



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2017

A-KIT

PAGE 1 OF 1

Data Qualified?

Yes / No

STORET Station Name: LAKE HIAWATHA Date: 3-4-4-17
(mm/dd/yyyy)
STORET Station ID: 61SW0017 WBID: 1464V Latitude: 28.170111N
(Decimal Degrees)
County: HILLS RQ: 2017-04-03-50 ORG ID: 21FLTPA Longitude: 82.574833
(Decimal Degrees)
Receiving Body of Water: _____ Field ID: 61SW0017

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
<u>JUDY ASHON</u>			X		X	X
<u>LAURIE BATHUR</u>		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:		Matrix:								
Dry / Pooled / <u>Low</u> / Normal / High / Flooded		<u>Fresh</u> / Marine / DI								
Meter ID# <u>L1L SDN</u>	Photos: <u>Yes</u> / No	Tide Falling: Yes / No / <u>NA</u>								
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	1125	0.3	4.2	7.9	96	7.4	0.06	2.0	133	25.9
CEN		3.7		6.4	75	6.5	0.06		132	22.9

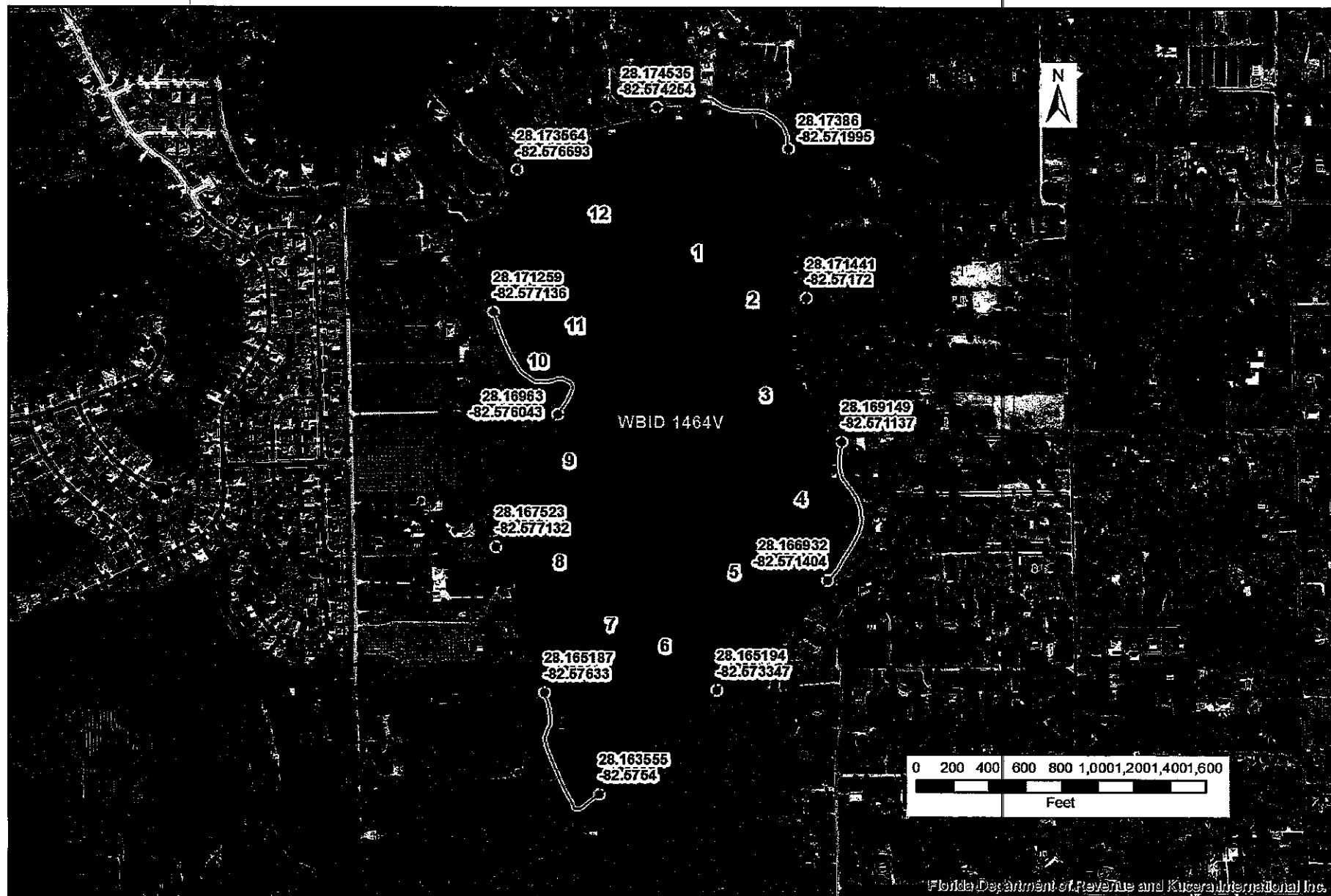
Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other _____
SBIO ID Numbers: SBIO-ID: 77519 RPS-ID: _____ Macrophyte-ID: 10440 LIMS#: 1885836

