

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Status & Trend Networks - Chain of Custody Form – October 2023 version

Date Collected: 10/31/2023 **Collected By (Agency Code):** 8010
Customer: AMBIENT **Sampler Names:** Frank Butera, Lauren McNally
RQ-  **Lab Project ID:** STATUS
RQ-2023-09-04-17
Project Name: Z1SL2309 **# 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-17021	 Z1-SL-17021

L. McNally

Date: 10/31/2023 **Time:** 16:00 CTZ

Relinquished By Signature:

Relinquished By: Frank Butera

THIS SECTION IS TO BE COMPLETED BY THE LABORATORY

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



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATUS & TREND NETWORKS FIELD SHEET - SURFACE WATER
Effective: October 2023

Collection Agency: 8010 Project Name: Z1SL2309 Date: 10/31/2023

Trend Network Station Name:
OR Status Network Random ID: Z1-SL-17021

Waterbody Name: N/A RQ-2023-09-04-17

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
Lauren McNally	X	X		X				LM

Additional Personnel / Visitors On-site:

Weather Conditions: Clear and windy

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

Water Level: LOW	Flow: N/A	Tide: N/A
QA/QC Blank Collected at this station? NA		
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: YES	Sed. Collection Time (24hr): 12:20	CTZ
Sed. Collection Depth (m) (total water depth): 5.6	Number of Grabs (minimum 3): 3	
Sed. Collection Interval: Top 3-5 cm		
Sed. Collection Area Description: Center of lake		
Sed. Collection Device: Petite Ponar Grab	Device ID: Small Mouth	
Dominant Sed. Type (select one): ORGANIC MUCK		
Sediment Odors (select one): NORMAL		
Sediment Color: Dark brown		
Sediment Sample Comments: Aerobic		

Field ID: Z1-SL-17021Project Name: Z1SL2309Date: 10/31/2023

Water Sampling Equipment:

☒

Direct Grab with Sample Container

☐

Van Dorn: _____ # Grabs; _____ Equipment ID

Collection Method: Boat - Electric MotorField Meter ID: 155077 (ProDSS)Depth Measurement Device: Field Meter Listed Above

DATA COLLECTION DEPTHS: Total depth < 0.1 m → no data collection. Total depth ≥ 0.1m and < 0.6m → 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) SAMPLECollection Time (24 hr): **12:12 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)	4.7		
Total Depth (m)	5.6		
Temp (°C)	23.3		
D.O. (% SAT)	91.3		
D.O. (mg/L)	7.81		
Sp. Cond. (umhos/cm)	16.9		
pH (SU)	5.41		

BOTTOM SAMPLE (FIELD MEAS. ONLY)Collection Time (24 hr): **12:15 CTZ**

PARAMETER	VALUE	QUALIFIER(S)	RESULT COMMENT
Sample Collection Depth (m)	5.1		
Temp (°C)	23.1		
D.O. (% SAT)	81.7		
D.O. (mg/L)	6.93		
Sp. Cond. (umhos/cm)	17.7		
pH (SU)	5.2		

SAMPLE COMMENTS**PRIMARY (SURFACE):****BOTTOM:****OFFICE USE ONLY**

Reviewed By:

Date:

