

CHECK LIST FOR WATER CHEMISTRY DATA ASSOCIATED WITH ECL
BIOASSESSMENT

RQ#: 2016-05-23-48 EventID# _____

Sampling Date: 5-23-16 Sampling Crew: Shay Ashton, Ashley Sarmiento

CARM LAKE

WBIS 14734

Site(s)/STORET #: 24040058

615W0040

STORET /LIMS:

Sonde: Pass/ failed CCV
Parameter(s): _____

- ☐ 1. Spread Sheet (LIMS Input) _____ / _____
Initials Date
- ☐ 2. QC 1 _____ / _____ ☐ 3. QC 2 _____ / _____
Initials Date Initials Date
- ☐ 4. SIM File Generated _____ / _____
Initials Date
- ☐ 5. STORET Upload _____ / _____
Initials Date

Biology:

SBIO ID# _____
VPDB ID# _____

- ☐ 6. Site and Event established in SBio?
- ☐ 7. Habitat Data and YSI Entered Into SBIO _____ / _____
Initials Date
- ☐ 8. Habitat Data and YSI QC _____ / _____
Initials Date
- ☐ 9. SBio data marked complete _____ / _____
Initials Date
- ☐ 10. Macrophyte Data Entered into VPDB _____ / _____
Initials Date
- ☐ 12. Field Paperwork Filed In Biology Lab _____ / _____
Initials Date
- ☐ 13. Macrophyte Data QC _____ / _____ 11. Macrophyte Data Marked Complete _____ / _____



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

A-KIT 2
PAGE 1 OF 2

Data Qualified?
Yes / No

STORET Station Name:

CALM LAKE

14734

Date:

5-23-16
(mm/dd/yyyy)

STORET Station ID:

24040058

Latitude:

28.156066 28°08'30.92"
(Decimal Degrees)

WBID:

14734

RQ-

2016-05-23-48

ORG ID: 21FLTPA

Longitude:

82.48886 82°34'53.8"
(Decimal Degrees)

Receiving Body of Water:

Field ID:

G1SW0040

County:

HILLS

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
JULY ASHTON						X	X	X		
ASHLEY SALMERON						X			X	X

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 / Low / Normal / High / Flooded

Matrix:

Fresh Marine / DI

Meter ID#

LIL JON

Photos:

Yes / 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 (umhos/cm)	Temp. (C°)
<u>EST</u>	11:00	0.3	3.4	7.6	100	7.3	0.06		141	29.3
CEN		2.9		7.6	98	7.6	0.06		141	28.8

Biological Samples Collected:

None

HA

SCI

LVS

RPS

LVI

Other

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			☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO2			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
BOD	☐ BOD-UNIN	☐ Ice			
Physical/Aggregate (Kit A)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Kit B)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-PW-QLDC	☐ Formalin			
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR	☐ Ice			
Periphyton	☐ ALGAE-ID	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			
Flow m/s	"J" Qualify Flow				

Notes:

RQ-2016-05-23-48

Date: 05/23/16

Time:



Signature:

[Signature]

Date:

5-23-16

Field Parameters Entered into LIMS:

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

2 of 2

QA/QC Sample Information

Duplicate

Time Zone: <u>EST</u> CEN		Sample Depth (m): <u>0.3</u>		Field ID: <u>61500040</u>	
Time: <u>11:05</u>		Total Depth (m): <u>3.4</u>			
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ TKN / TP / Nox / NH3 / TOC ☐ Other _____	☒ Ice ☒ H ₂ SO ₄			☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ <2
Filtered Nutrients	☒ OP ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
BOD	☐ BOD-INHB ☐ BOD-UNIN	☐ Ice			
Physical/Aggregate	☒ TSS / Turbidity / Alkalinity / Color ☐ Other _____	☒ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR	☐ Ice			
Pesticides	RQ-2016-05-23-48 Date: 05/23/16 Time: _____  DUPLICATE 61500040	☐ Ice ☐ Other _____			

Contains
1:1
Sulfuric Acid
SA-5259020
EXP: 09/16/16
Warning!
See MSDS

Blank

Time Zone: <u>EST</u> CEN		Time: <u>11:15</u>		Field ID: <u>61500040</u>		Location: <u>WALN LAKE</u>	
☒ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank		Equimnet ID _____					
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check		
Preserved Nutrients	☒ TKN / TP / Nox / NH3 / TOC ☐ Other _____	☒ Ice ☒ H ₂ SO ₄			☒ <2		
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ <2		
Filtered Nutrients	☒ OP ☒ Field Filtered 0.45 µm Filter	☒ Ice					
Chlorophyll	☒ CHLSUITE-W	☒ Ice					
BOD	☐ BOD-INHB ☐ BOD-UNIN	☐ Ice					
Physical/Aggregate	☒ TSS / Turbidity / Alkalinity / Color ☐ Other _____	☒ Ice					
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR	☐ Ice					
Pesticides	RQ-2016-05-23-48 Date: 05/23/16 Time: _____  BLANK BLANK	☐ Ice ☐ Other _____					

Contains
1:1
Sulfuric Acid
SA-5259020
EXP: 09/16/16
Warning!
See MSDS

Notes:

Place Label Here
(If Available)

Signature: _____

Date: 5-23-16

Field Parameters Entered into LIMS: _____

(Initials/Date)

Field Parameters QC in LIMS: _____

(Initials/Date)

Date Migrated to STORET: _____

(Initials/Date)

