



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN FIELD SHEET

January 2022

Meter Passed End

of Day CCV

Yes

No

WIN Station Name: Lake Marie SE of Center

Date: 8/3/2022

WIN/Field ID: G4CE0227

WBID: 1532B

ENR: -

Latitude: 28.01828

County: Polk

Org ID: 21FLCEN

Longitude: -81.60664

Receiving Body of Water: -

RQ: 2022-08-01-38

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Elizabeth Bates		x		x	x
☒	Katie March	x		x		
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☐ Pole
Depth measured with: Secchi	
Secchi Equipment ID: Knothead	
Collection Method	
☒ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# CRAW DADDY	
Photos: YES		Flow: NA		Tide:		Tide Times: High: Low:	
Biological Samples Collected:		☒ None	☐ HA	☐ SCI	☐ RPS	☐ Algae ID	☐ LVS ☒ LVI Other:
SBIO ID Numbers: 85165		MACROPHYTE: 12270					2346288
Notes:							

Duplicate Sample

Time Zone: EST	Time:	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone: EST	Time: 1230	Field ID: FB_08032022	(Blank Type_DDMMYYYY)
DI Source: Lab sink		Location: Boat ramp	
DI Type: Field Blank		Equipment ID:	
DI Container (Name/ID): #6	DI Container Type: Carboy		

LIMS EVENT ID: CEN-DIST-2022-08-04-01

WIN Import ID: 35487

Enter Field Parameters, Verify Station ID In LIMS DMT: EB 8/11/22

QC Station ID, Field Parameters In LIMS DMT: KWM 8/29/22

(Initials/Date)

(Initials/Date)

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

KWM 9/20/22

(Initials/Date)

Verify Data In WIN:

(Initials/Date)



RQ-2022-08-01-38
Customer: CEN-DIST
Project ID: STRATEGIC MONITORING PLAN

Collected By: Elizabeth Bates, Katie March
Field Report Prepared By: Elizabeth Bates
Sampling Agency: FDEP

Place Label Here WIN ID/Field ID: G4CE0227 Location: Lake Marie SE of Center							Comments:			
Matrix: Fresh							(Check one) ☒ GRAB ☐ COMPOSITE			
Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT _h)
	12050 EST	5.35	72.4	31.3	6.91	0.3	2 ☐ VOB (S)	6.3	147.1	0.07
8/3/2022	1209	5.21	69.4	30.4	6.8	2	Central Lab please use top row for login purposes		147.2	0.07
	1212 EST	0.25	4.2	23.9	6.45	5.8			255.7	0.12
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)		☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☒ H2SO4*		☒ <2	1	A
		Lot #	132683		Exp:	12/18/22				
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ HNO3*		☒ <2	1	A
		Lot #	NA1105100		Exp:	6/7/23				
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A
		Filter Lot #	17413308		Syringe Lot#	1335260				
Biochemical Oxygen Demand (BP-1L)		BODTEST OV-BODUNIN				ICE				
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice			1	A
Physical/Aggregate (Marine) (P-1L)		☐ Alkalinity / W-F / W-TSS / TURBIDITY				☐ Ice				
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC		Formalin Lot #		☐ Formalin				
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☐ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab				☐ Ice				
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD				☐ Ice				
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice		MCAA Exp. Date		
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI ☒ WE8321-MS		☒ W-PSNP-TQ		☐ W-CT-CI-R		MCAA Lot#	5	A
		☐ W-PCB-TQ-R		☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)		☒ W-TR-SQ-R				
Phytoplankton/Periphyton		☐ W-PCB-TQ-R ☐ DTY-QN-C		☐ PKD-QN-BV		☐ Ice				
Name: Elizabeth Bates Katie March				Signature:				Date: 08/03/2022		

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



RQ- 2022-08-01-38

Collected By: Elizabeth Bates, Katie March

Customer: WQAP

Field Report Prepared By: Elizabeth Bates, Katie March

Project ID: SMP

Sampling Agency: FDEP

BLANK



Field ID: FB 08032022

Comments:

Matrix: Field Blank

(Check one) ☐ COMPOSITE ☒ GRAB

Date

Time

DI Source: Lab sink

8/3/2022

1230

EST

Parameter Suite	Parameter Methods	Preservation	pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H2SO4	☐ <2		
	Lot # _____ Exp: _____				
Metals (P-500ML)	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3	☐ <2		
	Lot # _____ Exp: _____				
Filtered Nutrients (P125ML)	☐ W-PO4-F Filter ☐ Field Filtered 0.45 µm	☐ Ice			
	Filter Lot # _____				
	Syringe Lot # _____				
Physical/Aggregate (Fresh) (P-1L)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-IC / TDS	☐ Ice			
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice	MCAA Exp. Date _____		
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☒ W-PSNP-TQ ☐ W-CT-CI-R	☒ Ice	MCAA Lot# _____	2	B
	☐ W-PCL-TQ-R ☐ W-CARB-AA ☒ W-TR-SQ-R				
	☐ W-PCB-TQ-R (5 ml of MCAA** Buffer Solution)				
Name: Elizabeth Bates Katie March		Signature:		Date: 08/03/2022	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: _____
COUNTY: Polk STORET #: 64CE0227 LONGITUDE: _____
DATE: 8/3/22 TIME: _____ SAMPLING AGENCY: _____
SITE NAME: Lake Marie WBID: _____
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	Industrial	Other (Specify)														
		<u>15</u>	<u>10</u>	<u>75</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				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>11</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>10</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>10</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 ☐ 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 _____									
Meter Readings: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: _____ Mid-Depth: _____ Bottom: _____										Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____									
Meter ID: _____										Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☐ Clear ☒ Tannic ☐ Green									
Sediment Type: (may check more than one) ☐ Sandy ☒ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ 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 ☐ ☒ ☐ ☐									
Weather Conditions :										Additional Notes: <u>Public park around lake. Not cultivated veg. but mowed very close to lake</u>									
SAMPLING TEAM: <u>Liz Bates, Katie Mauch</u>										SIGNATURE: <u>KMauch</u>									
DATE: <u>8/3/22</u>																			

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Marie</u>		County: <u>Polk</u>		Date: <u>8/3/22</u>							
Analyst: <u>Katie March, Liz Bates</u>		Signature: <u>K March</u>		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 <u>2, 5, 8, 11</u> 3, 6, 9, 12							
SPECIES	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	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 <u>balhwinii</u>	/			/		Magnolia virginiana					
Eleocharis cellulosa				/		Mayaca fluviatilis					
*Eleocharis elongata	/	/		/		Melaleuca quinquenervia					
Eleocharis equisetoides				/		Micranthemum glomeratum					
Eleocharis interstincta				/		Micranthemum umbrosum					
Eleocharis submersed viviparus				/		Mikania scandens					
*Eriocaulon compressum				/		Mimosa pigra					
*Eriocaulon decangulare				/		Myrica cerifera					
Eupatorium capillifolium	/			/							
Fraxinus											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site:					Date:					
SPECIES	2	5	8	11	Collected? (✓)	SPECIES				Collected? (✓)
Myriophyllum aquaticum						Salix caroliniana				
*Myriophyllum heterophyllum						Salvinia minima				
*Myriophyllum laxum						Sambucus canadensis				
*Myriophyllum pinnatum						Sagittaria arifera				
Myriophyllum spicatum						Saururus cernuus				
*Najas filifolia						Scheuchzeria palustris				
*Najas guadalupensis						*Scheuchzeria palustris				
*Najas minor						*Scheuchzeria palustris				
Nelumbo lutea						*Scheuchzeria palustris (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 polyrrhiza				
Osmunda cinnamomea						Taxodium sp.				
Osmunda regalis						Thalia geniculata				
Panicum hemitomon						Thelypteris interrupta				
Panicum repens						Thelypteris palustris				
Paspalum 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						Wedelia trilobata (Sphagneticola trilobata)				
*Polygonum						Wolffia spp.				
Pontederia cordata						Woodwardia virginica				
*Potamogeton diversifolius						Xyris sp.				
*Potamogeton illinoensis						Zizania aquatica				
*Potamogeton pusillus						Zizaniopsis milacea				
*Potamogeton pectinatus (Stuckenia pectinatus)						<i>Phyla nodiflora</i>				
Proserpinaca pectinata										
*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 1532B LAKE MARIE

