

sampled 1/29/19 SEP

data entry 9/13/18 SEP

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 78848 MACROPHYTE ID: 11052 LATITUDE: 30.420699
 COUNTY: Leon STORET #: 53809 LONGITUDE: -84.57277
 DATE: 5/31/18 TIME: NO HQ SAMPLING AGENCY: FDEP
 SITE NAME: 21-11-12016 WBID: 1297C
 FIELD ID/NAME: Lake Talquin at Halls Landing LAKE SIZE: 8105 RQ: None
ALSO

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category - from GIS):				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)																
Forest/Natural ☒	Silviculture ☐	Field/Pasture ☐	Agricultural ☐	Residential ☒	Commercial ☐	Industrial ☐	Other (Specify) ☐													
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: <u>2016</u>														
STORMWATER INPUTS <u>8</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>9</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>8</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: <u>WQ collected different day NWNMD</u> Nutrient Sample Taken? ☐ Yes ☒ No Preserved? ☐ Yes ☐ No pH<2 ☐ No Color Sample Taken? ☐ Yes ☒ No Lot # <u>NA</u> Exp. Date: <u>NA</u> Alkalinity Sample Taken? ☐ Yes ☒ No Water Level ☐ Low ☒ Normal ☐ High						Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____ Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____																																															
Meter Readings: Top: <table border="1"><tr><td>Depth (M)</td><td>Temp. (°C)</td><td>pH (SU)</td><td>D.O. (MG/L)</td><td>D.O. Sat. (%)</td><td>Cond. (UMHO/CM)</td><td>Salinity (PPT)</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> Mid-Depth: <table border="1"><tr><td>Depth (M)</td><td>Temp. (°C)</td><td>pH (SU)</td><td>D.O. (MG/L)</td><td>D.O. Sat. (%)</td><td>Cond. (UMHO/CM)</td><td>Salinity (PPT)</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> Bottom: <table border="1"><tr><td>Depth (M)</td><td>Temp. (°C)</td><td>pH (SU)</td><td>D.O. (MG/L)</td><td>D.O. Sat. (%)</td><td>Cond. (UMHO/CM)</td><td>Salinity (PPT)</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> Meter ID: _____						Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)								Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)								Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)								Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☐ Clear ☒ Tannic ☐ Green SECCHI (M) <u>0.7</u> Total Station Depth (M) _____ VOB ☐					
Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)																																															
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Sediment Type: (may check more than one) ☐ Sandy ☒ Organic fibrous (peaty, CPOM) ☐ Sand/Silt ☐ Organic smooth (muck) Sample Taken? ☐ Yes ☒ No ☐ Vegetated ☐ Other (Specify): _____						Sediment Odors: ☒ Normal ☐ Anaerobic ☐ Other (Specify): _____																																															
Biological Communities: LVI Conducted? ☒ Yes ☐ No Phytoplankton Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☒ No Lot #: <u>NA</u> Exp Date: <u>NA</u> Algal Bloom/Algal ID Sample Taken? ☐ Yes ☒ No Active Vegetation Mgmt? ☐ Yes ☐ No ☒ Don't Know						Abundance: <table border="1"> <tr> <th></th> <th>Absent</th> <th>Rare</th> <th>Common</th> <th>Abundant</th> </tr> <tr> <td>Periphyton</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Nuisance Plants</td> <td>☐</td> <td>☐</td> <td>☒</td> <td>☐</td> </tr> <tr> <td>Submersed Plants</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Exotic Apple Snails</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>							Absent	Rare	Common	Abundant	Periphyton	☐	☒	☐	☐	Nuisance Plants	☐	☐	☒	☐	Submersed Plants	☐	☒	☐	☐	Exotic Apple Snails	☒	☐	☐	☐																	
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Additional Notes: <u>status LL</u>																																																					

Weather Conditions :

SAMPLING TEAM: B. Spencer, S. Parck, P. Blair, J. Patronis SIGNATURE: _____ DATE: 5/31/18
C. Green

