FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter Passed End of Day CCV: Yes ✓ No

WIN Station Name:	COLEMAN LAKE					**Sample Date:**	6/14/2023
WIN / Field ID:	G3NW0216	**ORG ID:**	21FLPNS	**ENR:**	-	**Latitude:**	30.40236
County:	OKALOOSA	**WBID:**	906B	LAKE		**Longitude:**	-86.48002
Receiving Body of Water:	Joes Bayou					**RQ-**	2023-06-12-63

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Frank Butera	x	x	x		
Hannah Henning		x		x	x

Sampling Equipment					
x	Sample Container			Carboy	
	Dipper			Van Dorn	
x	Syringe			Pole	
Syringe Lot#	*1363514*		**Filter Lot#**	*17460495*	
Secchi Equipment ID:	*Secchi - 2*				

Collection Method			
	Wading	x	Canoe/Kayak
	From Shore		Electric Motor
			Gasoline Motor
Depth Measured With	*Meter*		

Water Level:	*Normal*
Flow:	*NA*
Matrix:	*Fresh*
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	*Yes*
Meter ID:	*Trend YSI*
Depth Gauge ID:	**depth_gauge**

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPTh)
CEN	1230	1.5	0.3	10.24	136.6	29.6	9.44	0.3	196.8	0.09
	1246		1	1.88	24.1	28.4	7.16		192.8	0.09

Biological Samples Collected: HA LVI

SBIO Visit ID: 87386 **HA ID: 18564** **RPS ID: N/A** **Macrophyte ID: 12501** **LIMS Sample ID Entered Into The Macrophyte Module: 2417555**

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation Type		Lot#	Expiration Date	pH Check
Microbiology								
Chlorophyll	CHLSUITE-W			ICE				
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE				
	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE				
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE		Syring Lot#:1363514; Filter Lot#:17460495		
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	*SA2299040*	*11/24/2023*	*H2SO4 pH<2*
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA2230040	09/01/2023	HNO3 pH<2
Organics (LC)	W-E8321-DI	W-E8321-MS						
Macroinvertebrates								
Organics (GC)				Ice				
	W-PSNP-TQ	W-TR-SQ-R						
Molecular								
Periphyton								
Phytoplankton								
BOD								
DOC								
					SyringLot#		FilterLot#	
Other(s)								

*2.0 ml of H2SO4 Used Unless Noted Otherwise
**2.0 ml of HNO3 Used Unless Noted Otherwise

Field Comments:	Algae Bloom! Hot		
Comments on COC:			
Relinquish Date:	06/14/2023	**Signature:**	

LIMS EVENT ID: _____ **WIN Import ID:** _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ (Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: _____ (Initials/Date)

Save Field Sheets on Network: _____ (Initials/Date)

Migrate Data to WIN: _____ (Initials/Date)

Site Name Coleman Lake

Date: 06/14/2023

WIN-ID G3NW0216 Field ID G3NW0216

Project: SMP/TMDL Studies

Visit ID 87386

RQ: 2023-06-12-63

Macro ID 12501

LIMS ID: 2417555

HA ID 18564

WBID: 906B

☑ LVI

☑ Sample Site Created in SBIO

☑ Phys/Chem in SBIO Initial FB ☑ Date and Initial QA: 8/1/23 BO

☑ HA entered in SBIO Initial FB ☑ Date and Initial QA: 8/1/23 BO HA Score 24

☑ LVI entered in SBIO Initial FB ☑ Date and Initial QA: 8/1/23 BO

☑ Plants getting verified ☑ Date submitted: 6/14/23

☑ Plants verified ☑ Date returned: 6/15/23

☑ Macro ID authorized in SBIO ☑ Date and Initial: 8/15/23 FB

☑ Macro ID score: 5

☑ If SMP, scanned into database

Notes:

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 87386 MACROPHYTE ID: 12501 LATITUDE: ~~N 30.30710~~ 30.40236

COUNTY: ~~Walton (Santa Rosa Beach)~~ STORET #: ~~G3NW0008~~ G3NW0216 LONGITUDE: ~~W 86.0008~~ 86.48003

