



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name:	LAKE CONWAY CENTER OF LAKE				Sample Date:	5/4/2023	
WIN / Field ID:	G4CE0221	ORG ID:	21FLCEN	ENR:	-	Latitude:	28.47278
County:	ORANGE	WBID:	3168A	LAKE		Longitude:	-81.34936
Receiving Body of Water:	-				RQ-	2023-05-01-24	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Katie March		x		x	x
Jessie Atchison	x		x		

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
	Syringe		Pole
	Syringe Lot#	2298556	Filter Lot#
			17769663
	Secchi Equipment ID:	Knothead	
Collection Method			
	Wading		Canoe/Kayak
	From Shore		Electric Motor
		x	Gasoline Motor
	Depth Measured With	Secchi	

Water Level:	Normal
Flow:	NA
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	Craw Daddy
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	1237	6.1	0.3	8.47	103	25.3	7.7	3.4	224.2	0.11
	1246		2	8.46	101.9	24.7	7.71		223.9	0.11
	1250		5.6	8.65	103.8	24.5	7.81		223.8	0.11

Biological Samples Collected: None

SBIO Visit ID: 86647 HA ID: RPS ID: Macrophyte ID: 12430 LIMS Sample ID Entered Into The Macrophyte Module: 2406067

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#:2298556; Filter Lot#:17769663	
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	SA3013020	1/25/24
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA2230040	9/01/22
Organics (LC)	W-E8321-DI	W-E8321-MS					
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:	80 and sunny						
Comments on COC:							
Relinquish Date:	05/04/2023	Signature:					

LIMS EVENT ID: CEN-DIST-2023-05-05-02

WIN Import ID: 40836

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 5/16/23

QC Station ID, Field Parameters In LIMS DMT: VLS 5/26/23

Save Field Sheets on Network: KWM 6/29/23 (Initials/Date)

Migrate Data to WIN: KWM 6/29/23 (Initials/Date)

(Initials/Date)

(Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____
 COUNTY: Orange
 DATE: 5/4/23
 SITE NAME: LAKE CONWAY
 FIELD ID/NAME: LAKE CONWAY, Center of lake

MACROPHYTE ID: _____
 STORET #: 94CE0001
 TIME: 12:30 PM

LATITUDE: 28.47278
 LONGITUDE: -81.34936
 SAMPLING AGENCY: DEP
 WBID: 31168A
 LAKE SIZE: large RQ: 2023-05-01-24

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) ☐

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

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

Artificially Impounded

☐ Yes ☒ No

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)

LDI:

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

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

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)

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

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 # _____ Exp. Date: _____
 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: 0.3 25.3 7.7 8.47 103 224.2 0.11
 Mid-Depth: 2.0 24.7 7.71 8.46 101.9 223.9 0.11
 Bottom: 5.6 24.5 7.81 8.65 103.8 223.8 0.11

Clarity:

☒ Clear

Color:

☒ Clear

☐ Opaque ☐ Turbid
☐ Slightly Turbid

☐ Tannic ☐ Green

SECCHI (M)

3.4

Total Station Depth (M)

VOB

☐

6.1

Meter ID: _____

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

☐ Other (Specify): _____

☐ 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:

Native & invasive Apple snails noted.

Weather Conditions :

80 F Sunny

SAMPLING TEAM:

CE ROC

J. Atchinson

K. March

SIGNATURE:

[Signature]

DATE:

