



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:		7/13/2022	
WIN / Field ID:	G3NW0216	ORG ID:	21FLPNS	ENR:		Latitude:	30.40236		
County:	OKALOOSA	WBID:	906B	LAKE	3F	Longitude:	-86.480025		
Receiving Body of Water:		Joels Bayou				RQ-	2022-06-13-31		

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Frank Butera	x		x		
Lauren McNally		x		x	x

Sampling Equipment			
x	Sample Container	Carboy	
	Dipper	Van Dorn	
x	Syringe	Pole	
Syringe Lot# 1005533		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:	High
Flow:	NA
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	155077 (ProDSS)

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 (PPTth)
CEN	1200	1.7	0.3	5.9	75.7	28.5	7.18	0.5	191.7	0.09
	1207		1.2	3.89	49	27.1	6.58		175.6	0.08

Biological Samples Collected: LVI, Habitat Assessment

SBIO Visit ID: 84718 HA ID: 17583 RPS ID: N/A Macrophyte ID: 12203 LIMS Sample ID Entered Into The Macrophyte Module: 2341417

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation								
				Type	Lot#	Expiration Date	pH Check					
Microbiology												
Chlorophyll	CHLSUITE-W			ICE								
Physical/Aggregate	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE								
Nutrients	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE								
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE								
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	SA1308030	12/01/2022	H2SO4 pH<2				
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA1286110	11/16/2022	HNO3 pH<2				
Organics (LC)	W-E8321-DI	W-E8321-MS		Ice	MCAA***							
Macroinvertebrates												
Organics (GC)	W-PSNP-TQ	W-TR-SQ-R		Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise							
Molecular												
Periphyton												
Phytoplankton												
BOD												
Other(s)												
Field Comments:	Rain previus 48 hours. Lots of algae.											
Comments on COC:												
Relinquish Date:	07/13/2022	Signature:										

LIMS EVENT ID: _____ WIN Import ID: _____
Enter Field Parameters, Verify Station ID In LIMS DMT: _____ QC Station ID, Field Parameters In LIMS DMT: _____
(Initials/Date) (Initials/Date)
Save Field Sheets on Network: _____ Migrate Data to WIN: _____
(Initials/Date) (Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 84718 MACROPHYTE ID: 12203 LATITUDE: N 30.40236
 COUNTY: Okauchosa (Destin) STORET #: G3NW0216 LONGITUDE: W -86.48003
 DATE: 07/13/2022 TIME: 12:00 SAMPLING AGENCY: FL DEP - NWROC
 SITE NAME: Coleman Lake WBID: 906B
 FIELD ID/NAME: G3NW0216 LAKE SIZE: 4.11 acres RQ: 2022-06-13-31

WATERSHED / LAKESIDE FEATURES

LIMS ID: 2341417

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category - from GIS): Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☒ Commercial ☒ Industrial ☒ Other (Specify) <u>Artificially Impounded</u>						LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>N/A</u> 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 <u>4</u>		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			
LAKESIDE ALTERATIONS <u>2</u>		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)			
BUFFER ZONE <u>7</u>		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		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 _____ Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Meter Readings: Top: Depth (M) <u>0.3</u> Temp. (°C) <u>28.5</u> pH (SU) <u>6.96</u> D.O. (MG/L) <u>5.90</u> D.O. Sat. (%) <u>75.7</u> Cond. (UMHO/CM) <u>141.7</u> Salinity (PPT) <u>0.09</u> Mid-Depth: _____ Bottom: <u>1.2</u> <u>27.1</u> <u>6.58</u> <u>3.89</u> <u>49.4</u> <u>175.6</u> <u>0.08</u> Meter ID: <u>155077</u>						Clarity: ☐ Clear ☒ Opaque ☒ Turbid ☐ Slightly Turbid Color: ☐ Clear ☐ Tannic ☒ Green SECCHI (M) <u>0.5</u> Total Station Depth (M) <u>1.7</u> VOB ☐					
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☒ Organic smooth (muck) ☐ Other (Specify): _____ Sample Taken? ☐ Yes ☒ No						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: Periphyton ☐ Absent ☐ Rare ☐ Common ☒ Abundant Nuisance Plants ☐ ☐ ☐ ☒ Submersed Plants ☐ ☒ ☐ ☐ Exotic Apple Snails ☒ ☐ ☐ ☐					
Weather Conditions: <u>RAIN prev. 48 hrs</u>						Additional Notes: <u>Active Al. sed bloom</u>					
SAMPLING TEAM: Frank Butera, Lauren McNally						SIGNATURE: <u>[Signature]</u>					
						DATE: <u>7/13/2022</u>					