DATE: 6/14/2023 TIME: 12:30 (CDT) SAMPLING AGENCY: FL DEP - NWROC

SITE NAME: ~~Tresca Lake~~ Coleman Lake WBID: ~~1040C~~ 906B 2023-06-12-63

FIELD ID/NAME: ~~G3NW0008~~ G3NW0216 LAKE SIZE: ~~3.9 acres~~ 4 water RQ: ~~2023-6-05-62~~

WATERSHED / LAKESIDE FEATURES Project: SMP / TMDL Studies LIMS: 2417555

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

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)
				X	2	X	X + Twp Airport

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: N/A

Land Use Source & Year:

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

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

Artificially Impounded ☒ Yes ☒ ~~No~~

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

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water:

Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☒ pH<2 ☐ No

Color Sample Taken? ☐ Yes ☐ No Lot # SA229040 Exp. Date: 10/04/23

Alkalinity Sample Taken? ☐ Yes ☐ No

Water Level ☐ Low ☐ Normal ☐ High

Water Odors: ☐ Normal ☒ Sewage ☐ Petroleum ☐ Other

Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other

Meter Readings:	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)
Top:	0.3	29.6	9.44	10.24	136.6	196.8	0.09
Mid-Depth:							
Bottom :	1.0	28.4	7.16	1.88	24.1	192.8	0.09

Meter ID: TREND

Clarity: ☐ Clear ☒ Opaque ☐ Turbid ☐ Slightly Turbid

Color: ☐ Clear ☐ Tannic ☒ Green

SECCHI (M) 1.3 Total Station Depth (M) 1.5

VOB ☐

Sediment Type: (may check more than one) Sample Taken? ☐ Yes ☒ No

☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated

☒ ~~Sand/Silt~~ ☒ Organic smooth (muck) ☐ Other (Specify):

Sediment Odors: ☐ Normal ☐ Other (Specify): ☒ Anaerobic

Biological Communities:

LVI Conducted? ☒ Yes ☐ No

Phytoplankton Sample Taken? ☐ Yes ☒ No

Sample Preserved? ☐ Yes ☒ No

Lot #: _____ Exp Date: _____

Algal Bloom/Algal ID Sample Taken? Yes (No)

Active Vegetation Mgmt? ☐ Yes ☒ No ☒ ~~Don't Know~~

Abundance:

	Absent	Rare	Common	Abundant
Periphyton	☐	☐	☐	☒
Nuisance Plants	☐	☐	☐	☒
Submersed Plants	☒	☒	☐	☐
Exotic Apple Snails	☒	☐	☐	☐

Additional Notes: Okaloosa County Destin, FL New Town Cir. Major Algae Bloom.

Weather Conditions : Sunny. H.O.T. Overcast and. New Construction Vegetative Mgmt has been suspended.

SAMPLING TEAM: Frank Butera, Hannah Hepping **SIGNATURE:** [signature] **DATE:** 6/14/23

G3NW0216 G3NW0216

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

STORET STATION NUMBER: ~~G3NW0008~~ 63	DATE (M/D/Y): 6/14/23	LAKE NAME: ~~Tresca Lake~~ Colemen Lake	FIELD ID / NAME: ~~G3NW0008~~ G3NW0216
WBID: ~~1040C~~ 9063	COUNTY: ~~Walton~~ Okaloosa	SAMPLING LOCATION/DESCRIPTION: Coastal Dune Lake in Santa Rosa Beach.	LAKE SIZE: 3.96 acres

PARAMETER				
HYDROLOGY	No surface inflow or outflow present, very long water residence time, groundwater seepage dominates [X]	Surface water inflow present, but flow is rare, moderate to long water residence time [ ]	Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time [ ]	Impounded, hydrology of system artificially controlled [ ]
Color	Very clear, uncolored water (benthic sampling appropriate) [ ]	Water somewhat tannin stained (benthic sampling appropriate) [X]	Dark, discolored water (water color 20 PCU or higher) [ ]	Visibility extremely reduced due to high color [ ]

