

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN FIELD SHEET

January 2022

Meter Passed End

of Day CCV

☒ Yes / No

WIN Station Name: Lake Bonnet @ Center

Date: 5/26/2022

WIN/Field ID: G2SW0118

WBID: 1537A

ENR:

Latitude: 28.04751

County: POLK

Org ID: 21FLTPA

Longitude: -81.97702

Receiving Body of Water: Hillsborough River

RQ- 2022-05-23-16

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Ben Paswater	x		x	x	x
☒	Devin Mathias		x			
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☐ Pole
Depth measured with: Secchi	
Secchi Equipment ID: Secchi #3	
Collection Method	
☐ Wading	☒ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# SWD	
Photos: No	Flow: FLOW			Tide:		Tide Times: High: Low:	
Biological Samples Collected:		☐ None	☐ HA	☐ SCI	☐ RPS	☐ Algae ID	☐ LVS ☒ LVI Other:
SBIO ID Numbers: Visit ID: 84264 LVI: 12161							
Notes: FLOWING OUT STAGE WEIR							

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: SW-DIST-2022-05-27-01	WIN Import ID: 33754
Enter Field Parameters, Verify Station ID In LIMS DMT: MM 5/31/2022	QC Station ID, Field Parameters In LIMS DMT: KG 06/21/2022
Scan/Save Field Sheets NA 08/08/2022	Migrate Data to WIN: 06/21/2022 NA
Verify Data In WIN: 06/21/2022 NA	



RQ-2022-05-23-16
Customer: SW-DIST
Project ID: STRATEGIC MONITORING PLAN

Collected By: Ben Paswater, Devin Mathias
Field Report Prepared By: Ben Paswater
Sampling Agency: FDEP

Place Label Here WIN ID/Field ID: G2SW0118 Location: Lake Bonnet @ 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)	
5/26/2022	1135 EST	9.37	120.6	28.4	8.58	0.3	0.4 ☐ VOB (S)	1.1	466.8	0.09	
	EST						Central Lab please use top row for login purposes				
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 #	SA1308030		Exp:	12/01/2022					
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☐ HNO3*		☒ <2	1	A	
		Lot #	NA1105100		Exp:	06/07/2022					
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☐ Ice			1	A	
		Filter Lot #	17232873			Syringe Lot #	1145497				
BOD (BP-1L)		☐ OV-BODUNIN				☐ Ice					
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A	
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-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					
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.			
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI		☒ WE8321-MS		☒ W-PSNP-TQ		☒ W-CT-CL-R		MCAA Lot#	
		☒ W-PCL-TQ-R		☒ W-CARB-AA (5 ml of MCAA** Buffer Solution)				☒ W-TR-SQ-R		128343	
		☒ W-PCB-TQ-R									
Phytoplankton/Periphyton				DTY-QN-C		PKD-QN-C		☐ Ice			
Name: Ben Paswater Devin Mathias					Signature:					Date: 05/26/2022	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



Site Name: Lake Bonnet @ Center

COUNTY: Polk

LAKE SIZE: Small

WBID: 1537A

MACROPHYTE ID:

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)			LDI:	
40		10		50						Land Use Source & Year:	
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy						Artificially Impounded ☒ Yes ☐ No					
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy											
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			
8		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)			
11		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			
11		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 _____					
Meter Readings: Top: Depth (M) 0.3 Temp. (°C) 28.4 pH (SU) 8.58 D.O. (MG/L) 9.37 D.O. Sat. (%) 120.4 Cond. (UMHO/CM) 466.8 Salinity (PPT) .09 Mid-Depth: _____ Bottom: _____						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Meter ID: JWD						Clarity: ☐ Clear ☒ 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): _____						SECCHI (M): .4 Total Station Depth (M): 1.1 VOB: ☐					
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: RA-2022-05-23-16 native prairie					
Weather Conditions: Hot Sunny w 90											
SAMPLING TEAM: Ben Paswater Devin Mathais						SIGNATURE: Ben Paswater			DATE: 5/26/2022		



Site Name: Lake Bonnet @ Center

Waterbody:

County:

Signature:

Date:

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

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	✓	✓	✓	✓		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 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)						Limnium spongia					
Cyperus articulatus						Limnophila sessiliflora					
Cyperus haspan			✓		✓	Liquidambar styraciflua	✓		✓	✓	
*Cyperus lecontei						*Ludwigia arcuata					
*Cyperus polystachyos						*Ludwigia leptocarpa					
*Cyperus odoratus				✓		*Ludwigia linearis					
*Cyperus surinamensis						*Ludwigia octovalvis	✓				
Cyrtilla racemiflora						*Ludwigia peruviana	✓	✓	✓	✓	
Decodon verticillatus						*Ludwigia repens					
Diodia virginiana						*Ludwigia					
*Echinochloa crus-galli						Luziola fluitans (Hydrochloa carolinensis)					
*Echinochloa muricatum						Lyonia lucida					
Echinochloa walteri						Elephant Grass		✓			
Eclipta prostrata (E. alba)						Paspalum Pennstemon purpureum					
Egeria densa											
Eichhornia crassipes	✓	✓	✓	✓							
*Eleocharis baldwinii				✓							
*Eleocharis											
Eleocharis cellulosa											
Eleocharis equisetoides											
Eleocharis interstincta											
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium	✓	✓									
*Fuirena				✓							
Fuirena scirpoidea											

