



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

PAGE ____ OF ____

Data Qualified?
Yes / No

STORET Station Name: John Lake @ 350M SE of boat ramp on Lake Blvd south of SR 50 Date: 9/22/2016
(mm/dd/yyyy)

STORET Station ID: 20020277 Latitude: 28.5421027
(Decimal Degrees)

WBID: 2873C RQ - 2016-09-19-39 ORG ID: 2IFLCEN Longitude: -81.6580944
(Decimal Degrees)

Receiving Body of Water: _____ Field ID: G1CE0036 County: Orange

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Mike Linger								
Jordan Skaggs								
Katie Williams								
Julie Espy								

Sampling Equipment			
☒ Sample Container	☐ Van Dorn	☐ Pole	
☐ Carboy	☐ Syringe		
☐ Dipper	☐ Other		
Equipment ID			

Collection Method			
☐ Wading	☐ Via Boat		
☐ From Shore	☐ Canoe/Kayak		
☐ Other (note below)	☐ Electric Motor		
	☒ Gasoline Motor		

Water Level: Dry / Low / Normal / <u>High</u> / Flooded				Matrix: <u>Fresh</u> Marine / DI						
Meter ID# <u>Betty</u> Photos: <u>Yes</u> / No				Tide Falling: Yes / No / <u>NA</u>						
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
<u>EST</u>	<u>12:20</u>	<u>0.3</u>	<u>4.4</u>	<u>7.7</u>	<u>103</u>	<u>7.6</u>	<u>0.09</u>	<u>3.1</u>	<u>190</u>	<u>30.6</u>
<u>CEN</u>		<u>3.9</u>		<u>6.9</u>	<u>92</u>	<u>7.4</u>	<u>0.09</u>		<u>189</u>	<u>29.6</u>

Biological Samples Collected: <u>None</u> HA SCI LVS RPS LVI Other							
Parameter Suite	Parameter Methods			Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			☒ Ice ☐ H2SO4	<u>6209120</u>	<u>7/27/17</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP			☐ Ice ☐ HNO2			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter			☒ Ice			
Chlorophyll	☒ CHLSUITE-W			☒ Ice			
BOD	☐ BOD-UNIN			☐ Ice			
Physical/Aggregate (Kit A/C)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS			☒ Ice			
Physical/Aggregate (Kit B/D)	☐ Alkalinity / W-F / W-TSS / TURBIDITY			☐ Ice			
Macroinvertebrates	☐ ME-FW-QLDC			☐ Formalin			
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR			☐ Ice			
Periphyton	☐ ALGAE-ID			☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R			☐ Ice			
	☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH			☐ Other			

Contains
1:1
Sulfuric Acid
SA-6209120
EXP: 07/27/17
Warning!
See SDS

Preservative Sticker(s) Here
(If Available)

Notes:

Johns Lake @ 350M SE of boat ramp
on Lake Blvd south of SR 50

G1CE0036

Field ID ↑
STORET ↓

Date: 09/22/2016
RQ-2016-09-19-39

20020277

Signature: [Signature] Date: 9/22/16

Field Parameters Entered into LIMS: _____ (Initials/Date) Field Parameters QC in LIMS: _____ (Initials/Date)
Date Migrated to STORET: _____ (Initials/Date) Field Sheets Scanned/Saved: _____ (Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 25.5421027
 COUNTY: ORANGE STORET #: 20020277 LONGITUDE: -81.6580944
 DATE: 9-22-16 TIME: 1220 SAMPLING AGENCY: 21 FL CEN
 SITE NAME: John's Lk West WBID: 2873C
 FIELD ID/NAME: GISE0036 LAKE SIZE: _____ RQ: 2016-09-19-39

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) ☐				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									
STORMWATER INPUTS <u>W 10 9</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>7</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>W 13 9</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 # <u>5A-6209120</u> Exp. Date: <u>7-27-17</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☐ Normal ☒ High						Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____					
Meter Readings: Top: <u>0.3</u> <u>30.6</u> <u>7.6</u> <u>7.7</u> <u>103</u> <u>190</u> <u>0.09</u> Mid-Depth: <u>3.9</u> <u>29.6</u> <u>7.4</u> <u>6.9</u> <u>92</u> <u>189</u> <u>0.09</u> Bottom: <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> Meter ID: _____						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 SECCHI (M) <u>3.1</u> Total Station Depth (M) <u>4.4</u> VOB ☐					
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						Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic					
Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☒ ☐ Nuisance Plants ☐ ☐ ☐ ☒ Submersed Plants ☐ ☐ ☐ ☒ Exotic Apple Snails ☒ ☐ ☐ ☐						Additional Notes:					
Weather Conditions : <u>90's sunny clear</u>											
SAMPLING TEAM: <u>Terry Riordan, Leif Boman, NEA Wellendorf, Brian Davis</u>						SIGNATURE: <u>7/12</u>			DATE: <u>9-22-16</u>		