	Optimal					Suboptimal					Marginal					Poor				
Secchi 3	Secchi >3 m		Secchi(m)			3	2.6	2.2	1.8	1.4	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1
	Or VOB	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Vegetation Quality 1	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa					Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants					Large masses (21%- 40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats					Lake choked (>40%) with nuisance macrophytes (duck-weed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed)				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Stormwater Inputs 2→1	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation					Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place					Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place					Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Bottom Substrate Quality 2	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present					Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present					Moderate layer of CPOM/ mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom					Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Lakeside Adverse Human Alternations 2	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%)					Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected					Many structures, roads or other human disturbance visible (50%-70%) lakeside affected)					Highly developed or disturbed (>70% of lakeside affected)				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Upland Buffer Zone 7	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer					89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer					50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer					< 29% of shoreline with >18m buffer				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Adverse Watershed Land Use 7	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: 24	COMMENTS:

ANALYSIS DATE: 6/14/23	ANALYST: Frank Butera	SIGNATURE:

SBIO Sample ID: 87386 HA ID: 18564 QC✓: _____

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET Date 6/14/23

Waterbody: ~~Lake Tresca~~ Coleman Lake	County: Walton	~~Date:~~ G3NW0216
Analyst: F. Butera	Signature: [signature]	STORET: ~~G3NW0008~~

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 (circled) | 3, 6, 9, 12

SBIO ID 87386 SPECIES	~~1~~ 2	~~4~~ 5	~~7~~ 8	~~10~~ 11	Collected? (√)
Acer rubrum	1		1	D	
Alternanthera philoxeroides	1	D	D	C	
~~Andropogon sp.~~ Arundinaria gig.			1		
Azolla filiculoides (A. caroliniana)					
Baccharis sp.					
Bacopa caroliniana					
Bacopa monnieri					
Bidens laevis					
Bidens mitis					
Blechnum serrulatum					
Boehmeria cylindrica	1	1	1		
Brasenia schreberi					
Cabomba caroliniana					
Casuarina equisitifolia					
Centella asiatica					
Cephalanthus occidentalis					
Ceratophyllum demersum					
Chara sp.					
Cladium jamaicense					
Cliftonia monophylla					
Colocasia esculenta	D	1	1	C	
*Commelina ____					
Crinum americanum					
***Cyperus alternifolius** (C. involucratus)					
Cyperus articulatus					
Cyperus haspan					
*Cyperus lecontei					
*Cyperus polystachyos					
*Cyperus odoratus					
*Cyperus surinamensis					
Cyrilla racemiflora					
Decodon verticillatus					
Diodia virginiana					
*Echinochloa crus-galli					
*Echinochloa muricatum					
Echinochloa walteri					
Eclipta prostrata (E. alba)					
Egeria densa					
Eichhornia crassipes					
*Eleocharis baldwinii					
*Eleocharis ____					
Eleocharis cellulosa					
Eleocharis equisetoides					
Eleocharis interstincta					
*Eriocaulon compressum					
*Eriocaulon decangulare					
Eupatorium capillifolium					
*Fuirena ____					
Fuirena scirpoidea					
Gordonia lasianthus					
LIMS ID: 2417555					

Macro ID 12501 SPECIES	~~1~~ 2	~~4~~ 5	~~7~~ 8	~~10~~ 11	Collected? (√)
Habenaria repens					
Hydrilla verticillata					
Hydrocotyle sp.					
Hygrophila polysperma					
*Hypericum fasciculatum					
*Hypericum hypericoides					
*Hypericum myrtifolium [illegible]				1	
Ilex cassine					
Ipomoea aquatica					
Ipomoea sagittata					
Itea virginica					
Juncus effusus					
*Juncus marginatus					
*Juncus megacephalus					
Juncus repens					
*Juncus scirpoides					
Lachnanthes caroliniana					
Leersia hexandra					
Landoltia punctata (Spiro. punctata)		1	1		
Lemna sp.					
Leucothoe racemosa (E. racemosa)					
Limnobium spongia					
Limnophila sessiliflora					
Liquidamber styraciflua					
*Ludwigia arcuata					
*Ludwigia leptocarpa					
*Ludwigia linearis					
*Ludwigia octovalvis					
***Ludwigia peruviana**		1			
*Ludwigia repens					
*Ludwigia ____					
Luziola fluitans (H. carolinensis)					
Lyonia lucida					
Magnolia virginiana					
Mayaca fluviatilis					
Melaleuca quinquenervia					
Micranthemum glomeratum					
Micranthemum umbrosum					
Mikania scandens	1	1			
Mimosa pigra					
Myrica cerifera	1	1	1		
Mexican petunia			1		
Ruellia simplex					R