WIN ID: 63280

SBIO-Visit: 88799

HA-ID: 18990

RPS-ID: N/A

Macro-ID: 12768



RQ-2023-09-04-17

Project Name: Z1SL2309

Collected By (Agency Code): 8010

Sampler Names: Frank Butera, Lauren McNally

Customer: AMBIENT

Lab Project ID: STATUS

 Site Location: Z1-SL-17021  Field ID: Z1-SL-17021	Comments: Sulfuric Acid Lot #: SA3013020 Nitric Acid Lot #: NA3123030
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Matrix: W-SURF-FRSH				✓ Grab		
Date Collected	Time Collected	D.O. (% SAT)	Temp (°C)	pH (SU)	Sample Depth (m)	Sp. Cond. (umhos/cm)
10/31/2023	12:12 CTZ	91.3	23.3	5.41	0.3	16.9
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-A-TP / W-TKN / W-TOC	☒ W-NH3 / W-NO2NO3 / W-S-A-TP / 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-TSS	☒ ALKALINITY / TURBIDITY / W-CL-IC / W-COLOR / W-COND / W-F / W-SO4-IC / W-TSS		☒ Ice	1	
Microbiology (P-250ML or P-120ML)	☐ ECOLI-18-QT	☒ ECOLI-18-QT		☒ Ice	1	
Toxins (P-125ML/BG-250ML)		☒ W-MCYST-AA / W-SAXTN-MS	☐ W-MCYST-AA / W-SAXTN-MS	☒ Ice	1	
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	1	
Pesticides (BG-500ML)			☐ W-PSNP-TQ	☐ Ice		
BOD (P-1L)			☐ OV-BOD-UN	☐ Ice		
Filtered Nutrient (P-125ML)			☐ W-PO4-F	☐ Field Filtered w/ syringe & 0.45 um PES filter ☐ Ice		

Matrix: SEDIMENT	Date Collected: 10/31/2023	Time Collected: 12:20 CTZ			
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 Sp. Projects		
Metals (GJ-500ML)		☒ S-HG-TDA / S-ICP-TO / S-ICPMS-TO		☒ Ice	1 C

Matrix: BIOLOGICAL	Date Collected: 10/31/2023	Time Collected: CTZ			
Check Boxes for Each Container Submitted to Lab			Preservation	# Bottles sent to Lab	Bottle Group
Parameter Suite	Lab Test Codes Trend Core	Lab Test Codes Status Core	Lab Test Codes Special Projects		
Macroinvert-SCI (PJ-2L)	☐ MI-FW-QLDC		☐ MI-FW-QLDC	☐ Buffered Formalin (10%)	
Algal ID (PT-50ML)	☐ ALGAL_ID		☐ ALGAL_ID	☐ Ice	



RQ-2023-09-04-17

Project Name: Z1SL2309

Collected By (Agency Code): 8010

Sampler Names: Frank Butera, Lauren McNally

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-A-TP / W-TKN / W-TOC	☐ W-NH3 / W-NO2NO3 / W-S-A-TP / 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-TSS	☐ ALKALINITY / TURBIDITY / W-CL-IC / W-COLOR / W-COND / W-F / W-SO4-IC / W-TSS		☐ Ice		
Microbiology (P-250ML or P-120ML)	☐ ECOLI-18-QT	☐ ECOLI-18-QT		☐ Ice		
Toxins (P-125ML/BG-250ML)		☐ W-MCYST-AA / W-SAXTN-MS	☐ W-MCYST-AA / W-SAXTN-MS	☐ Ice		
Tracers (BG-500ML)			☐ W-E8321-DI / W-E8321-MS	☐ Ice		
Pesticides (BG-500ML)			☐ W-PSNP-TQ	☐ Ice		
Filtered Nutrient (P-125ML)			☐ W-PO4-F	☐ Field Filtered w/ syringe & 0.45 um PES filter ☐ Ice		

Site Name Z1-SL-17021. UnNamed Lake

Date: 10/31/2023

WIN-ID 63280

Field ID Z1SL17021

Project: Ambient Status Monitoring / Small Lakes

Visit ID 88799

RQ: 2023-09-04-17

Macro ID 12768

LIMS ID: 2448031

HA ID ~~189990~~ FBS 18990

WBID: 526

☒ LVI

☒ Sample Site Created in SBIO

☒ Phys/Chem in SBIO Initial FB

☒ HA entered in SBIO Initial FB

☒ LVI entered in SBIO Initial FB

☒ Plants getting verified

☒ Plants verified

☒ Date and Initial QA: 6/11/24 SS

☒ Date and Initial QA: 6/12/24 SS HA Score 133

☒ Date and Initial QA: 6/12/24 SS

☒ Date submitted: In House

☒ Date returned: In House

☒ Macro ID authorized in SBIO

☒ Date and Initial: 6/12/24 FBS

☒ Macro ID score: 97

☐ If SMP, scanned into database

Notes:

