipper	☐ Other			
							Depth Measured with Equipment ID				
							Collection Method				
							☐ Wading	☐ Canoe/Kayak			
							☐ From Shore	☐ Electric Motor			
							☐ Other	☒ Gasoline Motor			
Water Level: Dry/ Pooled/ Low / Normal / <u>High</u> / Flooded							Meter ID# 154179		Matrix: <u>Fresh</u> Marine / DI		
Photos: <u>es</u> No		Flow: <u>No Flow</u> / Intestinal / Flowing / NA		Tide: Rising/ Falling/ Slack/ <u>NA</u>		Tide Times: High Low					
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°)	
EST	12:05	3.5	2.3	1.6	7.07	93.4	6.43	0.02	45.8	30.2	
CEN			3.0		4.98	65.5	6.19	0.02	44.3	29.4	
Biological Samples Collected: None <u>HA</u> SCI RPS Algae ID LVS <u>LVI</u> Other:											
SBIO ID Numbers: SBIO-ID: 00186 HA-ID: 16120 RPS-ID: N/A Macrophyte-ID: LIMS#: 2115115											
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		SA9010030	04/01/20	☐ <2	
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3				☐ <2	
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice		16570048			
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-MR-R / W-I / W-TSS / TURBIDITY				☐ Ice					
Macroinvertebrates		☐ M-FW-QDC				☐ Formalin					
Periphyton		☐ ALGAE-ID				☐ Ice					
Microbiology		☐ E Coli ☐ F Coli ☐ Enterococci				☐ Ice					
Molecular		☐ PCR-BTER ☐ PCR-BBR ☐ PCR-GULLP ☐ PCR-W183 ☐ PCR-GGS ☐ PCR-GED				☐ Ice					
Tracers		☐ W-TSS-21-DI ☐ W-TSS-21-MS				☐ Ice					
Pesticides		☐ W-PSNP-TQ ☐ W-CP-CL-R ☐ W-E371-DI ☐ W-PCL-SQ-R ☐ WBS21-MS ☐ W-CAR8-AA				☐ Ice					
Phytoplankton		☐ D1Y-QN-C ☐ PKD-QN-C				☐ Ice					
Notes:											
Ref: 18/28/19 Date: 24 Jun 19 SHIPPING: 0.00 Dep: 18/28/19 Wgt: 9.00 LBS SPECIAL: 0.00 DV: 0.00 HANDLING: 0.00 TOTAL: 0.00 SVCS: PRIORITY OVERNIGHT TRACK: 4751 8780 9702											
Signature: Frank Butera							Field/WIN ID → G4NW0426		Barcode:		
							Location: Lake Stone Center		Date: 08/27/2019		

LIMS EVENT ID:

WIN Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT:

QC Station ID, Field Parameters in LIMS DMT:

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data in WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

(Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 8-186 84186 MACROPHYTE ID: _____ LATITUDE: N 30.96517
 COUNTY: Escambia STORET #: G4NW0426 LONGITUDE: W -87.290567
 DATE: 8/27/2019 TIME: 12:05 SAMPLING AGENCY: FL DEP - NWROC
 SITE NAME: Lake Stone Center WBID: 25A
 FIELD ID/NAME: G4NW0426 LAKE SIZE: 96 RQ: 2019-07-08-47

WATERSHED / LAKESIDE FEATURES

LIMS ID: 2115115

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS): Forest/Natural ☒ Silviculture ☒ Field/Pasture ☒ Agricultural ☒ Residential ☒ Commercial ☐ Industrial ☒ Other (Specify) ☐				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>1.53</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>5810 2015</u>	
STORMWATER INPUTS <u>18</u>		Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 <u>18</u> 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	
LAKESIDE ALTERATIONS <u>18</u>		Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) 20 19 <u>18</u> 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	
BUFFER ZONE <u>18</u>		Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18m buffer 20 19 <u>18</u> 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	

