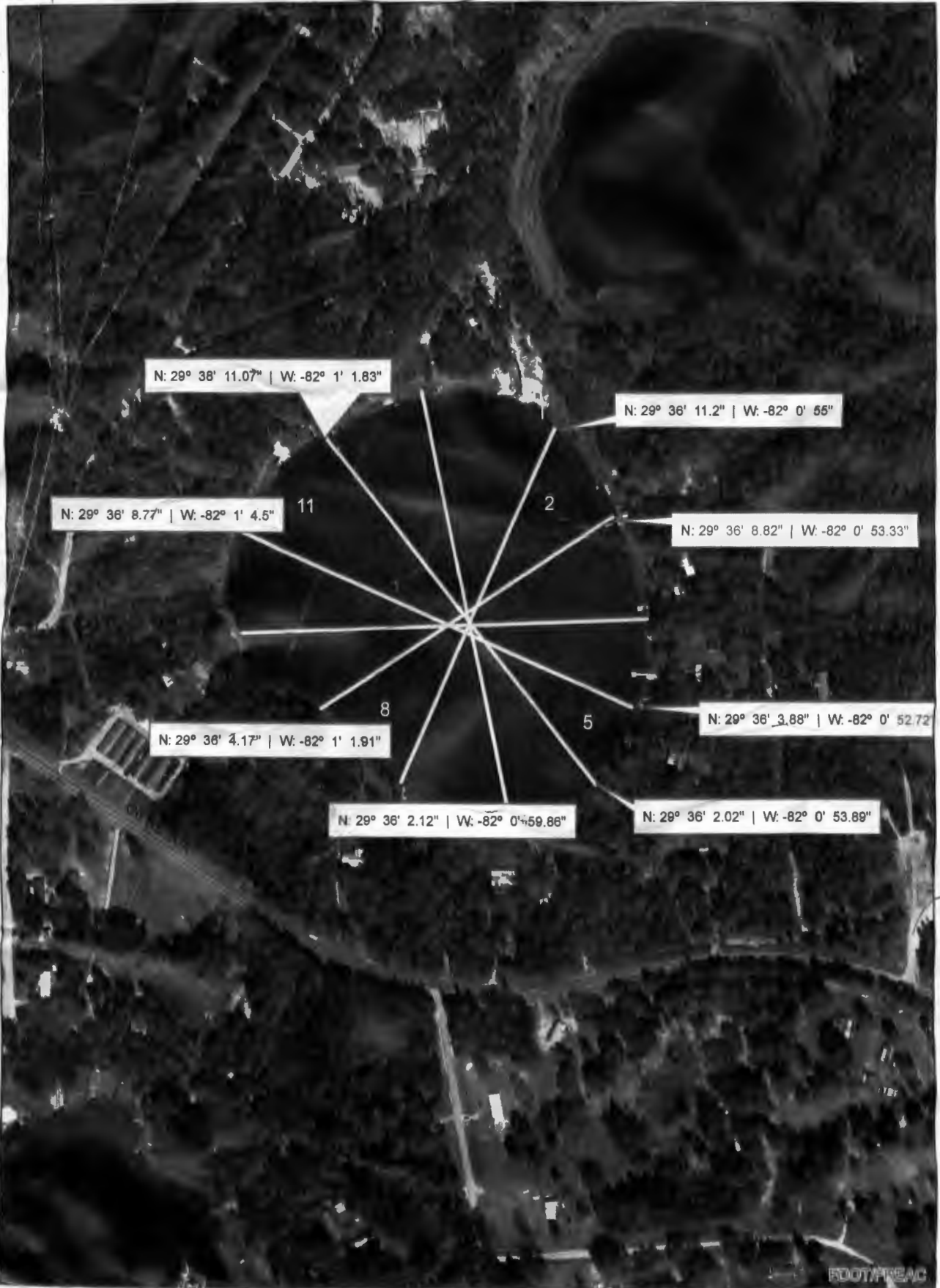


Sheet 0

Camp Goodnews



FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Twin Lakes</u> <u>Pulman CO</u>		Date: <u>10-02-17</u>							
SPECIES	2	5	8	Collected? (✓)	SPECIES	2	5	8	Collected? (✓)
Myriophyllum aquaticum					Salix caroliniana				
*Myriophyllum heterophyllum					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				
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	✓	✓	✓	✓	Thelypteris palustris				
Paspalidium geminatum					Triadenum virginicum				
*Paspalum repens					Typha sp.				
Paspalum urvillei					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 (Sphagneticola trilobata)				
*Polygonum					Wolffiella spp.				
Pontederia cordata	✓	✓	✓	✓	Woodwardia virginica				
*Potamogeton diversifolius					Xyris sp.	✓		✓	
*Potamogeton illinoensis					Zizania aquatica				
*Potamogeton pusillus					Zizaniopsis milacea				
*Potamogeton pectinatus (Stuckenia pectinatus)					PANICUM REQUINELLA	✓	✓	✓	
Proserpinaca pectinata					RHYNCHOSPORA MICRO	✓	✓	✓	
*Rhexia					RHYNCHOSPORA CORNICULATA	✓	✓	✓	
*Rhynchospora corniculata					RHYNCHOSPORA INUNDATA	✓	✓	✓	
*Rhynchospora inundata					RHYNCHOSPORA TRACYI	✓	✓	✓	
Rhynchospora tracyi					MILKWEED	✓	✓	✓	
Ricciocarpus natans									
Sabal palmetto									
Sacciolepis striata		✓	✓						
*Sagittaria filiformis									
*Sagittaria graminea	✓								
*Sagittaria isoetiformis									
Sagittaria lancifolia									
Sagittaria latifolia									

76147

AK

DEP FORM FD 9900-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>W. Lake</u>		County:		Date:							
Analyst:		Signature:		STORET:							
Except where noted as "sp." species level identification required. *Genera that may require lab verification* Plants in bold = FLEPPC invasive exotic.					Lake units sampled (circle one group): 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.											
SPECIES	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	Collected? (✓)
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			✓		
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 (Spirodela punctata)					
Cliftonia monophylla						Lemna sp.					
