

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: **2021-08-30-06**

Project: **STATUS**

- 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 **6/1/21**

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.	J. Slade	10/21	0722	23.6	765.0	8.5	8.56	100.2	-	-	P/F	L/F
ICV	J. Slade	10/21	0724	23.5	764.9	8.5	8.59	100.4	-	-	P/F	L/F
CCV	J. Slade	10/21	1418	20.7	764.0	9.0	9.28	103.1	-	-	P/F	L/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 (Probe 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 umhos/cm	Meter Reading umhos/cm	Pass / Fail	Lab / Field
Calibr.	J. Slade	10/21	0724	210330B	04/2022	5000	5000	P/F	L/F
ICV	J. Slade	10/21	0726	210525C	06/2022	1000	997	P/F	L/F
CCV	J. Slade	10/21	1420	210525B	06/2022	100	100.7	P/F	L/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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	J. Slade	10/21	0728	202114	05/2022	7.	21.7	7.01	-14.3	P/F	L/F
Calibr.	J. Slade	10/21	0730	205283	10/2022	4.	21.3	4.00	160.1	P/F	L/F
Calibr.	J. Slade	10/21	0732	201473	05/2022	10.	21.8	10.04	-188.5	P/F	L/F
ICV	J. Slade	10/21	0734	205283	10/2022	4.0	21.6	3.93	164.4	P/F	L/F
CCV	J. Slade	10/21	1423	202114	05/2022	7.6	22.3	7.09	-16.6	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 $+180 \pm 50$; mV pH 10 Range -180 ± 50 ;
 If mV are recorded: slope from 7 to 10 **174.2**, slope from 4 to 7 **174.4** (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: **6/1/21**

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	J. Slade	10/21	0735	0.00	0.00	P/F	L/F

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

REMARKS:

Z1-SL-15039 Lake Sharon.

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Status & Trend Networks - Chain of Custody Form - October 2020 version**

Date Collected: 10/21/2021 **Collected By (Agency Code):** 8010
Customer: AMBIENT **Sampler Names:** Frank Butera, Stopher Slade
RQ-  **Lab Project ID:** STATUS
RQ-2021-08-30-06
Project Name: Z1SL2109 **# Coolers Shipped:** 1 **Shipping Method:** FedEx

Instructions: Please return the original of this form to the lab along with sample inventory portion of field sheet for each station sampled.

Load digital labels into fields below for all samples & blanks submitted under this RQ for this collection date.
Email completed documentation to: lab.receiving@floridadep.gov.

OR Print completed documentation and place in zipper bag taped to inside lid of cooler.

Site Location	Field ID
 Z1-SL-15039	 Z1-SL-15039



Relinquished By Signature: _____ **Date:** 10/21/2021 **Time:** 16:30 CTZ
Relinquished By: _____

