

Site Name Lake Alaqua/ Z1-SL-4021

Date 10/11/2017

Field ID 37985

Storet 37985

Visit ID 78032

RQ: 2017-10-09-25

RPS ID N/A

SURVEY: Reference Lakes

VPDB ID 10973

HA ID 14843

☐ SCI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/chem entered in SBIO

☒ HA entered in SBIO Initial FB

☒ Date and Initial QA: mk 10/11/2017

☐ RPS entered in SBIO Initial

☐ Date and Initial QA:

☒ LVS entered in SBIO Initial FR
LVI

☒ Date and Initial QA: 6/22/18

☐ < 2 m² vegetation

☒ Plants getting verified

Date submitted: 11/2017

☒ Plants verified

Date returned: 06/14/2018

LVS authorized in SBIO 06/25/2018
LVI

LVI SCORE 59

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 78032 MACROPHYTE ID: 10973 LATITUDE: N 30.753235
 COUNTY: Walton STORET #: 37985 LONGITUDE: W 86.05771
 DATE: 10/11/2017 TIME: 12:45 SAMPLING AGENCY: FL DEP - NWROC
 SITE NAME: Lake Alaqua - I WBID: 323
 FIELD ID/NAME: 37985 LAKE SIZE: 21 RQ: 2017-10-09-25

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) ☐				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI:	
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution : ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy				Artificially Impounded ☒ Yes ☐ No Land Use Source & Year:	
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	
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	
BUFFER ZONE <u>17</u>		Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 <u>17</u> 16		89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 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	
				Many structures, roads or other human disturbance visible (50%-70% lakeside affected) 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	
				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	

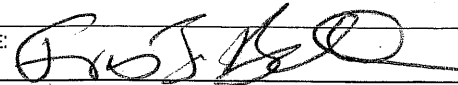
WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water: Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☐ Yes ☐ No pH<2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>54-7493010</u> Exp. Date: <u>04/03/18</u> Alkalinity Sample Taken? ☒ Yes ☐ No Lot # <u>6302040</u> Exp. Date: <u>10/28/17</u> 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>27.47</u> <u>5.23</u> <u>7.89</u> <u>99.8</u> <u>17</u> <u>0.01</u> Mid-Depth: <u>2.5</u> <u>26.14</u> <u>5.27</u> <u>5.93</u> <u>70.9</u> <u>17</u> <u>0.01</u> Bottom: <u>5.45</u> <u>24.32</u> <u>5.29</u> <u>5.80</u> <u>69.2</u> <u>18</u> <u>0.01</u>						Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☒ Clear ☐ Tannic ☒ Green SECCHI (M) <u>4.1</u> <u>4.0</u> Total Station Depth (M) <u>5.0</u> VOB ☒ None					
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 ☒ ☐ ☐ ☐					
Weather Conditions: <u>Sunny, P clouds, 80's.</u>						Additional Notes: <u>Fe Sulfur Bacteria near DAM to SE Dock area.</u> <u>Impoundment on Bishop Branch.</u> <u>ORGBD JIFLGW</u>					
SAMPLING TEAM: Frank Butera, Mike King						SIGNATURE: <u>[Signature]</u>					
						DATE: <u>10/11/2017</u>					