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water: Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☐ No pH<2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # _____ Exp. Date: _____ Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☐ Normal ☒ High						Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____					
Meter Readings: Top: <u>0.3</u> <u>30.2</u> <u>6.43</u> <u>7.07</u> <u>93.4</u> <u>45.8</u> <u>0.02</u> Mid-Depth: _____ Bottom: <u>3.0</u> <u>29.4</u> <u>6.19</u> <u>4.98</u> <u>65.5</u> <u>44.3</u> <u>0.02</u> Meter ID: <u>154179</u>						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☒ Organic smooth (muck) ☒ Other (Specify): <u>Algae</u>						Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☒ Slightly Turbid Color: ☐ Clear ☐ Tannic ☒ Green					
Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☒ Anaerobic						SECCHI (M) <u>1.6</u> Total Station Depth (M) <u>3.6</u> VOB ☐					
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>Overcast mid-80's. Rain previous day. Slight rain during sampling event.</u>						Additional Notes: <u>Hydrilla only seen near boat ramp.</u>					
SAMPLING TEAM: Frank Butera, <u>Stophor Slade</u>						SIGNATURE: <u>[Signature]</u> DATE: <u>08/27/2019</u>					

STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION
Lake Habitat Assessment Field Sheet

Store/ WIN ID NUMBER: G4NW0426	DATE (M/D/Y) <u>8/27/2019</u>	LAKE NAME: Lake Stone, Center		FIELD ID / NAME: G4NW0426
ECO-REGION: 25A	COUNTY: Escambia	SAMPLING LOCATION/DESCRIPTION: Century, FL		LAKE SIZE: 96 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 <u>4</u>	Secchi > 3 m Or VOB 20 19 18 17 16	3 2.6 2.2 1.8 1.4 15 14 13 12 <u>11</u>	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 <u>8</u>	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 20 19 <u>18</u> 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 <u>8</u> 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 <u>18</u>	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 <u>18</u> 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 <u>8</u>	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 <u>8</u> 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 <u>18</u>	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 20 19 <u>18</u> 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 <u>18</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 1
Adverse Watershed Land Use <u>15</u>	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 <u>15</u> 14 13 12 11 10 9 8 7 6 5 4 3 2 1			
TOTAL SCORE <u>96</u>	COMMENTS:			

ANALYSIS DATE:

08/27/19

ANALYST: Frank Butera,

SIGNATURE:



SBIO ID:

810186
80186

HA ID:

16124

RQ:2019-07-08-47

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Lake Stone Center					County: Escambia (Century)					Date: 8/27/2019				
Analyst: F. Butera S. Slake					Signature: [Signature]					STORET: G4NW0426				
Except where noted as "sp." species level identification required. *Genera that may require lab verification*										Lake units sampled (circle one group):				
Plants in bold = FLEPPC invasive exotic.										1, 4, 7, 10 2, 5, 8, 11				
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.										3, 6, 9, 12				
SBIO ID 80186					Collect ed? (✓)					Macro ID				
SPECIES					SPECIES					SPECIES				
Acer rubrum	1	4	7	10		Habenaria repens	1	4	7	10				
Alternanthera philoxeroides	1	4	7	10		Hydrilla verticillata	1	4	7	10				
Andropogon sp.						Hydrocotyle sp.	1	4	7	10				
Azolla filiculoides (A. caroliniana)						Hygrophila polysperma								
Baccharis sp.						*Hypericum fasciculatum								
Bacopa caroliniana						*Hypericum hypericoides								
Bacopa monnieri						*Hypericum myrtifolium								
Bidens laevis	1					Ilex cassine								
Bidens mitis						Ipomoea aquatica								
Blechnum serrulatum						Ipomoea sagittata								
Boehmeria cylindrica						Itea virginica								
Brasenia schreberi	1					Juncus effusus								
Cabomba caroliniana						*Juncus marginatus								
Casuarina equisetifolia						*Juncus megacephalus Polyccephalus	1	4	7	10				
Centella asiatica	1	4	7	10		Juncus repens								
Cephalanthus occidentalis	1	4	7	10		*Juncus scirpoides								
Ceratophyllum demersum						Lachnanthes caroliniana	1	4	7	10				
Chara sp.	1	4	7	10		Leersia hexandra	1	4	7	10				
Cladium jamaicense						Landoltia punctata (Spiro. punctata)								
Cliftonia monophylla						Lemna sp.								
Colocasia esculenta	1	4	7	10		Leucothoe racemosa (E. racemosa)								
*Commelina						Limnium spongia								
Crinum americanum						Limnophila sessiliflora								
*Cyperus alternifolius (C. involucratus)						Liquidambar styraciflua								
Cyperus articulatus						*Ludwigia arcuata								
Cyperus haspan	1	4	7	10		Ludwigia leptocarpa								
*Cyperus lecontei	1	4	7	10		*Ludwigia linearis								
*Cyperus polystachyos						*Ludwigia octovalvis Pilosa	1	4	7	10				
*Cyperus odoratus						*Ludwigia peruviana								
*Cyperus surinamensis						*Ludwigia repens oppos. h. leaves	1	4	7	10				
Cyrilla racemiflora	1	4	7	10		*Ludwigia	1	4	7	10				
Decodon verticillatus						Luziola fluitans (H. carolinensis)								
Diödia virginiana						Lyonia lucida								
*Echinochloa crus-galli						Magnolia virginiana								
*Echinochloa muricatum						Mayaca fluviatilis								
Echinochloa walteri						Melaleuca quinquenervia								
Eclipta prostrata (E. alba)						Micranthemum glomeratum								
Egeria densa						Micranthemum umbrosum								
Eichhornia crassipes						Mikania scandens	1	4	7	10				
*Eleocharis baldwinii Viripin	1	4	7	10		Mimosa pigra								
*Eleocharis						Myrica cerifera	1	4	7	10				
Eleocharis cellulosa						Unknown little grass	1	4	7	10				
Eleocharis equisetoides						*Ampelopsis								
Eleocharis interstincta						Not Red Root	1	4	7	10				
*Eriocaulon compressum						Pluchea sp. [unclear]	1	4	7	10				
*Eriocaulon decangulare						Carex glauca	1	4	7	10				
Eupatorium capillifolium						Albizia	1	4	7	10				
*Fuirena brevisch	1													
Fuirena scirpoidea	1													
Gordonia lasianthus														

