



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF 1

Data Qualified?

Yes / No

Location/STORET Station Name: JAMES LAKE

Date: 06/07/2018

(mm/dd/yyyy)

STORET # G1SW0078

WBID: 1473Z

Latitude: 28.11710556

(Decimal Degrees)

County: Hillsborough

RQ: 2018-06-04-08

ORG ID: 21FLTPA

Longitude: -82.57408889

(Decimal Degrees)

Receiving Body of Water:

Field ID: G1SW0078

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Judy Ashton									
Ben Paswater									
Sandra Meyer									

Sampling Equipment	
☒ Sample Container	☐ Van Dorn ☐ Pole
☐ Carboy	☐ Syringe
☐ Dipper	☐ Other
Equipment ID	
Collection Method	
☐ Wading	☒ Via Boat
☐ From Shore	☒ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☐ Gasoline Motor

Water Level: Dry / Pooled / Low / Normal / High / Flooded

Matrix: Fresh / Marine / DI

Meter ID# CHERY

Photos: Yes 9 / No

Tide Falling: Yes / No / NA

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
EST	1110	0.3	4.0	9.08	121	7.8	1	1.2	163	30.1
CEN		3.5		0.4	5.0	6.4			224	24.4

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

SBIO ID Numbers: SBIO-ID: 78710 RPS-ID: Macrophyte-ID: 11013 LIMS#: 1998967

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H2SO4	SA7275010	10/02/18	☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-P04-F ☒ Field Filtered 0.45 µm Filter	☐ Ice			
Chlorophyll	☒ CHLSUITE-W	☐ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-S04-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci ☐ qPCR	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			

Notes:

Access granted by Yvonne Stoker 17016 Lk. James Rd.
813-920-7726. Call ahead, would like data
Kit A, LVI
OK TO ACCESS 6/7/18 - KNOW ON ROAD, IF NOT
HOME PROCEED THEN BACK YARD

Field ID/WIN

G1SW0078



Site Name: James Lake

Signature: Judy

Date: 6-7

Field Parameters Entered into LIMS: SM 08/09/2018

(Initials/Date)

Field Parameters QC in LIMS: SM 08/29/2018

(Initials/Date)

Date Migrated to STORET: SM 08/29/2018

(Initials/Date)

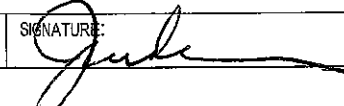
Field Sheets Scanned/Saved: SM 09/17/2018

(Initials/Date)

Verified 09/17/2018 SM

STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION
Lake Habitat Assessment Field Sheet

STORET STATION NUMBER: 615W0078	DATE (M/D/Y) 6-7-18	LAKE NAME JAMES LAKE		FIELD ID / NAME:
ECO-REGION:	COUNTY: HILLS	SAMPLING LOCATION/DESCRIPTION:		LAKE SIZE: SMALL
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 11	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 13	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 14	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 11	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 16	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 14	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 13	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 92	COMMENTS:			

ANALYSIS DATE: 6-7-18	ANALYST: Jay Ashton	SIGNATURE: 
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LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 78710 MACROPHYTE ID: 11013 LATITUDE: _____
 COUNTY: HILLS STORET #: 615W0078 LONGITUDE: _____
 DATE: 6-7-18 TIME: 1110 SAMPLING AGENCY: FDEP
 SITE NAME: JAMES LAKE WBID: 14732
 FIELD ID/NAME: 615W0078 LAKE SIZE: SMALL RQ: 2018-06-04-DB

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: _____													
<u>15</u>		<u>5</u>	<u>10</u>	<u>82-70</u>				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										
<u>14</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>16</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