Field Sheets Scanned/Saved: _____

(Initials/Date)

CALM LAKE

5-23-10

[illegible]

WBID 1473Y Calm Lake



STATION NAME	Calm Lake		
STATION_ID	24040058		
SITE_NAME	Calm Lake		
G-NUMBER	G1SW0040		
LAT	28° 8'30.92"N		
LONG	82°34'53.80"W		
WATER BODY	Lake		
COUNTY	Hillsborough		
SAMPLES NEEDED/SUITE	1 A-Kit		
ADDITIONAL SAMPLES			
WBID	1473Y		
WATER BASIN	Tampa Bay		
PARAMETERS OF CONCERN			
BIOLOGY NEEDS	1 LVI		

LVI Map for CALM LAKE, WBID 1473Y



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

STORET STATION NUMBER: 240 40058		DATE (M/D/Y) 5-23-16		LAKE NAME CALM LAKE		FIELD ID / NAME: G15W0040	
ECO-REGION:		COUNTY: HILLS		SAMPLING LOCATION/DESCRIPTION:		LAKE SIZE: L	
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 ☐	
HYDROLOGY						Impounded, hydrology of system artificially controlled ☐	
Color		Very clear, uncolored water (benthic sampling appropriate) ☒		Water somewhat tannin stained (benthic sampling appropriate) ☐		Dark, discolored water (water color 20 PCU or higher) ☐	
		Optimal		Suboptimal		Marginal	
Secchi		Secchi >3 m Or VOB		3 2.6 2.2 1.8 1.4		1.0 0.9 0.8 0.7 0.6	
13		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
Vegetation Quality		Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 9		Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants		Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats	
		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
Stormwater Inputs		Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 13		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	
		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
Bottom Substrate Quality		Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 13		Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present		Moderate layer of CPOM/ mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom	
		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
Lakeside Adverse Human Alterations		Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 6		Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected		Many structures, roads or other human disturbance visible (50%-70%) lakeside affected	
		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
Upland Buffer Zone		Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 14		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	
		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
Adverse Watershed Land Use		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 11					
		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
TOTAL SCORE		79		COMMENTS:			
ANALYSIS DATE: 5-23-16		ANALYST: JUAN ASHROU, ASHLEY SALMONSON				SIGNATURE: [Signature]	

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: _____
COUNTY: HILLS STORET #: 615W0040 LONGITUDE: _____
DATE: 5-23-16 TIME: 11:00 SAMPLING AGENCY: FALP
SITE NAME: _____ WBID: 14734
FIELD ID/NAME: _____ LAKE SIZE: _____ RQ: 2016-05-23-48

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural <u>30</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential <u>70</u> Commercial _____ Industrial _____ Other (Specify) _____				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: _____	
Local Watershed Erosion (select one) : ☒ None ☐ Slight ☐ Moderate ☐ Heavy				Artificially Impounded ☐ Yes ☒ No	
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy				Land Use Source & Year: _____	
STORMWATER INPUTS <u>13</u>		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 <u>13</u> 12 11	
LAKESIDE ALTERATIONS <u>6</u>		Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) 20 19 18 17 16		Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected) 15 14 13 12 11	
BUFFER ZONE <u>14</u>		Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 16		Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 10 9 8 7 6	
				Many structures, roads or other human disturbance visible (50%-70% lakeside affected) 10 9 8 7 <u>6</u>	
				Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place 5 4 3 2 1	
				Highly developed or disturbed (>70% of lakeside affected) 5 4 3 2 1	
				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	

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water: Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☒ 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: <u>0.3</u> <u>29.3</u> <u>7.3</u> <u>7.6</u> <u>100</u> <u>141</u> <u>0.06</u> Mid-Depth: _____ Bottom: <u>2.9</u> <u>20.8</u> <u>7.6</u> <u>7.6</u> <u>98</u> <u>141</u> <u>0.06</u>				Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____			
Meter ID: _____				Clarity: ☒ Clear ☐ Opaque ☐ 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) <u>2.3</u> Total Station Depth (M) <u>3.4</u> VOB ☐			
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				Sediment Odors: ☒ Normal ☐ Anaerobic ☐ Other (Specify): _____			
Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☒ ☐ Nuisance Plants ☐ ☐ ☐ ☒ Submersed Plants ☐ ☐ ☒ ☐ Exotic Apple Snails ☒ ☐ ☐ ☐				Additional Notes: _____			
Weather Conditions : _____							
SAMPLING TEAM: _____				SIGNATURE: _____		DATE: _____	

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FedEx Standard Overnight
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Saturday delivery NOT available.
2 or 3 Business Days
FedEx 2Day A.M.
Second business morning.
Saturday delivery NOT available.
FedEx 2Day
Second business morning *Thursday shipments
delivered on Friday unless Saturday
delivery is selected.
FedEx Express Saver
Third business day.
Saturday delivery NOT available.

5 Packaging *Declared value limit \$500.
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may sign for delivery.
Indirect Signature
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As per attached
Shipper's Declaration.
No
Shipper's Declaration
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Sampling Agency:

Relinquished By: <i>William Ashton</i>	Date/Time <i>5-23-10 5:00</i>	Shipping Method <i>Per Express</i>	Number of Coolers Shipped: <i>1</i>	Received By:	Date/Time
---	----------------------------------	---------------------------------------	--	--------------	-----------

Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	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	4
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	4
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	ICE-FILTR	Enter Number of Bottles Sent to Lab	4
	W-PO4-F						