



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Lake Seminole Center

Date: 06/26/2019

WIN/ Field ID: G2WA0021

WBID: 60

Latitude: 30.72907

County: Jackson

ORG ID: 21FLWQA

Longitude: -84.896

Receiving Body of Water: Apalachicola River

RQ- 2019-06-17-32

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment					
Blake Spencer						X					☐ Sample Container	☐ Van Dorn	☐ Pole			
Mike Eckles							X		X	X	☐ Carboy	☒ Syringe				
Kristen Sapp								X			☐ Dipper	☐ Other				
											Depth Measured with 5095 #1					
											Equipment ID					
Collection Method																
☐ Wading												☐ Canoe/Kayak				
☐ From Shore												☐ Electric Motor				
☐ Other												☒ Gasoline Motor				
Water Level: Dry/ Pooled/ Low / Normal / High / Flooded						Meter ID#			Matrix: Fresh / Marine / DI							
Photos: Yes / No						Flow: No Flow / Intestinal / Flowing / NA			Tide: Rising/ Falling/ Slack/ NA			Tide Times: High NA Low NA				
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (umhos/cm)	Temp. (C°)						
EST	13:55	3.4m	0.3m	1.0m	8.09	108.4	7.09	0.04	92.6	30.6						
CEN			2.9m		6.75	88.8	6.84	0.04	90.4	29.8						
Biological Samples Collected: None (HA) SCI RPS Algae ID LVS LVI Other:																
SBIO ID Numbers: SBIO-ID: 79956 HA-ID: 16137 RPS-ID: Macrophyte-ID: 11421 LIMS#: 2098751																
Parameter Suite		Parameter Methods				Preservation		Lot#	Expiration	pH Check						
Preserved Nutrients		☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TP / ☒ W-S-A-TP				☒ Ice ☒ H2SO4		5A8344070	12/10/19	☒ <2						
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3				☐ <2						
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 um Filter				☒ Ice										
Chlorophyll		☒ CHL-SUITE-W				☒ Ice										
Physical/Aggregate (Fresh)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice										
Physical/Aggregate (Marine)		☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☐ Ice										
Macroinvertebrates		☐ MI-FW-QLDC				☐ Formalin										
Periphyton		☐ ALGAE-ID				☐ Ice										
Microbiology		☐ E Coli ☐ F Coli ☐ Enterococci				☐ Ice										
Molecular		☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD				☐ Ice										
Tracers		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice										
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA				☐ Ice										
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C				☐ Ice										
Notes:																
Signature: [Signature]						Date: 6/26/19										
LIMS EVENT ID: BSSP-2019-06-26-01						WIN Import ID:										
Enter Field Parameters, Verify Station ID In LIMS DMT: [Signature] 7/19/19						QC Station ID, Field Parameters In LIMS DMT: [Signature] 7/23/19										
Scan/Save Field Sheets						Migrate Data to WIN:										
						Verify Data In WIN:										

Field/WIN ID →



G2WA0021

Location ↓



LAKE SEMINOLE CENTER

Entered by: ~~7/19/19~~

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 79956
 COUNTY: Jackson
 DATE: 06/26/2019
 SITE NAME: Lake Seminole Center
 FIELD ID/NAME: G2WA0021