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

STORET STATION NUMBER: G3NW0216	DATE (M/D/Y) 7/13/22	LAKE NAME Coleman Lake		FIELD ID / NAME Coleman Lake													
WBID: 906B	COUNTY: Okaloosa	SAMPLING LOCATION/DESCRIPTION: Lake Center		LAKE SIZE: 4.1 acres													
PARAMETER HYDROLOGY	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 ☒													
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													
Secchi	Secchi >3 m Or VOB	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
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4
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		Lake choked (>40%) with nuisance macrophytes (duckweed, 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
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		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
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		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
Lakeside Adverse Human Alterations	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 2 ☒	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
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		< 29% of shoreline with >18m buffer												
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4
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

TOTAL SCORE 35	COMMENTS: Active Algal Bloom
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ANALYSIS DATE: 7/13/21	ANALYST: Frank Butera	SIGNATURE: Frank Butera
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SBIO Sample ID: **84718** HA ID: **17583** QC✓: _____

Waterbody: Coleman Lake					County: Okaloosa (Destin)					Date: 7/13/2022				
Analyst: F. Butera					Signature: <i>[Signature]</i>					STORET: G3NW0216				
Except where noted as "sp." species level identification required. *Genera that may require lab verification*										Lake units sampled (circle one group):				
Plants in bold = FLEPPC invasive exotic.										1, 4, 7, 10 2, 5, 8, 11 3, 6, 9, 12				
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.														
SBIO ID: 84718	1	4	7	10	Collect ed? (✓)	Macro ID: 12243	1	4	7	10	Collect ed? (✓)			
SPECIES						SPECIES								
Acer rubrum						Habenaria repens								
Alternanthera philoxeroides	1	4	7	10		Hydrilla verticillata								
Andropogon sp.						Hydrocotyle sp.				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		Ipomoea aquatica								
Blechnum serrulatum						Ipomoea sagittata								
Boehmeria cylindrica	1		1	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				1				
Chara sp.						Leersia hexandra								
Cladium jamaicense						Landoltia punctata (Spiro. punctata)	1	7	1	1				
Cliftonia monophylla						Lemna sp.	1	7	1	1				
Colocasia esculenta	1	1	1	1		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 flumens				1	1	*Ludwigia linearis								
*Cyperus polystachyos	1					*Ludwigia octovalvis								
*Cyperus odoratus	1					*Ludwigia peruviana	1	1		1				
*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	1			1				
*Eleocharis baldwinii						Mimosa pigra								
*Eleocharis						Myrica cerifera	1	1	1	1				
Eleocharis cellulosa						Betula alba	1	1	1	1				
Eleocharis equisetoides						Dioscorea	1							
Eleocharis interstincta														
*Eriocaulon compressum														
*Eriocaulon decangulare														
Eupatorium capillifolium						Panicum grass	1							
*Fuirena														
Fuirena scirpoidea														
Gordonia lasianthus														
LIMS ID: 2341417														

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Coleman Lake					Storet: G3NW0216	Date: 7/13/2022	SBIO ID: 847-18	Macro ID: 12203			
SPECIES	1	4	7	10	Collect ed? (✓)	SPECIES	1	4	7	10	Collect ed? (✓)
Myriophyllum aquaticum			1			Salix caroliniana					
*Myriophyllum heterophyllum						Salvinia minima					
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum						Sapium sebiferum	1		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.					
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea		1	1		✓	Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.					
Panicum hemitomon						Thalia geniculata					
Panicum repens	1	1	1			Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp.				1	
Paspalum urvillei	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						Wolffia spp.					
Pontederia cordata						Woodwardia virginica	1	1	1		
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuck. pectinatus)						fox. Ocler radicum					
Proserpinaca pectinata						Vitis	1	1	1		
*Rhexia						Rhus					
*Rhynchospora corniculata						Phytolacca	1				
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											

[illegible]