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 88799 MACROPHYTE ID: 12768 LATITUDE: N 30.49243
 COUNTY: Washington (Vernon) WIN-ID: _____ LONGITUDE: W 85.81105
 DATE: 10/31/2023 TIME: 11:30-12:30 SAMPLING AGENCY: FL DEP - NWROC
 SITE NAME: Z1-SL-17021 WBID: 526
 FIELD ID/NAME: Z1SL17021 LAKE SIZE: 5.1 Hectares RQ: 2023-09-04-17

WATERSHED / LAKESIDE FEATURES

12.5 Acres LIMS ID: 2448031

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>N/A</u> Land Use Source & Year: _____								
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy					Artificially Impounded ☐ Yes ☒ No								
Local Watershed NPS Pollution : ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy													
STORMWATER INPUTS <u>1920</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>19</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>20</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 # <u>SA3013020</u> Exp. Date: _____ 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>23.3</u> <u>5.41</u> <u>7.81</u> <u>91.3</u> <u>16.9</u> Mid-Depth: _____ Bottom: <u>5.1</u> <u>23.1</u> <u>5.2</u> <u>6.93</u> <u>81.7</u> <u>17.7</u>						Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☒ Clear ☐ Tannic ☐ Green					
Meter ID: <u>155077</u>						SECCHI (M) <u>4.7</u> Total Station Depth (M) <u>5.6</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 ☐ Anaerobic ☐ Other (Specify): _____					
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: Property managed by American Forests											
Weather Conditions: <u>Sunny, 70's. American Forests Company, LLC property</u>											
SAMPLING TEAM: Frank Butera, Lauren McNally						SIGNATURE: <u>[Signature]</u>			DATE: <u>10/30/2023</u>		

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

WIN-1D STATION NUMBER: 63280	DATE (M/D/Y) 10/31/2023	LAKE NAME Z1-SL-17021		FIELD ID / NAME Z1SL17021	
WBID: 526	COUNTY: Washington	SAMPLING LOCATION/DESCRIPTION: Vernon, FL		LAKE SIZE: 5.1 Hectares	
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	
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) ☐	
	Optimal	Suboptimal		Marginal	
Secchi	Secchi > 3 m	Secchi (m)		Secchi (m)	
4.7m	20	19	18	17	16
	20	19	18	17	16
Vegetation Quality	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	
19	20	19	18	17	16
	20	19	18	17	16
Stormwater Inputs	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	
28	20	19	18	17	16
	20	19	18	17	16
Bottom Substrate Quality	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	
19	20	19	18	17	16
	20	19	18	17	16
Lakeside Adverse Human Alterations	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	
19	20	19	18	17	16
	20	19	18	17	16
Upland Buffer Zone	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	
20	20	19	18	17	16
	20	19	18	17	16
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, <u>Silviculture</u> , Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial				
16	20	19	18	17	16
	20	19	18	17	16
TOTAL SCORE	133				
133	133				
COMMENTS:	Lake Center Aerobic Muck 05.7m deep.				
ANALYSIS DATE:	10/31/2023		ANALYST:		SIGNATURE:
	F. Butler				