Colocasia esculenta						Leucothoe racemosa (Eubotrys racemosa)					
*Commelina						Limnobia 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					
Cyrilla racemiflora						*Ludwigia <u>superfusa</u>	✓	✓	✓	✓	
Decodon verticillatus						Luziola fluitans (Hydrochloa 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 <u>viridis</u>	D	D	D	D		Myrica cerifera	✓	✓	✓	✓	
Eleocharis cellulosa						<u>Polypodium Hirtutum</u>	✓	✓	✓	✓	
Eleocharis equisetoides						<u>Rexia</u>					
Eleocharis interstincta						<u>Camphor tree</u>	✓				
*Eriocaulon compressum						PERSEA			✓		
*Eriocaulon decangulare	✓		✓	✓		<u>Solidago</u>	✓	✓	✓	✓	
Eupatorium capillifolium	✓		✓	✓							
*Fuirena	✓	✓	✓	✓							
Fuirena scirpoidea	✓	✓	✓	✓							
Gordonia lasianthus											

DEP-SOP-001/01: Form FD 9000-3
PHYSICAL/CHEMICAL CHARACTERIZATION ELECTRONIC FIELD SHEET

ELFS

SAMPLE ID: _____ ORG ID: _____
 COUNTY: Putnam STORET #: _____
 DATE: 10-02-2017 TIME: 1115
 SITE NAME: TWIN LAKE SAMPLE COMPLETE? _____
 FIELD ID/NAME: 23-SL-11036 RECEIVING BODY OF WATER: _____

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):
 Forest/Natural 60 silviculture _____ Field/Pasture _____ Agricultural _____ Residential 40 Commercial _____ Industry _____ Other (Specify) _____

Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy
 Local Watershed NPS Pollution: ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy

Width of Riparian Vegetation (m) on Each Buffer Side
 Left Bank: _____ Right Bank: _____

High Water Mark: _____ + _____ = _____
 (m) (above present water level) (present depth) (above bed)

Artificially Impounded ☐ Yes ☒ No

Artificially ☒ No ☐ Mostly recovered, more sinuous
 Channelized: ☐ Some recovery ☐ Recent, severe

Canopy Cover %: ☒ Open ☐ Lightly Shaded (11-45%)
☐ Heavily Shaded ☐ Moderate Shaded (46-80%)

Typical Width (m) Depth (m)/Velocity (m/sec) Transect
 _____ m wide
 _____ m/s _____ m/s _____ m/s
 _____ m deep _____ m deep _____ m deep

SEDIMENT / SUBSTRATE

Sediment Oils
☒ Absent ☐ Slight
☐ Moderate ☐ Profuse

Sediment Odors
☒ Normal ☐ Sewage ☐ Petroleum
☐ Chemical ☐ Anaerobic
☐ Other (Specify): _____

