



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PLAN FIELD SHEET

January 2020

Meter Passed End

of Day CCV

Yes / No

WIN Station Name: Roberts Lake

Date: 8/5/2021

WIN/Field ID: G3NW0447

WBID: 568A

ENR:

Latitude: 30.5363

County: OKALOOSA

Org ID: 21FLPNS

Longitude: -86.4681

Receiving Body of Water: -

RQ: 2021-08-09-63

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Frank Butera	x		x		
☒	Christopher Stopher Slade		x		x	x
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Meter	
Secchi Equipment ID:	
Collection Method	
☐ Wading	☒ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# 155077 (PRODSS)							
Photos: YES		Flow: NA		Tide:		Tide Times: High: Low:							
Biological Samples Collected: ☐ None ☒ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☒ LVI Other:													
SBIO ID Numbers: SBIO Visit ID 82830. HA ID 16969. Macro ID 119110													
Notes: IGNORE MID DEPTH RECORDINGS. SAME DEPTH AS BOTTOM DEPTH. Biology Collected.													

Duplicate Sample

Time Zone: CEN	Time:	Field ID:	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone:	Time:	Field ID:	(Blank Type_DDDMMYYY)
DI Source:	Location:		
DI Type:	Equipment ID:		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: 2267952

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

(Initials/Date)

QC Station ID, Field Parameters In LIMS DMT:

(Initials/Date)

Scan/Save Field Sheets FB / 08-25-2021

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data In WIN:

(Initials/Date)



RQ-2021-08-09-63

Customer: WQAP

Project ID: SMP

Collected By: Frank Butera, Christopher Stopher Slade

Field Report Prepared By: Frank Butera

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G3NW0447

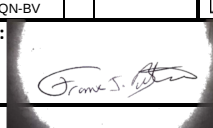
Location: Roberts Lake

Comments:

Matrix: Fresh

(Check one)

☒ GRAB☐ COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT)		
	1300 CEN	7	88.3	27.3	4.82	0.3	2.5 ☒ VOB (S)	2.5	21.3	0.01		
8/5/2021	1306	0	0	0	0	2.0			0	0		
	1305 CEN	6.72	80.5	24.5	4.34	2.0			19.7	0.01		
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group		
Preserved Nutrients (P-500ML)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☒ H2SO4*		☒ <2	1	A		
		Lot #	353110	Exp:		1/11/22						
Metals (P-500ML)		☐ W-ICPMS ☐ W-ICP ☐ W-HARD				☐ Ice ☐ HNO3*		☐ <2				
		Lot #		Exp:								
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A		
		Filter Lot #	17236199									
		Syringe Lot #	1005533									
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A		
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice			1	A		
Physical/Aggregate (Marine) (P-1L)		☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☐ Ice						
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC	Formalin Lot #			☐ Formalin						
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice						
Microbiology (Contract Lab Bottle)		☐ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab				☐ Ice						
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3				☐ Ice						
		☐ PCR-GULL2 ☐ PCR-GFD ☐				☐ Ice						
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice						
Pesticides (BG-500ML) (BG-1L)		W-E8321-DI	WE8321-MS	W-PSNP-TQ	W-CT-CL-R	☐ Ice						
Phytoplankton/Periphyton		W-PCL-TQ-R	W-CARB-AA (5 ml of MCAA** Buffer Solution)			☐ Ice						
				DTY-QN-C	PKD-QN-BV	☐ Ice						
Name: Frank Butera Christopher Stopher Slade					Signature: 				Date: 08/05/2021			

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Site Name Roberts Lake

Date: G3NW0447

Storet G3NW0447

Field ID G3NW0447

Project: SMP/ TMDL Studies

Visit ID 82830

RQ: 2021-09-09-63

Macro ID 11910

LIMS ID: 2267952

HA ID 16969

WBID: 568A

☒ LVI

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial FB, 8/25/2021

☐ Date and Initial QA: _____ HA Score 93

☒ LVI entered in SBIO Initial FB, 8/25/2021

☐ Date and Initial QA: _____

☒ Plants getting verified

☐ Date submitted: In House

☒ Plants verified

☐ Date returned: In House

☐ Macro ID authorized in SBIO

☐ Date and Initial: _____

☐ Macro ID score: _____

☒ If SMP, scanned into database

Notes: Biology Collected

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 82834 MACROPHYTE ID: 11910 LATITUDE: N 30.5363
 COUNTY: Okaloosa STORET #: G3NW0447 LONGITUDE: W 86.4681
 DATE: 08/05/2021 TIME: 13:00 CTZ SAMPLING AGENCY: FL DEP - NWROC
 SITE NAME: Robert's Lake WBID: 568A
 FIELD ID/NAME: G3NW0447 LAKE SIZE: 17.5 RQ: 2021-08-09-63