MACROPHYTE ID: _____
 STORET #: G2WA0021
 TIME: 1355

LATITUDE: 30.72907
 LONGITUDE: -84.99600
 SAMPLING AGENCY: FDEP
 WBID: 60
 LAKE SIZE: _____ RQ: 2019-06-17-32

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>53%</u>	<u>15%</u>	<u>11%</u>	<u>14%</u>	<u>3%</u>	<u>1%</u>	<u>2%</u>	<u>1%</u>														
Local Watershed Erosion (select one) : ☒ None ☐ Slight ☒ Moderate ☐ Heavy								Artificially Impounded		LDI: <u>21</u>											
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy								☒ Yes ☐ No		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>12</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>13</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>14</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 ☐ No pH<2 ☐ No Color Sample Taken? ☐ Yes ☐ No Lot # <u>SA9344070</u> Exp. Date: <u>12/10/19</u> Alkalinity Sample Taken? ☐ Yes ☐ No Water Level ☐ Low ☐ Normal ☐ High								Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____			
Meter Readings: Top: <u>0.3</u> <u>30.6</u> <u>7.09</u> <u>8.09</u> <u>109.4</u> <u>92.6</u> <u>0.04</u> Mid-Depth: _____ Bottom: <u>2.9</u> <u>29.8</u> <u>6.94</u> <u>6.75</u> <u>98.8</u> <u>90.4</u> <u>0.04</u> Meter ID: _____								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____			
Sediment Type: (may check more than one) ☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____								Clarity: ☐ Clear ☒ Turbid ☐ Slightly Turbid Color: ☒ Clear ☐ Tannic ☐ Green			
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								SECCHI (M) <u>1.0</u> Total Station Depth (M) <u>3.4</u> VOB ☐			
Abundance: Periphyton ☐ Absent ☒ Rare ☐ Common ☐ Abundant Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☐ ☒ ☐ Exotic Apple Snails ☐ ☐ ☒ ☐								Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic			
Weather Conditions :											
SAMPLING TEAM: <u>Mike Eckles, Kristen Sapp, Blake Spencer</u>						SIGNATURE: _____		DATE: <u>6/26/19</u>			

Entered by: *888* 7/19/19
 OC'd by: *AWM* 7/23/19

SRIO: 79956 HA: 16137

DEP Form FD 9000-6: Lake Habitat Assessment Field Sheet

STORET STATION NUMBER: G2WA0021 ✓	DATE (M/D/Y) 06/26/2019 ✓	LAKE NAME Lake Seminole		FIELD ID / NAME: G2WA0021
ECO-REGION: North	COUNTY: Jackson	SAMPLING LOCATION/DESCRIPTION: Lake Seminole Center		LAKE SIZE:
PARAMETER	No surface inflow or outflow present, very long water residence time, groundwater seepage dominates ☐	Surface water inflow present, but flow is rare, moderate to long water residence time ☐	Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time ☐	Impounded, hydrology of system artificially controlled ☒
HYDROLOGY				
Color	Very clear, uncolored water (benthic sampling appropriate) ☐	Water somewhat tannin stained (benthic sampling appropriate) ☒	Dark, discolored water (water color 20 PCU or higher) ☐	Visibility extremely reduced due to high color ☐
	Optimal	Suboptimal	Marginal	Poor
Secchi 10 ✓	Secchi > 3 m Or VOB 20 19 18 17 16	3 2.6 2.2 1.8 1.4 15 14 13 12 11	1.0 0.9 0.8 0.7 0.6 10 9 8 7 6	0.5 0.4 0.3 0.2 0.1 5 4 3 2 1
Vegetation Quality 6 ✓	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 20 19 18 17 16	Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants 15 14 13 12 11	Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats 10 9 8 7 6	Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed) 5 4 3 2 1
Stormwater Inputs 8 ✓	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 18 17 16	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 15 14 13 12 11	Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 10 9 8 7 6	Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place 5 4 3 2 1
Bottom Substrate Quality 16 ✓	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 20 19 18 17 16	Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present 15 14 13 12 11	Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom 10 9 8 7 6	Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom 5 4 3 2 1
Lakeside Adverse Human Alterations 13 ✓	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 20 19 18 17 16	Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected 15 14 13 12 11	Many structures, roads or other human disturbance visible (50%-70%) lakeside affected 10 9 8 7 6	Highly developed or disturbed (>70% of lakeside affected) 5 4 3 2 1
Upland Buffer Zone 11 ✓	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 16	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 15 14 13 12 11	50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 10 9 8 7 6	< 29% of shoreline with >18m buffer 5 4 3 2 1
Adverse Watershed Land Use 10 ✓	Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1			
TOTAL SCORE 74 ✓	COMMENTS:			

