



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:		Clark Lake @ NW end of Southern Quarter				Sample Date:		8/30/2022	
WIN / Field ID:	G3SW0105	ORG ID:	21FLTPA	ENR:	-	Latitude:	27.2685		
County:	Sarasota	WBID:	1971	LAKE		Longitude:	-82.4948		
Receiving Body of Water:						-	RQ-	2022-08-22-10	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Paswater		x			x
Megan Maloney	x		x	x	

Sampling Equipment			
x	Sample Container	Carboy	
	Dipper	Van Dorn	
	Syringe	Pole	
Syringe Lot# 1145497		Filter Lot# 17232873	
Secchi Equipment ID:		Secchi #1	
Collection Method			
	Wading	x	Canoe/Kayak
	From Shore		Electric Motor
			Gasoline Motor
Depth Measured With Sonar			

Water Level:	Normal
Flow:	NA
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	Leia

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 (PPT)
EST	1020	1	0.3	0.51	6.8	29.8	6.41	0.2	1041	0.51

Biological Samples Collected:

LVS

SBIO Visit ID:

85370

HA ID:

RPS ID:

Macrophyte ID:

12260

LIMS Sample ID Entered

Into The Macrophyte Module:

2353171

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation				
				Type	Lot#	Expiration Date	pH Check	
Microbiology								
Chlorophyll	CHLSUITE-W			ICE				
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE				
	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE				
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE				
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	SA1308030	12/01/2022	H2SO4 pH<2
Metals	W-ICPMS	W-ICP		ICE	HNO3**	NA1105100	06/07/2023	HNO3 pH<2
Organics (LC)	W-E8321-DI	W-E8321-MS	W-CARB-AA**	ICE	MCAA***	128343	2/4/23	
Macroinvertebrates								
Organics (GC)	W-CT-CI-R	W-PCL-TQ-R	W-PCB-TQ-R	Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise ***5 ml MCAA (Monochloroacetic Acid Buffer Solution)			
Molecular	W-PSNP-TQ	W-TR-SQ-R						
Periphyton								
Phytoplankton								
BOD								
Other(s)								
Field Comments:								
Comments on COC:								
Relinquish Date:	08/30/2022	Signature:						

LIMS EVENT ID: SW-DIST-2022-08-31-02

WIN Import ID: 36934

Enter Field Parameters, Verify Station ID In LIMS DMT: MM 8/31/2022

QC Station ID, Field Parameters In LIMS DMT: DM 9/1/2022

Save Field Sheets on Network: MM 12/01/2022 (Initials/Date)

Migrate Data to WIN: MM 12/01/2022 (Initials/Date)

(Initials/Date)

(Initials/Date)



Site Name: Clark Lake @ NW Lobe

COUNTY: Sarasota

LAKE SIZE: small

WBID: 1971

MACROPHYTE ID: _____

RQ-2022-08-22-10

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☒ 90 Commercial ☒ 10 Industrial ☐ Other (Specify) ☐				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI:	
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution : ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy				Artificially Impounded ☒ Yes ☐ No	
STORMWATER INPUTS <u>11</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 14 13 12 <u>11</u>	
LAKESIDE ALTERATIONS <u>5</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) 15 14 13 12 11	
BUFFER ZONE <u>2</u>		Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 16		89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 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	
				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	
				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 <u>2</u> 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>SA1308030</u> Exp. Date: <u>12/1/22</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High				Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____			
Meter Readings: Top: Depth (M) <u>0.3</u> Temp. (°C) <u>29.8</u> pH (SU) <u>6.41</u> D.O. (MG/L) <u>0.51</u> D.O. Sat. (%) <u>6.8</u> Cond. (UMHO/CM) <u>1041</u> Salinity (PPT) <u>0.51</u> Mid-Depth: _____ Bottom: _____				Water Surface Oils: ☐ None ☐ Sheen/Slick ☒ Glob ☐ Other _____			
Meter ID: <u>Leia</u>				Clarity: ☐ Clear ☒ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☐ Clear ☐ Tannic ☒ Green			
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Sand/Silt ☐ Organic smooth (muck)				Sample Taken? ☐ Yes ☒ No ☐ Vegetated ☒ Other (Specify): <u>rock</u>			
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				Sediment Odors: ☒ Normal ☐ Anaerobic ☐ Other (Specify): _____			
Weather Conditions: <u>cloudy</u>				Abundance: Absent Rare Common Abundant Periphyton ☐ ☒ ☐ ☐ Nuisance Plants ☐ ☐ ☐ ☒ Submersed Plants ☒ ☐ ☐ ☐ Exotic Apple Snails ☒ ☐ ☐ ☐			
SAMPLING TEAM: <u>Ben Paswater, Megan Maloney</u>				SIGNATURE: <u>Megan Maloney</u>		DATE: <u>8-30-2022</u>	



Site Name: Clark Lake @ NW Lobe

Waterbody: <u>Clark Lake</u>	County: <u>Savannah</u>
Signature: <u>[Signature]</u>	Date: <u>8-30-22</u>
required. *Genera that may require lab verification*	
Lake units sampled (circle one group):	
1, 4, 7, 10	2, 5, 8, 11
3, 6, 9, 12	

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.

SPECIES (A-F)	3	6	9	12	Collected? (✓)	SPECIES (G-L)	3	6	9	12	Collected? (✓)
Acer rubrum						Gordonia lasianthus					
Alternanthera philoxeroides	X		X			Habenaria repens					
Andropogon sp.				X		Hymenachne amplexicaulis					
Azolla filiculoides (A. caroliniana)						Hydrilla verticillata					
Baccharis sp.						Hydrocotyle sp.					
Bacopa caroliniana						Hygrophila polysperma					
Bacopa monnieri				X		*Hypericum fasciculatum					
Bidens laevis						*Hypericum hypericoides					
Bidens mitis						*Hypericum myrtifolium					
Blechnum serrulatum						Ilex cassine					
Boehmeria cylindrica	X	X	X			Ipomoea aquatica					
Brasenia schreberi						Ipomoea sagittata					
Cabomba caroliniana						Itea virginica					
Casuarina equisetifolia						Juncus effusus					
Centella asiatica						*Juncus marginatus					
Cephalanthus occidentalis						*Juncus megacephalus					
Ceratophyllum demersum						Juncus repens					
Chara sp.						*Juncus scirpoides					
Cladium jamaicense						Lachnanthes caroliniana					
Cliftonia monophylla						Leersia hexandra					
Colocasia esculenta						Landoltia punctata (Spirodela punctata)					
*Commelina						Lemna sp.					
Crinum americanum						Leucothoe racemosa (Eubotrys racemosa)					
*Cyperus alternifolius (C. involucratus)	X	X	X	X		Limnium spongia					
Cyperus articulatus						Limnophila sessiliflora					
Cyperus haspan						Liquidambar styraciflua					
*Cyperus lecontei						*Ludwigia arcuata					
*Cyperus polystachyos						*Ludwigia leptocarpa					
*Cyperus odoratus	X		X	X		*Ludwigia linearis					
*Cyperus surinamensis						*Ludwigia octovalvis	X				
Cyrilla racemiflora						*Ludwigia peruviana				X	
Decodon verticillatus				X		*Ludwigia repens					
Diodia virginiana				X		*Ludwigia					
*Echinochloa crus-galli				X	✓	Luziola fluitans (Hydrochloa carolinensis)					
*Echinochloa muricatum						Lyonia lucida					
Echinochloa walteri				X		Cyperus umbrosum				X	
Eclipta prostrata (E. alba)											
Egeria densa											
Eichhornia crassipes											
*Eleocharis baldwinii										X	X
*Eleocharis <u>geniculata</u>					✓	<u>white flower star grass</u>				X	X
Eleocharis cellulosa		X				<u>grass</u>					
Eleocharis equisetoides						<u>rhynchospora colorata</u>				X	X
Eleocharis interstincta		X									
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium				X							
*Fuirena				X							
Fuirena scirpoidea											

