

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV☒ Yes / ☐ No

WIN Station Name:		WILDMERE LAKE AT CENTER				Sample Date:		7/12/2023	
WIN / Field ID:	G2CE0226	ORG ID:	21FLCEN	ENR:	-	Latitude:	28.694796		
County:	SEMINOLE	WBID:	2994G	LAKE		Longitude:	-81.334822		
Receiving Body of Water:		-				RQ-	2023-07-10-14		

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Matt Bearden	x		x		
Denver Bourassa		x		x	x

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
	Syringe		Pole
Syringe Lot# 2327923		Filter Lot# 17769663	
Secchi Equipment ID:		Knothead	
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:	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	1140	6	0.3	7.3	98.7	31.2	7.07	2.7	168.2	0.08
	1145		2	7.36	98.6	30.6	7.2		167.9	0.08
	1148		5.5	0.39	5.3	28.7	6.54		179	0.08

Biological Samples Collected: NoneSBIO Visit ID: 87454 HA ID: RPS ID: Macrophyte ID: 12513 LIMS Sample ID 2423686
In The Macrophyte Module:

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	H2SO4 pH<2
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA2230040	09/01/2023	HNO3 pH<2
Organics (LC)	W-E8321-DI	W-E8321-MS			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)					SyringeLot#		FilterLot#	
Field Comments:								
Comments on COC:								
Relinquish Date:	07/12/2023	Signature:						

LIMS EVENT ID: CEN-DIST-2023-07-13-03

WIN Import ID: 42284

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 7/28/23

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

Save Field Sheets on Network: KWM 8/22/23 (Initials/Date)

Migrate Data to WIN: KWM 8/22/23 (Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ **MACROPHYTE ID:** _____ **LATITUDE:** _____
COUNTY: Seminole **STORET #:** 62CE0226 **LONGITUDE:** _____
DATE: 7/12/23 **TIME:** _____ **SAMPLING AGENCY:** CE ROC
SITE NAME: Wildmere Lake **WBID:** 29946
FIELD ID/NAME: Wildmere Lake @ Center **LAKE SIZE:** _____ **RQ:** 2023-07-10-14

