

CHECK LIST FOR WATER CHEMISTRY DATA ASSOCIATED WITH LVL
BIOASSESSMENT

RQ#: 2016-05-30-41 EventID# _____

Sampling Date: 06/01/2016 Sampling Crew: Judy Ashton, Ashley Salmeron

Site(s)/STORET #: 28254280822009 Lake Hancock

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

PAGE 1 OF 1

Data Qualified?
Yes / No

STORET Station Name: LAKE HANCOCK

Date: 6-1-16 (mm/dd/yyyy)

STORET Station ID: 65SW0046

Latitude: 28°25'49.5" N (Decimal Degrees)

WBID: 1392B RQ: 2016-05-30-41 ORG ID: 21FLTPA

Longitude: 82°20'2.83" W (Decimal Degrees)

Receiving Body of Water:

Field ID: 65SW0046

County: PASCO

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
JULY ASHTON		X	X			
ARTHUR SAMERON			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# LIC 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°)
EST	13:50	0.3	1.7	9.0	123	7.9	0.05	0.7	114	31.6
CEN		1.2		8.7	113	7.5	0.05		113	29.8

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-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Kit B)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-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" Quality Flow				

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

Notes:
PKD QN BV PKD QNC
Pink snail eggs present

RQ-2016-05-30-41
Date: 06/01/2016
Time:

G5SW0046
65SW0046

Signature: [Signature]

Date: 6-1-16

Field Parameters Entered into LIMS:

Field Parameters QC in LIMS:

Date Migrated to STORET:

Field Sheets Scanned/Saved:

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 28°25'49.5" N
 COUNTY: Pasco STORET #: 28254280822009 LONGITUDE: 82°20'2.83" W
 DATE: 06/01/2016 TIME: 1300 SAMPLING AGENCY: FDEP
 SITE NAME: Lake Hancock WBID: 132 1392B
 FIELD ID/NAME: 65SW0046 LAKE SIZE: large RQ: 2016-05-30-41

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS): Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☒ 50% Residential ☒ 50% 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>15</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 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	
LAKESIDE ALTERATIONS <u>9</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		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	
BUFFER ZONE <u>15</u>		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	

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: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: <u>0.3</u> <u>31.0</u> <u>7.9</u> <u>9.0</u> <u>123</u> <u>114</u> <u>0.05</u> Mid-Depth: _____ Bottom: <u>1.2</u> <u>29.8</u> <u>7.5</u> <u>8.7</u> <u>113</u> <u>113</u> <u>0.05</u>								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 ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☐ Clear ☐ Tannic ☐ Green SECCHI (M) <u>0.7</u> Total Station Depth (M) <u>1.7</u> VOB ☐															
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>Sunny, Clear, 90's</u>																							
SAMPLING TEAM: <u>Judy Ashton, Ashley Salmeron</u>												SIGNATURE:				DATE: <u>06/01/2016</u>							

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

STORET STATION NUMBER: 2825413808 2000 29		DATE (M/D/Y) 06/01/2016		LAKE NAME Lake Hancock		FIELD ID / NAME: G58W0046	
ECO-REGION:		COUNTY: YASLO		SAMPLING LOCATION/DESCRIPTION:		LAKE SIZE: Large	
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		☒		☐		☐	
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		Secchi (m)		1.0 0.9 0.8 0.7 0.6	
☐		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		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		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		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%)		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		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					
☐		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
TOTAL SCORE		71		COMMENTS:			

ANALYSIS DATE: 06/01/2016	ANALYST: Judy Ashton, Ashley Selmeron	SIGNATURE:
------------------------------	--	------------

Site: Lake Hancock

Date: 06/01/2010

[illegible]