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) ☒ <u>Eglin AFB</u>					LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>1.45</u>				
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>11</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 <u>11</u>		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>18</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>18</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 ☒ 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: Top: <u>0.3</u> <u>27.3</u> <u>4.82</u> <u>7.00</u> <u>88.3</u> <u>21.3</u> <u>0.01</u> Mid-Depth: _____ Bottom: <u>2.0</u> <u>24.5</u> <u>4.34</u> <u>6.72</u> <u>80.5</u> <u>19.7</u> <u>0.01</u> Meter ID: <u>155077</u>						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Vegetated ☒ Sand/Silt ☒ Organic smooth (muck) ☐ Other (Specify): _____						Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☒ Clear ☐ Tannic ☐ Green					
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 ☒ No Active Vegetation Mgmt? ☐ Yes ☐ No ☒ Don't Know						Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☐ ☒ Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☐ ☐ ☒ Exotic Apple Snails ☒ ☐ ☐ ☐					
Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic						SECCHI (M) <u>2.5</u> Total Station Depth (M) <u>2.5</u> VOB ☒					
Additional Notes:											

Weather Conditions :

SAMPLING TEAM: Frank Butera, Shoper Slake SIGNATURE: [Signature] DATE: 8/5/2021

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

STORET STATION NUMBER: G3NW00447	DATE (M/D/Y) <u>8/5/2021</u>	LAKE NAME ROBERTS LAKE	FIELD ID / NAME G3NW00447
WBID: 568A	COUNTY: OKALOOSA	SAMPLING LOCATION/DESCRIPTION: EGLIN AFB, NORTH OF COLLEGE BLVD.	LAKE SIZE: 17 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 ☐
HYDROLOGY			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) ☐
	Optimal	Suboptimal	Marginal
Secchi ☐ <u>20</u>	Secchi > 3 m Secchi(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
Vegetation Quality ☐ <u>6</u> ☐ <u>7</u>	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
Stormwater Inputs ☐ <u>11</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
Bottom Substrate Quality ☐ <u>5</u>	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
Lakeside Adverse Human Alternations ☐ <u>18</u>	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
Upland Buffer Zone ☐ <u>16</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
Adverse Watershed Land Use ☐ <u>15</u>	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		
TOTAL SCORE ☐ <u>93</u> FB	COMMENTS:		

ANALYSIS DATE: <u>8/05/21</u>	ANALYST: F. BUTERA	SIGNATURE: <u>[Signature]</u>
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SBIO Sample ID: 82834 HA ID: 16969 QC✓: _____

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Roberts Lake					County: Okaloosa					Date: 8/5/2028				
Analyst: F. Butera					Signature: <i>[Signature]</i>					STORET: G3NW0447				
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 <u>B2834</u>	1	4	7	10	Collect ed? (✓)	Macro ID <u>11910</u>	1	4	7	10	Collect ed? (✓)			
SPECIES						SPECIES								
Acer rubrum				1		Habenaria repens			1					
Alternanthera philoxeroides						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	1	1	1	1		Ilex cassine								
Bidens mitis	1	1	1	1		Ipomoea aquatica <i>purple</i>			1					
Blechnum serrulatum						Ipomoea sagittata								
Boehmeria cylindrica			1			Itea virginica								
Brasenia schreberi	1	1	1	1		Juncus effusus								
Cabomba caroliniana						*Juncus marginatus	1	1	1					
Casuarina equisetifolia			1			*Juncus megacephalus								
Centella asiatica			1			Juncus repens	1		1					
Cephalanthus occidentalis						*Juncus scirpoides								
Ceratophyllum demersum						Lachnanthes caroliniana								
Chara sp.						Leersia hexandra								
Cladium jamaicense						Landoltia punctata (Spiro. punctata)								
Cliftonia monophylla	1	1	1	1		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			1			*Ludwigia linearis								
*Cyperus polystachyos						*Ludwigia octovalvis								
*Cyperus odoratus						*Ludwigia peruviana			1					
*Cyperus surinamensis						*Ludwigia repens								
Cyrtilla racemiflora	1	1	1	1		*Ludwigia								
Decodon verticillatus						Luziola fluitans (H. carolinensis)								
Diodia virginiana						Lyonia lucida	1	1	1	1				
*Echinochloa crus-galli						Magnolia virginiana								
*Echinochloa muricatum						Mayaca fluviatilis	1	1	1	1				
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 <i>virginiana</i>					1	Myrica cerifera			1	1				
Eleocharis cellulosa						<i>clitorea</i>								
Eleocharis equisetoides	1			1		<i>Dichanthium scaberrimum</i>	1	1	1	1				
Eleocharis interstincta						<i>Orizora capilaris</i>	1	1	1	1				
*Eriocaulon compressum	1	1	1	1		<i>Ilex vomitoria</i>			1					
*Eriocaulon decangulare						<i>Juncus poliflorus</i>	1	1	1	1				
Eupatorium capillifolium						<i>Lycopus</i>	1	1	1	1				
*Fuirena						<i>Ilex coriacea</i>	1	1	1	1				
Fuirena scirpoidea	1	1	1	1		<i>Polygonum</i>	1	1	1	1				
Gordonia lasianthus						<i>Quercus arborescens</i>	1	1	1	1				
<i>Carex glaucescens</i>	1					<i>Elaeagnus</i>								

