

RQ-2016-09-12-79

9/12/2016
WBID 3259WLake Trafford at
Center

SDREFLK091216

STORET
28030024*

FD 9000-31: LAKE OBSERVATION FIELD SHEET

PHYTE ID: _____

LATITUDE: _____

LONGITUDE: _____

SAMPLING AGENCY: 21FLPTM

WBID: _____

LAKE SIZE: _____ RQ: _____

DATE: _____

TIME: 930

SITE NAME: _____

FIELD ID/NAME: _____

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)
50		20	25	5			

Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy

Artificially Impounded

Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy☐ Yes ☒ No

STORMWATER INPUTS

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

LAKESIDE ALTERATIONS

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

Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18m 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 ☐ NoColor Sample Taken? ☒ Yes ☐ No Lot # _____ Exp. Date: _____Alkalinity Sample Taken? ☒ Yes ☐ NoWater Level ☐ Low ☒ Normal ☐ HighWater Odors: ☒ Normal☐ Sewage ☐ Petroleum ☐ Other _____Water Surface Oils: ☒ None☐ Sheen/Slick ☐ Glob ☐ Other _____

Meter

Readings:

Top:

0.3

29.1

7.8

7.3

95

275

0.13

Mid-Depth:

Bottom:

2.9

29.1

7.7

6.2

80

276

0.13

Meter ID: 751 A

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 #: _____ 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:

Algal bloom, ID taken
Microcystin spp. dominant
Visit 76912

Weather Conditions:

SAMPLING TEAM:

Corey Anderson, Ben Paswater
Veronica Runge

SIGNATURE:

Sim File
generated
4/12/17 CTA

DATE: 9-12-16

62-160.800, F.A.C.

Revision Date: March 1, 2014

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Field IDLake Trafford at
CenterSTORET
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DEP Form FD 9000-6: Lake Habitat Assessment Form

STORET STATION NUMBER:	DATE (M/D/Y)	LAKE NAME		FIELD ID / NAME:
ECO-REGION:	COUNTY: <i>Collier</i>	SAMPLING LOCATION/DESCRIPTION:		LAKE SIZE:
PARAMETER	No surface inflow or outflow present, very long water residence time, groundwater seepage dominates	Surface water inflow present, but flow is rare, moderate to long water residence time	Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time	Impounded, hydrology of system artificially controlled
HYDROLOGY	☐	☐	☒	☐
Color	Very clear, uncolored water (benthic sampling appropriate) ☐	Water somewhat tannin stained (benthic sampling appropriate) ☐	Dark, discolored water (water color 20 PCU or higher) ☐	Visibility extremely reduced due to high color ☒
Secchi	Optimal	Suboptimal	Marginal	Poor
	Secchi > 3 m Or VOB	Secchi(m)		
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Vegetation Quality	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa	Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants	Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats	Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed)
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Stormwater Inputs	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
Bottom Substrate Quality	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present	Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present	Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom	Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Lakeside Adverse Human Alterations	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%)	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
Upland Buffer Zone	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
Adverse Watershed Land Use	Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial			
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
TOTAL SCORE	96			
COMMENTS:				
ANALYSIS DATE: 9-12-16	ANALYST: Corey Anderson		SIGNATURE: <i>Car 2</i>	