THIS SECTION IS TO BE COMPLETED BY THE LABORATORY

Received/ Inspected By: _____ **Date:** _____ **Time:** _____ ETZ



RQ-2021-08-30-06

Project Name: Z1SL2109

Collected By (Agency Code): 8010

Sampler Names: Frank Butera, Stopher Slade

Customer: AMBIENT

Lab Project ID: STATUS

 Site Location: Z1-SL-15039  Field ID: Z1-SL-15039				Comments: Very strong hydrogen sulfide/sewage smell.		
				Sulfuric Acid Lot #: SA0353110 Nitric Acid Lot #: NA1105110		
Matrix: W-SURF-FRSH				✓ Grab		
Date Collected	Time Collected	D.O. (% SAT)	Temp (°C)	pH (SU)	Sample Depth (m)	Sp. Cond. (umhos/cm)
10/21/2021	11:25 CTZ	107.2	23.4	5.41	0.3	28.5
Check Boxes for Each Container Submitted to Lab				Preservation (Must be completed within 15 min of sample collection)	# Bottles sent to Lab	Bottle Group
Parameter Suite	Lab Test Codes Trend Core	Lab Test Codes Status Core	Lab Test Codes Special Projects			
Chlorophyll (BP-1L)	☐ CHLSUITE-W	☒ CHLSUITE-W		☒ Ice	1	A
Nutrients (P-500ML)	☐ W-NH3 / W-NO2NO3 / W-S-T-P / W-TKN / W-TOC	☒ W-NH3 / W-NO2NO3 / W-S-T-P / W-TKN / W-TOC		☒ 2ML H ₂ SO ₄ ☒ pH < 2 ☒ Ice	1	
Metals (P-500ML)	☐ W-HARD / W-ICP / W-ICPMS	☒ W-HARD / W-ICP / W-ICPMS		☒ 2ML HNO ₃ ☒ pH < 2 ☒ Ice	1	
Anion / Phys. Aggregate (P-1L)	☐ ALKALINITY / TURBIDITY / W-CL-IC / W-COLOR / W-COND / W-F / W-SO4-IC / W-TDS / W-TSS	☒ ALKALINITY / TURBIDITY / W-CL-IC / W-COLOR / W-COND / W-F / W-SO4-IC / W-TDS / W-TSS		☒ Ice	1	
Microbiology (P-250ML or P-120ML)	☐ ECOLI-18-QT	☒ ECOLI-18-QT		☒ Ice	2	
Toxins (BG-250ML-WDMTH)			☐ W-MCYST-AA	☐ Ice		
Molecular (QPCR-P-500ML)			☐ PCR-BACR / PCR-DG3 / PCR-GFD / PCR-GULL2 / PCR-HF183	☐ Ice		
Tracers (BG-500ML)			☐ W-E8321-DI / W-E8321-MS	☐ Ice		
Pesticides (BG-1L)			☐ W-PSNP-TQ	☐ Ice		
Filtered Nutrient (P-125ML)			☐ W-PO4-F	☐ Field Filtered w/ syringe & 0.45 um PES filter ☐ Ice		

Matrix: SEDIMENT	Date Collected: 10/21/2021	Time Collected: 11:35 CTZ				
Check Boxes for Each Container Submitted to Lab						
Parameter Suite	Lab Test Codes Trend Core	Lab Test Codes Status Core	Lab Test Codes Special Projects	Preservation (Must be completed within 15 min of sample collection)	# Bottles sent to Lab	Bottle Group
Metals (GJ-500ML)		☒ S-HG-TDA / S-ICP-TO / S-ICPMS-TO		☒ Ice	1	C

Matrix: BIOLOGICAL	Date Collected: 10/21/2021	Time Collected: CTZ				
Check Boxes for Each Container Submitted to Lab						
Parameter Suite	Lab Test Codes Trend Core	Lab Test Codes Status Core	Lab Test Codes Special Projects	Preservation	# Bottles sent to Lab	Bottle Group
Macroinvert-SCI (PJ-2L)	☐ MI-FW-QLDC		☐ MI-FW-QLDC	☐ Buffered Formalin (10%)		
Algal ID (PT-50ML)	☐ ALGAL_ID		☐ ALGAL_ID	☐ Ice		



RQ-2021-08-30-06

Project Name: Z1SL2109

Collected By (Agency Code): 8010

Sampler Names: Frank Butera, Stopher Slade

Customer: AMBIENT

Lab Project ID: STATUS

Comments:

Sulfuric Acid Lot #:

Nitric Acid Lot #:

Matrix:

✓ Grab

Date Collected

Blank Collection Time

Check Boxes for Each Container Submitted to Lab

Parameter Suite	Lab Test Codes Trend Core	Lab Test Codes Status Core	Lab Test Codes Special Projects	Preservation (Must be completed within 15 min of sample collection)	# Bottles sent to Lab	Bottle Group
Nutrients (P-500ML)	☐ W-NH3 / W-NO2NO3 / W-S-T-P / W-TKN / W-TOC	☐ W-NH3 / W-NO2NO3 / W-S-T-P / W-TKN / W-TOC		☐ 2ML H ₂ SO ₄ ☐ pH < 2 ☐ Ice		
Metals (P-500ML)	☐ W-HARD / W-ICP / W-ICPMS	☐ W-HARD / W-ICP / W-ICPMS		☐ 2ML HNO ₃ ☐ pH < 2 ☐ Ice		
Anion / Phys. Aggregate (P-1L)	☐ ALKALINITY / TURBIDITY / W-CL-IC / W-COLOR / W-COND / W-F / W-SO4-IC / W-TDS / W-TSS	☐ ALKALINITY / TURBIDITY / W-CL-IC / W-COLOR / W-COND / W-F / W-SO4-IC / W-TDS / W-TSS		☐ Ice		
Microbiology (P-250ML or P-120ML)	☐ ECOLI-18-QT	☐ ECOLI-18-QT		☐ Ice		
Toxins (BG-250ML-WDMTH)			☐ W-MCYST-AA	☐ Ice		
Tracers (BG-500ML)			☐ W-E8321-DI / W-E8321-MS	☐ Ice		
Pesticides (BG-1L)			☐ W-PSNP-TQ	☐ Ice		
Filtered Nutrient (P-125ML)			☐ W-PO4-F	☐ Field Filtered w/ syringe & 0.45 um PES filter ☐ Ice		



