



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN FIELD SHEET

January 2022

Meter Passed End

of Day CCV

☒ Yes / No

WIN Station Name: Lake Idyl @ Center

Date: 8/18/2022

WIN/Field ID: G3CE0058

WBID: 1488R

ENR: -

Latitude: 28.04181

County: Polk

Org ID: 21FLCEN

Longitude: -81.71269

Receiving Body of Water: -

RQ: 2022-07-11-29

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Terry Riordan		☒		☒	☒
☒	Leif Boman	☒		☒		
☐						
☐						

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

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# CRAW DADDY			
Photos: YES	Flow: NA			Tide:		Tide Times: High: Low:			
Biological Samples Collected: ☐ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☒ LVI Other:									
SBIO ID Numbers: 85662		MACROPHYTE 12300					LIMS 2350892		
Notes: SUNNY, CLEAR SND BREEZY									

Duplicate Sample

Time Zone: EST	Time:	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone: EST	Time: 1206	Field ID: FB_08182022	(Blank Type_DDMMYYYY)
DI Source: Lab sink	Location: Boat ramp		
DI Type: Field Blank	Equipment ID:		
DI Container (Name/ID): Carboy #8		DI Container Type: Plastic	

LIMS EVENT ID: CEN-DIST-2022-08-19-01

WIN Import ID: 36075

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 8/29/22

QC Station ID, Field Parameters In LIMS DMT: VLS 10/13/22

(Initials/Date)

(Initials/Date)

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

KWM 10/14/22

(Initials/Date)

Verify Data In WIN:

(Initials/Date)



RQ-2022-07-11-29
Customer: CEN-DIST
Project ID: STRATEGIC MONITORING PLAN

Collected By: Terry Riordan, Leif Boman
Field Report Prepared By: Terry Riordan
Sampling Agency: FDEP

Place Label Here WIN ID/Field ID: G3CE0058 Location: Lake Idyl @ Center						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 _h)
	1150 EST	9.36	126.2	31.2	6.9	0.3	1 ☐ VOB (S)	3	188.9	0.09
8/18/2022	1154	4.81	72.7	30.1	6.69	2	Central Lab please use top row for login purposes		188.9	0.09
	1157 EST	3.81	52	29.9	6.39	2.5			188.3	0.09
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 #	132683		Exp:	12/18/2022				
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ HNO3*		☒ <2	1	A
		Lot #	NA1105100		Exp:	06/07/2023				
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A
		Filter Lot #	17413308		Syringe Lot#	2090604				
Biochemical Oxygen Demand (BP-1L)		BODTEST OV-BODUNIN				ICE				
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice			1	A
Physical/Aggregate (Marine) (P-1L)		☐ Alkalinity / 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 ☐ PCR-GULL2 ☐ PCR-GFD				☐ Ice				
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice		MCAA Exp. Date		
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI ☒ WE8321-MS		☒ W-PSNP-TQ		☐ W-CT-CI-R		MCAA Lot#	5	A
		☐ W-PCB-TQ-R		☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)		☒ W-TR-SQ-R				
Phytoplankton/Periphyton		☐ W-PCB-TQ-R		☐ PKD-QN-BV		☐ Ice				
Name: Terry Riordan Leif Boman				Signature:				Date: 08/18/2022		

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



RQ- 2022-07-11-29

Collected By: Terry Riordan, Leif Boman

Customer: WQAP

Field Report Prepared By: Terry Riordan, Leif Boman

Project ID: SMP

Sampling Agency: FDEP

BLANK



Field ID: FB 08182022

Comments:

Matrix: Field Blank

(Check one) ☐ COMPOSITE ☒ GRAB

Date

Time

DI Source: Lab sink

8/18/2022

1206

EST

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	B
	Lot # 132683 Exp: 12/18/2022				
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	☒ <2	1	B
	Lot # NA1105100 Exp: 06/07/2023				
Filtered Nutrients (P125ML)	☒ W-PO4-F Filter ☒ Field Filtered 0.45 µm	☒ Ice		1	B
	Filter Lot # 17413308				
	Syringe Lot # 2090604				
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-IC / TDS	☒ Ice		1	B
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice	MCAA Exp. Date		
Pesticides (BG-500ML) (BG-1L)	☒ W-E8321-DI ☒ W-E8321-MS ☐ W-PSNP-TQ ☐ W-CT-CI-R	☒ Ice	MCAA Lot#	1	B
	☐ W-PCL-TQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☐ W-TR-SQ-R				
Name: Terry Riordan Leif Boman		Signature:		Date: 08/18/2022	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 28.04181
COUNTY: Porter STORET #: 43CE0058 LONGITUDE: -81.71269
DATE: 08/18/2022 TIME: _____ SAMPLING AGENCY: FDEP - CERP
SITE NAME: Lake Lough WBID: 14882
FIELD ID/NAME: Lake Lough @ center LAKE SIZE: _____ RQ: 2022-07-11-29

