

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Bryant</u>	County: <u>Marion</u>	Date: <u>6/6/2023</u>			
Analyst: <u>JP/KV/KH/NB</u>	Signature: <u>Derry Parson</u>	STORET: <u>G1NE0955</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): <u>1, 4, 7, 10</u> 2, 5, 8, 11 3, 6, 9, 12			
SPECIES	1 4 7 10	Collected? (✓)	SPECIES	1 4 7 10	Collected? (✓)
Acer rubrum	P P P P		Habenaria repens		
Alternanthera philoxeroides			Hydrilla verticillata		
Andropogon sp.			Hydrocotyle sp.	P P P P	
Azolla filiculoides (A. caroliniana)		P	Hygrophila polysperma		
Baccharis sp.			*Hypericum fasciculatum		
Bacopa caroliniana			*Hypericum hypericoides		
Bacopa monnieri			*Hypericum myrtifolium		
Bidens laevis	P P P		Ilex cassine	P P P P	
Bidens mitis			Ipomoea aquatica		
Blechnum serrulatum		P	Ipomoea sagittata		
Boehmeria cylindrica			Itea virginica		
Brasenia schreberi			Juncus effusus		
Cabomba caroliniana		P	*Juncus marginatus		
Casuarina equisetifolia			*Juncus megacephalus		
Centella asiatica			Juncus repens		
Cephalanthus occidentalis	P P P P		*Juncus scirpoides		
Ceratophyllum demersum			Lachnanthes caroliniana		
Chara sp.			Leersia hexandra		
Cladium jamaicense	P C P P		Landoltia punctata (Spirodela punctata)		
Cliftonia monophylla			Lemna sp.		P
Colocasia esculenta	P		Leucothoe racemosa (Eubotrys racemosa)		
*Commelina			Limnium spongia		
Crinum americanum			Limnophila sessiliflora		
*Cyperus alternifolius (C. involutus)			Liquidambar styraciflua	P P	
Cyperus articulatus			*Ludwigia arcuata		
Cyperus haspan			*Ludwigia leptocarpa		
*Cyperus lecontei			*Ludwigia linearis		
*Cyperus polystachyos			*Ludwigia octovalvis		
*Cyperus odoratus			*Ludwigia peruviana	P P P P	
*Cyperus surinamensis			*Ludwigia repens		
Cyrtilla racemiflora			*Ludwigia		
Decodon verticillatus		P	Luziola fluitans (Hydrochloa carolinensis)		
Diodia virginiana			Lyonia lucida		
*Echinochloa crus-galli			Magnolia virginiana		
*Echinochloa muricatum			Mavaca fluviatilis		
Echinochloa walteri			Melaleuca quinquenervia		
Eclipta prostrata (E. alba)			Micranthemum glomeratum		
Egeria densa			Micranthemum umbrosum		
Elchhornia crassipes			Mikania scandens	P P P P	
*Eleocharis baldwinii	P	P P	Mimosa pigra		
*Eleocharis			Myrica cerifera	P P P	
Eleocharis cellulosa					
Eleocharis equisetoides					
Eleocharis interstincta					
*Eriocaulon compressum					
*Eriocaulon decangulare					
Eupatorium capillifolium	P	P P			
*Fuirena					
Fuirena scirpoidea	P				
Gordonia lasianthus	P P P P				

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SPECIES	1	4	7	10	Collected? (✓)	SPECIES	1	4	7	10	Collected? (✓)
Myriophyllum aquaticum						Salix caroliniana	p	p	p	p	
*Myriophyllum heterophyllum						Salvinia minima				p	
*Myriophyllum laxum						Sambucus canadensis	p	p	p		
*Myriophyllum pinnatum						Sapillum sebiferum					
Myriophyllum spicatum						Saururus cernuus			p	p	
*Najas filifolia						Schinus terebinthifolius					
*Najas guadalupensis						*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani (Scirpus validus)					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)				p	
Nuphar sp.	p	p	p	p		Scirpus cyperinus					
Nymphaea odorata	p	p	p	p		*Sesbania					
Nymphoides aquatica	p	p	p	p		Solidago sp.					
Nyssa sylvatica var. biflora	p	p		p		Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrrhiza				p	
Osmunda regalis						Taxodium sp.	p	p			
Panicum hemitomon	p	p	p	p		Thalia geniculata					
Panicum repens	p	p	p	p		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp.	p		p	p	
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.		p	p	p		*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 radlata					
*Polygonum glabrum (densiflorum)						Vallisneria americana					
*Polygonum hydropiperoides						*Websteria confervoides					
*Polygonum punctatum				p		Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum						Wolffella spp.					
Pontederia cordata	p	p	p	p		Woodwardia virginica			p	p	
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)						pteridium aquilinum				p	
Proserpinaca pectinata						Amaranthus australis				p	
*Rhexia						Hibiscus sp.			p		
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto	p	p	p								
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis				p							
Sagittaria lancifolia	p	p	p	p							
Sagittaria latifolia											

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 29.1443082
COUNTY: Marion STORET #: 1245 G 1NE0955 LONGITUDE: 81.8553201
DATE: 5/6/2023 TIME: 1245 SAMPLING AGENCY: _____
SITE NAME: Lake Bryant, Marion County WBID: _____
FIELD ID/NAME: _____ LAKE SIZE: _____ RQ: _____

