FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN FIELD SHEET

January 2022

Meter Passed End of Day CCV: (Yes) / No

WIN Station Name: Lake Bonny @ Center **Date:** 5/11/2022

WIN/Field ID: G3SW0077 **WBID:** 1497E **ENR:** - **Latitude:** 28.03825

County: POLK **Org ID:** 21FLTPA **Longitude:** -81.92446

Receiving Body of Water: - **RQ-** 2022-05-09-38

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

Sampling Equipment

- [x] Sample Container
- [ ] Dipper
- [ ] Syringe
- [ ] Carboy
- [ ] Van Dorn
- [ ] Pole

Depth measured with: Sonar

Secchi Equipment ID: Secchi #1

Collection Method

- [ ] Wading
- [ ] From Shore
- [ ] Other
- [ ] Canoe/Kayak
- [ ] Electric Motor
- [x] Gasoline Motor

Water Level: [x] Normal [ ] Low [ ] High [ ] Dry [ ] Pooled [ ] Flooded

Meter ID# SWD

Photos: YES **Flow:** NA **Tide:**

Tide Times: High: Low:

Biological Samples Collected: [x] None [ ] HA [ ] SCI [ ] RPS [ ] Algae ID [ ] LVS [ ] LVI Other:

SBIO ID Numbers: Visit ID: 84213 LVI: 12143

Notes:

SUNNY AND WINDY

Duplicate Sample

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

WIN DMT Activity ID:

Blank

Time Zone: **Time:** **Field ID:** (Blank Type_DDMMYYYY)

DI Source: **Location:**

DI Type: **Equipment ID:**

DI Container (Name/ID): **DI Container Type:**

LIMS EVENT ID: 2022-05-12-01 **WIN Import ID:** 34621

Enter Field Parameters, Verify Station ID In LIMS DMT: MM 5/13/2022 (Initials/Date) **QC Station ID, Field Parameters In LIMS DMT:** KG 5/24/2022 (Initials/Date)

Scan/Save Field Sheets NA 08/11/2022 (Initials/Date) **Migrate Data to WIN:** NA 08/11/2022 (Initials/Date) **Verify Data In WIN:** NA 08/11/2022 (Initials/Date)

RQ-2022-05-09-38
Customer: SW-DIST
Project ID: STRATEGIC MONITORING PLAN

Collected By: Megan Maloney, Ben Paswater
Field Report Prepared By: Megan Maloney
Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID: G3SW0077

Location: Lake Bonny @ Center

Comments:

Matrix: Fresh

(Check one) ☒ GRAB ☐ COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C⁰)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPTh)
5/11/2022	1545 EST	10.46	131.2	26.9	9.43	0.3	0.5 ☐ VOB (S)	1.4	131.9	0.06
							Central Lab please use top row for login purposes			
	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	x ☐ Ice x ☐ H_2SO_4*	☐ <2	1	A
	Lot # SA1308030 **Exp:** 12/01/2022				
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☒ W-HARD	x ☐ Ice ☐ HNO_3*	x ☐ <2	1	A
	Lot # NA1105100 **Exp:** 11/16/2022				
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	x ☐ Ice		1	A
	Filter Lot # 17232873	**Syringe Lot #** 1145497			
BOD (BP-1L)	☐ OV-BODUNIN	☐ Ice			
Chlorophyll (BP-1L)	☒ CHLSUITE-W	x ☐ Ice		1	A
Physical/Aggregate (Fresh) (P-1L)	x ☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-TDS / W-SO4-IC / W-	x ☐ Ice		1	A
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates (PJ-2L)	☐ MI-FW-QLDC	☐ 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.** 2/4/2023		
Pesticides (BG-500ML) (BG-1L)	x W-E8321-DI x WE8321-MS x W-PSNP-TQ x W-CT-CL-R; x W-PCL-TQ-R x W-CARB-AA (5 ml of MCAA** Buffer Solution) W-TR-SQ-R; x W-PCB-TQ-R	☒ Ice	**MCAA Lot#** 128343	10	A
Phytoplankton/Periphyton	DTY-QN-C PKD-QN-C	☐ Ice			