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

STORET STATION NUMBER: 37985	DATE (M/D/Y) 10/11/2017	LAKE NAME: Lake Alauqua		FIELD ID / NAME: 37985
ECO-REGION:	COUNTY: Walton	SAMPLING LOCATION/DESCRIPTION: Alauqua Lk. on Boy Scout Rd.		LAKE SIZE: 21 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 4.1 ☒	Secchi > 3 m Or VOB 20 19 18 17 16	3 2.6 2.2 1.8 1.4 15 14 13 12 11	1.0 0.9 0.8 0.7 0.6 10 9 8 7 6	0.5 0.4 0.3 0.2 0.1 5 4 3 2 1
Vegetation Quality ☒	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 FB 15 ☒	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	124	COMMENTS: SB10 ID 78032 HAZD 14843
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ANALYSIS DATE: 10/11/2017	ANALYST: Frank Butera, Mike King	SIGNATURE: 
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DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Lake Alaqua		County: Walton		Date: 10/11/2017	
Analyst: F. Butera		Signature: <i>[Signature]</i>		STORET: 37985	
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 78032	2	5	8	11	Collect ed? (✓)
SPECIES					
Acer rubrum					
Alternanthera philoxeroides					
Andropogon sp.					
Azolla filiculoides (A. caroliniana)					
Baccharis sp.					
Bacopa caroliniana					
Bacopa monnieri					
Bidens laevis					
Bidens mitis	1	1	1	1	
Blechnum serrulatum					
Boehmeria cylindrica		1			
Brasenia schreberi					
Cabomba caroliniana					
Casuarina equisetifolia					
Centella asiatica					
Cephalanthus occidentalis					
Ceratophyllum demersum					
Chara sp.					
Cladium jamaicense					
Cliftonia monophylla	1	1	1	1	
Colocasia esculenta					
*Commelina					
Crinum americanum					
*Cyperus alternifolius (C. involucratus)					
Cyperus articulatus					
Cyperus haspan					
*Cyperus lecontei					
*Cyperus polystachyos					
*Cyperus odoratus					
*Cyperus surinamensis					
Cyrtilla racemiflora	1	1	1	1	
Decodon verticillatus					
Diodia virginiana					
*Echinochloa crus-galli					
*Echinochloa muricatum					
Echinochloa walteri					
Eclipta prostrata (E. alba)					
Egeria densa					
Eichhornia crassipes					
*Eleocharis baldwinii	1	1	1	1	
*Eleocharis					
Eleocharis cellulosa					
Eleocharis equisetoides					
Eleocharis interstincta					
*Eriocaulon compressum					
*Eriocaulon decangulare					
Eupatorium capillifolium					
*Fuirena					
Fuirena scirpoidea					
Gordonia lasianthus					
Macro ID 10973	2	5	8	11	Collect ed? (✓)
SPECIES					
Habenaria repens					
Hydrilla verticillata					
Hydrocotyle sp.					
Hygrophila polysperma					
*Hypericum fasciculatum					
*Hypericum hypericoides					
*Hypericum myrtifolium					
Ilex coccinea <i>coriacea</i>					
Ipomoea aquatica					
Ipomoea sagittata					
Itea virginica					
Juncus effusus					
*Juncus marginatus					
*Juncus megacephalus <i>polycephalus</i>					
Juncus repens					
*Juncus scirpoides					
Lachnanthes caroliniana					
Leersia hexandra					
Landoltia punctata (Spiro. punctata)					
Lemna sp.					
Leucothoe racemosa (Eubotrys racemosa)					
Limnium spongia					
Limnophila sessiliflora					
Liquidambar styraciflua					
*Ludwigia arcuata					
*Ludwigia leptocarpa					
*Ludwigia linearis					
*Ludwigia octovalvis					
*Ludwigia peruviana					
*Ludwigia repens					
*Ludwigia <i>sp.</i>					
Luziola fluitans (Hydrochloa carolinensis)					
Lyonia lucida					
Magnolia virginiana					
Mayaca fluviatilis					
Melaleuca quinquenervia					
Micranthemum glomeratum					
Micranthemum umbrosum					
Mikania scandens					
Mimosa pigra					
Myrica cerifera					
<i>Dicran SCAB</i>					
<i>CAREX glaucescens</i>					
<i>Red cedar</i>					
<i>Cycas</i>					
<i>Al. White cedar</i>					
<i>Dulichium</i>					
<i>Synceus trigonocarpus</i>					
<i>Rhododendron</i>					
<i>Magnolia grandiflora</i>					

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: Lake Alaqua. Storet 37985.