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATUS & TREND NETWORKS FIELD SHEET - SURFACE WATER
Effective: October 2020

Collection Agency: 8010 Project Name: Z1SL2109 Date: 10/21/2021

Trend Network Station Name: _____
OR Status Network Random ID: Z1-SL-15039

Waterbody Name: SHARON LAKE RQ-2021-08-30-06

Waterbody Type: SMALL LAKE

Sampling Team Member Names	Field Measurements	Water Sample Collection	Documentation	Sample Preservation	Field / Equip. Blank Collection	Sediment Sample Collection	Bioassessment Data Collection	Signatures or Initials
Frank Butera	X		X				X	FB
Stopher Slade		X		X		X		SS

Additional Personnel / Visitors On-site: _____

Weather Conditions: Overcast, 80's f.

Photos Taken: YES (Required for all Status stations. Required annually for all Trend stations.)

Water Level: <u>HIGH</u>	Flow: <u>N/A</u>	Tide: <u>N/A</u>
QA/QC Blank Collected at this station? <u>NA</u>		
QA/QC Blank Field ID: _____		Collection Time (24 hr): _____
Van Dorn Equip. ID / Name: _____		Cleaning: _____
Bioassessment Data Collected: ☐ None ☒ HA ☐ SCI ☐ RPS ☐ LVS ☒ LVI		

Sediment Sample Collected: <u>YES</u>	Sed. Collection Time (24hr): <u>11:35</u>	CTZ: _____
Sed. Collection Depth (m) (total water depth): <u>1.8</u>	Number of Grabs (minimum 3): <u>7</u>	
Sed. Collection Interval: <u>Top 3-5 cm</u>		
Sed. Collection Area Description: <u>Central</u>		
Sed. Collection Device: <u>Ekman Grab</u>	Device ID: <u>ED1</u>	
Dominant Sed. Type (select one): <u>ORGANIC MUCK</u>		
Sediment Odors (select one): <u>HYDROGEN SULFIDE</u>		
Sediment Color: <u>Very dark brown</u>		
Sediment Sample Comments: <u>Very flocculant</u>		



Field ID: Z1-SL-15039

Project Name: Z1SL2109

Date: 10/21/2021

Water Sampling Equipment:



Direct Grab with Sample Container



Van Dorn: _____ # Grabs; _____ Equipment ID

Collection Method: Canoe or Kayak

Field Meter ID: 154179 (ProDSS)

Depth Measurement Device: Field Meter Listed Above

DATA COLLECTION DEPTHS: Total depth < 0.1 m → no data collection. Total depth ≥ 0.1 m and < 0.6 m → surf. meas. & sample at mid-depth.
Total depth ≥ 0.6 m & < 1.5 m → surface meas. & sample at 0.3m. Total depth ≥ 1.5 m → surface meas. & sample at 0.3m, bottom meas. 0.5 m above bottom.

PRIMARY (SURFACE) SAMPLE

Collection Time (24 hr): 11:25 CTZ



Check here if Secchi depth visible on bottom (S qualifier needed).



Check here if bottom measurements not collected because total depth < 1.5 m.