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>30</u> <u>50</u> <u>20</u>				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					
STORMWATER INPUTS <u>7</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		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>4</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>8</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 ☐ 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 _____							
Meter Readings: Top: <u>3</u> <u>31.2</u> <u>6.9</u> <u>9.34</u> <u>126.2</u> <u>188.9</u> <u>0.09</u> Mid-Depth: <u>2.0</u> <u>30.1</u> <u>6.69</u> <u>4.81</u> <u>72.7</u> <u>188.9</u> <u>0.09</u> Bottom: <u>2.5</u> <u>29.9</u> <u>6.39</u> <u>3.81</u> <u>52</u> <u>188.3</u> <u>0.09</u>								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____							
Meter ID: <u>CRAW DADDY</u>								Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☒ Slightly Turbid Color: ☐ Clear ☐ Tannic ☒ Green							
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 & clear & breezy</u>															
SAMPLING TEAM: <u>Jeff Boman, Terry Rorden</u>								SIGNATURE: <u>[Signature]</u>				DATE: <u>08/18/2022</u>			

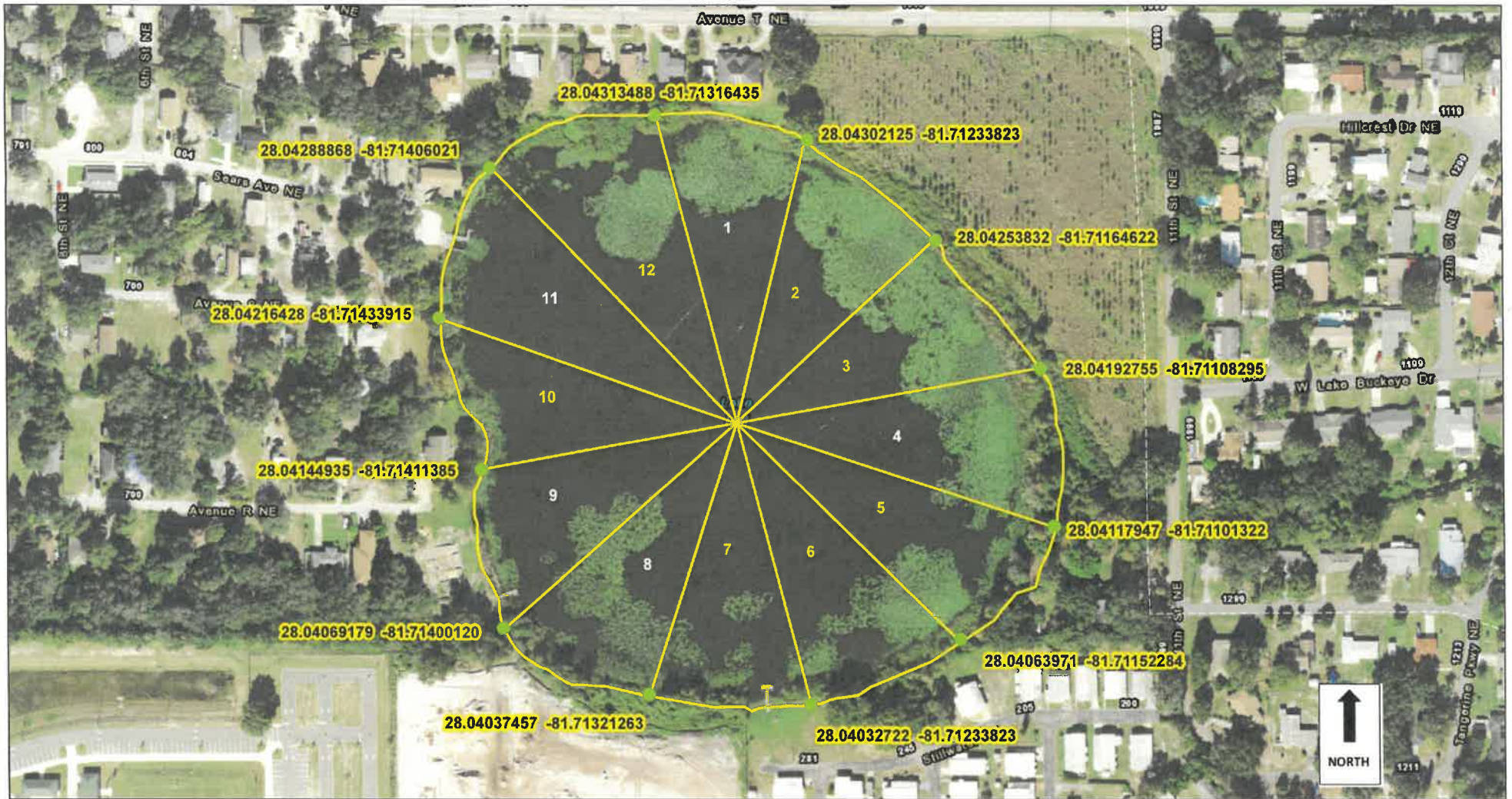
DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Edy</u>		County: <u>Polk</u>		Date: <u>8/18/22</u>									
Analyst: <u>Terry Riordan/Leif Boman</u>		Signature: <u>Terry Riordan</u>		STORET: <u>G3CE0058</u>									
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 <u>3, 6, 9, 12</u>									
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		3	6	9	12	Collected? (✓)	SPECIES		3	6	9	12	Collected? (✓)
Acer rubrum		/	/	/	/		Fuirena scirpoides						
Alternanthera philoxeroides							Gordonia lasianthus						
Amaranthus australis							Habenaria repens						
Andropogon sp.							Hibiscus coccineus						
Azolla filiculoides (A. caroliniana)							Hibiscus grandiflora						
Baccharis sp.							Hydrilla verticillata						
Bacopa caroliniana							Hydrocotyle sp.				/		
Bacopa monnieri							Hygrophila polysperma						
Bidens alba							Hymenocallis sp.						
Bidens laevis							*Hypericum fasciculatum						
Bidens mitis							*Hypericum hypericoides						
Blechnum serrulatum							*Hypericum myrtifolium						
Boehmeria cylindrica							Ilex cassine						
Brasenia schreberi							Ipomoea aquatica						
Cabomba caroliniana							Ipomoea sagittata						
Canna							Itea virginica						
Centella asiatica							Juncus effusus						
Cephalanthus occidentalis							*Juncus marginatus						
Ceratophyllum demersum				/			*Juncus megacephalus						
Chara sp.							Juncus repens						
Cladium jamaicense							*Juncus scirpoides						
Colocasia esculenta				/			Lachnanthes caroliniana						
*Commelina							Leersia hexandra						
Crinum americanum							Landoltia punctata (Spirodela punctata)						
*Cyperus alternifolius (C. involucratus)							Lemna sp.		/			/	
Cyperus articulatus							Leucothoe racemosa (Eubotrys racemosa)						
Cyperus haspan							Limnium spongia						
*Cyperus lecontei							Limnophila sessiliflora						
*Cyperus polystachyos							Liquidambar styraciflua						
*Cyperus odoratus				/			*Ludwigia arcuata						
*Cyperus surinamensis							*Ludwigia grandiflora						
Cyrilla racemiflora							*Ludwigia hexapetala						
Decodon verticillatus							*Ludwigia leptocarpa						
Diodia virginiana							Ludwigia (native)						
*Echinochloa crus-galli							*Ludwigia octovalvis				/		
*Echinochloa muricatum							*Ludwigia peruviana		/	/	/	/	
Echinochloa walteri							*Ludwigia repens						
Eclipta prostrata (E. alba)							Ludwigia suffruticosa						
Eichhornia crassipes							Luziola fluitans (Hydrochloa carolinensis)						
*Eleocharis							Magnolia virginiana						
Eleocharis cellulosa							Mayaca fluviatilis						
*Eleocharis elongata							Melaleuca quinquenervia						
Eleocharis equisetoides							Micranthemum glomeratum						
Eleocharis interstincta							Micranthemum umbrosum						
Eleocharis submersed viviparous							Mikania scandens						
*Eriocaulon compressum							Mimosa pigra						
*Eriocaulon decanulare							Myrica cerifera		/	/	/		
Eupatorium capillifolium													
Fraxinus													