Date:		Waterbody: Lake Trafford		County: Collier		
STORET:		Signature: <i>[Signature]</i>		Analyst: <i>Corey Anderson</i>		
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 3, 6, 9, 12		
SPECIES		1	10	7	4	Collected? (N)
SPECIES		1	10	7	4	Collected? (N)
Acer rubrum		✓	✓	✓	✓	
Alternanthera philoxeroides						
Andropogon sp.		✓	✓	✓	✓	
Annona glabra		✓	✓	✓	✓	
Azolla filiculoides (A. caroliniana)		✓	✓	✓	✓	
Baccharis sp.						
Bacopa caroliniana						
Bacopa monnieri						
Bidens laevis						
Bidens mitis						
Blechnum serrulatum						
Boehmeria cylindrica						
Brasenia schreberi						
Cabomba caroliniana						
Casuarina equisetifolia						
Centella asiatica						
Cephalanthus occidentalis						
Ceratophyllum demersum						
Chara sp.						
Cicuta sp.						
Cladium jamaicense						
Cliftonia monophylla						
Colocasia esculenta						
*Commelina						
Crinum americanum						
*Cyperus alternifolius (C. involucratus)						
Cyperus articulatus						
Cyperus haspan						
*Cyperus lecontei						
*Cyperus polystachyos						
*Cyperus odoratus						
*Cyperus surinamensis						
Cynilla racemiflora						
Decodon verticillatus						
Diodia virginiana						
*Echinochloa crus-galli						
*Echinochloa muricatum						
Echinochloa walteri						
Eclipta prostrata (E. alba)						
Egeria densa						
Eichhornia crassipes						
*Eleocharis baldwinii						
*Eleocharis						
Eleocharis cellulosa						
Eleocharis equisetoides						
Eleocharis interstincta						
*Eriocaulon compressum						
*Eriocaulon decangulare						
Eupatorium capillifolium						
Fraxinus caroliniana						
*Fuirena						
Fuirena scirpoidea						
Gordonia lasianthus						
Habenaria repens						
Hibiscus grandiflora						
Hymenachne amplexicaulis						
Hydrilla verticillata						
Hydrocotyle sp.						
Hygrophila polysperma						
*Hypericum fasciculatum						
*Hypericum hypericoides						
*Hypericum myrtifolium						
Ilex cassine						
Ipomoea aquatica						
Ipomoea sagittata						
Itea virginica						
Juncus effusus						
*Juncus marginatus						
*Juncus megacephalus						
Juncus repens						
*Juncus scirpoides						
Lachnanthes caroliniana						
Leersia hexandra						
Landoltia punctata (Spirodela punctata)						
Lemna sp.						
Leucothoe racemosa (Eubotrys racemosa)						
Limnium spongia						
Limnophila sessiliflora						
Liquidambar styraciflua						
*Ludwigia arcuata						
*Ludwigia leptocarpa						
*Ludwigia linearis						
*Ludwigia octovalvis						
*Ludwigia peruviana						
*Ludwigia repens						
*Ludwigia						
Luziola fluitans (Hydrochloa carolinensis)						
Lyonia lucida						

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FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

SPECIES					Date:	SPECIES				
				Collec ted?					Collec ted?	
Magnolia virginiana						Sabal palmetto				
Mayaca fluviatilis						Sacciolepis striata				
Melaleuca quinquenervia						*Sagittaria filiformis				
Micranthemum glomeratum						*Sagittaria graminea				
Micranthemum umbrosum						*Sagittaria isoetiformis				
Mikania scandens						Sagittaria lancifolia				
Mimosa pigra						Sagittaria latifolia				
Myrica cerifera						Salix caroliniana				
Myriophyllum aquaticum						Salvinia minima				
*Myriophyllum heterophyllum						Sambucus canadensis				
*Myriophyllum laxum						Sapium sebiferum				
*Myriophyllum pinnatum						Saururus cernuus				
Myriophyllum spicatum						Schinus terebinthifolius				
*Najas filifolia						*Schoenoplectus californicus (Cali bulrush)				
*Najas guadalupensis						*Schoenoplectus pungens (three square)				
*Najas minor						*Schoenoplectus tabernaemontani (softstem)				
Nelumbo lutea						Scirpus cubensis (Oxycaryon cubense)				
Nitella spp.						Scirpus cyperinus				
Nuphar sp.						*Sesbania				
Nymphaea odorata						Solidago sp.				
Nymphoides aquatica						Sparganium americanum				
Nyssa sylvatica var. biflora						Spartina bakeri				
Orontium aquaticum						Sphagneticola trilobata (Wedelia)				
Osmunda cinnamomea						Spirodela polyrhiza				
Osmunda regalis						Symphyotrichum carolinianum (Aster)				
Panicum hemitomon						Taxodium sp.				
Panicum repens						Thalia geniculata				
Paspalidium geminatum						Thelypteris palustris				
*Paspalum repens						Triadenum virginicum				
Paspalum urvillei						Typha sp.				
Peltandra sp.						Urochloa mutica (Brachiaria mutica)				
Persea sp.						*Utricularia gibba (U. biflora)				
Pennisetum purpureum						*Utricularia floridana				
Phragmites australis						*Utricularia foliosa				
Pinus elliotii						*Utricularia inflata				
Pistia stratioides						*Utricularia purpurea				
Pluchea sp.						*Utricularia cornuta				
*Polygonum glabrum (densiflorum)						*Utricularia radiata				
*Polygonum hydropiperoides						Vallisneria americana				
*Polygonum punctatum						*Websteria confervoides				
*Polygonum sp.						Wolffiella spp.				
Pontederia cordata						Woodwardia virginica				
*Potamogeton diversifolius						Xyris sp.				
*Potamogeton illinoensis						Zizania aquatica				
*Potamogeton pusillus						Zizaniopsis milacea				
*Potamogeton pectinatus										
Proserpinaca pectinata										
*Rhexia										
*Rhynchospora corniculata										
*Rhynchospora inundata										
Rhynchospora tracyi										
Ricciocarpus natans										
Rumex sp.										

step 4 - No data for
Nelumbo, and apple, maple,
triana

LVI Map for LAKE TRAFFORD, WBID 3259W

1/4, 7, 10