PARAMETER	VALUE	QUALIFIER(S)	RESULT COMMENT
Sample Collection Depth (m)	0.3		
Secchi Depth (m)	1.8	S	SECCHI VISIBLE ON BOTTOM.
Total Depth (m)	1.8		
Temp (°C)	23.4		
D.O. (% SAT)	107.2		
D.O. (mg/L)	9.22		
Sp. Cond. (umhos/cm)	28.5		
pH (SU)	5.41		

BOTTOM SAMPLE (FIELD MEAS. ONLY)

Collection Time (24 hr): 11:30 CTZ

PARAMETER	VALUE	QUALIFIER(S)	RESULT COMMENT
Sample Collection Depth (m)	1.3		
Temp (°C)	23.4		
D.O. (% SAT)	103		
D.O. (mg/L)	8.84		
Sp. Cond. (umhos/cm)	28.6		
pH (SU)	5.49		

SAMPLE COMMENTS**PRIMARY (SURFACE):****BOTTOM:** D.O. dropped off below bottom reading.**OFFICE USE ONLY**

Reviewed By:

Date:

WIN ID:

SBIO-Visit:

HA-ID:

RPS-ID:

Macro-ID:

Site Name Z1-SL-15039. Sharon Lake

Date: 10/21/2021

Field ID Z1SL15039 Storet 59627

Project: Status Small Lakes

Visit ID 84097

RQ: 2021-08-30-06

Macro ID 12133

LIMS ID: 2285811

HA ID 17293

WBID: 712

☒ LVI

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial 5/19/2022, FB ☒ Date and Initial QA: 5/23/2022, SS HA Score: 53

☒ LVI entered in SBIO Initial 5/19/2022 ☒ Date and Initial QA: 5/23/2022, SS

☒ Plants getting verified ☒ Date submitted: 11/09/2021

☒ Plants verified ☒ Date returned: In House

☒ Macro ID authorized in SBIO ☒ Date and Initial: 5/23/2022

☒ Macro ID score: 53

☒ Status - Fieldsheets scanned and saved in Sol-Z Shared Drive

Notes:

Delivered 10/22/2021 9:27 EST

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 84097 MACROPHYTE ID: 12133 LATITUDE: N 30.48029
 COUNTY: Walton (Freeport) STORET #: _____ LONGITUDE: W -86.33646
 DATE: 10/21/2021 TIME: 11:25 AM SAMPLING AGENCY: FL DEP - NWROC
 SITE NAME: Z1-SL-15039. Sharon Lake WBID: 712
 FIELD ID/NAME: Z1SL15039 LAKE SIZE: 6.6 Hectares RQ: 2021-08-30-06

WATERSHED / LAKESIDE FEATURES Project: Ambient Status Monitoring 16.309 Acres LIMS ID: 2285811

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : <u>Eglin AFB</u> Forest/Natural ☒ Silviculture ☒ Field/Pasture ☐ Agricultural ☐ Residential ☒ Commercial ☐ Industrial ☐ Other (Specify) ☒						LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>4.73</u>			
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☒ Moderate ☐ Heavy Artificially Impounded ☒ Yes ☐ No						Land Use Source & Year: SBIO 2003			
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy									
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 5 4 3 2 1	
LAKESIDE ALTERATIONS <u>6</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 2 1	
BUFFER ZONE <u>3</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	

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: Depth (M) Temp. (°C) pH (SU) D.O. (MGL) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: <u>0.3</u> <u>23.9</u> <u>5.41</u> <u>9.22</u> <u>107.2</u> <u>28.5</u> <u>0.01</u> Mid-Depth: _____ _____ _____ _____ _____ _____ _____ Bottom: <u>1.3</u> <u>23.9</u> <u>5.49</u> <u>8.34</u> <u>103</u> <u>55.4</u> <u>0.02</u>						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Meter ID: <u>154174</u> <u>20.6</u> <u>0.01</u>						Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☒ Slightly Turbid Color: ☐ Clear ☐ Tannic ☒ Green					
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): <u>Sewage</u> ☒ 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>Phytoplankton survey 2003 (Algal Bloom?)</u>						Additional Notes: <u>Damn area</u> <u>2. pH 23.9</u> <u>1.5 - D.O. 2.15</u> <u>SC 55</u>					
SAMPLING TEAM: <u>Frank Butera, Stople Slade</u>						SIGNATURE: <u>[Signature]</u> DATE: <u>10/21/2021</u>					