9: Typha dom 3: L. peruviana dom 6: Typha dom 12: Typha dom



Site Name: Lake Bonnet @ Center

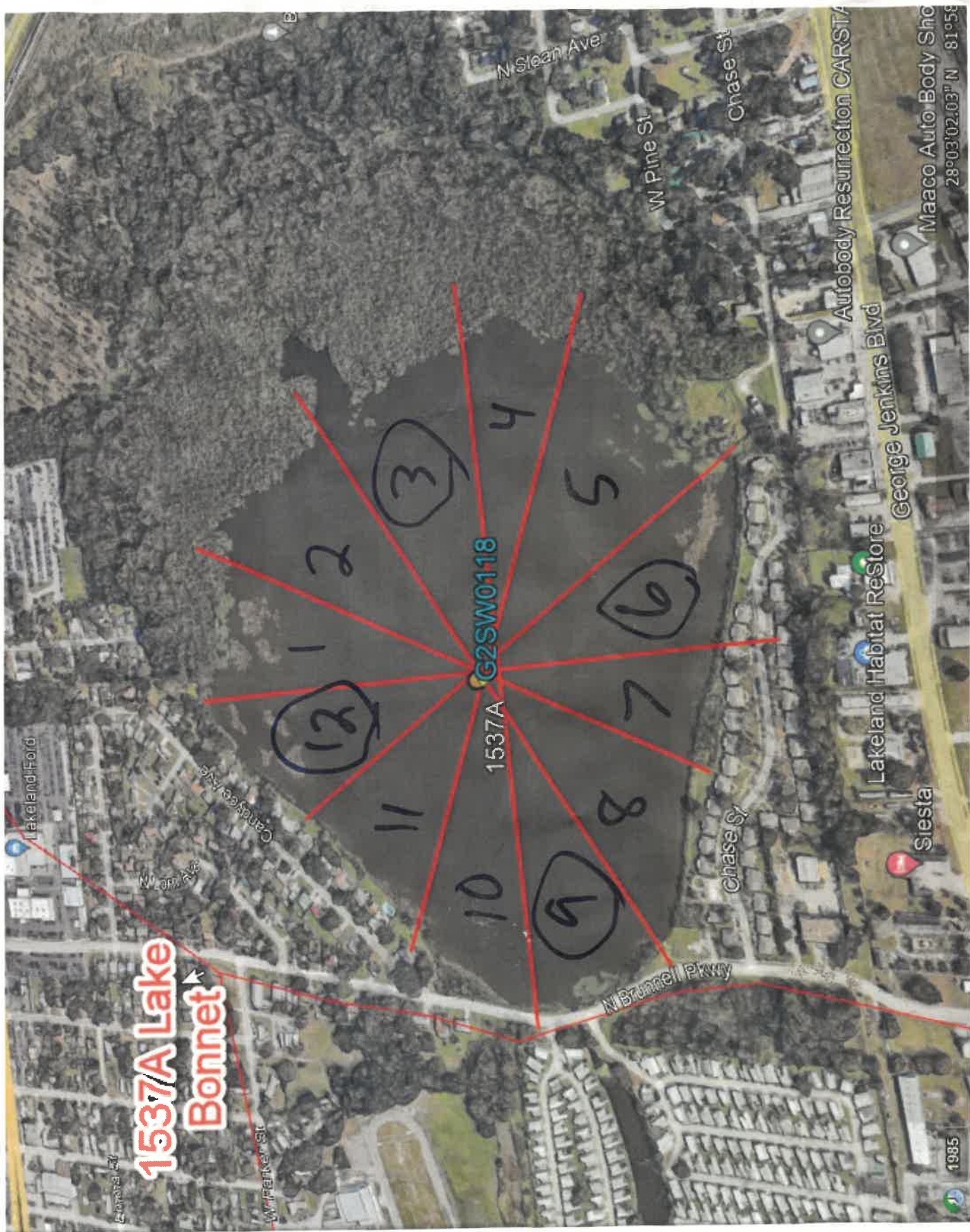
Date: _____				
Site Name: Lake Bonnet @ Center				
SPECIES (M-P)	1	2	3	Collected? (✓)
Magnolia virginiana				✓
Mayaca fluviatilis				
Melaleuca quinquenervia		✓		
Micranthemum glomeratum				
Micranthemum umbrosum				
Mikania scandens	✓		✓	
Mimosa pigra				
Myrica cerifera	✓	✓	✓	
Myriophyllum aquaticum				
*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	✓	✓	✓	✓
Paspalum 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				

Date: _____					
Site Name: Lake Bonnet @ Center					
SPECIES (R-Z)	3	6	9	12	Collected? (✓)
*Rhexia					
*Rhynchospora corniculata					
*Rhynchospora inundata					
Rhynchospora 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 (softstem)					
Scirpus cubensis (Oxycaryon cubense)					
Scirpus cyperinus					
*Sesbania					
Solidago sp.					
Sparganium americanum					
Spartina bakeri					
Sphagneticola trilobata (Wedelia)					
Spirodela polyrrhiza					
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					
Thelypteris <i>intelypta</i>	✓				

1537A Lake Bonnet

G2SW0118

1537A



1985