Date: 10/11/2017

SBIO ID 78032 Macro ID 10973

SPECIES	2	5	8	11	Collect ed? (✓)	SPECIES	2	5	8	11	Collect ed? (✓)
Myriophyllum aquaticum						Salix caroliniana					
*Myriophyllum heterophyllum	1					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				1	
Nymphaea odorata						*Sesbania					
Nymphoides aquatica						Solidago sp.					
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.					
Panicum hemitomon						Thalia geniculata					
Panicum repens				1		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum	1	1	1	1	
*Paspalum repens						Typha sp.					
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.						*Utricularia gibba (U. biflora)					
Persea sp.						*Utricularia floridana			1	1	
Pennisetum purpureum						*Utricularia foliosa					
Phragmites australis						*Utricularia inflata					
Pinus elliotii				1		*Utricularia purpurea					
Pistia stratioides						*Utricularia cornuta					
Pluchea sp.						*Utricularia radiata					
*Polygonum glabrum (densiflorum)						Vallisneria americana					
*Polygonum hydropiperoides						*Websteria confervoides	1	1	1	1	
*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)						Yuccinia	1			1	
Proserpinaca pectinata						Y.H.S					
*Rhexia						phyllanthus urina					
*Rhynchospora corniculata						Andropogon					
*Rhynchospora inundata						paspalum dilatatum (5)					
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata	1										
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											
Ilex opaca	1	1									

[illegible]

Station: Lake Alaqua (Z1-SL-4021)
 GPS Dec. 30.753235 x 86.05771
 Storet: 37985 WBID 323
 Sample ID : 78032
 Macro ID: 10973

Sampled : 10/11/2017
 Sampled By: F. Butera, Mike King
 Location: Defuniak Springs, Walton Co. FL
 Receiving Waters: Bishop Br. → Alaqua Ck.

	Taxa	2	5	8	11	C of C	Coll.	Verified
1	<i>Andropogon</i> sp.		1					
2	<i>Carex glaucescens</i>	1	1	1		4.70		
3	<i>Dulichium arundinaceum</i>	1	1	1	1	7.31		
4	<i>Eleocharis baldwinii</i>	1	1	1	1	1.00		
5	<i>Eriocaulon decangulare</i>			1		7.50		
6	<i>Juncus marginatus</i>		1		1	3.65		
7	<i>Juncus polycephalus</i>	1		1		4.96		
8	<i>Juncus trigonocarpus</i>	1		1	1			
9	<i>Mayaca fluviatilis</i>	1	1	D	C	8.45		
10	<i>Panicum repens</i>				1	0.00		
11	<i>Panicum scabriusculum</i>	1		1	1	7.15		* old name
12	<i>Paspalum dilatatum</i>		1			4.33		
13	<i>Sacciolepis striata</i>	1				5.35		
14	<i>Scirpus cyperinus</i>				1	3.50		
15	<i>Websteria confervoides</i>	D	1	1	C	4.00		
16	<i>Xyris</i> sp.	1	1	1	1			
17	<i>Bidens mitis</i>	1	1	1	1	6.31		
18	<i>Boehmeria cylindrica</i>		1			5.91		
19	<i>Ludwigia</i> sp. (unknown nativity)		1			6.75		
20	<i>Mikania scandens</i>		1			1.95		
21	<i>Myriophyllum heterophyllum</i>	1				5.85		
22	<i>Phyllanthus urinaria</i>		1			0.22		
23	<i>Triadenum virginicum</i>	1	1	1	1	8.16		
24	<i>Utricularia floridana</i>			1	1	6.34		
25	<i>Vitis</i> sp.		1					
26	<i>Chamaecyparis thyoides</i>	1	1	1	1	7.09		
27	<i>Cliftonia monophylla</i>	1	1	1	1	5.63		
28	<i>Cyrilla racemiflora</i>	1	1	1	1	5.20		
29	<i>Ilex coriacea</i>				1	3.10		
30	<i>Ilex opaca</i>	1	1			4.55		
31	<i>Leucothoe racemosa</i>	1		1		9.44		
32	<i>Lyonia lucida</i>	1	1	1	1	7.06		
33	<i>Magnolia grandiflora</i>	1	1		1	4.36		
34	<i>Magnolia virginiana</i>				1	9.44		
35	<i>Myrica cerifera</i>			1	1	3.82		
36	<i>Pinus elliotii</i> (Slash)				1	4.21		
37	<i>Rhododendron viscosum</i> var. <i>serrulatum</i>	1	1		1			
38	<i>Vaccinium</i> sp.	1			1			
39	<i>Lycopodium</i> sp.	1	1	1	1			
	Taxa per section	23	25	20	25	Herb. Taxa	25	
	Exotic Present	0	2	0	1	Woody Taxa	13	
	Avg. taxa per section	23				Ferns	1	
	sections with exotics	2				Macro Algae	0	
	Exotic Taxa	3				Total Taxa	39	