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Waterbody: ~~Lake Tresca~~ Clermont Lake Storet: ~~G3NW0008~~ G3NW0216 | Date: | SBIO ID 07386 | Macro ID 12501

SPECIES	1	4	7	10	Collected? (√)
Myriophyllum aquaticum					
*Myriophyllum heterophyllum					
*Myriophyllum laxum					
*Myriophyllum pinnatum					
Myriophyllum spicatum					
*Najas filifolia					
*Najas guadalupensis					
*Najas minor					
Nelumbo lutea					
Nitella spp.					
Nuphar sp.					
Nymphaea odorata					
Nymphoides aquatica					
Nyssa sylvatica var. biflora					
Orontium aquaticum					
Osmunda cinnamomea	|		|		
Osmunda regalis					
Panicum hemitomon	|	/			
Panicum repens	|	|			
Paspalidium geminatum					
*Paspalum repens					
Paspalum urvillei	|				
Peltandra sp.					
Persea sp.					
Pennisetum purpureum					
Phragmites australis					
Pinus elliottii					
Pistia stratioides					
Pluchea sp.					
*Polygonum glabrum (densiflorum)					
*Polygonum hydropiperoides					
*Polygonum punctatum					
*Polygonum ________					
Pontederia cordata					
*Potamogeton diversifolius					
*Potamogeton illinoensis					
*Potamogeton pusillus					
*Potamogeton pectinatus (Stuck. pectinatus)					
Proserpinaca pectinata					
*Rhexia ________					
*Rhynchospora corniculata					
*Rhynchospora inundata					
Rhynochospora tracyi					
Ricciocarpus natans					
Sabal palmetto					
Sacciolepis striata					
*Sagittaria filiformis					
*Sagittaria graminea					
*Sagittaria isoetiformis					
Sagittaria lancifolia					
Sagittaria latifolia					

SPECIES	1	4	7	10	Collected? (√)
Salix caroliniana					
Salvinia minima					
Sambucus canadensis					
Sapium sebiferum					
Saururus cernuus					
Schinus terebinthifolius					
*Schoenoplectus californicus					
*Schoenoplectus pungens					
*Schoenoplectus tabernaemontani					
Scirpus cubensis (Oxycaryon cubense)					
Scirpus cyperinus					
*Sesbania ________					
Solidago sp.					
Sparganium americanum					
Spartina bakeri					
Spirodela polyrhiza					
Taxodium sp.					
Thalia geniculata					
Thelypteris palustris					
Triadenum virginicum					
Typha sp.					
Urochloa mutica (Brachiaria mutica)					
*Utricularia gibba (U. biflora)					
*Utricularia floridana					
*Utricularia foliosa					
*Utricularia inflata					
*Utricularia purpurea					
*Utricularia cornuta					
*Utricularia radiata					
Vallisneria americana					
*Websteria confervoides					
Wedelia trilobata (Sphag. trilobata)					
Wolffiella spp.					
Woodwardia ~~virginica~~ areolata	|		|		
Xyris sp.					
Zizania aquatica					
Zizaniopsis milacea					
V. [illegible]			|		

*Schoenoplectus tabernaemontani = Scirpus validus

Station: Coleman Lake
GPS Dec. 30.40236 x -86.48003
Storet: G3NW0216 WBID 906B
Sample ID: 87386 Vascular ID: 12501
RQ-2023-06-12-63

Sampled : 06/14/2023
Sampled By. F.Butera, H. Henning
Location. Destin, Okaloosa County
Receiving Waters: Joe's Bayou
LIMS ID: 2417555