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

STORET STATION NUMBER: 59627	DATE (M/D/Y) 10/21/2021	LAKE NAME Z1-SL-15039. Sharon Lake		FIELD ID / NAME Z1-SL-15039	
WBID: 712	COUNTY: Walton	SAMPLING LOCATION/DESCRIPTION: near Choctaw Beach. Impoundment on Mullett Creek		LAKE SIZE: 6.6 Hectares/ 16.31 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		Poor	
Secchi	Secchi >3 m 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	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	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	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	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	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	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 53	COMMENTS:
ANALYSIS DATE: 10/21/2021	ANALYST: Frank Butera
SIGNATURE: 	

SBIO Sample ID: 84097

HA ID: 17293

QC✓: SS

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Z1-SL-15039, Sharon Lake					County: Walton					Date: 10/21/2020				
Analyst: Frank Butera					Signature: <i>[Signature]</i>					STORET: 59627				
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				
SBIO ID 84097	2	5	8	11	Collect ed? (✓)	Macro ID 12133	2	5	8	11	Collect ed? (✓)			
SPECIES						SPECIES								
Acer rubrum						Habenaria repens								
Alternanthera philoxeroides						Hydrilla verticillata								
Andropogon sp.	1		1			Hydrocotyle sp.		1	1	1				
Azolla filiculoides (A. caroliniana)						Hygrophila polysperma								
Baccharis sp.						*Hypericum fasciculatum								
Bacopa caroliniana						*Hypericum hypericoides								
Bacopa monnieri						*Hypericum myrtifolium								
Bidens laevis						Ilex cassine								
Bidens mitis	1			1		Ipomoea aquatica								
Blechnum serrulatum						Ipomoea sagittata								
Boehmeria cylindrica	1					Itea virginica								
Brasenia schreberi						Juncus effusus								
Cabomba caroliniana						*Juncus marginatus								
Casuarina equisetifolia						*Juncus megacephalus								
Centella asiatica						Juncus repens								
Cephalanthus occidentalis						*Juncus scirpoides								
Ceratophyllum demersum						Lachnanthes caroliniana								
Chara sp.						Leersia hexandra								
Cladium jamaicense						Landoltia punctata (Spiro. punctata)								
Cliftonia monophylla						Lemna sp.								
Colocasia esculenta		1				Leucothoe racemosa (E. racemosa)								
*Commelina						Limnobia spongia								
Crinum americanum						Limnophila sessiliflora								
*Cyperus alternifolius (C. involucratus)						Liquidambar styraciflua								
Cyperus articulatus						*Ludwigia arcuata								
Cyperus haspan						*Ludwigia leptocarpa								
*Cyperus lecontei						*Ludwigia linearis								
*Cyperus polystachyos						*Ludwigia octovalvis								
*Cyperus odoratus						*Ludwigia peruviana								
*Cyperus surinamensis						*Ludwigia repens								
Cyrtilla racemiflora		1	1			*Ludwigia								
Decodon verticillatus						Luziola fluitans (H. carolinensis)								
Diodia 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								
*Eleocharis baldwinii						Mimosa pigra								
*Eleocharis w. sp.						Myrica cerifera								
Eleocharis cellulosa						<i>[Handwritten: Cyperus]</i>								
Eleocharis equisetoides						<i>[Handwritten: Dichanthium]</i>								
Eleocharis interstincta						<i>[Handwritten: Eleocharis]</i>								
*Eriocaulon compressum						<i>[Handwritten: Cyperus]</i>								
*Eriocaulon decangulare						<i>[Handwritten: Cyperus (lecontei?)]</i>								
Eupatorium capillifolium						<i>[Handwritten: Oxycoccus confertus]</i>								
*Fuirena						<i>[Handwritten: Duckweed]</i>								
Fuirena scirpoidea														
Gordonia lasianthus														
LIMS ID: 2285811														