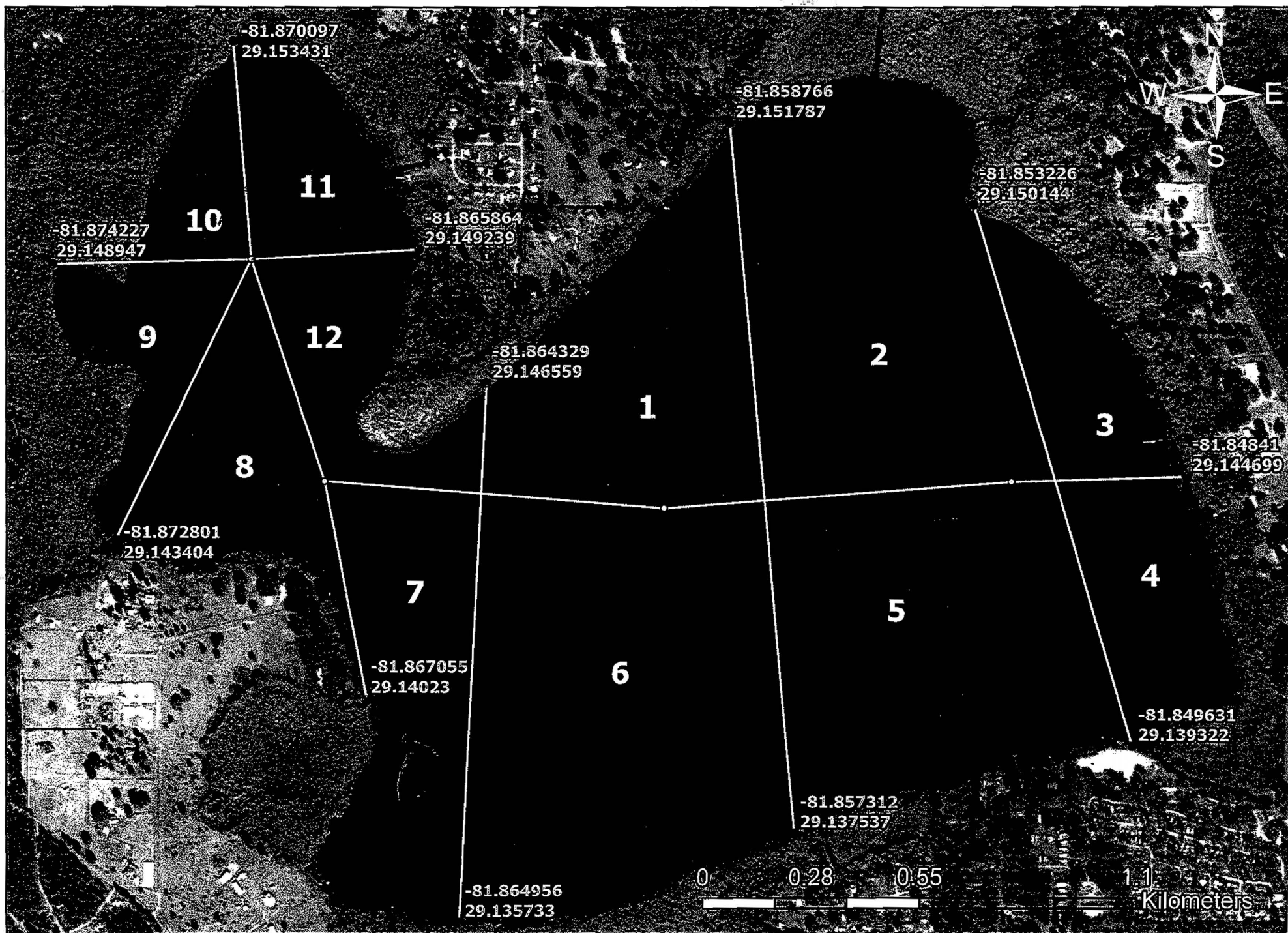
WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural <u>50</u> Silviculture <u>0</u> Field/Pasture <u>0</u> Agricultural <u>0</u> Residential <u>50</u> Commercial <u>0</u> Industrial <u>0</u> Other (Specify) <u>0</u>				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>0</u>	
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>14</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 <u>14</u> 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>15</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) <u>15</u> 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>16</u>	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 <u>16</u>	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 ☐ 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: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: <u>0.3</u> <u>27.1</u> <u>7.48</u> <u>8.61</u> <u>109.7</u> <u>99.5</u> <u>0.05</u> Mid-Depth: <u>2.0</u> <u>26.3</u> <u>6.73</u> <u>7.44</u> <u>92.0</u> <u>99.5</u> <u>0.05</u> Bottom: <u>3.0</u> <u>26.0</u> <u>6.48</u> <u>6.53</u> <u>80.4</u> <u>99.7</u> <u>0.05</u>							Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Meter ID: <u>Bruce</u>							Clarity: ☐ Clear ☒ 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): _____							SECCHI (M) <u>0.7</u> Total Station Depth (M) <u>3.512</u> VOB ☐					
Sediment Odors: ☐ Normal ☐ Other (Specify): _____ ☐ Anaerobic							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>Partly Clouded, minimal wind, 48% humidity, 86°F</u>							Additional Notes:					
SAMPLING TEAM: <u>NEROC</u>				SIGNATURE: <u>Jeremy Carmichael</u>		DATE: <u>5/6/2023</u>						

Lake Bryant, Marion County (WBID 2782C)



Date: 05/05/2023. Created by the Water Quality Standards Program. This map is for information purposes only.