RQ:2019-07-08-47

LIMS ID 2115115

~~010186 B 4186~~

Revision Date: March 1, 2014

DEP-SOP-001/01
FS 7000 General Biological Community Sampling

Form FD 9000-2: COMPOSITE LAKE SAMPLING SHEET (< 1000 ACRES)

Date: 8/27/19		Name of Lake: Lake Stone, Center		Gear used: PONAR EKMAN OTHER	
Comments:					
Drop #	Depth (m)	Sediment Type (circle all that apply)	Drop #	Depth (m)	Sediment Type (circle all that apply)
1	0.5	☒ sand ☒ silt/clay ☒ CPOM ☒ muck ☒ SAV	7	3.5	Shore ☒ sand ☒ silt/clay ☒ CPOM ☒ muck ☒ SAV
2		☐ sand ☐ silt/clay ☐ CPOM ☐ muck ☐ SAV	8		☐ sand ☐ silt/clay ☐ CPOM ☐ muck ☐ SAV
3		☐ sand ☐ silt/clay ☐ CPOM ☐ muck ☐ SAV	9		☐ sand ☐ silt/clay ☐ CPOM ☐ muck ☐ SAV
4	3.2	☐ sand ☒ silt/clay ☐ CPOM ☒ muck ☒ SAV	10		☐ sand ☐ silt/clay ☐ CPOM ☐ muck ☐ SAV
5		☐ sand ☐ silt/clay ☐ CPOM ☐ muck ☐ SAV	11		☐ sand ☐ silt/clay ☐ CPOM ☐ muck ☐ SAV
6		☐ sand ☐ silt/clay ☐ CPOM ☐ muck ☐ SAV	12		☐ sand ☐ silt/clay ☐ CPOM ☐ muck ☐ SAV

CPOM = coarse particulate organic matter; SAV = submerged aquatic vegetation

WIN ID: G4NW0426
WBID 25A

Field ID G4NW0426 Project: TMDL
Studies RQ-2019-07-08-47

SBIO ID: 810186
80186

Paste map here and show location of each dredge drop and where water chemistry parameters were collected.