Seen but not counted (Not approp. For LVI or Not in surveyed segment)				
<i>Solidago</i> sp.	-	-	-	-

Metric	Rep. 1	Rep. 2	Rep. 3	Rep. 4	LVI Average
LVI 2012	65	39	72	63	59.75
LVI 2012 Category	-	-	-	-	
Native Percentage	95.45	82.61	95	91.67	91.18
FLEPPC Pct (Exotic)	0	0	0	4.17	1.04
Total Taxa	22	23	20	24	22.25
C of C over 7.0	22.73	17.39	30	20.83	22.74
Dominant Taxa	Websteria confervoides	-	Mayaca fluvialis	M. fluvialis/ W.	Panicum repens
C of C Dominant	7	-	8.45	7.725	7.73

Panicum scabriusculum is a synonym and is the listed name for *Dichantherium scabriusculum* in the VPDB.

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

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

Date: 10/11/17		Name of Lake: Lake Alaqua.		Gear used: <u>PONAR</u> EKMAN OTHER	
Comments: SBIO ID 78032					
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	2.8	* sand, silt/clay, CPOM, muck, SAV	8	7.0	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	4.5	* sand, silt/clay, CPOM, muck, SAV	11	3.0	sand, silt/clay, CPOM, muck, SAV
Storet	5.0	* sand, silt/clay, CPOM, muck, SAV	12		sand, silt/clay, CPOM, muck, SAV

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

Storet 37985

Field ID 37985 Project. Reference Lakes

SBIO ID:

