

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 81784 MACROPHYTE ID: _____ LATITUDE: 30.5888
 COUNTY: JACKSON STORET #: WAS16POR LONGITUDE: -85.27763
 DATE: 9/28/2020 TIME: 1200 SAMPLING AGENCY: DEP/AEQA
 SITE NAME: PORTER POND WBID: 518
 FIELD ID/NAME: PORTER POND LAKE SIZE: 21 acres RQ: 2020-09-28-41

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) ☐ LDI: <u>no LDI</u>						LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>no LDI</u>			
Local Watershed Erosion (select one): ☒ None ☐ Slight ☐ Moderate ☐ Heavy Artificially Impounded: ☐ Yes ☒ No						Land Use Source & Year:			
STORMWATER INPUTS <u>19</u>		Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 <u>19</u> 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>19</u>		Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) 20 <u>19</u> 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>19</u>		Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 <u>19</u> 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>SA9354050</u> Exp. Date: <u>12/20/20</u> Alkalinity Sample Taken? ☒ Yes ☐ No <u>NA9354060</u> <u>12/20/20</u> 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>.2</u> <u>26.4</u> <u>5.55</u> <u>101.3</u> <u>8.16</u> <u>11.7</u> <u>-</u> Mid-Depth: <u>2.0</u> <u>25.4</u> <u>5.40</u> <u>81</u> <u>6.1</u> <u>12.0</u> <u>-</u> Bottom: <u>5.1</u> <u>24.8</u> <u>5.36</u> <u>1.65</u> <u>22</u> <u>22.5</u> <u>-</u>								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other			
Meter ID: <u>154186</u>								Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☒ Clear ☐ Tannic ☐ Green			
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☒ Yes ☒ No ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): <u>N/A</u>								Sediment Odors: ☐ Normal ☐ Other (Specify): <u>N/A</u> ☐ 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 ☒ ☐ ☐ ☐				Additional Notes: Contains: 1:1 H2SO4 Lot No.: SA9354050 Expires: 12/20/20 See Safety Data Sheet (SDS) Contains: 1:1 HNO3 Lot No.: NA9354060 Expires: 12/20/20 See Safety Data Sheet (SDS)			
Weather Conditions: <u>fog, then sun</u>								SAMPLING TEAM: <u>JACKSON, A ONEAL</u>			
SIGNATURE: <u>[Signature]</u>								DATE: <u>9/28/2020</u>			

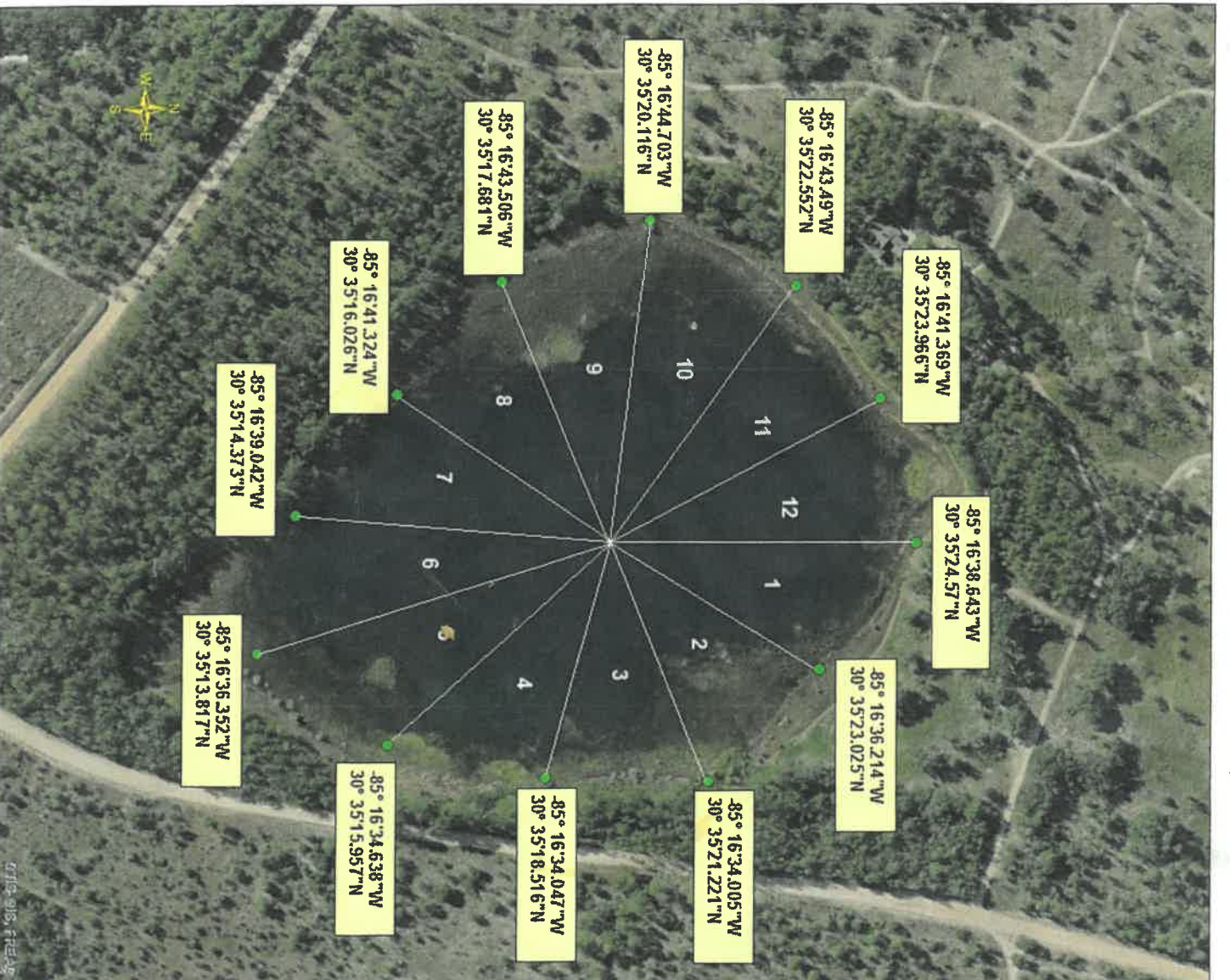
DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>PORTER POND</u>		County: <u>JACKSON</u>		Date: <u>9-26-2020</u>							
Analyst: <u>JACKSON A ONE</u>		Signature: <u>[Signature]</u>		STORET:							
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						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 <u>myrtifolium</u>					
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					
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											
Eleocharis equisetoides											
Eleocharis interstincta											
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium											
*Fuirena											
Fuirena scirpoidea											
Gordonia lasianthus											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: PORTER POND					Date: 9.26.2020						
SPECIES	1	4	7	10	Collected? (Y)	SPECIES	1	4	7	10	Collected? (Y)
Myriophyllum aquaticum						Salix caroliniana					
*Myriophyllum heterophyllum <i>verify</i>	✓	✓	✓	✓		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						Wolffiella spp.					
Pontederia cordata						Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.		✓	✓	✓	✓
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)						Panicum sp (wispy inf.)		✓	✓	✓	✓
Proserpinaca pectinata						Scleria sp reticularis AO			✓	✓	✓
*Rhexia											
*Rhynchospora corniculata sp curtissii					✓						
*Rhynchospora inundata					✓						
Rhynchospora tracyi					✓						
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											