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Z1-SL-15039		Storet: 59627		Date: 10/24/2004		SBIO ID 84097		Macro ID 12133			
SPECIES	2	5	8	11	Collect ed? (✓)	SPECIES	2	5	8	11	Collect ed? (✓)
Myriophyllum aquaticum						Salix caroliniana					
*Myriophyllum heterophyllum						Salvinia minima					
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum						Sapium sebiferum				1	
Myriophyllum spicatum						Saururus cernuus					
*Najas filifolia						Schinus terebinthifolius					
*Najas guadalupensis						*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)					
Nuphar sp.						Scirpus cyperinus					
Nymphaea odorata						*Sesbania					
Nymphoides aquatica						Solidago sp.		1	1		
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea	1			1		Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.				1	
Panicum hemitomon						Thalia geniculata					
Panicum repens		1		1		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum	1	1	1	1	
*Paspalum repens						Typha sp.		1			
Paspalum urvillei		1	1	1		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						Wedelia trilobata (Sphag. trilobata)					
*Polygonum						Wolffiella spp.					
Pontederia cordata						Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.	1	1	1	1	
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuck. pectinatus)						Saccharum		1			✓
Proserpinaca pectinata						Red Grass			1		✓
*Rhexia						Rubus				1	
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto		1	1	1							
Sacciolepis striata		1	1	1							
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											
Sphagnum	1	1									
Utricularia											
Utricularia (P. H. H.)											

*Schoenoplectus tabernaemontani = Scirpus validus

Station: Z1-SL-15039 Sharon Lake
 GPS Dec. 30.48029 x -86.33646
 Storet: 59627 WBID 712
 Sample ID: 84907 Macro ID:
 RQ-2021-08-30-06

Sampled : 10/21/2021
 Sampled By: F.Butera, S. Slade
 Location: Choctaw Beach, Walton
 Receiving Waters: Mullet Creek. Basin: Choctawhatchee Bay
 LIMS ID: 2285811

	Taxa	2	5	8	11	Coll.	Verified
1	<i>Andropogon</i> sp.	1		1			
2	<i>Bidens</i> <i>mitis</i>	1	1	1	1		
3	<i>Boehmeria</i> <i>cylindrica</i>	1					
4	<i>Clethra</i> <i>alnifolia</i>			1			
5	<i>Colocasia</i> <i>esculenta</i>		1				
6	<i>Cyperus</i> <i>blepharoleptos</i> *	1	D	D	1		
7	<i>Cyperus</i> <i>lecontei</i>				1	Y	FB
8	<i>Cyrilla</i> <i>racemiflora</i>	1	1	1			
9	<i>Dichanthelium</i> <i>scabriusculum</i>	1	1		1		
10	<i>Eleocharis</i> <i>baldwinii</i>	1	1	1	1		
11	<i>Eleocharis</i> <i>vivipara</i> (submersed)	1	1	1	1		
12	<i>Fuirena</i> <i>scirpoidea</i>				1		
13	<i>Habenaria</i> <i>repens</i>		1				
14	<i>Hydrocotyle</i> sp.		1	1	1		
15	<i>Ilex</i> <i>opaca</i>	1		1	1		
16	<i>Juncus</i> <i>effusus</i>		1	1			
17	<i>Ludwigia</i> <i>octovalvis</i>		1				
18	<i>Ludwigia</i> <i>peruviana</i>		1				
19	<i>Lycopus</i> sp.	1	1	1	1		
20	<i>Magnolia</i> <i>virginiana</i>	1					
21	<i>Mayaca</i> <i>fluviatilis</i>	1	1	1	1		
22	<i>Micranthemum</i> <i>umbros</i>			1	1		
23	<i>Myrica</i> <i>cerifera</i>	1		1	1		
24	<i>Osmunda</i> <i>cinnamomoea</i>	1			1		
25	<i>Panicum</i> <i>repens</i>		1		1		
26	<i>Paspalum</i> <i>urvillei</i>		1	1	1		
27	<i>Rubus</i> sp.				1		
28	<i>Sabal</i> <i>palmetto</i>		1	1	1		
29	<i>Saccharum</i> <i>giganteum</i>		1			Y	FB
30	<i>Sacciolepis</i> <i>striata</i>		1		1		
31	<i>Sapium</i> <i>sebiferum</i>				1		
32	<i>Solidago</i> sp.		1	1			
33	<i>Sphagnum</i> sp.	1	1				
34	<i>Taxodium</i> sp.				1		
35	<i>Triadenum</i> <i>virginicum</i>	1	1	1	1		
36	<i>Xyris</i> sp.	1	1	1	1		
	Taxa per section	17	23	19	23	Herb. Taxa	26
	Exotic Present	1	5	2	4	Woody Taxa	8
	Avg. taxa per section	21				Ferns	2
	sections with exotics	4				Macro Algae	0
	Exotic Taxa	6	Exotics per Section: 3.0			Total Taxa	36