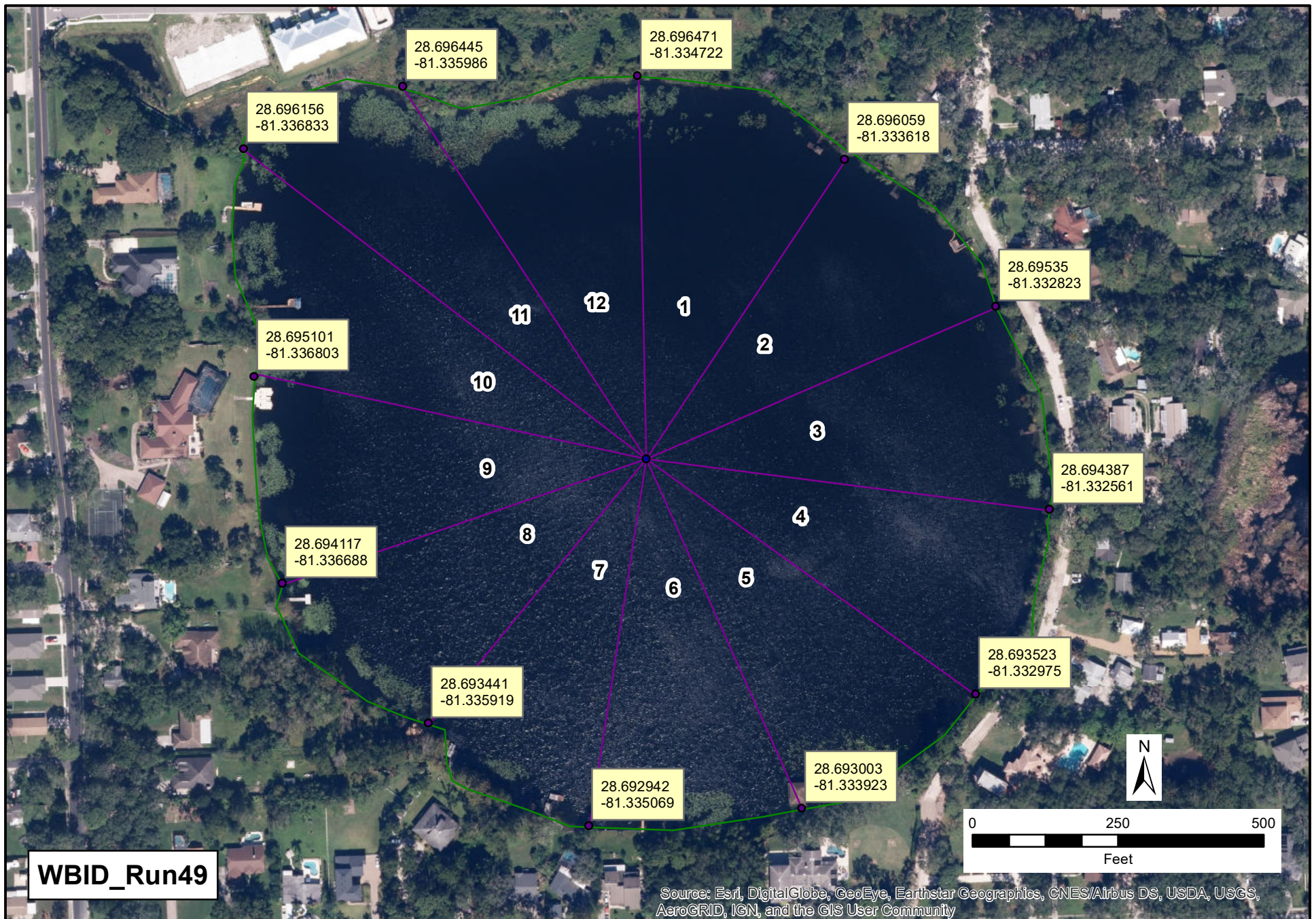
WATERSHED / LAKESIDE FEATURES

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>5</u>		<u>5</u>		<u>90</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>6</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 7 <u>6</u>			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>5</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 7 6			<u>5</u> 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>6</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 7 <u>6</u>			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 # <u>3013020</u> Exp. Date: <u>11/25/24</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>31.2</u> <u>7.07</u> <u>7.3</u> <u>98.7</u> <u>168.2</u> <u>0.08</u> Mid-Depth: <u>2.0</u> <u>30.6</u> <u>7.2</u> <u>7.36</u> <u>98.6</u> <u>167.9</u> <u>0.08</u> Bottom: <u>5.5</u> <u>28.7</u> <u>6.54</u> <u>0.39</u> <u>5.3</u> <u>179</u> <u>0.08</u>								Clarity: ☐ Clear ☒ Slightly Turbid ☐ Opaque ☐ Turbid Color: ☐ Clear ☒ Tannic ☐ Green SECCHI (M) <u>2.7</u> Total Station Depth (M) <u>6.0</u> VOB ☐							
Sediment Type: (may check more than one) ☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☒ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____								Sediment Odors: ☒ Normal ☐ Anaerobic ☐ Other (Specify): _____							
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: <u>Hot, light clouds</u>															
SAMPLING TEAM: <u>M. Bearden, D. Bourassa</u>								SIGNATURE: <u>M. Bearden</u>				DATE: <u>7/12/23</u>			

LVI Map for Wildmere Lake , WBID 2994G



DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Wildmere Lake</u>		County: <u>Seminole</u>		Date: <u>7/12/23</u>							
Analyst: <u>D. Bourassa M. Bearden</u>		Signature: <u>[Signature]</u>		STORET:							
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					
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					
Elchhornia crassipes						Mikania scandens	/	/	/	/	
*Eleocharis baldwinii						Mimosa pigra					
*Eleocharis						Myrica cerifera	/	/	/	/	
Eleocharis cellulosa						Eleocharis viviparus	/	/	/	/	
Eleocharis equisetoides						Bidens Alba	/	/	/	/	
Eleocharis interstincta						Spider Lily - Hymen kerryae	/	/	/	/	
*Eriocaulon compressum						Peay vine - Nigella luteola	/	/	/	/	
*Eriocaulon decangulare						Tall grass	/	/	/	/	
Eupatorium capillifolium	/	/	/	/		Cyperus retrofractus	/	/	/	/	
* Fuirena	/	/	/	/							
Fuirena scirpoidea	/	/	/	/							
Gordonia lasianthus	/	/	/	/							

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: Wildmere Lake - G260226					Date: 7/12/83						
SPECIES	1	4	7	10	Collected? (v)	SPECIES	1	4	7	10	Collected? (v)
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)						Vitis	/	/			
Proserpinaca pectinata						Scirpus repens	/	/			
*Rhexia						Upland plant, not entered into SBIO- KM					
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto	/										
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia	/	/									
Sagittaria latifolia	/	/									