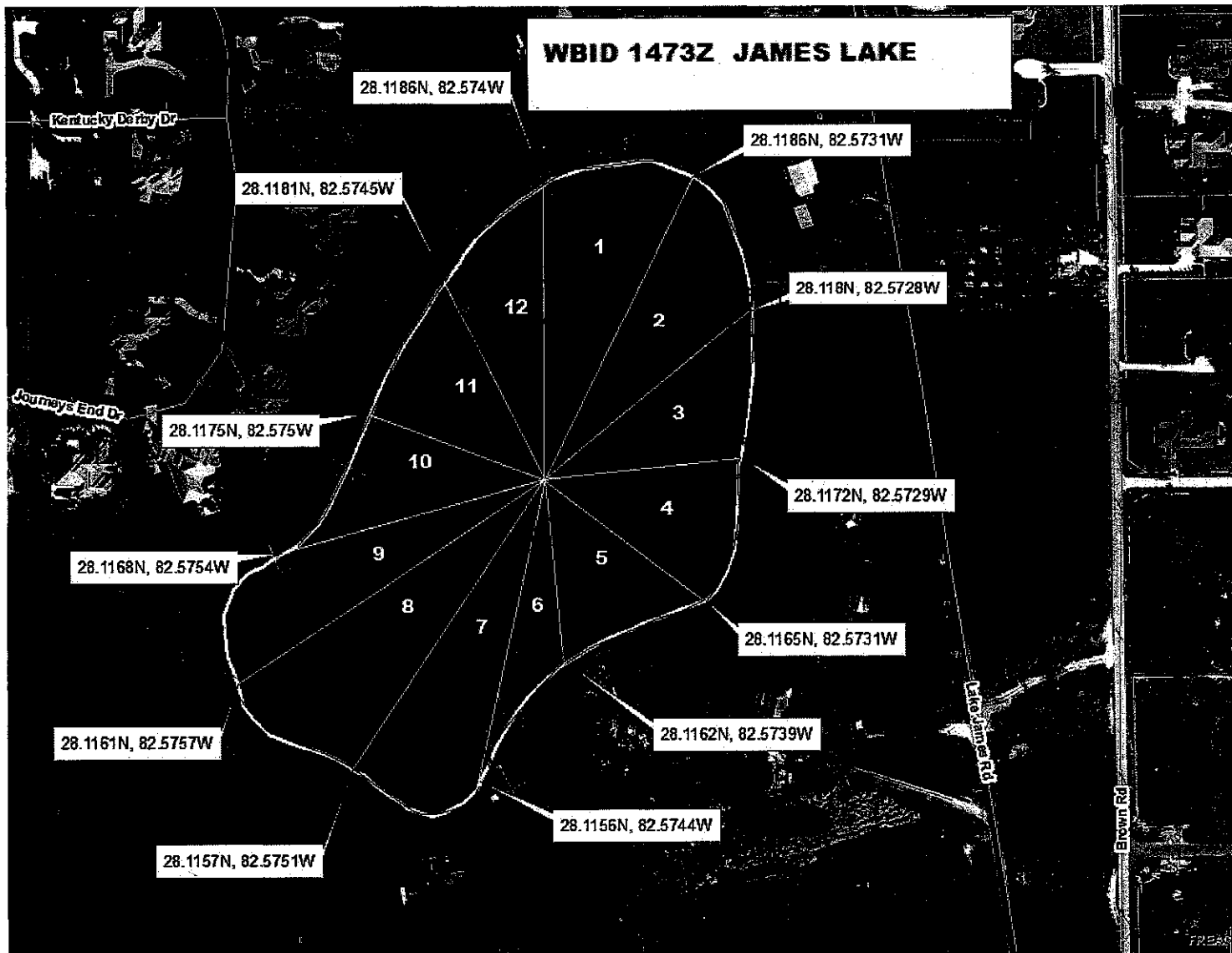
Water:										Water Odors:			
Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☐ No pH<2 ☐ No										☒ Normal			
Color Sample Taken? ☒ Yes ☐ No Lot # _____ Exp. Date: _____										☐ Sewage ☐ Petroleum ☐ Other _____			
Alkalinity Sample Taken? ☒ Yes ☐ No										Water Surface Oils: ☒ None			
Water Level ☐ Low ☐ Normal ☒ High										☐ Sheen/Slick ☐ Glob ☐ Other _____			
Meter Readings:		Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)	Clarity: ☒ Clear		Color: ☐ Clear		
Top:		<u>0.3</u>	<u>30.1</u>	<u>7.8</u>	<u>9.08</u>	<u>121</u>	<u>163</u>		☐ Opaque ☐ Turbid		☒ Tannic ☐ Green		
Mid-Depth:									☐ Slightly Turbid				
Bottom:		<u>3.5</u>	<u>24.4</u>	<u>6.4</u>	<u>0.4</u>	<u>5.0</u>	<u>224</u>		SECCHI (M) <u>1.2</u>		Total Station Depth (M) <u>4.0</u>		
Meter ID: _____										VOB ☐			