Station: Z1-SL-15039 Sharon Lake
 GPS Dec. 30.48029 x -86.33646
 Storet: 59627 WBID 712
 Sample ID: 84907 Macro ID:
 RQ-2021-08-30-06

Sampled : 10/21/2021
 Sampled By. F.Butera, S. Slade
 Location. Choctaw Beach, Walton
 Receiving Waters: Mullet Creek. Basin: Choctawhatchee Bay
 LIMS ID: 2285811

Seen but not counted (Not approp. For LVI or Not in surveyed segment)

Taxon	2	5	8	11	Notes
Filamentous green algae	1	1	1	1	
<i>Ilex myrtlefolia</i>		1	1		above highwater
<i>Unknown Poaceae Little Grass</i>			1		Collected, Pressed, Lost
<i>Unknown Poaceae Red Grass</i>			1		Collected, Pressed, Lost

Metric	Rep. 1	Rep. 2	Rep. 3	Rep. 4	LVI Average
LVI 2012	83	32	48	48	53
Native Percentage	94.12	78.26	89.47	78.26	85.03
FLEPPC Pct (Exotic)	0	13.04	0	8.7	5.44
Total Taxa	17	23	19	23	36
C of C over 7.0	17.65	8.7	5.26	8.7	10.08
Dominant Taxa		Cyperus blepharoleptos	Cyperus blepharoleptos		Cyperus blepharoleptos
C of C Dominant		0	0		0.00

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

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

Date: <u>06/21/2021</u>		Name of Lake: <u>Z1-SL-15039</u>		Gear used: <u>PONAR</u> <u>EKMAN</u> OTHER	
Comments: <u>Lake Sharon</u>					
Drop #	Depth (m)	Sediment Type (circle all that apply)	Drop #	Depth (m)	Sediment Type (circle all that apply)
1	1.8	sand, silt/clay, CPOM, muck, SAV <u>AN</u>	7		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		sand, silt/clay, CPOM, muck, SAV	10		sand, silt/clay, CPOM, muck, SAV
5		sand, silt/clay, CPOM, muck, SAV	11	<u>Fish Feeder</u>	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

