

SAMPLE ID: 77848 MACROPHYTE ID: 10610 LATITUDE: 30° 37' 59.0"
 COUNTY: Leon STORET #: 22020055 LONGITUDE: 84° 13' 21.1"
 DATE: 6/7/2017 TIME: 1110 (water sample) SAMPLING AGENCY: FDEP
 SITE NAME: Lake Iamonia WBID: 442
 FIELD ID/NAME: IamoniaRef LAKE SIZE: 5554 ACRES RQ: 2017-05-22-61

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) not calculated 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>18</u>		Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation <u>Schlock River</u>		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>16</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>16</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			

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>7093010</u> Exp. Date: <u>4/03/18</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High <u>high end of "Normal"</u>						Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____ Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Meter Readings: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: <u>0.3</u> <u>26.1</u> <u>5.65</u> <u>2.05</u> <u>25.2</u> <u>32.1</u> Mid-Depth: <u>1.0</u> <u>25.9</u> <u>5.89</u> <u>1.97</u> <u>24.1</u> <u>32.0</u> Bottom: <u>2.0</u> <u>25.7</u> <u>5.81</u> <u>1.35</u> <u>16.2</u> <u>33.9</u>						Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid <u>in section 3</u> Color: ☐ Clear ☒ Tannic ☐ Green SECCHI (M) <u>1.61</u> Total Station Depth (M) <u>2.5</u> VOB ☐					
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>cloudy, intermittent sun (A.M.)</u> <u>Mostly heavy cloud cover (P.M.)</u>						Additional Notes: <u>Nym odo overwhelming dominant</u> <u>Eichornia shallow</u> <u>Hydrilla prairie-like</u> <u>Cyperus ble</u> <u>Salvinia</u> <u>Eichornia appears stunted & dying</u> <u>not a lot biomass-wise</u>					
SAMPLING TEAM: <u>A. O'Neal, J. Storrs, M. Eckles</u>						SIGNATURE: <u>Ashley O'Neal</u> DATE: <u>6/7/2017</u>					

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Jamonia</u>		County: <u>Leon</u>		Date: <u>6/7/2017</u>							
Analyst: <u>O'Neal, Stivers, Eckles</u>		Signature: <u>Ashley Sheap</u>		STORET: <u>22020055</u>							
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 <u>3, 6, 9, 12</u>							
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	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						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					
Cyrtilla racemiflora	✓	✓	✓	✓		*Ludwigia ? <u>leptolacta</u>	✓	✓	✓	✓	no fls
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						Myrica cerifera					
Eleocharis cellulosa						<u>Fraxinus</u> <u>AO</u>					
Eleocharis equisetoides						<u>Cyperus blepharoleptos</u>	✓	✓	✓	✓	
Eleocharis interstincta						<u>Rhexia</u> <u>sp</u>					
*Eriocaulon compressum						<u>unknown grass (like</u>	✓				
*Eriocaulon decangulare						<u>pat g's from Suwanee</u>					
Eupatorium capillifolium						<u>@ (b)</u>					
*Fuirena											
Fuirena scirpoidea											
Gordonia lasianthus											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: Lake Lamonia					Date: 6/7/2017						
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 Persicaria						*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)						Utricularia? olivacea					
Proserpinaca pectinata						Utricularia cornuta					
*Rhexia						Nyssa aquatica					
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto											
Sagittaria striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											

flws
no fls

Chirabemy?
Quercus virg } uplands
Diospyros
Nymphaea dominant in
section 3

sticks (dead) among
water lilies from drier conditions
remnant
very thick. buttonbush
on western side of section 9