5/4/23

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Conway</u>		County: <u>Orange</u>		Date: <u>5/4/23</u>							
Analyst: <u>Katie Moran</u>		Signature: _____		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): 1, 4, 7, 10 2, 5, 8, 11 3, 6, 9, 12							
SPECIES	1	4	7	10	Collected? (✓)	SPECIES	1	4	7	10	Collected? (✓)
Acer rubrum		✓	✓	✓		Fuirena scirpoides	✓	✓	✓	✓	
Alternanthera philoxeroides				✓		Gordonia lasianthus					
Amaranthus australis						Habenaria repens					
Andropogon sp.						Hibiscus coccineus					
Azolla filiculoides (A. caroliniana)						Hibiscus grandiflora					
Baccharis sp.						Hydrilla verticillata				✓	
Bacopa caroliniana						Hydrocotyle sp.	✓	✓	✓	✓	
Bacopa monnieri						Hygrophila polysperma					
Bidens alba						Hymenocallis sp.					
Bidens laevis						*Hypericum fasciculatum					
Bidens mitis						*Hypericum hypericoides					
Blechnum serrulatum						*Hypericum myrtifolium					
Boehmeria cylindrica						Ilex cassine					
Brasenia schreberi						Ipomoea aquatica					
Cabomba caroliniana						Ipomoea sagittata					
Canna						Itea virginica					
Centella asiatica						Juncus effusus					
Cephalanthus occidentalis						*Juncus marginatus					
Ceratophyllum demersum						*Juncus megacephalus					
Chara sp.						Juncus repens					
Cladium jamaicense						*Juncus scirpoides					
Colocasia esculenta				✓		Lachnanthes caroliniana					
*Commelina						Leersia hexandra					
Crinum americanum						Landoltia punctata (Spirodela punctata)					
*Cyperus alternifolius (C. involucratus)						Lemna sp.					
Cyperus articulatus						Leucothoe racemosa (Eubotrys racemosa)					
Cyperus haspan						Limnium spongia					
*Cyperus lecontei						Limnophila sessiliflora					
*Cyperus polystachyos				✓		Liquidambar styraciflua					
*Cyperus odoratus						*Ludwigia arcuata					
*Cyperus surinamensis						*Ludwigia grandiflora					
Cyrilla racemiflora						*Ludwigia hexapetala					
Decodon verticillatus						*Ludwigia leptocarpa					✓
Diodia virginiana						Ludwigia (native)					
*Echinochloa crus-galli						*Ludwigia octovalvis			✓	✓	
*Echinochloa muricatum						*Ludwigia peruviana			✓	✓	
Echinochloa walteri						*Ludwigia repens					
Eclipta prostrata (E. alba)						Ludwigia suffruticosa					
Eichhornia crassipes						Luziola fluitans (Hydrochloa carolinensis)					
*Eleocharis						Magnolia virginiana					
Eleocharis cellulosa						Mayaca fluviatilis					
*Eleocharis elongata						Melaleuca quinquenervia					✓
Eleocharis equisetoides						Micranthemum glomeratum					
Eleocharis interstincta						Micranthemum umbrosum					
Eleocharis submersed viviparous						Mikania scandens	✓			✓	
*Eriocaulon compressum						Mimosa pigra					
*Eriocaulon decangulare						Myrica cerifera			✓	✓	
Eupatorium capillifolium											
Fraxinus											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: LAKE CONWAY						Date: 5/4/23					
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 mexicana						*Sesbania					
Nymphaea odorata	✓	✓	✓	✓		Solidago sp.					
Nymphoides aquatica						Sparganium americanum					
Nyssa sylvatica var. biflora						Spartina bakeri					
Orontium aquaticum						Spirodela polyrhiza					
Osmunda cinnamomea						Taxodium sp.	✓	✓		✓	
Osmunda regalis						Thalia geniculata					
Panicum hemitomon	✓	✓	✓			Thelypteris interrupta					
Panicum repens	✓	✓	✓	✓		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp.	✓	✓	✓		
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.						*Utricularia foliosa					
Persea sp.						*Utricularia gibba (U. biflora)					
Pennisetum purpureum						*Utricularia inflata					
Phragmites australis						*Utricularia purpurea					
Pinus elliotii						*Utricularia radiata					
Pistia stratioides						*Utricularia resupinata					
Pluchea sp.						Vallisneria americana	✓	✓	✓	✓	
*Polygonum glabrum (densiflorum)						Vigna luteola					
Polygonum hirsutum						Vitis sp.					
*Polygonum hydropiperoides						*Websteria confervoides					
*Polygonum punctatum (collected)				✓	✓	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)						<i>Potamogeton sp. = collected</i>				✓	✓
Proserpinaca pectinata						<i>densiflora</i>					
*Rhexia											
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora nitens											
Ricciocarpus natans											
Sabal palmetto	✓	✓	✓								
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis	✓	✓	✓	✓							
Sagittaria lancifolia	✓	✓	✓	✓							
Sagittaria latifolia											

LVI Map for WBID 3168A, Lake Conway