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>21-44-12016/Lake Talquin @ Hall's Landing</u>		County: <u>Leon</u>		Date: <u>5/31/14</u>							
Analyst: <u>Blake Spenser</u>		Signature: <u>[Signature]</u>		STORET: <u>53809</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 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	X	X	X	X		Habenaria repens					
Alternanthera philoxeroides	X	X	X	X		Hydrilla verticillata					
Andropogon sp.						Hydrocotyle sp.	X	X	X	X	
Azolla filiculoides (A. caroliniana)						Hygrophila polysperma					
Baccharis sp.			X			*Hypericum fasciculatum					
Bacopa caroliniana						*Hypericum hypericoides					
Bacopa monnieri						*Hypericum myrtifolium					
Bidens laevis						Ilex cassine					
Bidens mitis						Ipomoea aquatica					
Blechnum serrulatum						Ipomoea sagittata					
Boehmeria cylindrica	X	X	X	X		Itea virginica					
Brasenia schreberi						Juncus effusus					
Cabomba caroliniana						*Juncus marginatus					
Casuarina equisetifolia						*Juncus megacephalus					
Centella asiatica						Juncus repens					
Cephalanthus occidentalis	X	X	X	X		*Juncus scirpoides					
Ceratophyllum demersum						Lachnanthes caroliniana					
Chara sp.						Leersia hexandra					
Cladium jamaicense						Landoltia punctata (Spirodela punctata)					
Cliftonia monophylla						Lemna sp.	X	X	X	X	
Colocasia esculenta	X	X	X	X		Leucothoe racemosa (Eubotrys racemosa)		X	X		
*Commelina						Limnium spongia					
Crinum americanum						Limnophila sessiliflora					
*Cyperus alternifolius (C. involucratus)						Liquidambar styraciflua	X	X	X		
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	X	X	X	X		*Ludwigia					
Decodon verticillatus						Luziola fluitans (Hydrochloa carolinensis)					
Diodia virginiana						Lyonia lucida					
*Echinochloa crus-galli						Magnolia virginiana					
*Echinochloa muricatum						Mayaca fluviatilis					
Echinochloa walteri						Melaleuca quinquerivaria					
Eclipta prostrata (E. alba)						Micranthemum glomeratum					
Egeria densa						Micranthemum umbrosum					
Eichhornia crassipes	X	X	X	X		Mikania scandens					
*Eleocharis baldwinii						Mimosa pigra					
*Eleocharis						Myrica cerifera	X	C	A	A	
Eleocharis cellulosa						<i>Ulmus americana</i>	X	X		X	
Eleocharis equisetoides						<i>Albizia julibrissin</i>	X	X			
Eleocharis interstincta						<i>Cicuta maculata</i>	X	X	X	X	
*Eriocaulon compressum						<i>Canna flaccida</i>		X		X	
*Eriocaulon decanulare						<i>Ilex opaca</i>	X	X			
Eupatorium capillifolium		X	X	X		<i>Carex decomposita</i>	X	X	X	X	
*Fuirena						<i>Magnolia grandiflora</i>	X	C	X	X	
Fuirena scirpoidea						<i>Carex lurida</i>			X	X	
Gordonia lasianthus						<i>Liriodendron tulipifera</i>	X	X	X		

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site:						Date:					
SPECIES	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	Collected? (✓)
Myriophyllum aquaticum						Salix caroliniana		X		X	
*Myriophyllum heterophyllum						Salvinia minima	X	X	X	X	
*Myriophyllum laxum						Sambucus canadensis		X			
*Myriophyllum pinnatum						Sapium sebiferum			X	X	
Myriophyllum spicatum						Saururus cernuus					
*Najas filifolia						Schinus terebinthifolius					
*Najas guadalupensis						*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani (Scirpus validus)	X		X		
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)	X	X	X		
Nuphar sp.	X	X	X	X		Scirpus cyperinus					
Nymphaea odorata						*Sesbania					
Nymphoides aquatica						Solidago sp.					
Nyssa sylvatica var. biflora	X	X	X	X		Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.	X	X	X	X	
Panicum hemitomon	X	X	X	X		Thalia geniculata					
Panicum repens						Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum	X	X	X	X	
*Paspalum repens						Typha sp.	0	X	X	X	
Paspalum urvillei	X	X	X	X		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		X	X			*Utricularia cornuta					
Pluchea sp.						*Utricularia radiata					
*Polygonum glabrum (densiflorum)	X	X	X	X		Vallisneria americana					
*Polygonum hydropiperoides						*Websteria confervoides					
*Polygonum punctatum						Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum						Wolffiella spp.					
Pontederia cordata	X					Woodwardia virginica	X	X	X	X	
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)											
Proserpinaca pectinata						Rumex verticillatus sp			X	X	
*Rhexia						Rumex verticillatus					
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto	X		X	X							
Sacciolepis striata	X	X	X	X							
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											