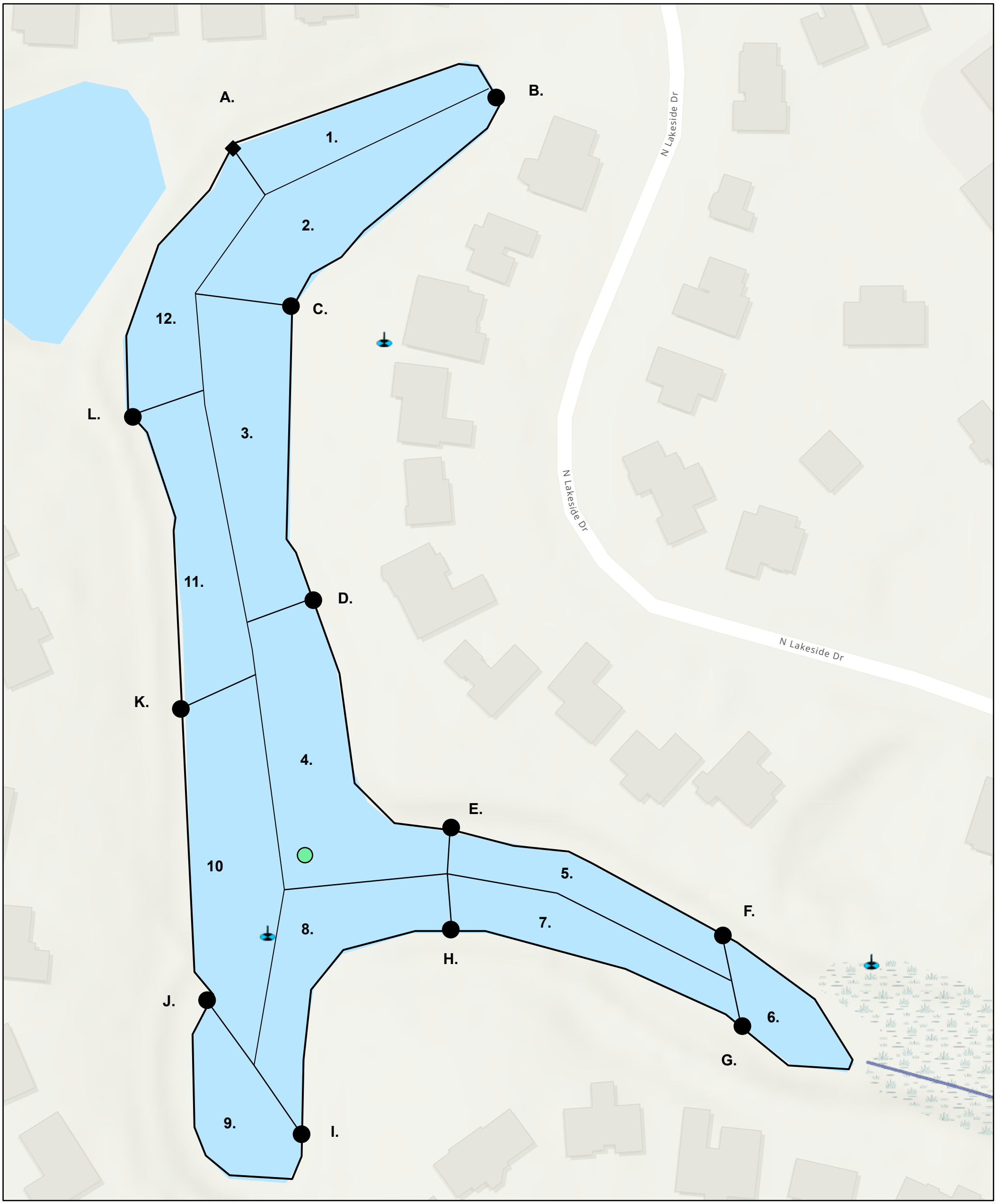
	Taxa	2	5	8	11	Coll.	Verified
1	*Acer rubrum*	1		1			
2	*Alternanthera philoxeroides*	1	D	D	C		
3	*Arundinaria gigantea*			1			
4	*Boehmeria cylindrica*	1	1	1			
5	*Colocasia esculenta*	D	1	1	C	Y	A O'Neal
6	*Landoltia punctata*		1	1			
7	*Ludwigia peruviana*		1				
8	*Mikania scandens*	1	1				
9	*Myrica cerifera*	1	1	1			
10	*Osmunda cinnamonmoea*	1		1			
11	*Panicum repens*	1	1				
12	*Paspalum* urvillei	1					
13	*Ruellia simplex*			1			
14	*Vitis* sp.			1			
15	*Woodwardia areolata*	1		1			
	Taxa per section	9	8	10	2	Herb. Taxa	11
	Exotic Present	4	5	4	2	Woody Taxa	2
	Avg. taxa per section	8				Ferns	2
	sections with exotics	4				Macro Algae	0
	Exotic Taxa	7	Exotics per Section: 3.8			Total Taxa	15