SBIO Sample ID: 88799

HA ID: 18990

QC✓: _____

HA Score 133

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Z1-SL-17021				County: Washington (near Vernon)				Date: 10/3/2023			
Analyst: F. Butera				Signature: <i>F. Butera</i>				WIN-ID: 63280			
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 88799	3	6	9	12	Collect ed? (✓)	Macro ID 12768	3	6	9	12	Collect ed? (✓)
SPECIES						SPECIES					
Acer rubrum						Habenaria repens					
Alternanthera philoxeroides						Hydrilla verticillata					
Andropogon sp.						Hydrocotyle sp.					
Azolla filiculoides (A. caroliniana)						Hygrophila polysperma					
Baccharis sp.						*Hypericum fasciculatum					
Bacopa caroliniana						*Hypericum hypericoides					
Bacopa monnieri						*Hypericum myrtifolium <i>lissoph</i>	1	1	1	1	
Bidens laevis						Ilex cassine					
Bidens mitis						Ipomoea aquatica					
Blechnum serrulatum						Ipomoea sagittata					
Boehmeria cylindrica						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						Leucothoe racemosa (E. racemosa)					
*Commelina						Limnium 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						*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						Myrica cerifera					
Eleocharis cellulosa											
Eleocharis equisetoides											
Eleocharis interstincta <i>elongata</i>											
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium											
*Fuirena											
Fuirena scirpoidea											
Gordonia lasianthus											
LIMS ID: 2448031											

[illegible]

Station: Z1-SL-17021. UnNamed Lake
 GPS Dec. 30.40432 x -86.48244
 Storet: G3NW0217 WBID 906B
 Sample ID: 88799 Vascular ID: 12768
 RQ-2023-06-12-63

Sampled : 10/31/2023
 Sampled By: F.Butera, L. McNally
 Location: Ebro, Washington County
 Receiving Waters: Choctawhatchee River
 LIMS ID: 2448031

	Taxa	3	6	9	12	Coll.	Verified
1	<i>Brasenia schreberi</i>	C	D	C	C		
2	<i>Centella asiatica</i>			1			
3	<i>Cephalanthus occidentalis</i>	1	1	1			
4	<i>Cyrilla racemiflora</i>			1			
5	<i>Eleocharis baldwinii</i>	1	1		1		
6	<i>Eleocharis elongata</i>	1		1	1		
7	<i>Eriocaulon compressum</i>	1	1		1		
8	<i>Eupatorium capillifolium</i>	1		1	1		
9	<i>Fuirena scirpoidea</i>	1					
10	<i>Hypericum lissophloeus</i>	1	1	1	1		
11	<i>Leersia hexandra</i>		1	1	1		
12	<i>Ludwigia repens</i>		1	1	1		
13	<i>Mayaca fluviatilis</i>			1	1		
14	<i>Myriophyllum aquaticum</i>	1			1		
15	<i>Nymphaea odorata</i>	1		1	1		
16	<i>Panicum hemitomon</i>	1	1	1	1		
17	<i>Sagittaria isoetiformis</i>	1		1	1		
18	<i>Sphagnum</i> sp.			1			
19	<i>Utricularia floridana</i>	C	1	C	C		
20	<i>Xyris</i> sp.	1		1	1		
	Taxa per section	14	9	16	15	Herb. Taxa	17
	Exotic Present	1	0	0	1	Woody Taxa	2
	Avg. taxa per section	14				Ferns	1
	sections with exotics	2				Macro Algae	0
	Exotic Taxa	1	Exotics per Section: 0.5			Total Taxa	20

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

Taxon	Section	Section	Section	Section	Exclusion
<i>No taxa</i>					

Metric	Rep. 1	Rep. 2	Rep. 3	Rep. 4	LVI Average
LVI 2012	94	100	99	94	97
Native Percentage	92.86	100	100	93.33	96.55
FLEPPC Pct (Exotic)	0	0	0	0	0.00
Total Taxa	14	9	16	15	13.50
C of C over 7.0	28.57	33.33	31.25	33.33	31.62
Dominant Taxa	<i>B. schreberi</i> , <i>U. floridana</i>	<i>U. floridana</i>	<i>B. schreberi</i> , <i>U. floridana</i>	<i>B. schreberi</i> , <i>U. floridana</i>	<i>B. schreberi</i> , <i>U. floridana</i>
C of C Dominant	7.565	8.79	7.565	7.565	7.87

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

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

Date: 10/31/2013	Name of Lake: Z1-SL-17021	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		sand, silt/clay, CPOM, muck, SAV	7		sand, silt/clay, CPOM, muck, SAV
2		sand, silt/clay, CPOM, muck, SAV	8		sand, silt/clay, CPOM, muck, SAV
3	SA	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	5.6	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 63280
WBID 526

Field ID Z1SL17021

Project.