Name: Megan Maloney, Ben Paswater

Signature: Megan Maloney

Date: 05/11/2022

*2.0 ml of Preservative used unless noted otherwise.
**MCAA: Monochloroacetic acid buffer solution

Field ID/WIN G3SW0077

Site Name: Lake Bonny @ Center

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: K County: Polk

Signature: Ben Penn Date: 14975

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 (A-F)	1	4	7	10	Collected? (√)	SPECIES (G-L)	1	4	7	10	Collected? (√)
Acer rubrum	√					Gordonia lasianthus					
Alternanthera philoxeroides		√				Habenaria repens					
Andropogon sp.						**Hymenachne amplexicaulis**					
Azolla filiculoides (A. caroliniana)						**Hydrilla verticillata**	√	√			
Baccharis sp.						Hydrocotyle sp.			√	√	
Bacopa caroliniana						**Hygrophila polysperma**					
Bacopa monnieri						*Hypericum fasciculatum					
Bidens laevis						*Hypericum hypericoides					
Bidens mitis						*Hypericum myrtifolium					
Blechnum serrulatum						Ilex cassine					
Boehmeria cylindrica						**Ipomoea aquatica**					
Brasenia schreberi						Ipomoea sagittata					
Cabomba caroliniana						Itea virginica					
Casuarina equisitifolia						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)						Limnobium spongia					
Cyperus articulatus						**Limnophila sessiliflora**					
Cyperus haspan						Liquidamber styraciflua					
*Cyperus lecontei						*Ludwigia arcuata					
*Cyperus polystachyos			√			*Ludwigia leptocarpa					
*Cyperus odoratus			√	X		*Ludwigia linearis					
*Cyperus surinamensis						*Ludwigia octovalvis					
Cyrilla racemiflora						***Ludwigia peruviana**	√				
Decodon verticillatus						*Ludwigia repens					
Diodia virginiana						*Ludwigia		√			
*Echinochloa crus-galli						Luziola fluitans (Hydrochloa carolinensis)					
*Echinochloa muricatum						Lyonia lucida					
Echinochloa walteri											
Eclipta prostrata (E. alba)											
Egeria densa											
Eichhornia crassipes											
*Eleocharis baldwinii											
*Eleocharis			√	X							
Eleocharis cellulosa			√	X							
Eleocharis equisetoides											
Eleocharis interstincta											
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium											
*Fuirena											
Fuirena scirpoidea											

7 = Val and Typha co-dominant

10 = Val ~~dominant~~ and P. Hemitomon co-dominant

Lake Bony

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site:

Date:

SPECIES (M-P)					Collected? (√)
Magnolia virginiana				✓	
Mayaca fluviatilis					
Melaleuca quinquenervia					
Micranthemum glomeratum					
Micranthemum umbrosum					
Mikania scandens					
Mimosa pigra					
Myrica cerifera				✓	
Myriophyllum aquaticum					
*Myriophyllum heterophyllum					
*Myriophyllum laxum					
*Myriophyllum pinnatum					
Myriophyllum spicatum					
*Najas filifolia					
*Najas guadalupensis					
*Najas minor					
Nelumbo lutea	✓	✓	✓	✓✓	
Nitella spp.	✓	✓			
Nuphar sp.	✓		✓	✓✓	
Nymphaea odorata	✓	✓	✓	✓	
Nymphoides aquatica	✓				
Nyssa sylvatica var. biflora					
Orontium aquaticum					
Osmunda cinnamomea					
Osmunda regalis					
Panicum hemitomon		✓	✓	✓✓	
Panicum repens		✓	✓	✓✓	
Paspalidium geminatum		✓			
*Paspalum repens					
Paspalum urvillei					
Peltandra sp.					
Persea sp.					
Pennisetum purpureum					
Phragmites australis					
Pinus elliottii				✓	
Pistia stratioides					
Pluchea sp.					
*Polygonum glabrum (densiflorum)			✓		
*Polygonum hydropiperoides					
*Polygonum punctatum					
*Polygonum sp.					
Pontederia cordata		✓	✓	✓✓	
*Potamogeton diversifolius					
*Potamogeton illinoensis					
*Potamogeton pusillus					
*Potamogeton pectinatus					
Proserpinaca pectinata					