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

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

Date: <u>7/13/22</u>	Name of Lake: <u>Coleman Lake</u>	Gear used: <u>PONAR</u> ☒	EKMANN ☐	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		sand, silt/clay, CPOM, muck, SAV	9		sand, silt/clay, CPOM, muck, SAV
<u>4</u>	<u>1.7</u>	sand, silt/clay, CPOM, <u>muck</u> , SAV	10		sand, silt/clay, CPOM, muck, SAV
5		sand, silt/clay, CPOM, muck, SAV	11		sand, silt/clay, CPOM, muck, SAV
6		sand, silt/clay, CPOM, muck, SAV	12		sand, silt/clay, CPOM, muck, SAV

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

Storet G3NW0216 Field ID G3NW0216 Project: SMP / TMDL Studies
WBID 906B

SBIO ID: 84718

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

Photo Log

Win ID / Storet: G3NW0216

Station Name: Coleman Lake

Date: 7/13/2022

Samplers: Frank Butera, L. McNally

- 1 N
- 2 E
- 3 S
- 4 W
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Notes.

Station: Coleman Lake
 GPS Dec. 30.40236 x -86.48003
 Storet: G3NW0216 WBID 906B
 Sample ID: 84718 Macro ID: 12203
 RQ-2022-06-13-31

Sampled : 06/15/2022
 Sampled By: F. Butera, L. Boman
 Location: Destin, Okaloosa
 Receiving Waters: Joe's Bayou
 LIMS ID: 2341417

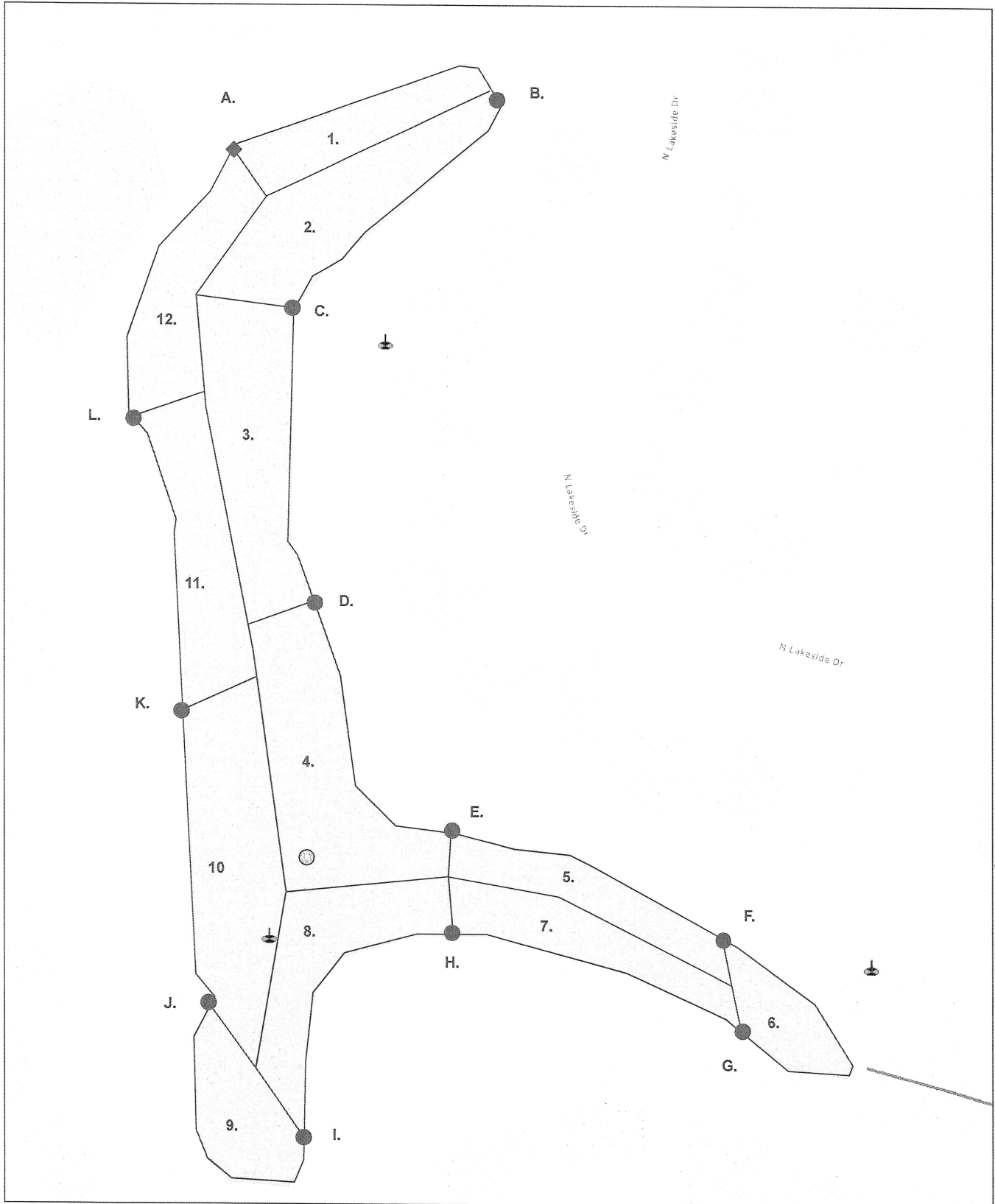
	Taxa	1	4	7	10	Coll.	Verified
1	<i>Acer rubrum</i>				1		
2	<i>Alternanthera philoxeroides</i>	1	C	1	C		
3	<i>Andropogon</i> sp.			1			
4	<i>Bidens alba</i>	1		1			
5	<i>Bidens mitis</i>				1		
6	<i>Boehmeria cylindrica</i>	1		1	1		
7	<i>Colocasia esculenta</i>	1	1	1	1		
8	<i>Cortaderia selloana</i> (Pampas Grass)	1					
9	<i>Cyperus lecontei</i>				1	Y	FB
10	<i>Cyperus odoratus</i>	1					
11	<i>Dioscorea bulbifera</i>	1					
12	<i>Hydrocotyle</i> sp.				1		
13	<i>Lachnanthes carolina</i>				1		
14	<i>Landoltia punctata</i>	1	1	1	1		
15	<i>Lemna</i> spp.	1	1	1	1		
16	<i>Ludwigia peruviana</i>	1	1		1		
17	<i>Mikania scandens</i>	1			1		
18	<i>Myrica cerifera</i>	1	1	1	1		
19	<i>Myriophyllum aquaticum</i>			1			
20	<i>Osmunda cinnamomoea</i>		1	1		Y	FB
21	<i>Panicum repens</i>	1	1		1		
22	<i>Paspalum urvillei</i>	1					
23	<i>Phyllanthus urinaria</i>	1					
24	<i>Pistia stratiotes</i>	D	C	D	C		
25	<i>Rhus copallinum</i>			1			
26	<i>Rubus</i> sp.	1	1	1			
27	<i>Sapium sebiferum</i>	1		1			
28	<i>Toxicodendron radicans</i>			1			
29	<i>Typha</i> sp.				1		
30	<i>Vitis</i> sp.	1	1	1	1		
31	<i>Woodwardia areolata</i>	1	1	1			
	Taxa per section	19	10	16	14	Herb. Taxa	26
	Exotic Present	11	6	6	6	Woody Taxa	3
	Avg. taxa per section	15				Ferns	2
	sections with exotics	4				Macro Algae	0
	Exotic Taxa	12	Exotics per Section: 7.25			Total Taxa	31

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

Taxon	Section	Section	Section	Section
<i>Albizia julibrissin</i>	4			9
Blue-green Algae	1	2	4	8
<i>Lyngbya</i>	1	4	7	10

Metric	Rep. 1	Rep. 2	Rep. 3	Rep. 4	LVI Average
LVI 2012	0	0	8	8	4
Native Percentage	11.44	45.45	60	68.75	46.41
FLEPPC Pct (Exotic)	33.33	36.36	20	25	28.67
Total Taxa	18	11	15	16	31
C of C over 7.0	0	0	0	0	0.00
Dominant Taxa	P. stratiotes	P. stratiotes	P. stratiotes	P. stratiotes	P. stratiotes
C of C Dominant	0	A. philox	0	A. philox	A. philox
					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
1	A	30.40409	-86.48023
	B	30.40421	-86.47948
	C	30.40370	-86.48006
4	D	30.40298	-86.48000
	E	30.40243	-86.47961
	F	30.40216	-86.47884
7	G	30.40194	-86.47879
	H	30.40218	-86.47961
	I	30.40168	-86.48003
10	J	30.40201	-86.48030
	K	30.40272	-86.48038
	L	30.40343	-86.48051

Segments selected 1,4,7,10