Status Small Lakes
Z1SL2309

SBIO ID: 88799

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

Revision Date: February 1, 2004

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: 155077

RQ: 2023-09-04-17

Project: Status Small Lakes

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 10/5/23

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.	F. Butler	10/31/24	7:45	23.4	762.0	8.5	8.53	100.3		1.007	P/F	L/F
ICV	F. Butler		7:49	23.5	762.0	8.54	8.54	100.6			P/F	L/F
CCV	F. Butler	10/31/24	16:16	20.9	760.8	8.9	8.89	99.7			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 (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.	F. Butler	10/31/24	7:54	221221B	01/2024	1000	1000	P/F	L/F
ICV			7:56	230627A	04/2024	100	98.4	P/F	L/F
CCV	F. Butler	10/31/23	16:19	230627A	07/2024	100	99.0	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.	F. Butler	10/31/24	7:59	1LL0690	8/31/24	7.0	23.7	7.01	-33.4	P/F	L/F
Calibr.			8:01	1MD0886	5/15/24	4.0	23.7	4.00	142.8	P/F	L/F
Calibr.			8:03	1L50576	12/31/23	10.0	23.6	9.99	-198.1	P/F	L/F
ICV			8:05	1MD0886	5/15/24	4.0	23.4	3.98	112.6	P/F	L/F
CCV	F. Butler	10/31/23	16:21	1LL0690	8/31/24	7.0	21.6	7.06	-32.5	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 10 164.7, slope from 4 to 7 176.2 (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: 10/05/2023

If NO, what will be used? (circle one) **Secchi Disk Line** / Sonar Unique ID: _____; Date of last verification: _____