Porter Pond, Jackson County (WBID 518)



0 0.0325 0.065 0.13 0.195 Kilometers

Map created 9/21/2017 by Sarah Parnik with 2016 aeriols.
This map is for information purposes only.

Sampling Agency: FDAP/MSA

Sampling Agency:

Location		☐ Comp		Collection (comp begin or grab)		☒ Grab		Date		Time		Eastern Composite end		Central Date		Composite end		Time		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)				Date		Time		Diss. Oxygen		Sample Depth		☒ mg/L Total Res. Chlorine		☒ % sat (mg/L)		(See pg 2)	
WIN/STORET #				Temp (C)		26.4		pH		5.95		Sample Depth		0.2		☒ ft		Sp. Conductance (umho/cm)		11.7	
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)				Comments									
Location				☐ Comp ☐ Grab		Collection (comp begin or grab)		Time		Eastern Composite end		Central Date		Composite end		Time		Bottle Group(s)			
Field ID				Matrix (type, e.g., Salt, Fresh, etc)				Date		Time		Diss. Oxygen		Sample Depth		☐ ft		Sp. Conductance (umho/cm)			
WIN/STORET #				Temp (C)				pH				Sample Depth				☐ ft		Sp. Conductance (umho/cm)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)				Comments									
Location				☐ Comp ☐ Grab		Collection (comp begin or grab)		Time		Eastern Composite end		Central Date		Composite end		Time		Bottle Group(s)			
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WIN/STORET #				Temp (C)				pH				Sample Depth				☐ ft		Sp. Conductance (umho/cm)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)				Comments									
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WIN/STORET #				Temp (C)				pH				Sample Depth				☐ ft		Sp. Conductance (umho/cm)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)				Comments									
Location				☐ Comp ☐ Grab		Collection (comp begin or grab)		Time		Eastern Composite end		Central Date		Composite end		Time		Bottle Group(s)			
Field ID				Matrix (type, e.g., Salt, Fresh, etc)				Date		Time		Diss. Oxygen		Sample Depth		☐ ft		Sp. Conductance (umho/cm)			
WIN/STORET #				Temp (C)				pH				Sample Depth				☐ ft		Sp. Conductance (umho/cm)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)				Comments									
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Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)				Comments									
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Field ID				Matrix (type, e.g., Salt, Fresh, etc)				Date		Time		Diss. Oxygen		Sample Depth		☐ ft		Sp. Conductance (umho/cm)			
WIN/STORET #				Temp (C)				pH				Sample Depth				☐ ft		Sp. Conductance (umho/cm)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)				Comments									
Location				☐ Comp ☐ Grab		Collection (comp begin or grab)		Time		Eastern Composite end		Central Date		Composite end		Time		Bottle Group(s)			
Field ID				Matrix (type, e.g., Salt, Fresh, etc)				Date		Time		Diss. Oxygen		Sample Depth							

Group: A	Bottle Type: ALKALINITY W-CL-IC W-COLOR W-F W-SO4-IC	P-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: DTY-QN-C PKD-QN-C	BP-1L	# of Bottles: 1	Preservative:	Lugols	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab