

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:	CLEAR LAKE NEAR CENTER				Sample Date:	6/26/2023	
WIN / Field ID:	G1CE0129	ORG ID:	21FLCEN	ENR:	-		
County:	LAKE	WBID:	2864A	LAKE	Latitude:	28.604041	
Receiving Body of Water:	-				Longitude:	-81.787241	
					RQ-	2023-05-15-20	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Denver Bourassa		x		x	x
Terry Riordan	x		x		

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
x	Syringe		Pole
Syringe Lot# 2327923		Filter Lot# 17769663	
Secchi Equipment ID:		Light	
Collection Method			
	Wading	x	Canoe/Kayak
	From Shore		Electric Motor
			Gasoline Motor
Depth Measured With		Secchi	

Water Level:	Normal
Flow:	NA
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	Shrimp Trap
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	1230	2.7	0.3	6.86	91.8	30.5	6.71	2	89.9	0.04
	1236		2	5.8	74.5	28.2	6.67		89.3	0.04
	1238		2.2	5.57	71	28	6.58		89.1	0.04

Biological Samples Collected: None

SBIO Visit ID: 87428 HA ID: RPS ID: Macrophyte ID: 12509 LIMS Sample ID In The Macrophyte Module: 2419812

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#:2327923; Filter Lot#:17769663		
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	SA3013020	01/25/2024
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA2230040	09/01/2023
Organics (LC)	W-E8321-DI	W-E8321-MS		Ice	MCAA***		
Macroinvertebrates							
Organics (GC)	W-PSNP-TQ	W-TR-SQ-R		Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise		
Molecular							
Periphyton							
Phytoplankton							
BOD							
DOC							
Other(s)							
Field Comments:	90 partly cloudy						
Comments on COC:							
Relinquish Date:	06/26/2023	Signature:					

LIMS EVENT ID: CEN-DIST-2023-06-23-01

WIN Import ID: 41943

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 7/27/23

QC Station ID, Field Parameters In LIMS DMT: VLS 8/2/23

Save Field Sheets on Network: KWM 8/3/23 (Initials/Date)

Migrate Data to WIN: KWM 8/3/23 (Initials/Date)

(Initials/Date)

(Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 28.604041
 COUNTY: Lake STORET #: _____ LONGITUDE: -81.787241
 DATE: 6/26/23 TIME: 12:30 SAMPLING AGENCY: CEROC
 SITE NAME: Clear Lake Center WBID: 2864A
 FIELD ID/NAME: CEC 72 GICE0129 LAKE SIZE: 23 Aa RQ: 2023-05-15-20

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	Industrial	Other (Specify)														
<u>15</u>	<u>70</u>	<u>10</u>	<u>5</u>																		
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										
<u>19</u>		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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)										
<u>17</u>		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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										
<u>14</u>		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	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>SA 3013020</u> Exp. Date: <u>1/25/24</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High								Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____ Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ 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>30.5</u> <u>6.71</u> <u>6.86</u> <u>91.8</u> <u>89.9</u> <u>0.04</u> Mid-Depth: <u>2.0</u> <u>28.2</u> <u>6.67</u> <u>5.8</u> <u>74.5</u> <u>89.3</u> <u>0.04</u> Bottom: <u>2.2</u> <u>28.0</u> <u>6.58</u> <u>5.57</u> <u>71.0</u> <u>89.1</u> <u>0.04</u>								Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☐ Clear ☒ Tannic ☐ Green SECCHI (M) <u>2.0</u> Total Station Depth (M) <u>2.7</u> VOB ☐							
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): <u>NA</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								Abundance: Absent Rare Common Abundant Periphyton ☐ ☒ ☐ ☐ Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☐ ☐ ☒ Exotic Apple Snails ☒ ☐ ☐ ☐							
Additional Notes: _____															
Weather Conditions: <u>90's pthly cloudy</u>															
SAMPLING TEAM: <u>Terry R. Jordan, Denver Bourassa</u>								SIGNATURE: <u>[Signature]</u>				DATE: <u>6/26/23</u>			

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

6/26/23

Waterbody: <u>Clear Lake</u>	County: <u>Lake</u>	Date: <u>6/26/23</u>									
Analyst: <u>D. Baxasse T. Riordan</u>	Signature: <u>[Signature]</u>	WIN STORET: <u>GICE0129</u>									
Except where noted as "sp." species level identification required. *Genera that may require lab verification* Plants in bold = FLEPPC invasive exotic.		Lake units sampled (circle one group): 1, 4, 7, 10 2, 5, 8, 11 3, 6, 9, 12									
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	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					
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					
Cyrtia racemiflora						*Ludwigia suffruticosa					
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 vivi para						Myrica cerifera					
Eleocharis cellulosa						Erechtites					
Eleocharis equisetoides						Eleocharis elongata					
Eleocharis interstincta						Erechtites hieracifolius					
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium											
*Fuirena											
Fuirena scirpoidea											
Gordonia lasianthus											

6/26/23

Clear Lake

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Clear Lake</u>		Date: <u>6/26/23</u>	
SPECIES	1 4 7 10 Collected? (✓)	SPECIES	1 4 7 10 Collected? (✓)
Myriophyllum aquaticum		Salix caroliniana	
*Myriophyllum heterophyllum		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)		Ampelopsis? K	
Proserpinaca pectinata		Sabatia sp. K	
*Rhexia		Nekemias arborea	
*Rhynchospora corniculata		(prev. Ampelopsis arborea)	
*Rhynchospora inundata			
Rhynchospora tracyi			
Ricciocarpus natans			
Sabal palmetto			
Sacciolepis striata			
*Sagittaria filiformis			
*Sagittaria graminea			
*Sagittaria isoetiformis			
Sagittaria lancifolia			
Sagittaria latifolia			
Mitella sessilifolia			

LVI Map for Clear Lake, WBID 2864A