18

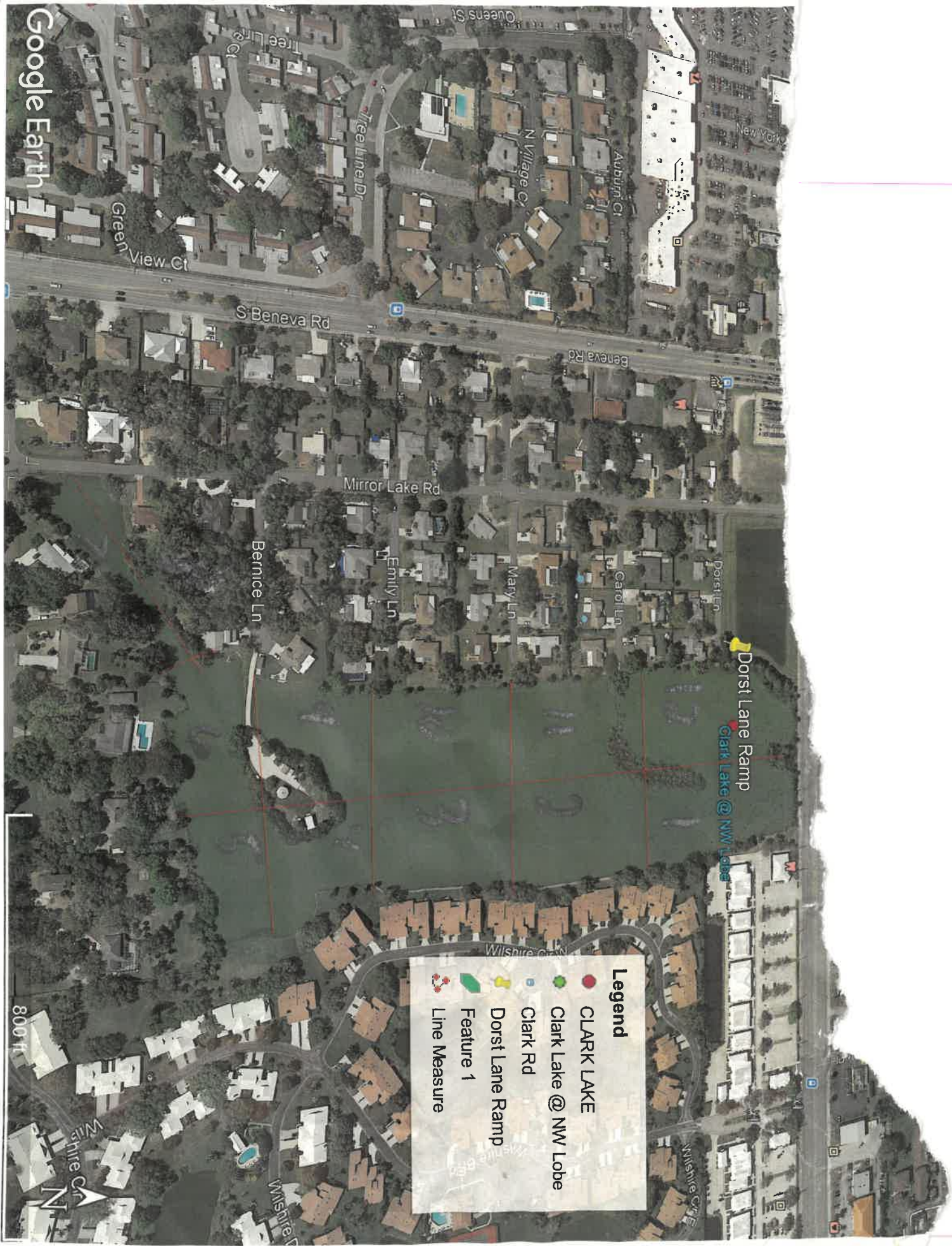


Site Name: **Clark Lake @ NW Lobe**

Date:

8/30/2020

Collector Name: Clark Lake @ NW Lobe				Date: 8/30/2020	Collected? (✓)	Collected? (✓)
SPECIES (M-P)					SPECIES (R-Z)	
Magnolia virginiana					*Rhexia	
Mayaca fluviatilis					*Rhynchospora corniculata	
Melaleuca quinquenervia					*Rhynchospora inundata	
Micranthemum glomeratum					Rhynchospora tracyi	
Micranthemum umbrosum					Ricciocarpus natans	
Mikania scandens	X	X		X	Sabal palmetto	X
Mimosa pigra					Sacciolepis striata	
Myrica cerifera			X	X	*Sagittaria filiformis	
Myriophyllum aquaticum					*Sagittaria graminea	
*Myriophyllum heterophyllum					*Sagittaria isoetiformis	
*Myriophyllum laxum					Sagittaria lancifolia	X
*Myriophyllum pinnatum					Sagittaria latifolia	
Myriophyllum spicatum					Salix caroliniana	X
*Najas filifolia					Salvinia minima	X
*Najas guadalupensis					Sambucus canadensis	
*Najas minor					Sapium sebiferum	
Nelumbo lutea					Saururus cernuus	
Nitella spp.					Schinus terebinthifolius	X
Nuphar sp.					*Schoenoplectus californicus (Cali bulrush)	D
Nymphaea odorata					*Schoenoplectus pungens (three square)	D
Nymphoides aquatica					*Schoenoplectus tabernaemontani (softstem)	D
Nyssa sylvatica var. biflora					Scirpus cubensis (Oxycaryon cubense)	
Orontium aquaticum					Scirpus cyperinus	
Osmunda cinnamomea					*Sesbania	X
Osmunda regalis					Solidago sp.	
Panicum hemitomon	X				Sparganium americanum	
Panicum repens	D	X	X	D	Spartina bakeri	
Paspalidium geminatum					Sphagneticola trilobata (Wedelia)	X
*Paspalum repens					Spirodela polyrhiza	
Paspalum urvillei					Taxodium sp.	X
Peltandra sp.					Thalia geniculata	
Persea sp.					Thelypteris palustris	
Pennisetum purpureum					Triadenum virginicum	
Phragmites australis					Typha sp.	X
Pinus elliotii					Urochloa mutica (Brachiaria mutica)	X
Pistia stratioides					*Utricularia gibba (U. biflora)	
Pluchea sp.				X	*Utricularia floridana	
*Polygonum glabrum (densiflorum)					*Utricularia foliosa	
*Polygonum hydropiperoides					*Utricularia inflata	
*Polygonum punctatum					*Utricularia purpurea	
*Polygonum sp.					*Utricularia cornuta	
Pontederia cordata		X			*Utricularia radiata	
*Potamogeton diversifolius					Vallisneria americana	
*Potamogeton illinoensis					*Websteria confervoides	
*Potamogeton pusillus					Wolffiella spp.	
*Potamogeton pectinatus					Woodwardia virginica	
Proserpinaca pectinata					Xyris sp.	
					Zizania aquatica	
					Zizaniopsis milacea	



Google Earth

Legend

- CLARK LAKE
- Clark Lake @ NW Lobe
- Dorst Lane Ramp
- Feature 1
- Line Measure

800 ft