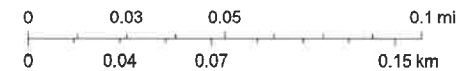
FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <i>Lake Idyl</i>					Date: <i>8/18/22</i>						
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	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 mexicana						*Sesbania					
Nymphaea odorata						Solidago sp.					
Nymphoides aquatica						Sparganium americanum					
Nyssa sylvatica var. biflora						Spartina bakeri					
Orontium aquaticum						Spirodela polyrhiza					
Osmunda cinnamomea						Taxodium sp.					
Osmunda regalis						Thalia geniculata					
Panicum hemitomon						Thelypteris interrupta					
Panicum repens						Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp.					
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.						*Utricularia foliosa					
Persea sp.						*Utricularia gibba (U. biflora)					
Pennisetum purpureum						*Utricularia inflata					
Phragmites australis						*Utricularia purpurea					
Pinus elliotii						*Utricularia radiata					
Pistia stratioides						*Utricularia resupinata					
Pluchea sp.						Vallisneria americana					
*Polygonum glabrum (densiflorum)						Vigna luteola					
Polygonum hirsutum						Vitis sp.					
*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)						Entered as Paspalum urvillei, there is no Urochloa urvillei- KM					
Proserpinaca pectinata						Urochloa urvillei					
*Rhexia						<i>panicum purgatum</i>					
*Rhynchospora corniculata						Entered as Paspalum urvillei, no Urochloa urvillei on taxa list.					
*Rhynchospora inundata											
Rhynchospora nitens											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											

LVI MAP FOR WBID 1488R LAKE IDYL



1:2,257



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