Sediment Type: (may check more than one)				Sample Taken? ☐ Yes ☒ No		Sediment Odors:	
☐ Sandy	☒ Organic fibrous (peaty, CPOM)	☐ Vegetated			☒ Normal		☐ Other (Specify): _____
☐ Sand/Silt	☐ Organic smooth (muck)	☐ Other (Specify): _____			☐ Anaerobic		
Biological Communities:				Abundance:			
LVI Conducted? ☒ Yes ☐ No				Absent Rare Common Abundant			
Phytoplankton Sample Taken? ☐ Yes ☒ No				Periphyton ☐ ☐ ☐ ☒			
Sample Preserved? ☐ Yes ☐ No				Nuisance Plants ☐ ☐ ☒ ☐			
Lot #: _____ Exp Date: _____				Submersed Plants ☐ ☒ ☐ ☐			
Algal Bloom/Algal ID Sample Taken? Yes ☐ No ☒				Exotic Apple Snails ☒ ☐ ☐ ☐			
Active Vegetation Mgmt? ☐ Yes ☐ No ☐ Don't Know							
Additional Notes:							

Weather Conditions:

WHITE SWAIC LGS - NATIVE - ABUNDANT

SAMPLING TEAM: J. ASHIZON, B. PASWORTH, S. MEYER SIGNATURE: [Signature] DATE: 6-7-18



Site: <u>JAMES LAKE</u>					Date: <u>6-7-18</u>						
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	Collected? (✓)
Magnolia virginiana						Sabal palmetto					
Mayaca fluviatilis						Sacciolepis striata	X				
Melaleuca quinquenervia		X	X	X		*Sagittaria filiformis					
Micranthemum glomeratum						*Sagittaria graminea					
Micranthemum umbrosum						*Sagittaria isoetiformis					
Mikania scandens	X			X		Sagittaria lancifolia					
Mimosa pigra						Sagittaria latifolia					
Myrica cerifera	X	X	X			Salix caroliniana		X			
Myriophyllum aquaticum						Salvinia minima	X	X	X	X	
*Myriophyllum heterophyllum						Sambucus canadensis					
*Myriophyllum laxum						Sapum sebiferum		X			
*Myriophyllum pinnatum						Saururus cernuus					
Myriophyllum spicatum						Schinus terebinthifolius		X			
*Najas filifolia						*Schoenoplectus californicus (Cali bulrush)					
*Najas guadalupensis						*Schoenoplectus pungens (three square)					
*Najas minor						*Schoenoplectus tabernaemontani (softstem)					
Nelumbo lutea						Scirpus cubensis (Oxycaryon cubense)	X	X	X	X	
Nitella spp.						Scirpus cyperinus					
Nuphar sp.	X	X	X	X		*Sesbania					
Nymphaea odorata						Solidago sp.					
Nymphoides aquatica			X			Sparganium americanum					
Nyssa sylvatica var. biflora						Spartina bakeri					
Orontium aquaticum						Sphagneticola trilobata (Wedelia)					
Osmunda cinnamomea						Spirodela polyrrhiza					
Osmunda regalis						Taxodium sp.	X	X	X	X	
Panicum hemitomon	X					Thalia geniculata					
Panicum repens			X	X		Thelypteris palustris	X	X	C	X	
Paspalidium geminatum						Triadenum virginicum	X		X	X	
*Paspalum repens	X			X		Typha sp.	X	X	X	X	
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.						*Utricularia gibba (U. biflora)			X		
Persea sp.	X		X			*Utricularia floridana					
Pennisetum purpureum						*Utricularia foliosa					
Phragmites australis						*Utricularia inflata					
Pinus elliottii			X	X		*Utricularia purpurea					
Pistia stratioides						*Utricularia cornuta					
Pluchea sp.		X	X			*Utricularia radiata					
*Polygonum glabrum (densiflorum)						Vallisneria americana				X	
*Polygonum hydropiperoides		X		X		*Websteria confervoides					
*Polygonum punctatum						Wolffiella spp.					
*Polygonum sp.						Woodwardia virginica					
Pontederia cordata	X	X	X	X		Xyris sp.	X		X		
*Potamogeton diversifolius						Zizania aquatica					
*Potamogeton illinoensis						Zizaniopsis milacea					
*Potamogeton pusillus						IRIS v.			X		
*Potamogeton pectinatus											
Proserpinaca pectinata											
*Rhexia											
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											