SPECIES (R-Z)					Collected? (√)
*Rhexia					
*Rhynchospora corniculata					
*Rhynchospora inundata					
Rhynochospora tracyi					
Ricciocarpus natans					
Sabal palmetto				✓	
Sacciolepis striata	✓	✓	✓	✓	
*Sagittaria filiformis					
*Sagittaria graminea					
*Sagittaria isoetiformis					
Sagittaria lancifolia		✓			
Sagittaria latifolia					
Salix caroliniana	✓	✓	✓	✓	
Salvinia minima					
Sambucus canadensis				✓	
Sapium sebiferum					
Saururus cernuus					
Schinus terebinthifolius				✓	
*Schoenoplectus californicus (Cali bulrush)		✓	✓		
*Schoenoplectus pungens (three square)					
*Schoenoplectus tabernaemontani (softsteam)					
Scirpus cubensis (Oxycaryon cubense)					
Scirpus cyperinus					
*Sesbania					
Solidago sp.					
Sparganium americanum					
Spartina bakeri					
Sphagneticola trilobata (Wedelia)		✓			
Spirodela polyrhiza					
Taxodium sp.	✓	✓	✓	✓	
Thalia geniculata					
Thelypteris palustris					
Triadenum virginicum					
Typha sp.	✓			✓	
Urochloa mutica (Brachiaria mutica)					
*Utricularia gibba (U. biflora)					
*Utricularia floridana					
*Utricularia foliosa					
*Utricularia inflata					
*Utricularia purpurea					
*Utricularia cornuta					
*Utricularia radiata					
Vallisneria americana	✓	✓	✓	✓	
*Websteria confervoides					
Wolffiella spp.					
Woodwardia virginica					
Xyris sp.					
Zizania aquatica					
Zizaniopsis milacea					

4- Dominant Vall
1- Dominant typha

Field ID/WIN G3SW0077

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

Site Name: Lake Bonny @ Center

COUNTY: Polk
LAKE SIZE: Mid Sized
WBID: 1497 E
MACROPHYTE ID:

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)
20				70	10		

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)
LDI:
Land Use Source & Year:

Local Watershed Erosion (select one): ☐ None ☑ Slight ☐ Moderate ☐ Heavy
Local Watershed NPS Pollution: ☐ No evidence ☑ Slight ☐ Moderate ☐ Heavy

Artificially Impounded ☐ Yes ☑ No

STORMWATER INPUTS 8	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 6	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 10	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 ☑ pH<2 ☐ No
Color Sample Taken? ☑ Yes ☐ No Lot # 5A130S030 Exp. Date: 12/1/22
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	26.9	9.43	10.46	131.2	131.9	.06
Mid-Depth:							
Bottom :							

Meter ID: SWD

Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☑ Slightly Turbid
Color: ☐ Clear ☐ Tannic ☑ Green
SECCHI (M): 0.5
VOB ☐
Total Station Depth (M): 1.4