WBID 323

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 37985

Station Name: Lake Alaqua

Date: 10/11/2017

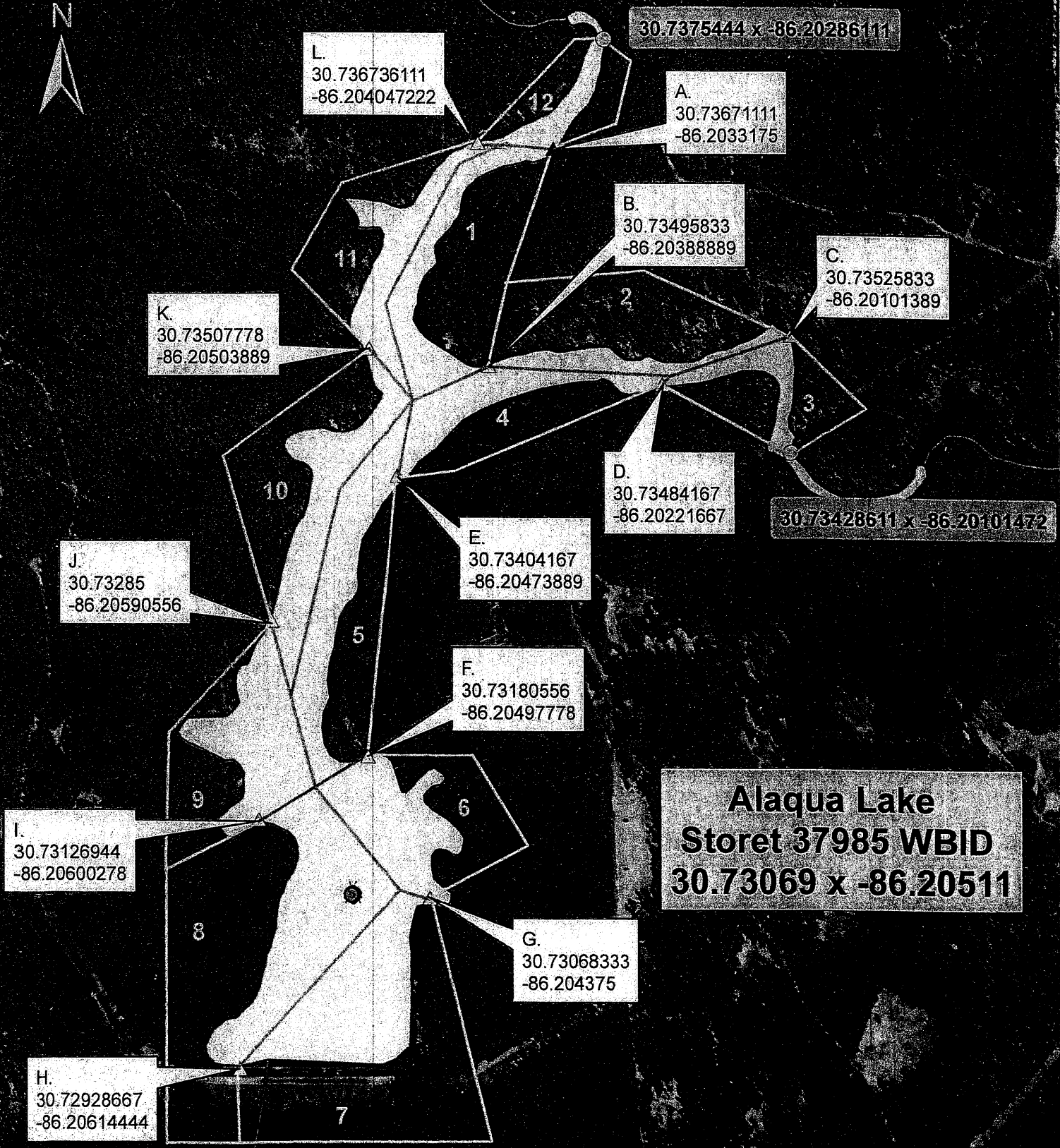
Samplers: F. Butera, M. King

SB10 20 78032

- 1 Section 4 - South
- 2 Section 6 - EAST
- 3 Section 8 - South
- 4 Section 8 - West
- 5 Section 9 - West
- 6 Section 11 - North
- 7 Stow-Away (spide)
- 8 _____
- 9 _____
- 10 _____
- 11 _____
- 12 _____
- 13 _____
- 14 _____
- 15 _____
- 16 _____
- 17 _____

Notes.

21 Acres



L.
30.736736111
-86.204047222

30.7375444 x -86.20286111

A.
30.73671111
-86.2033175

B.
30.73495833
-86.20388889

C.
30.73525833
-86.20101389

K.
30.73507778
-86.20503889

D.
30.73484167
-86.20221667

30.73428611 x -86.20101472

J.
30.73285
-86.20590556

E.
30.73404167
-86.20473889

F.
30.73180556
-86.20497778

Alaquia Lake
Storet 37985 WBID
30.73069 x -86.20511

I.
30.73126944
-86.20600278

G.
30.73068333
-86.204375

H.
30.72928667
-86.20614444

Alaqua Lake @ Boy Scout Camp

Storet 37985
Receiving Water Bishop Br. → Bear Ck → Alaqua Ck
Basin, WBID Choctawhatchee Bay, 323
City, County Defuniak Springs, Walton
Lake Acreage 21
Circumference (M) 3580.44
Seg. Length (M) 298