Storet 59627
WBID 712

Field ID Z1SL15039

Project. Status Small Lakes

SBIO ID: 84097

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

Revision Date: February 1, 2004

Photo Log

Win ID / Storet: 59627

Station Name: Z1-SL-15039. Sharon Lake

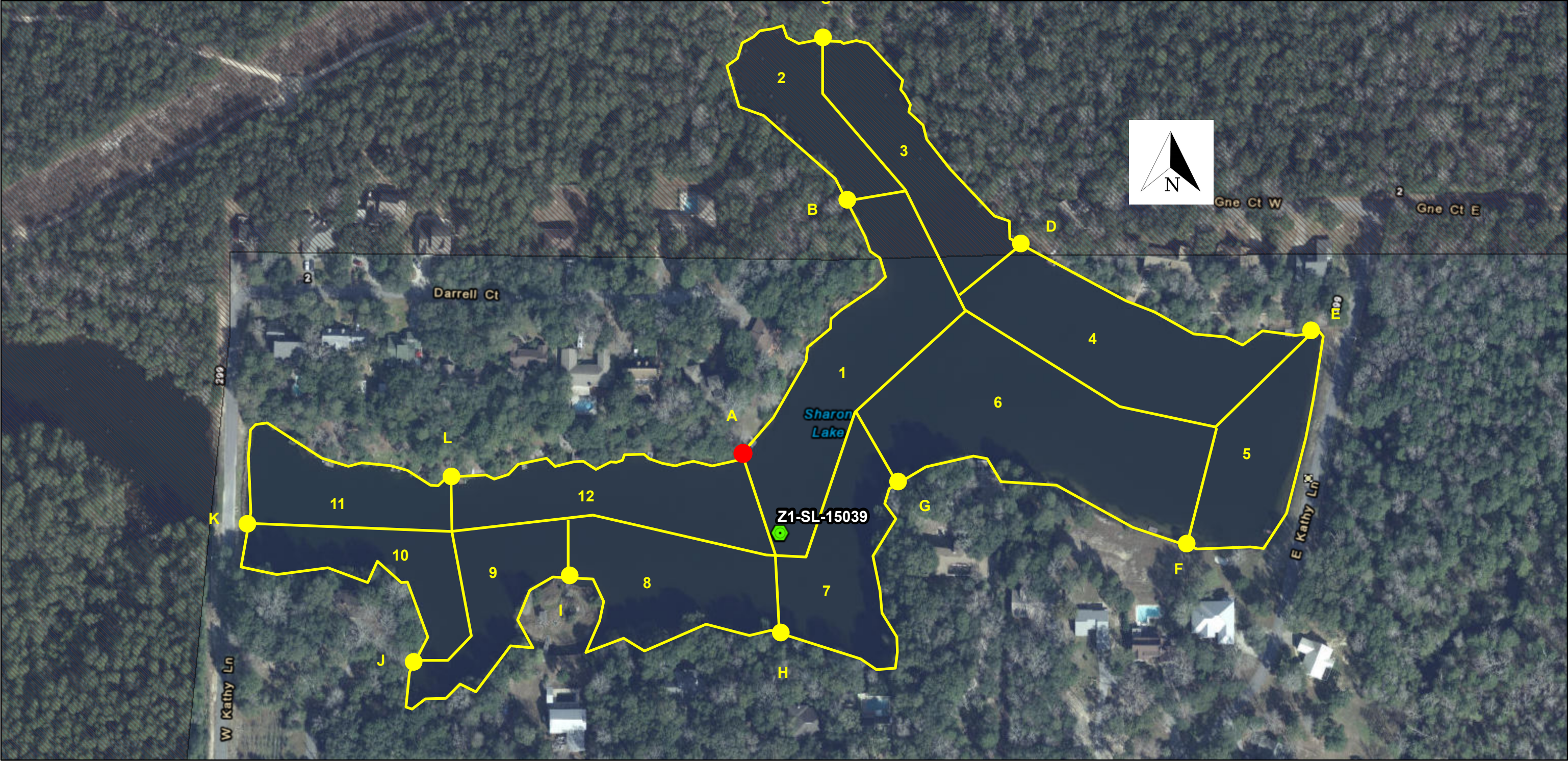
Date: 10/21/2021

Samplers: Frank Butera, Stopher Slade

1	N
2	E
3	S
4	W
5	
6	
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17	

Notes.

Z1-SL-15039 LVI Map



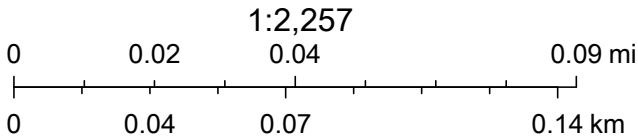
October 20, 2021

 Military Bases

 Florida Dams

 Small Lake Site

Z1-SL-15039 Sharon Lake
6.6 Hectares / 16.31 Acres
Receiving Water Mullet Ck.
Basin Choctawhatchee Bay. WBID 712
30.48029 x -86.33646
Freeport, Walton County



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Z1-SL-15039. Sharon Lake

Storet 59627

Receiving Water	Mullet Creek
Basin / WBID	Choctawhatchee Bay / 712
City, County	Freeport, Walton Co.
Lake Acreage	6.6 Hectares / 16.309 acres
Circumference (M)	1940
Seg. Length (M)	161.6666667

Section	Location	Dec Deg.
1	Storet TBD	30.48029 x -86.33646
	A	30.48065 x -86.33666
2	B	30.48180 x -86.33611
	C	30.48253 x -86.33624
	D	30.48160 x -86.33520
5	E	30.48121 x -86.33367
	F	30.48024 x -86.33432
	G	30.48052 x -86.33584
8	H	30.47984 x -86.33646
	I	30.4801 x -86.33757
	J	30.47970 x -86.33839
11	K	30.48033 x -86.33927
	L	30.48054 x -86.33819

Launch at Dam on E. Kathy Lane. 30.48055, -86.33369

Contacts