LVI Map for LAKE HANCOCK, WBID 1392B



Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: SW-DIST

Project ID: SMP

Requester: Judy Ashton

Field Report Prepared By: A. Salmeron

Collected By: Judy Ashton, Ashley Salmeron

Sampling Agency: FDEP

Location		RQ-2016-05-30-42		Barcode: G5SW0005		Bottle Group(s)	
Date: 06/01/2016		Time: 1050		Composite end Date		(See pg 2)	
Matrix (type, e.g., Salt, Fresh, etc)		Salt		Diss. Oxygen		5.9 mg/L	
Temp (C)		30.2		pH		7.8	
Salinity (ppt)		14.9		Sample Depth		0.3 m	
Comments				Sp. Conductance (umho/cm)		27,740	
Latitude		Longitude		Eastern Central		Bottle Group(s)	
Field ID		Collection (comp begin or grab)		Date		Time	
STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine (mg/L)	
Latitude		Temp (C)		pH		Sample Depth	
Salinity (ppt)		Comments		Diss. Oxygen		Total Res. Chlorine (mg/L)	
Location		Collection (comp begin or grab)		Date		Time	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine (mg/L)	
STORET #		Temp (C)		pH		Sample Depth	
Salinity (ppt)		Comments		Diss. Oxygen		Total Res. Chlorine (mg/L)	
Location		Collection (comp begin or grab)		Date		Time	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine (mg/L)	
STORET #		Temp (C)		pH		Sample Depth	
Salinity (ppt)		Comments		Diss. Oxygen		Total Res. Chlorine (mg/L)	
Location		Collection (comp begin or grab)		Date		Time	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine (mg/L)	
STORET #		Temp (C)		pH		Sample Depth	
Salinity (ppt)		Comments		Diss. Oxygen		Total Res. Chlorine (mg/L)	
Location		Collection (comp begin or grab)		Date		Time	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine (mg/L)	
STORET #		Temp (C)		pH		Sample Depth	
Salinity (ppt)		Comments		Diss. Oxygen		Total Res. Chlorine (mg/L)	
Location		Collection (comp begin or grab)		Date		Time	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine (mg/L)	
STORET #		Temp (C)		pH		Sample Depth	
Salinity (ppt)		Comments		Diss. Oxygen		Total Res. Chlorine (mg/L)	
Location		Collection (comp begin or grab)		Date		Time	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine (mg/L)	
STORET #		Temp (C)		pH		Sample Depth	
Salinity (ppt)		Comments		Diss. Oxygen		Total Res. Chlorine (mg/L)	
Location		Collection (comp begin or grab)		Date		Time	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine (mg/L)	
STORET #		Temp (C)		pH		Sample Depth	
Salinity (ppt)		Comments		Diss. Oxygen		Total Res. Chlorine (mg/L)	

Relinquished By: A. Salmeron	Date/Time: 06/01/2016 1620	Shipping Method: FedEx	Number of Coolers Shipped: 4	Received By:	Date/Time:
------------------------------	----------------------------	------------------------	------------------------------	--------------	------------



1 From Please print and press hard.
 Date 6-1-16 Sender's FedEx Account Number 8041 3592 5437
 Sender's Name FIDEP Phone 813 470 5770
 Company 13051 N. TELECOM PKWY
 Address TELECOM TOWER State FL ZIP 33637
 City TALLAHASSEE

2 Your Internal Billing Reference
 First 24 characters will appear on invoice.
3 To
 Recipient's Name CHEMISTRY RECEIVING Phone (850) 245-8055
 Company DEPT ENVIRONMENTAL PROTECTION
 Address 2600 BLAIRSTONE RD
 We cannot deliver to P.O. boxes or P.O. ZIP codes.
 Address 2600 BLAIRSTONE RD
 Use this line for the HOLD location address or for continuation of your shipping address.
 City TALLAHASSEE State FL ZIP 32309-6542

0110546160



Form ID No. **0215**

4 Express Package Service
 NOTE: Service order has changed. Please select carefully.
 *To avoid incidents.
 Packages up to 150 lbs. For packages over 150 lbs. use the new FedEx Express Freight US Airbill.

1 BUSINESS DAY
☐ FedEx First Overnight
 Next business morning delivery to select locations. Not available for delivery on Monday unless SATURDAY Delivery is selected.
☒ FedEx Priority Overnight
 Next business morning. Friday shipments will be delivered on Saturday unless SATURDAY Delivery is selected.
☐ FedEx Standard Overnight
 Next business day delivery. Saturday Delivery NOT available.
2-3 BUSINESS DAYS
☐ FedEx 2Day AM
 Second business morning. Saturday Delivery NOT available.
☐ FedEx 2Day
 Second business afternoon. *Thursday shipments will be delivered on Monday, unless SATURDAY Delivery is selected.
☐ FedEx Express Saver
 Third business day. Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.
☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☒ FedEx Tube ☐ Other

6 Special Handling and Delivery Signature Options
☐ SATURDAY Delivery
 NOT available for FedEx Standard Overnight, FedEx 2Day AM, or FedEx Express Saver.
☐ No Signature Required
 Package may be left without obtaining a signature for delivery.
☐ Direct Signature
 Signature of recipient or addressee required for delivery. For signature, see remarks.
☐ Indirect Signature
 Signature of recipient or addressee required for delivery. For signature, see remarks.
 Does this shipment contain dangerous goods?
☒ No ☐ Yes
 One box must be checked.
☐ No ☐ Yes
 Shipper's Declaration not required.
 Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Corrugated Drop Box.
☐ Dry Ice
 Dry Ice, 8, UN 1845
☐ Cargo Aircraft Only

7 Payment Bill to:
☐ Sender's Account
☒ Recipient
☐ Third Party
☐ Credit Card
☐ Cash/Check
 FedEx Account No. 4503-8868-8
 Credit Card No. 611
 Total Packages 1 Total Weight 50 lbs. Total Declared Value* \$
 Your liability is limited to USD\$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the conditions on the back of this Airbill and in the current FedEx Service Guide, including terms and conditions.

Rev. Date 2/12 • Post #18374 • © 1994-2012 FedEx • PRINTED IN U.S.A. SPS