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>John's Lake West</u>		County: <u>Lake County</u>		Date: <u>9/22/16</u>							
Analyst: <u>N. Wellendorf, T. Wippick, L. Bern, T. Paden</u>		Signature: <u>Nigel Wellendorf</u>		STORET:							
Except where noted as "sp." species level identification required. *Genera that may require lab verification* Plants in bold = FLEPPC invasive exotic. <u>B. Davis</u>				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						Habenaria repens					
Alternanthera philoxeroides	/					Hydrilla verticillata	/	C	P	C	
Andropogon sp.						Hydrocotyle sp.	/		P	/	
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						Limnium 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					
Cyrtia racemiflora						*Ludwigia					
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>elongata</u>	/					Myrica cerifera					
Eleocharis cellulosa						<u>eleocharis submersa</u>	/				
Eleocharis equisetoides						<u>WISPA viviparous</u>					
Eleocharis interstincta						<u>Sanna?</u>		/			
*Eriocaulon compressum						<u>Aechmea indica</u>			/	/	?
*Eriocaulon decangulare											
Eupatorium capillifolium											
*Fuirena											
Fuirena scirpoidea											
Gordonia lasianthus											

Wellendorf, Boman

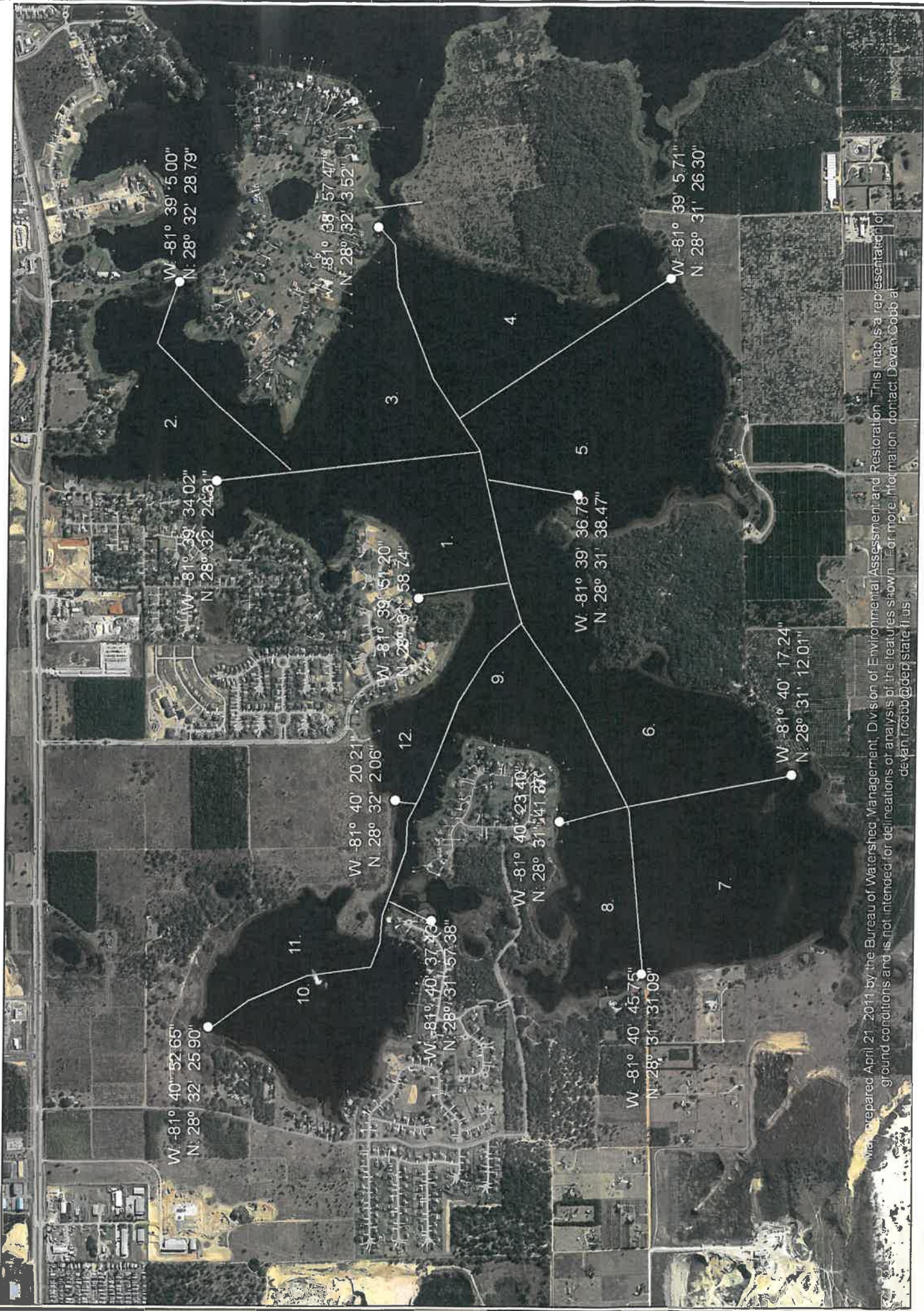
FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Johns Lake West</u>	Date: <u>4/22/16</u>										
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 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 <u>HIRSUTUM</u>	/	/	/	/		Wolffiella spp.					
Pontederia cordata	/	/	/	/		Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus <u>foliosus? crispus</u>			/	/	✓	Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)						<u>Vignolia</u> lutea <u>lutea</u>	/			/	
Proserpinaca pectinata											
*Rhexia											
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata	/										
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia	/	/	/	/							
Sagittaria latifolia											

West Lobe of Johns Lake 2

WBID 2873C

LDI = 3.76



Map prepared April 21, 2011 by the Bureau of Watershed Management, Division of Environmental Assessment and Restoration. This map is a representation of ground conditions and is not intended for delineations or analysis of the features shown. For more information contact Devan Cobb at devan.cobb@dep.state.nj.us