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

Taxon	Section	Section	Section	Section	Exclusion
Lyngbya	2	5	8	11	Algae. Not vascular
Algae	2	5	8	11	Algae. Not vascular
Albizia julibrissin	4		7		FACU Mimosa Tree
Sapium sebiferum			7		Unsurveyed section
Taxodium sp.	1		7		Unsurveyed section

Metric	Rep. 1	Rep. 2	Rep. 3	Rep. 4	LVI Average
LVI 2012	8	0	13	0	5
Native Percentage	60	42.86	70	0	43.22
FLEPPC Pct (Exotic)	20	42.86	20	50	33.22
Total Taxa	9	8	10	2	16
C of C over 7.0	0	0	0	0	0.00
Dominant Taxa	Colocasia esculenta	Alternanthera philoxeroides	Alternanthera philoxeroides	C.esculenta, A. philox.	C.esculenta, A. philoxeroides
C of C Dominant	0	0	0	0	0.00

G3NW0216 Coleman LVI Zoom



July 12, 2022

STORET Stations

Lake

WMS Flowing Waters Resource

Stream

1:1,128

0 0.01 0.02 0.04 mi

0 0.02 0.04 0.07 km

FDEP, DEAR, FDEP, DEAR, WMS, Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community,

Coleman Lake

Storet	G3NW0216
Receiving Water	Joe's Bayou
Basin, WBID	Choctawhatchee Bay, 906B
City, County	Destin, Okaloosa
Lake Acreage	3.78 acres /1.53 Hectares
Circumference (M)	987.362
Seg. Length (M)	82.28016667

Section	Location	Dec. Latt.	Dec. Long.
4	Storet	30.40236	-86.48003
	A	30.40409	-86.48023
2	B	30.40421	-86.47948
	C	30.40370	-86.48006
	D	30.40298	-86.48000
5	E	30.40243	-86.47961
	F	30.40216	-86.47884
	G	30.40194	-86.47879
8	H	30.40218	-86.47961
	I	30.40168	-86.48003
	J	30.40201	-86.48030
11	K	30.40272	-86.48038
	L	30.40343	-86.48051

Segments selected 2, 5, 8, 11

Twin Lakes LVI	WBID	Kit	Qty	Bottle Group	Bottles
Kell-Aire Lake G3NW0217	906B	Nutrients w/ PO4	1	A	3
		Ortho-Phosphate			1
		Metals			1
		Pesticides: E8321-MS/DI			1
		PNSP-TQ-R, TR-SQ-R			4
		HA	1	B	-
		LVI	1		-
Coleman Lake G3NW0216	906B	Nutrients w/ PO4	1	A	3
		Ortho-Phosphate			1
		Metals			1
		Pesticides: E8321-MS/DI			1
		PNSP-TQ-R, TR-SQ-R			2
		HA	1	B	-
		LVI	1		-
RQ-2023-06-12-63	NEED PICS				

Field ID	WBID	WIN Description	County	Lat Long
G3NW0217	906B	Kell-Aire Lake	Okaloosa	30.40432, -86.48244
G3NW0216	906B	COLEMAN LAKE	Okaloosa	30.40236, -86.48003

Test	Lot #	Expiration date:
Sulfuric Acid	SA2299040	11/4/2023
Nitric Acid	NA2230040	9/1/2023
Syringe	1363514	-
PO4 Filter	17460495	-

Twin Lakes LVI	
Notes (access, boat ramp, etc.)	
G3NW0217	Needs Pics
G3NW0216	Needs Pics

Twin Lakes LVI				
Field ID	**TIME**	**Conductivity**	**pH**	**DO mg-L / Temp.**
G3NW0217				
G3NW0216				
RQ-2023-06-12-63	**NEED PICS**			