LIMS ID: 2267952

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Roberts Lake. Storet: G3NW0447					Date: 8/5/21	SBIO ID 02030	Macro ID 11910				
SPECIES	1	4	7	10	Collect ed? (✓)	SPECIES	1	4	7	10	Collect ed? (✓)
Myriophyllum aquaticum						Salix caroliniana			1		
*Myriophyllum heterophyllum	C	C	C	C		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.	1	1	1	1		Scirpus cyperinus		1	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	1	1	1		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum	1	1	1	0	
*Paspalum repens						Typha sp.					
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.	1	1	1	1	✓ fruit	*Utricularia gibba (U. biflora)					
Persea sp.						*Utricularia floridana	1	1	1	1	
Pennisetum purpureum						*Utricularia foliosa					
Phragmites australis						*Utricularia inflata					
Pinus elliotii		1				*Utricularia purpurea	1	1	1	1	
Pistia stratioides						*Utricularia cornuta	1	1	1	1	
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)						Toxicodendron radicans					
Proserpinaca pectinata						Rhynchospora alba	1	1	1	1	✓
*Rhexia						Sphagnum	1	1	1	1	
*Rhynchospora corniculata						Vitis					
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans						Saccharina	1	1			
Sabal palmetto						Rhexia					
Sacciolepis striata											
*Sagittaria filiformis						BOG Cheeto					
*Sagittaria graminea						Polygala cynosa					
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia						Sesbania sp	1				
Rhus glabra	1		1	1							
Quercus nigra	1		0		✓						

*Schoenoplectus tabernaemontani = Scirpus validus

Station: Robert's Lake
 GPS Dec. 30.53630 x -86.46810
 Storet: G3NW0447 WBID 568A
 Sample ID: 82830 Macro ID: 11910
 RQ-2021-08-09-63

Sampled : 08/05/2021
 Sampled By: F.Butera, S. Slade
 Location: Niceville, Okaloosa.
 Receiving Waters: Choctawhatchee R.
 LIMS ID: 2267952