Sediment Deposition
☐ Sludge Sand Smothering: ☐ None ☒ Slight ☐ Moderate ☐ Severe
 Silt Smothering: ☐ None ☐ Slight ☐ Moderate ☐ Severe
☐ Other (Specify): _____

SUBSTRATE TYPE
 Assessment Tool: ☐ SCI ☐ BioRecon
☐ LCI ☒ LVI INVERT PERI
 % Coverage # Times # Times
 Sampled Sampled

Woody Debris (Snags) _____
 Undercut Banks / Roots _____
 Leaf Packs or Mat _____
 Aquatic Vegetation ☒
 Rock or Shell Rubble.. _____
 Sand..... ☒
 Mud / Muck / Silt _____
 Other _____
 Other _____

WATER QUALITY
 Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M)
 Top: 0.3 27.9 6.7 5.1 52 0.02 3.0
 Mid-Depth: 3.6 27.9 6.4 4.95 52 0.02 ☐ VOB
 Bottom: _____

Water Surface Oils: ☒ None ☐ Sheen ☐ Globbs ☐ Slick
Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical
☐ Other (Specify): _____

Water Sample Taken? ☐ Yes ☒ No
 Algae Sample Taken? ☐ Yes ☒ No

Clarity
☒ Clear ☐ Slightly Turbid
☐ Turbid ☐ Opaque

Color
☐ Tannic ☐ Green (Algae)
☒ Clear ☐ Other (Specify): _____

WEATHER CONDITIONS / NOTES:

LVI High water level following HURRICANE IRMA

☐ The antecedent hydrologic conditions have been met to my best knowledge.
 Water samples preserved? ☐ Yes ☐ pH<2 ☒ No Algae samples preserved? ☐ Yes ☒ No

SAMPLING TEAM: J. Parish, P O'Connor **SIGNATURE**: P O'Connor **DATE**: 10-02-2017

ABUNDANCE
 Absent Rare Common Abundant
 Periphyton: ☐ ☐ ☒ ☐
 Fish: ☐ ☐ ☒ ☐
 Aquatic Macrophytes: ☐ ☐ ☐ ☒
 Iron/Sulfur Bacteria: ☐ ☒ ☐ ☐

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

STORET STATION NUMBER:	DATE (M/D/Y) 10-02-2017	LAKE NAME TWIN LAKE		FIELD ID / NAME: 23-SL-11036												
ECO-REGION:	COUNTY: PUTNAM	SAMPLING LOCATION/DESCRIPTION:		LAKE SIZE:												
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 ☐												
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		Poor												
Secchi	Secchi > 3 m Or VOB	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	3	2	1
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	3	2	1
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	3	2	1
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	3	2	1
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		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	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	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	112															
COMMENTS:	DENSE BEAS - F ALTE 1/A															
ANALYSIS DATE:	10-02-17		ANALYST:		POCOANOK, J. PARRISH		SIGNATURE:									

LAKE OBSERVATION FIELD SHEET

78187 (AK)

SAMPLE ID: _____ MACROPHYE ID: 51925 LATITUDE: 29 36 06.7
 COUNTY: _____ STORET #: _____ LONGITUDE: 82 00 58.3
 DATE: 10-2-17 TIME: 1115 SAMPLING AGENCY: DEAR
 SITE NAME: TWIN LAKE WBID: _____
 FIELD ID/NAME: 23-SC-11036 LAKE SIZE: _____ RQ: _____

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural <u>60</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential <u>40</u> Commercial _____ Industrial _____ Other (Specify) _____					LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: _____				
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy					Artificially Impounded ☐ Yes ☒ No				
Local Watershed NPS Pollution : ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy					Land Use Source & Year: _____				
STORMWATER INPUTS <u>20</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	
20 19 18 17 16		15 14 13 12 11		10 9 8 7 6		5 4 3 2 1			
LAKESIDE ALTERATIONS <u>15</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)	
20 19 18 17 16		15 14 13 12 11		10 9 8 7 6		5 4 3 2 1			
BUFFER ZONE <u>15</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			