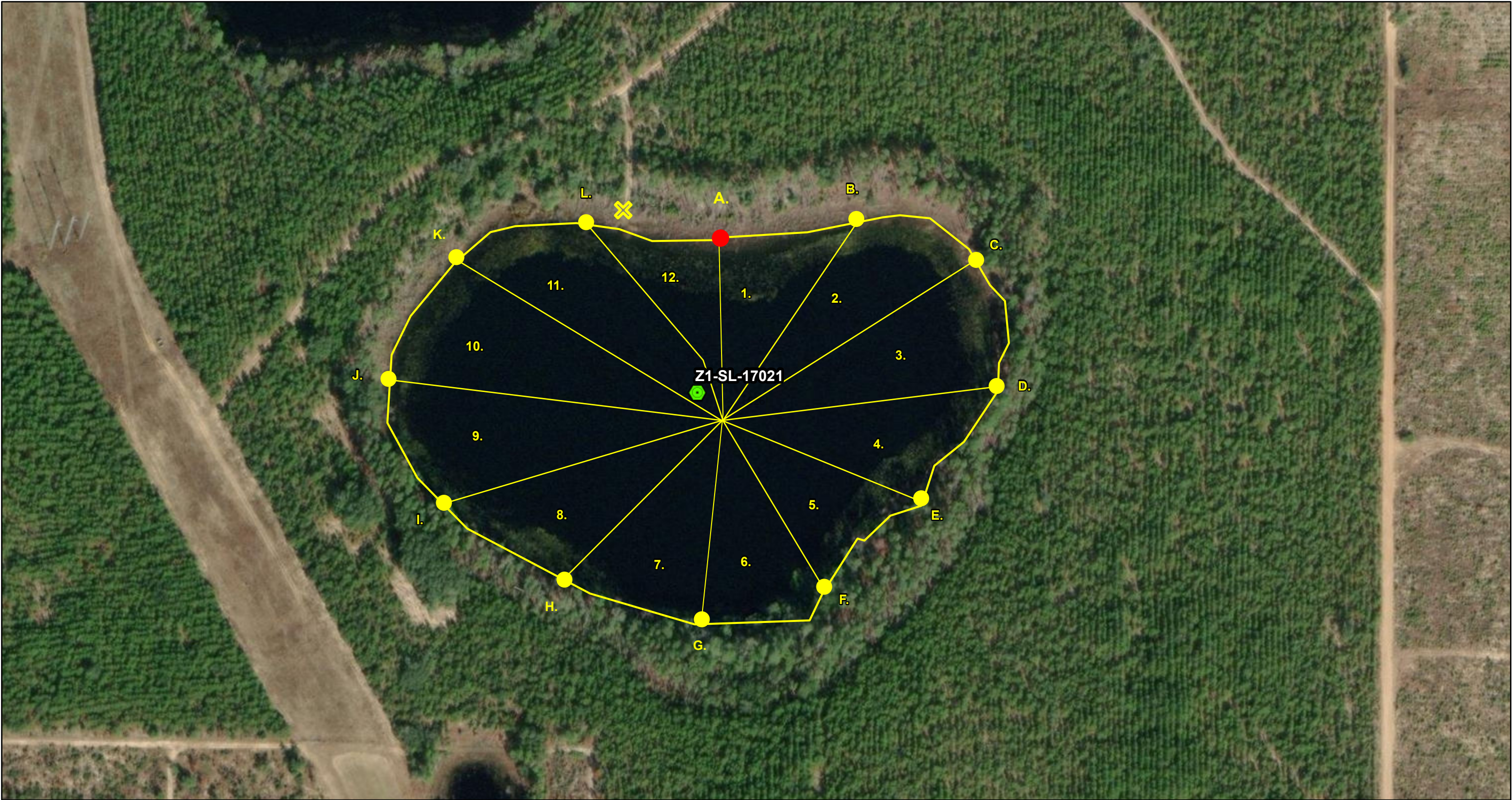
Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	F. Butler	10/31/23	8:08	0.00	0.00	P/F	L/F

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

COMMENTS:

Project
Z1SL2309 Z1SL-17021

Z1-SL-17021 LVI Map

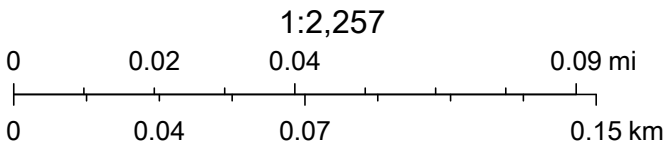


October 24, 2023

 Small Lake Site

Waterbody IDs (WBIDs)

 Group 3



FDEP, DEAR, DEAR, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, County of Bay, Esri, HERE, iPC, FDEP, FDEP,DEAR, State of Florida, Maxar, Microsoft

Z1-SL-17021

WIN-ID	63280
Receiving Water	Pine Log Creek / Floridian Aquifer
Basin / WBID	St. Andrews Bay / 526
City, County	Washington
Lake Acreage	5.05 Hectares, 12.5 Acres
Circumference (M)	870
Seg. Length (M)	72.5

Section	Location	Dec Deg.
11	WIN-ID	30.49243, -85.81105
	A	30.49315, 85.81093
	B	30.49323, 85.81020
3	C	30.49304, 85.80955
	D	30.49246, 85.80944
	E	30.49194, 85.80985
6	F	30.49153, 85.81037
	G	30.49138, 85.81103
	H	30.49156, 85.81177
9	I	30.49192, 85.81242
	J	30.49249, 85.81271
	K	30.49306, 85.81235
12	L	30.49322, 85.81165
	A	30.49315, 85.81093

Private Launch 30.49327 x 85.81145
 Turn at driveway off of SR 79 at 30.48623, 85.84221
 Forester Connor 850 326-6660
 Lock Code 1996