	Taxa	1	4	7	10	Coll.	Verified
1	<i>Acer rubrum</i>				1		
2	<i>Bidens mitis</i>	1	1	1	1		
3	<i>Boehmeria cylindrica</i>			1			
4	<i>Brasenia schreberi</i>	1	1	1	1		
5	<i>Carex glaucescens</i>	1					
6	<i>Centella asiatica</i>			1			
7	<i>Clethra alnifolia</i>	1	1	1	1		
8	<i>Cliftonia monophylla</i>	1	1	1	1		
9	<i>Cyperus lecontei</i>			1			
10	<i>Cyrilla racemiflora</i>	1	1	1	1		
11	<i>Dichanthelium scabriusculum</i>	1	1	1	1		
12	<i>Drosera capillaris</i>	1	1	1	1		
13	<i>Dulichium arundinaceum</i>	1	1	1	1		
14	<i>Eleocharis equisetoides</i>	1			1		
15	<i>Eleocharis vivipara</i> (submersed)				1	Y	FB
16	<i>Eriocaulon compressum</i>	1	1	1	1		
17	<i>Fuirena scirpoidea</i>	1	1	1	1		
18	<i>Habenaria repens</i>			1			
19	<i>Hydrocotyle</i> sp.			1			
20	<i>Ilex coriacea</i>		1	1			
21	<i>Ilex vomitoria</i>			1			
22	<i>Ipomoea</i> sp.			1			
23	<i>Juncus marginatus</i>	1	1	1			
24	<i>Juncus polycephalus</i>	1		1	1		
25	<i>Juncus repens</i>	1		1			
26	<i>Ludwigia peruviana</i>			1			
27	<i>Lycopus</i> sp.	1	1	1			
28	<i>Lyonia lucida</i>	1	1	1	1		
29	<i>Mayaca fluviatilis</i>	C	1	C	1		
30	<i>Mikania scandens</i>			1	1		
31	<i>Myrica cerifera</i>			1	1		
32	<i>Myriophyllum laxum</i>	C	C	C	C		
33	<i>Nuphar</i> sp.	1	1	1	1		
34	<i>Nymphaea odorata</i>	1	1	1	1		
35	<i>Nymphoides aquatica</i>			1	1		
36	<i>Panicum repens</i>	1	1	1	1		
37	<i>Paspalum dilatatum</i>			1	1		
38	<i>Peltandra</i> sp.	1	1	1			
39	<i>Persea palustris</i>			1			
40	<i>Persicaria hydropiperoides</i>			1			
41	<i>Pinus elliotii</i> (Slash)		1				
42	<i>Polygala lutea</i>		1				
43	<i>Quercus nigra</i>	1		1		Y	FB
44	<i>Rhododendron viscosum</i> var. <i>serrulatum</i>	1		1	1		
45	<i>Rhynchospora chalarocephala</i>	1		1		Y	FB
46	<i>Salix carolinana</i>			1			
47	<i>Sapium sebiferum</i>			1			

Station: Robert's Lake
 GPS Dec. 30.53630 x -86.46810
 Storet: G3NW0447 WBID 568A
 Sample ID: 82830 Macro ID: 11910
 RQ-2021-08-09-63

Sampled : 08/05/2021
 Sampled By: F.Butera, S. Slade
 Location: Niceville, Okaloosa.
 Receiving Waters: Choctawhatchee R.
 LIMS ID: 2267952

	Taxa	1	4	7	10	Coll.	Verified
48	<i>Sarracenia leucophylla</i>	1	1				
49	<i>Scirpus cyperinus</i>		1	1			
50	<i>Sesbania</i> sp.	1					
51	<i>Sphagnum</i> sp.	1	1	1	1		
52	<i>Toxicodendron radicans</i>			1			
53	<i>Triadenum virginicum</i>	1	1	1	1		
54	<i>Typha</i> sp.			1			
55	<i>Utricularia cornuta</i>	1		1	1		
56	<i>Utricularia floridana</i>	1	1	1	1		
57	<i>Utricularia purpurea</i>	1	1	1			
58	<i>Websteria confervoides</i>	1	C	1	C		
59	<i>Xyris</i> sp.	1	1	1	1		
	Taxa per section	34	30	51	29	Herb. Taxa	43
	Exotic Present	1	1	4	2	Woody Taxa	15
	Avg. taxa per section	36				Ferns	0
	sections with exotics	4				Macro Algae	1
	Exotic Taxa	4	Exotics per Section: 2.0			Total Taxa	59

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

Taxon	1	4	7	10	Exclusion
<i>Oxydendrum arboreum</i>	1	1		1	Upland
<i>Vitis</i> sp.			1	1	
Filamentous green algae	1	1	1	1	Algae

Metric	Rep. 1	Rep. 2	Rep. 3	Rep. 4	LVI Average
LVI 2012					
Native Percentage					
FLEPPC Pct (Exotic)					
Total Taxa					
C of C over 7.0					
Dominant Taxa					
C of C Dominant					

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

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

Date: <u>8/5/2024</u>		Name of Lake: Roberts Lake		Gear used: <u>PONAR</u>		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	2.5	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		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 G3NW0447
WBID 568A

Field ID G3NW0447

Project. TMDL Studies (SMP)

SBIO ID:

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: G3NW0447

Station Name: Roberts Lake

Date: 8/05/2021

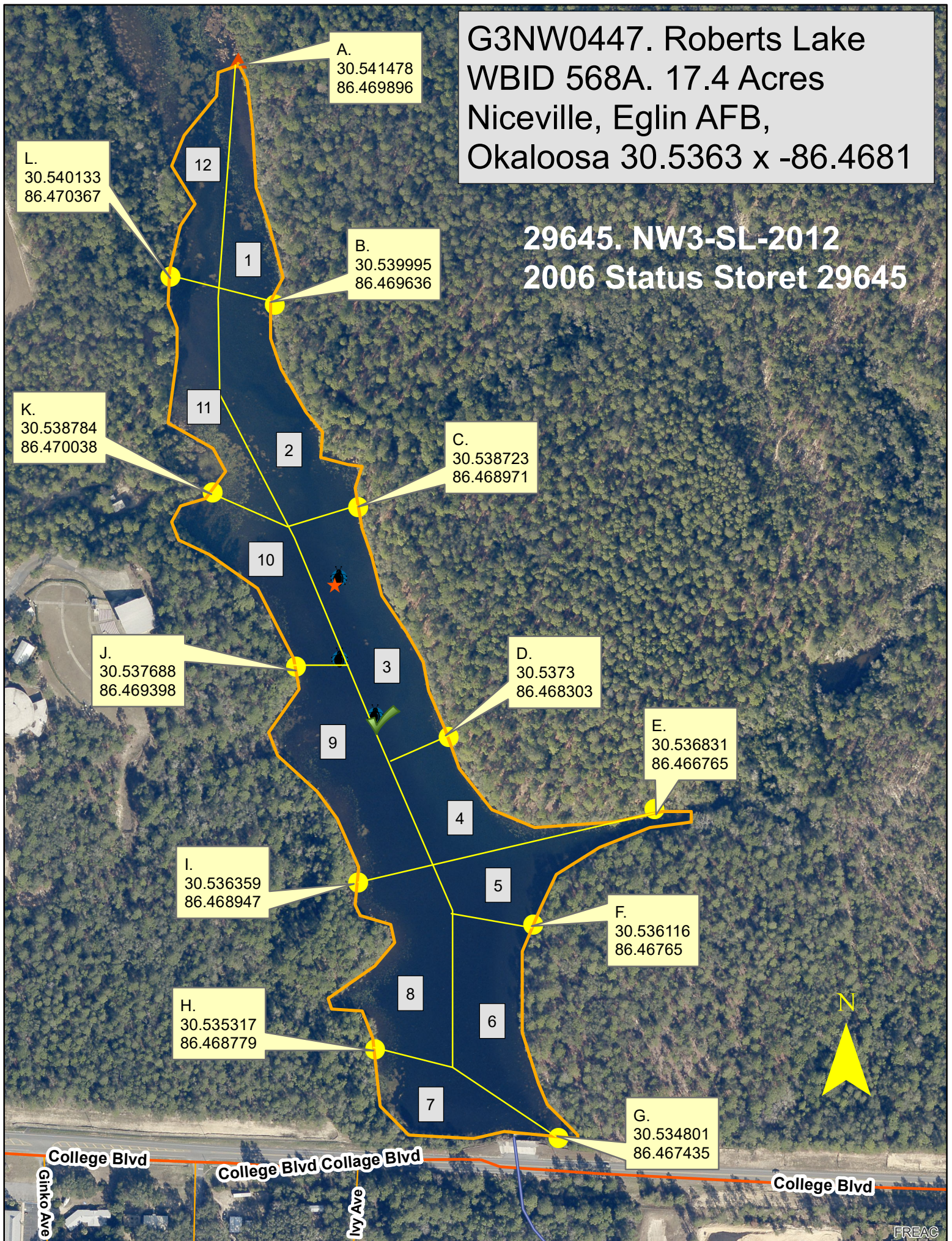
Samplers: F Butler, S. Stale

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

Notes.

G3NW0447. Roberts Lake
WBID 568A. 17.4 Acres
Niceville, Eglin AFB,
Okaloosa 30.5363 x -86.4681

29645. NW3-SL-2012
2006 Status Storet 29645



G3NW0447. Roberts Lake

WIN ID G3NW0047
Receiving Water Swift Creek - Rocky Bayou
Basin / WBID Choctawhatchee Bay, 568A
City, County Niceville, Okaloosa
Lake Acreage 17.5
Circumference (M) 2087
Seg. Length (M) 173.916667

	Location	Dec. Latt.	Dec. Long.
Quadrant	Storet	30.53630	86.46810
1	A	30.54148	-86.46990
	B	30.54000	-86.46964
	C	30.53872	-86.46897
4	D	30.53730	-86.46830
	E	30.53683	-86.46677
	F	30.53612	-86.46765
7	G	30.53480	-86.46744
	H	30.53532	-86.46878
	I	30.53636	-86.46895
10	J	30.53769	-86.46940
	K	30.53878	-86.47004
	L	30.54013	-86.47037

Status Station at same coordinates.

Station Name NW3-SL-2012

Storet: 29645

Sampled 2006.