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>27.9</u> <u>6.7</u> <u>5.1</u> <u>65</u> <u>52</u> <u>0.02</u> Mid-Depth: <u>3.6</u> <u>27.9</u> <u>6.4</u> <u>4.95</u> <u>63</u> <u>52</u> <u>0.02</u> Bottom: _____								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____							
Meter ID: <u>YSI #4</u>								Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid							
Sediment Type: (may check more than one) ☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____								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 Active Vegetation Mgmt? ☐ Yes ☒ No ☐ Don't Know								SECCHI (M) <u>3.0</u> Total Station Depth (M) <u>>5m</u> VOB ☐							
Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☒ ☐ Nuisance Plants ☐ ☒ ☐ ☐ Submersed Plants ☐ ☐ ☒ ☒ Exotic Apple Snails ☒ ☐ ☐ ☐								Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic							
Additional Notes: <u>Seack 3.0m</u>															
Weather Conditions: <u>Windy overcast 30 DAYS Post Hurricane Irma</u>															
SAMPLING TEAM: <u>J. Parrish, P. Connor</u>										SIGNATURE: <u>P. Connor</u>			DATE: <u>10-02-17</u>		

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this page.

Meter YSI #4

RQ- N/A

Project LVI SL

23-52-11036

23-52-11036

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 06-2017

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	<u>POBannor</u>	<u>10-02-17</u>	<u>0710</u>	<u>23.8</u>	<u>8.44</u>	<u>8.45</u>	<u>100.0</u>	<u>54.3</u>	<u>0.90428</u>	<u>P</u>	<u>C</u>
ICV	<u>V</u>	<u>V</u>	<u>0718</u>	<u>23.8</u>	<u>8.44</u>	<u>8.44</u>	<u>99.9</u>	<u>53.3</u>	<u>0.90428</u>	<u>P</u>	<u>C</u>
CCV	<u>POBannor</u>	<u>10-02-17</u>	<u>1330</u>	<u>22.8</u>	<u>8.54</u>						
CCV				<u>22.8</u>	<u>8.61</u>	<u>8.9</u>	<u>103.5</u>	<u>54.3</u>	<u>0.90428</u>	<u>P</u>	<u>C</u>

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	<u>POBannor</u>	<u>10-02-17</u>	<u>0722</u>	<u>170720A</u>	<u>08-2018</u>	<u>1000</u>	<u>1000</u>	<u>P</u>	<u>C</u>
ICV	<u>V</u>	<u>V</u>	<u>0724</u>	<u>170720B</u>	<u>08-2018</u>	<u>100</u>	<u>104</u>	<u>P</u>	<u>C</u>
CCV	<u>POBannor</u>	<u>10-02-17</u>	<u>1333</u>	<u>170720A</u>	<u>08-2018</u>	<u>1000</u>	<u>1000</u>	<u>P</u>	<u>C</u>
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	<u>POBannor</u>	<u>10-02-17</u>	<u>0727</u>	<u>2707656</u>	<u>06-2019</u>	<u>7.0</u>	<u>7.00</u>	<u>-24.1</u>	<u>P</u>	<u>CAD</u>
Calibr.			<u>0735</u>	<u>2707722</u>	<u>06-2019</u>	<u>4.0</u>	<u>4.00</u>	<u>156.4</u>	<u>P</u>	<u>CAS</u>
Calibr.			<u>0740</u>	<u>2704798</u>	<u>09-2018</u>	<u>10.0</u>	<u>9.98</u>	<u>-197.5</u>	<u>P</u>	<u>CAD</u>
ICV	<u>V</u>	<u>V</u>	<u>0743</u>	<u>2707656</u>	<u>06-2019</u>	<u>7.0</u>	<u>7.06</u>	<u>-24.9</u>	<u>P</u>	<u>CAD</u>
CCV	<u>POBannor</u>	<u>10-02-17</u>	<u>1337</u>	<u>2707722</u>	<u>06-2019</u>	<u>4.00</u>	<u>4.04</u>	<u>153.1</u>	<u>P</u>	<u>CAD</u>
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification 06-2017

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	<u>POBannor</u>	<u>10-03-17</u>	<u>0745</u>	<u>0.000</u>	<u>0.000</u>	<u>P</u>	<u>C</u>

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater



St. Johns River Water Management District

Ann B. Shortelle, Ph.D., Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500
On the Internet at floridaswater.com.