ANALYSIS DATE: 6/26/19	ANALYST: Blake Spencer ✓	SIGNATURE: <i>[Signature]</i>
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Waterbody: Lake Seminole		County: Jackson		Date: 06/26/2019 ✓							
Analyst: Blake Spencer ✓		Signature: 		STORET: G2WA0021 ✓							
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	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	Collected? (✓)
Acer rubrum ✓	X		X	X		Habenaria repens					
Alternanthera philoxeroides ✓	X	X				Hydrilla verticillata ✓	X	X	X	X	
Andropogon sp.						Hydrocotyle sp.					
Azolla filiculoides (A. caroliniana)						Hrdolea quadrivalis					
Baccharis sp. ✓		X				Hygrophila polysperma					
Bacopa caroliniana						*Hypericum fasciculatum ✓	X				
Bacopa monnieri						*Hypericum hypericoides					
Bidens laevis ✓		X				*Hypericum myrtifolium					
Bidens mitis						Ilex cassine					
Blechnum serrulatum						Ipomoea aquatica					
Boehmeria cylindrica						Ipomoea sagittata					
Brasenia schreberi ✓		X				Iris pseudacorus					
Cabomba caroliniana ✓		X				Itea virginica					
Casuarina equisetifolia						Juncus effusus					
Centella asiatica						*Juncus marginatus					
Cephalanthus occidentalis ✓	X	X	X	X		*Juncus megacephalus					
Ceratophyllum demersum ✓	X	X	X	X		Juncus repens					
Chara sp.						*Juncus scirpoides					
Cladium jamaicense						Lachnanthes caroliniana					
Cliftonia monophylla						Leersia hexandra					
Colocasia esculenta ✓	X		X	X		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 ✓		X	X		
*Cyperus lecontei						*Ludwigia arcuata ✓	X				
*Cyperus polystachyos						*Ludwigia leptocarpa ✓	X				
*Cyperus odoratus						*Ludwigia linearis					
*Cyperus surinamensis						*Ludwigia octovalvis					
Cyrtilla racemiflora						*Ludwigia peruviana ✓	X				
Decodon verticillatus						*Ludwigia repens					
Diodia virginiana						*Ludwigia					
*Echinochloa crus-galli						Luziola fluitans (Hydrochloa carolinensis)					
*Echinochloa muricatum						Lycopus virginicus					
Echinochloa walteri						Lyonia lucida					
Eclipta prostrata (E. alba)						Magnolia virginiana ✓				X	
Egeria densa						Mayaca fluviatilis					
Eichhornia crassipes ✓	X					Melaleuca quinquenervia					
*Eleocharis baldwinii						Micranthemum glomeratum					
*Eleocharis ✓		X				Micranthemum umbrosum					
Eleocharis cellulosa						Mikania scandens					
Eleocharis equisetoides						Mimosa pigra					
Eleocharis interstincta						Myrica cerifera ✓			X		
*Eriocaulon compressum											
*Eriocaulon decangulare						Ludwigia Grandiflora ✓	X	X	X	X	
Eupatorium capillifolium ✓		X									
*Fuirena											
Fuirena scirpoidea											
Gordonia lasianthus											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: Lake Seminole					Date: 06/26/2019						
SPECIES	2'	5'	8'	11'	Collected? (✓)	SPECIES	2'	5'	8'	11'	Collected? (✓)
Myriophyllum aquaticum ✓	X✓	X✓				Salix caroliniana ✓	X✓	X✓			
*Myriophyllum heterophyllum						Salvinia minima					
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum						Sapium sebiferum					
Myriophyllum spicatum						Saururus cernuus ✓		X✓			
*Najas filifolia						Schinus terebinthifolius					
*Najas guadalupensis ✓	X✓	X✓				*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea ✓	X✓	X✓		X✓		*Schoenoplectus tabernaemontani (Scirpus validus)					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense) ✓	X✓	X✓			
Nuphar sp.						Scirpus cyperinus					
Nymphaea odorata ✓		X✓				*Sesbania					
Nymphoides aquatica						Solidago sp.					
Nyssa sylvatica var. biflora ✓				X✓		Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrrhiza					
Osmunda regalis						Taxodium sp. ✓	X✓	X✓		X✓	
Panicum hemitomon ✓		X✓				Thalia geniculata					
Panicum repens ✓		X✓				Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp. ✓	X✓	X✓			
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.						*Utricularia gibba (U. biflora)		X✓			
Persea sp.						*Utricularia floridana ✓		X✓			
Pennisetum purpureum						*Utricularia foliosa ✓		X✓			
Phragmites australis ✓	X✓	X✓	X✓	X✓		*Utricularia inflata					
Pinus elliotii						*Utricularia purpurea ✓		X✓			
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 ✓		X✓				Woodwardia virginica					
*Potamogeton diversifolius ✓	X✓	X✓	X✓	X✓		Xyris sp.					
*Potamogeton illinoensis ✓	X✓	X✓	X✓	X✓		Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea ✓	X✓	X✓	X✓	X✓	
*Potamogeton pectinatus (Stuckenia pectinatus)											
Proserpinaca pectinata											
*Rhexia											
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia ✓		X✓									
Sagittaria latifolia											
Plantus occidentalis ✓	X✓		X✓	X✓							