Florida Department of Environmental Protection

Central Laboratory Submittal Form

LVI Lakes

last revised Jan 25, 2018

Customer: SW-DIST

Requester: Benjamin Paswater

Field Report Prepared By: Judy Ashton

Project ID: SMP

Collected By: J. Ashton, B. Paswater, S. MillerSampling Agency: FDLP

Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <u>6-7-18</u> Time <u>1335</u>		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s) (See pg 2)	
Field ID/WIN G1SW0071		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen <u>8.38</u>		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
Field		Temp (C) <u>30.8</u>		pH <u>7.76</u>		Sample Depth <u>0.3</u>		Sp. Conductance (umho/cm) <u>188</u>			
WIN		Salinity (ppt) ☐ dd ☐ dms		Comments							
Site Name: Williams Lake											
Latitude											
Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <u>6-7-18</u> Time <u>1110</u>		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID/WIN G1SW0078		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen <u>9.08</u>		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
Field ID		Temp (C) <u>30.1</u>		pH <u>7.8</u>		Sample Depth <u>0.3</u>		Sp. Conductance (umho/cm) <u>163</u>			
WIN/ST		Salinity (ppt) ☐ dd ☐ dms		Comments							
Site Name: James Lake											
Latitude											
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
WIN/STORET #		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)			
Latitude		Salinity (ppt) ☐ dd ☐ dms		Comments							
Longitude											
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
WIN/STORET #		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)			
Latitude		Salinity (ppt) ☐ dd ☐ dms		Comments							
Longitude											

Relinquished By: <u>J. Ashton</u>	Date/Time: <u>6-7-18 1700</u>	Shipping Method: <u>per Ex</u>	Number of Coolers Shipped: <u>1</u>	Received By: _____	Date/Time: _____
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Ref:
Dep:Date: 14 May 18
Wgt: 15.00 LBS
DV: _____SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Group: A	Bottle Type: P-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
ALKALINITY					
TURBIDITY					
W-CL-IC					
W-COLOR					
W-F					
W-SO4-IC					
W-TDS					
W-TSS					

Group: A	Bottle Type: BP-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
CHLSUITE-W					

Group: A	Bottle Type: P-250ML-WO-THI	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
ECOLI-18QT					

Group: A	Bottle Type: P-500ML	# of Bottles: 2	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
W-NH3					
W-NO2NO3					
W-S-A-TP					
W-TKN					
W-TOC					

Group: A	Bottle Type: P-125ML	# of Bottles: 2	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	2
W-PO4-F					