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

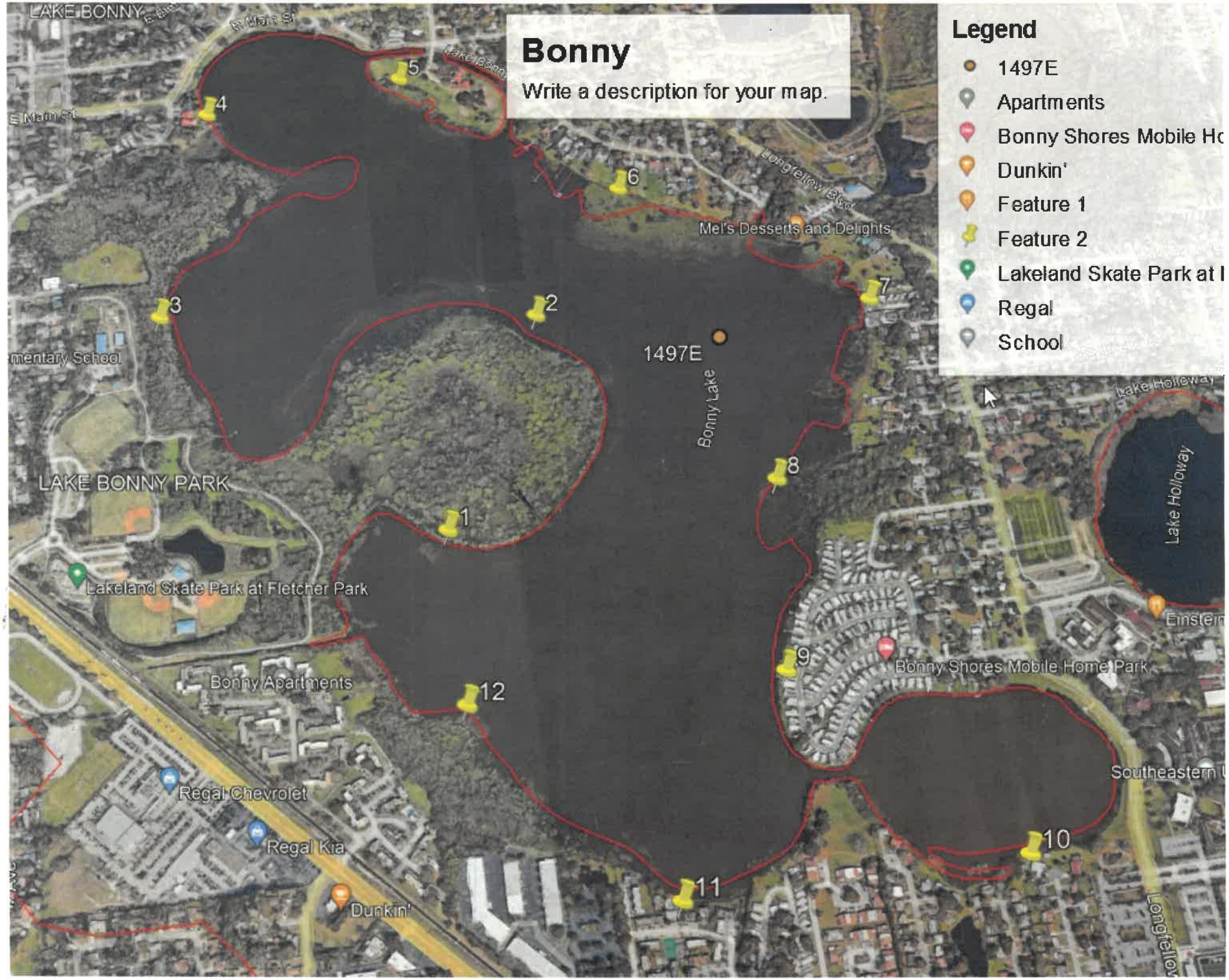
Abundance:

	Absent	Rare	Common	Abundant
Periphyton	☐	☐	☐	☑
Nuisance Plants	☐	☐	☑	☐
Submersed Plants	☐	☐	☐	☑
Exotic Apple Snails	☐	☐	☐	☑

Additional Notes:

Weather Conditions : ~ 90° Sunny

SAMPLING TEAM: Ben Pasvater, Megan Maloney
SIGNATURE: Ben Pasvater
DATE: 5/11/2022


Bonny
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Apartments
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Feature 2
Lakeland Skate Park at I
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LAKE BONNY
LAKE BONNY PARK
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Bonny Lake
Lake Holloway
Mel's Desserts and Delights
Lakeland Skate Park at Fletcher Park
Bonny Apartments
Bonny Shores Mobile Home Park
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Regal Kia
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