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: P10155185104543

RQ: 2019-06-17-32

Project: SMP/State Lakes

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	B. Spencer	6/26/19	0731	21.2	760.3	8.9	8.98	100.1	—	—	P/F	L/F
ICV	1	6/26/19	0733	21.3	760.3	8.9	8.97	100.0	—	—	P/F	L/F
CCV	B. Spencer	6/26/19	1616	30.3	759.4	7.5	7.47	99.6	—	—	P/F	L/F
CCV											P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	B. Spencer	6/26/19	0741	190619F	06/2020	1000	1000	P/F	L/F
ICV	1	6/26/19	0743	190619F	06/2020	1000	998	P/F	L/F
CCV	B. Spencer	6/26/19	1619	280988F	07/2020	100	103.5	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	B. Spencer	6/26/19	0745	190621F	01/2020	7.01	22.2	7.01	-27.9	P/F	L/F
Calibr.	1	6/26/19	0749	190405B	10/2020	4.00	22.5	4.00	147.8	P/F	L/F
Calibr.	1	6/26/19	0753	190621F	01/2020	10.03	22.5	10.03	-198.5	P/F	L/F
ICV	1	6/26/19	0753	190621F	31/2020	10.03	22.6	10.02	-198.7	P/F	L/F
CCV	B. Spencer	6/26/19	1622	190405B	10/2020	4.00	22.5	4.08	142.9	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	B. Spencer	6/26/19	0755	0.00	0.00	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

last revised Jan 25, 2018

Black Swan

File

Date/Time 06/26/19 @ 4:13 PM

Group: A	Bottle Type: ALKALINITY W-COLOR	P-250ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab

Cooler Packing Worksheet for Request: RQ-2019-06-17-32

Status Lake LVI

Ship Cooler On: 6/13/2019

Customer/Project: BSSP/ADDLAKES

Assigned To: AYRES_J

Requester: Sarah Panek

Priority: 3

850-245-8533

2600 Blair Stone Rd.

Tallahassee, FL 32399-2400

Attn: Sarah Panek

Comments:

No preservatives needed.

Kits will be picked up not shipped.

Requested Analyses:

Bottle Group: A

of Sites: 1

Container ID: P-250ML

Qty: 1 Preservation: ICE

Lot # 00069735

Description: Plastic Bottle 250 mL

Analysis

ALKALINITY

W-COLOR

Description

Alkalinity in aqueous matrices as mg CaCO₃/L

True Color measured at 450 nm

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1248230

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-500ML

Qty: 1 Preservation: ICE And H₂SO₄

Lot # 00073852

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH₃

W-NO₂NO₃

W-S-A-TP

W-TKN

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: FILTER-ICE

Lot # 60073850

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: [Signature]

Number of Coolers: 1

Date: 6/12/19

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☐ Plastic Bags/Zip Ties
- ☐ Acid Labels (sets of 24)

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2019-06-17-32

2

30° 45'41.0525"N, -84° 56'0.5869"W

3

30° 45'18.2173"N, -84° 55'56.8790"W

4

30° 44'56.4428"N, -84° 56'0.5869"W

6

30° 44'46.6173"N, -84° 55'31.8508"W

7

30° 44'22.1850"N, -84° 54'56.9348"W

8

30° 43'53.5015"N, -84° 54'27.5807"W

9

30° 43'26.4093"N, -84° 53'57.6087"W

10

30° 43'3.5652"N, -84° 53'23.0017"W

11

30° 42'51.8769"N, -84° 52'51.8769"W

12

30° 42'22.9242"N, -84° 52'12.2421"W