Revision Date: February 1, 2004

Photo Log

Storet G4NW0426

Station Name: Lake Stone

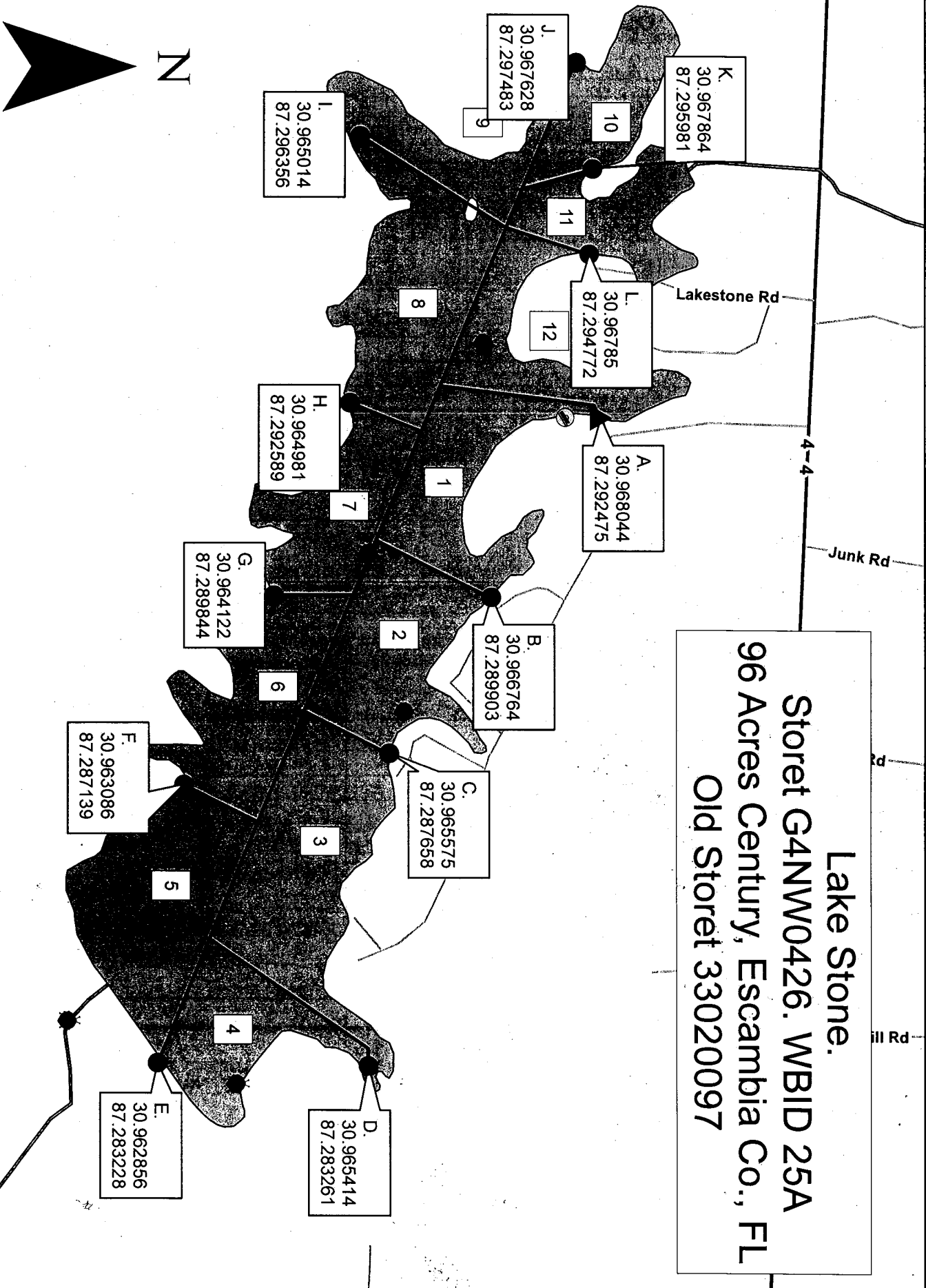
Date: ~~01/01/06~~ 08/27/2019

Samplers. F. Butera, S. Slade

- 1 Cover
- 2 Blue Bells 1
- 3 Blue Bells 2
- 4 Frotus Grab
- 5 Submersed Aquatic Vegetation
- 6 Unknown Plant 2
- 7 Unknown Plant 2
- 8 Caterpillar
- 9 Heron
- 10 Storet N
- 11 Storet E
- 12 Storet S
- 13 Storet W
- 14
- 15
- 16
- 17

Notes.

Lake Stone.
Storet G4NW0426. WBID 25A
96 Acres Century, Escambia Co., FL
Old Storet 33020097



Group: A	Bottle Type:	P-1L	# of Bottles: 1	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: A	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	CHLSUITE-W					
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
Group: A	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab
	W-PO4-F					

H2SO4
 LOT# SA9010030
 EXP: 04/10/2020