



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV
Yes / No

WIN Station Name:		NORTH LAKE ASBURY CENTER				Sample Date:		7/20/2023	
WIN / Field ID:	G2NE1199	ORG ID:	21FLA	ENR:	-	Latitude:	30.05705		
County:	CLAY	WBID:	2438	LAKE		Longitude:	-81.81921		
Receiving Body of Water:						-	RQ-	2023-07-24-10	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jeremy Parrish					
Katherine Halbert					

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
	Syringe		Pole
Syringe Lot#		Filter Lot# 0000175533	
Secchi Equipment ID:		D#4	
Collection Method			
	Wading		Canoe/Kayak
	From Shore		Electric Motor
		x	Gasoline Motor
Depth Measured With		Meter	

Water Level:	Normal
Flow:	NA
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	Stitch
Depth Gauge ID:	depth_gauge

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPTth)
EST	940	4.12	0.3	7.9	107.2	31.5	7.8	1.9	137.9	0.06
	943		2	7.85	106.1	31.2	7.61		137.8	0.06
	0940		3.62	2.7	35.5	30.4	6.96		138.6	0.06

Biological Samples Collected:

LVI

SBIO Visit ID:

HA ID:

RPS ID:

Macrophyte ID:

LIMS Sample ID

In The Macrophyte Module:

Parameter Suite	Parameter Methods (LIMS Test Codes)	Preservation						
		Type	Lot#	Expiration Date	pH Check			
Microbiology								
Chlorophyll	CHLSUITE-W	ICE						
Physical/Aggregate	ALKALINITY, TURBIDITY, W-F, W-TSS	ICE						
Nutrients	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS	ICE						
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter	ICE	Syringe Lot#; Filter Lot#:0000175533				
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	ICE	H2SO4*	SA2229010	08/30/2023	H2SO4 pH<2		
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA2230040	09/01/2023	HNO3 pH<2
Organics (LC)								
Macroinvertebrates								
Organics (GC)	8321 DI	8321-MS						
	W-PSNP-TQ	W-TR-SQ-R						
Molecular								
Periphyton								
Phytoplankton								
BOD								
DOC								
Other(s)								
Field Comments:								
Comments on COC:								
Relinquish Date:	07/20/2023	Signature:						

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ QC Station ID, Field Parameters In LIMS DMT: _____

(Initials/Date)

(Initials/Date)

Save Field Sheets on Network: _____ Migrate Data to WIN: _____

(Initials/Date)

(Initials/Date)

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SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: _____
 COUNTY: Clay STORET #: 62NE1199 LONGITUDE: _____
 DATE: 07/20/2023 TIME: 940 SAMPLING AGENCY: _____
 SITE NAME: North Lake Ashbury Center WBID: 2438
 FIELD ID/NAME: _____ LAKE SIZE: _____ RQ: _____

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
				<u>95</u>	
				Other (Specify) <u>Power</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		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	
<u>12</u>		20 19 18 17 16		15 14 13 <u>12</u> 11	
				10 9 8 7 6	
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)	
<u>10</u>		20 19 18 17 16		15 14 13 12 11	
				<u>10</u> 9 8 7 6	
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	
<u>8</u>		20 19 18 17 16		15 14 13 12 11	
				<u>10</u> 9 <u>8</u> 7 6	
				5 4 3 2 1	

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water:		Water Odors: ☒ Normal	
Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☐ No pH < 2 ☐ No		☐ Sewage ☐ Petroleum ☐ Other _____	
Color Sample Taken? ☒ Yes ☒ No Lot # <u>SA2009010</u> Exp. Date: <u>08/30/2023</u>		Water Surface Oils: ☒ None	
Alkalinity Sample Taken? ☒ Yes ☐ No		☐ Sheen/Slick ☐ Glob ☐ Other _____	
Water Level ☐ Low ☒ Normal ☐ High			
Meter Readings:		Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid	
Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)
Top: <u>0.3</u>	<u>31.5</u>	<u>7.80</u>	<u>107.2</u>
Mid-Depth: <u>2.00</u>	<u>31.2</u>	<u>7.61</u>	<u>106.1</u>
Bottom: <u>3.62</u>	<u>30.4</u>	<u>6.96</u>	<u>35.5</u>
			<u>2.70</u>
			<u>137.9</u>
			<u>137.8</u>
			<u>138.6</u>
			<u>0.06</u>
			<u>0.06</u>
			<u>0.06</u>
Meter ID: _____		SECCHI (M) <u>1.9</u> Total Station Depth (M) <u>4.12</u>	
		VOB ☐	

Sediment Type: (may check more than one)		Sediment Odors:	
☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated		☐ Normal ☐ Other (Specify): _____	
☒ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____		☐ Anaerobic	
Biological Communities:		Abundance:	
LVI Conducted? ☒ Yes ☐ No		Absent Rare Common Abundant	
Phytoplankton Sample Taken? ☐ Yes ☒ No		Periphyton ☐ ☐ ☒ ☐	
Sample Preserved? ☐ Yes ☐ No		Nuisance Plants ☐ ☐ ☒ ☐	
Lot #: _____ Exp Date: _____		Submersed Plants ☐ ☐ ☐ ☒	
Algal Bloom/Algal ID Sample Taken? Yes No		Exotic Apple Snails ☐ ☐ ☐ ☒	
Active Vegetation Mgmt? ☐ Yes ☐ No ☐ Don't Know			
Weather Conditions:		Additional Notes:	
		<u>Treatments removing Hyacinths</u>	

SAMPLING TEAM: Jerry Carrin SIGNATURE: K. Halber DATE: 7/20/2023

DEP Form FD 9000-6: Lake Habitat Assessment Field Sheet

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STORET STATION NUMBER: 62 NE-1199		DATE (M/D/Y) 7/20/2023		LAKE NAME Nash Lake Ashby Center		FIELD ID / NAME:	
ECO-REGION:		COUNTY: Clay		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 ☐	
HYDROLOGY						Impounded, hydrology of system artificially controlled ☐	
Color		Very clear, uncolored water (benthic sampling appropriate) ☐		Water somewhat tannin stained (benthic sampling appropriate) ☒		Dark, discolored water (water color 20 PCU or higher) ☐	
		Optimal		Suboptimal		Marginal	
Secchi		Secchi > 3 m Or VOB		Secchi (m)		1.0 0.9 0.8 0.7 0.6	
13		20 19 18 17 16		15 14 13 12 11		5 4 3 2 1	
Vegetation Quality		Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 14		Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants 13		Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats	
		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
Stormwater Inputs		Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 12		Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 12		Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place	
		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
Bottom Substrate Quality		Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 18		Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present 12		Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom	
		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
Lakeside Adverse Human Alterations		Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 10		Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected 10		Many structures, roads or other human disturbance visible (50%-70%) lakeside affected 10	
		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
Upland Buffer Zone		Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 8		89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 8		50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 8	
		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
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 12					
		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
TOTAL SCORE		12					
		COMMENTS:					

ANALYSIS DATE:	ANALYST:	SIGNATURE:
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DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>North Lake Asbury center</u>		County: <u>Clay</u>		Date: <u>7/20/2023</u>							
Analyst: <u>J. P. [signature]</u>		Signature: <u>J. P. [signature]</u>		STORET: <u>62NE1199</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 3, 6, 9, 12							
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	Collected? (✓)
Acer rubrum	1	1	1			Habenaria repens					
Alternanthera philoxeroides						Hydrilla verticillata	1	1		1	
Andropogon sp.						Hydrocotyle sp.	1				
Azolla filiculoides (A. caroliniana)						Hygrophila polysperma					
Baccharis sp.		1	1			*Hypericum fasciculatum					
Bacopa caroliniana						*Hypericum hypericoides					
Bacopa monnieri						*Hypericum myrtifolium					
Bidens laevis						Ilex cassine					
Bidens mitis						Ipomoea aquatica					
Blechnum serrulatum	1	1	1	1		Ipomoea sagittata					
Boehmeria cylindrica		1				Itea virginica					
Brasenia schreberi						Juncus effusus					
Cabomba caroliniana						*Juncus marginatus					
Casuarina equisetifolia						*Juncus megacephalus					
Centella asiatica						Juncus repens					
Cephalanthus occidentalis	1	1	1	1		*Juncus scirpoides					
Ceratophyllum demersum	1	1	1	1		Lachnanthes caroliniana					
Chara sp.						Leersia hexandra					
Cladium jamaicense						Landoltia punctata (Spirodela punctata)					
Cliftonia monophylla	1					Lemna sp.					
Colocasia esculenta	1	1				Leucothoe racemosa (Eubotrys racemosa)					
*Commelina						Limnium spongia					
Crinum americanum						Limnophila sessiliflora					
*Cyperus alternifolius (C. involucratus)	1					Liquidambar styraciflua	1	1	1		
Cyperus articulatus						*Ludwigia arcuata					
Cyperus haspan						*Ludwigia leptocarpa					
*Cyperus lecontei						*Ludwigia linearis					
*Cyperus polystachyos						*Ludwigia octovalvis					
*Cyperus odoratus						*Ludwigia peruviana	1	1	1		
*Cyperus surinamensis						*Ludwigia repens					
Cyrtilla racemiflora						*Ludwigia					
Decodon verticillatus						Luziola fluitans (Hydrochloa carolinensis)					
Diodia virginiana						Lyonia lucida					
*Echinochloa crus-galli						Magnolia virginiana				1	
*Echinochloa muricatum						Mayaca fluviatilis					
Echinochloa walteri						Melaleuca quinquenervia					
Eclipta prostrata (E. alba)						Micranthemum glomeratum					
Egeria densa						Micranthemum umbrosum					
Eichhornia crassipes	1	1	1	1		Mikania scandens					
*Eleocharis baldwinii						Mimosa pigra					
*Eleocharis						Myrica cerifera	1	1	1	1	
Eleocharis cellulosa						Cyperus maculatus	1	1	1	1	
Eleocharis equisetoides						Cyperus maculatus	1	1	1	1	
Eleocharis interstincta						Cyperus maculatus	1	1	1	1	
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium											
*Fuirena											
Fuirena scirpoidea											
Gordonia lasianthus											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site:					Date:						
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	Collected? (✓)
Myriophyllum aquaticum	1					Salix caroliniana					
*Myriophyllum heterophyllum						Salvinia minima	1	1		1	
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum						Sapium sebiferum					
Myriophyllum spicatum						Saururus cernuus					
*Najas filifolia						Schinus terebinthifolius					
*Najas guadalupensis		1	1	1		*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani (Scirpus validus)					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)					
Nuphar sp.	1	1	1	1		Scirpus cyperinus					
Nymphaea odorata						*Sesbania					
Nymphoides aquatica						Solidago sp.					
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrrhiza					
Osmunda regalis						Taxodium sp.				1	
Panicum hemitomon	1	1	1	1		Thalia geniculata					
Panicum repens	1	1	1	1		Thelypteris palustris	1	1	1	1	
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp.	1	1			
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				1	
Pistia stratioides	1	1				*Utricularia cornuta					
Pluchea sp.						*Utricularia radiata					
*Polygonum glabrum (densiflorum)						Vallisneria americana	1	1	1	1	
*Polygonum hydropiperoides						*Websteria confervoides					
*Polygonum punctatum						Wedelia trilobata (Sphagneticola trilobata)	1			1	
*Polygonum						Wolffiella spp.					
Pontederia cordata						Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)											
Proserpinaca pectinata						Between 2 Ferns					
*Rhexia						Thelypteris Kunthii					
*Rhynchospora corniculata						Blattaria hermanni					
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto minor											
Saccollepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											