Location	Decimal Latt	Decimal Long
Storet	30.73069	-86.20511
A	30.73671111	86.2033175
B	30.73495833	86.20388889
C	30.73525833	86.20101389
D	30.73484167	86.20221667
E	30.73404167	86.20473889
F	30.73180556	86.20497778
G	30.73068333	86.204375
H	30.72928667	86.20614444
I	30.73126944	86.20600278
J	30.73285	86.20590556
K	30.73507778	86.20503889
L	30.73673611	86.20404722

Guide Points...	Decimal Latt	Decimal Long
Sect 12	30.7375444	86.20286111
Sect 3	30.73428611	86.20101472

Z1-SL-4021 / Alagua Lake

Sampled 10-06-2010

Macro ID: 7096

Sample ID: 68529

Storet: 37985

GPS: N 30°43' 50.5" X W 86°12' 18.4"

Lake units sampled: 3,6,9,12

Time to complete survey: hrs.

Lake Section

	Taxa	3	6	9	12	C of C	Verified
1	<i>Andropogon glomeratus</i>		1			3.90	
2	<i>Carex glaucescens</i>	1		1	1	4.70	Anderson
3	<i>Eleocharis baldwinii</i>	1	1		1	2.82	
4	<i>Eriocaulon compressum</i>		1			7.50	
5	<i>Fuirena breviseta</i>		1			7.60	Anderson
6	<i>Juncus trigonocarpus</i>	1	1		1		Anderson
7	<i>Mayaca fluviatilis</i>	D	D	D	D	8.45	
8	<i>Panicum repens</i>		1			0.00	
9	<i>Panicum scabriusculum</i>	1	1		1	7.15	
10	<i>Xyris elliotii</i>	1	1	1	1	6.69	Anderson
11	<i>Bidens mitis</i>	1	1			6.31	
12	<i>Drosera</i> sp.		1				
13	<i>Hydrocotyle</i> sp.		1			2.00	
14	<i>Hypericum</i> sp.		1				
15	<i>Ludwigia grandiflora</i>		1		1	1.44	
16	<i>Solidago</i> sp.		1		1		
17	<i>Triadenum virginicum</i>				1	8.16	
18	<i>Utricularia floridana</i>		1			6.34	
19	<i>Vitis</i> sp.		1		1		
20	<i>Chamaecyparis thyoides</i>	1	1			7.09	
21	<i>Cliftonia monophylla</i>	1	1	1	1	5.63	
22	<i>Cyrilla racemiflora</i>	1	1	1	1	5.20	
23	<i>Ilex vomitoria</i>	1	1		1	3.00	
24	<i>Leucothoe racemosa</i>	1		1		9.44	
25	<i>Lyonia lucida</i>	1	1	1	1	7.06	
26	<i>Magnolia grandiflora</i>	1		1	1	4.36	
27	<i>Magnolia virginiana</i>	1		1	1	9.44	
28	<i>Persea palustris</i>	1		1	1	8.31	
29	<i>Pinus elliotii</i>	1		1		4.21	
30	<i>Rhododendron viscosum</i> var. <i>serrulatum</i>				1		Anderson
31	<i>Sabal palmetto</i>	1				4.85	
32	<i>Taxodium distichum</i>		1			7.21	Anderson
	Taxa per section	19	23	11	18	Herb. Taxa	19
	Exotic Present	0	2	0	1	Woody Taxa	13
	Avg. taxa per section	18	Median	Avg. Cof C	Mode	Ferns	0
	sections with exotics	2	6.31	5.65	9.44	Macro Algae	0
	Exotic Taxa	2	Exotics per Section: 0.75			Total Taxa	32