AMBIENT MONITORING SITE INFORMATION AND PERMISSION TO SAMPLE FORM

SITE NAME: _____ STATION ID NUMBER: _____

SITE COORDINATES: LATITUDE: _____ LONGITUDE: _____

COUNTY: _____ LOCATION DESCRIPTION: _____

ACCESS PROPERTY OWNER NAME: Child Evangelism Fellowship of Florida, Inc
aka Camp Good News
ACCESS PROPERTY ADDRESS: _____

OWNER MAILING ADDRESS: Camp Good News
(IF DIFFERENT FROM
ACCESS PROPERTY ADDRESS) 2711 NW 6th Street, Suite F
Gainesville, FL 32609
OWNER TELEPHONE NUMBER(S): 352-481-3550

HOURS OWNER MAY BE CONTACTED: _____

I HEREBY GIVE THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT OR ITS
AGENT PERMISSION TO ACCESS THE ABOVE WATER BODY LOCATED ON OR
ADJACENT TO MY PROPERTY TO COLLECT A WATER QUALITY SAMPLE AND
PERFORM A HABITAT ASSESSMENT (sediment sample also if water body is Small Lake).

N. Steven Carlson
PRINTED NAME OF LANDOWNER

I would like the results sent to the address above.

☒ YES ☐ NO

N. Steven Carlson
SIGNATURE OF LANDOWNER

6-22-2017
DATE

GOVERNING BOARD

John A. Miklos, CHAIRMAN
ORLANDO

Fred N. Roberts Jr., VICE CHAIRMAN
OCALA

Chuck Drake, SECRETARY
ORLANDO

Ron Howse, TREASURER
COCOA

Douglas C. Boumique
VERD BEACH

Douglas Burnett
ST. AUGUSTINE

Susan Dolan
SANFORD

Untitled Map

Write a description for your map.

Legend

Lake Annie Rd

Post-Louis Rd

Z3-SL-11036

Twin Lakes Rd

20A

Baxley Dr

Lake Annie Ln

Google Earth

900 ft



**DEP TIER 1
STATUS NETWORK SITE CHARACTERIZATION**

Stream/Water Body Name:

Site ID	Latitude	Longitude	Type of Recon	Date of Recon
Z3-SL-11036			Site Visit	4/10/2017

Return Recon #1 _____

Return Recon #2 _____

Return Recon #3 6/22/2017 Got permission from property owner to recon site.

Resource Type	Secondary Resource Type
Small Lake	No 2nd Type
Desk Recon: <u>2/14/2017 By: Nate Gargas</u>	Letter Sent: _____
Recon Team: <u>Nate Gargas</u>	

Site Location Address & Contact Information	Property Owner's Address
	Child Evangelism Fellowship of Florida, Inc
	2711 NW 6th Street, Suite F
	Gainesville, FL 32609
	352-481-3550
Data Requested: <u>YES</u>	County: <u>Putnam</u>

Tidal Info: _____

Access and Permission
YES-VERBAL PERMISSION

Reason for Exclusion

Recon Result
For Site:

Z3-SL-11036

INCLUDE

ADDITIONAL NOTES

CALL BEFORE SAMPLING
24 hrs notice phone # 352-481-3550
Additional Items: Jon Boat w/Trolling Motor

DIRECTIONS:

From Palatka District office take FL-100W to Co Rd 309C go ~2.4 miles, continue onto State Hwy 309C/Francis Church Rd go ~0.7 miles, turn right onto FL-20 W go ~19.2 miles, turn left onto Co Rd 20A go ~0.5 miles, Turn left onto Twin Lakes Rd go ~0.4 miles, pull into Camp Good News, most likely no one will be there but stop at front office and check. Camps address is 120 Twin lakes rd, Hawthorne, FL 32640, if you want to use an app to navigate to site. From front office drive down to lake launch boat, be aware of the lines in the water delineating the swim areas don't get them caught in a prop.

FILES GENERATED: (i.e. digital photos, GPS, etc.)	PHOTOS
---	---------------

GWIS Generalized Water Information System Database Utilities

Recon Tracking

Existing Station

New GW Station

New GW Station

PK RANDOM SAMPLE LOCATION = Z3-SL-11036

County	PUTNAM	Quarter Quad	
WMD	ST. JOHNS RIVER WMD	HUC	OKLAWAHA
Random Latitude	29° 36m 06.74421s	Random Longitude	82° 00m 58.3302s

Is Z3-SL-11036 sampleable? ☐ Yes ☐ No ☒ N/A

Exclusion Category:

Exclusion Criteria:(definitions):

Was Z3-SL-11036 sampled? Yes Month 2 Day 14 Year 2017

Comments:

Save

Reset

☒ Aerial Photo ☐ Quad Map ☐ No Image

Show Map