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			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-SO4-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 ☐ Entero ☐ PCR-FILTER	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Flow	Notes	Time	Field ID
"J" Qualify Flow		RQ-2017-04-03-50 Date: 04/04/17 Time: _____	<u>G1SW0017</u> ↓ STORET Field ID ↑ <u>HIAWATHA</u>
Signature: <u>[Signature]</u>		Date: <u>4-4-17</u>	

Field Parameters Entered into LIMS: SM 04/13/2017 Field Parameters QC in LIMS: LB 4/24/17 / MB 002
Date Migrated to STORET: 6/8/17 MB 12/6/27 Field Sheets Scanned/Saved: SM 06/21/2017
EVENT: 34-03-02 (Initials/Date) (Initials/Date) (Initials/Date)

LVI Map for LAKE HIAWATHA, WBID 1464V



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

STORET STATION NUMBER: 615W0017	DATE (M/D/Y) 4-4-17	LAKE NAME LAKE HIAWATHA		FIELD ID / NAME: 615W0017		
ECO-REGION:	COUNTY: HILLS.	SAMPLING LOCATION/DESCRIPTION: RD 2017-04-03 SD		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	Secchi(m) 3 2.6 2.2 1.8 1.4		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 18	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 17	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 12	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%) 8	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 16	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	101	COMMENTS:				
ANALYSIS DATE:	4-4-17	ANALYST: <i>Joey Ashton</i>		SIGNATURE: <i>Joey Ashton</i>		

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 28.17011N
COUNTY: HILLS STORET #: 615W0017 LONGITUDE: 82.574833
DATE: 4-4-17 TIME: 1125 SAMPLING AGENCY: FSEP
SITE NAME: LAKE HIAWATHA WBID: 1464V
FIELD ID/NAME: _____ LAKE SIZE: L RQ: 2017-04-03-50

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category - from GIS): Forest/Natural <u>15</u> Silviculture _____ Field/Pasture <u>5</u> Agricultural <u>10</u> 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						Land Use Source & Year: _____			
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy									
STORMWATER INPUTS <u>17</u>		Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 18 <u>17</u> 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>8</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 <u>8</u> 7 6		Highly developed or disturbed (>70% of lakeside affected) 5 4 3 2 1	
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 <u>16</u>		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 ☐ No 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>25.9</u> <u>7.4</u> <u>7.9</u> <u>96</u> <u>133</u> <u>0.06</u> Mid-Depth: _____ Bottom: <u>3.7</u> <u>22.9</u> <u>6.5</u> <u>6.4</u> <u>75</u> <u>132</u> <u>0.06</u> Meter ID: <u>21C JON</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											
Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic						SECCHI (M) <u>2.0</u> Total Station Depth (M) <u>4.2</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						Abundance: Absent Rare Common Abundant Periphyton ☐ ☒ ☐ ☐ Nuisance Plants ☐ ☒ ☐ ☐ Submersed Plants ☒ ☐ ☐ ☐ Exotic Apple Snails ☐ ☐ ☐ ☒						Additional Notes: 					
Weather Conditions: <u>Overcast, warm, windy</u>																	
SAMPLING TEAM: <u>JUDY ASTON, LAURIE BACHLE</u>						SIGNATURE: _____											
DATE: <u>4-4-17</u>																	

Site:

Date:

4-4-17

[illegible]

Request Number: 2017-04-03-50

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Page 1 of 2

last revised Apr 7, 2016

Customer: SW-DIST

Project ID: SMP

Requester: Judy Ashton

Field Report Prepared By:

Collected By:

Sampling Agency:

Judy Ashton

Judy Ashton, L. Bachler

FDEP

Location			☐ Comp ☒ Grab	Collection (comp begin or grab) Date 4-4-17 Time 1125	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Field ID	RQ-2017-04-03-50 Date: 04/04/17 Time:		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.9	Total Res. Chlorine (mg/L)	A
STORET #	HIAWATHA		Temp (C) 25.9	pH 7.4	Sample Depth 0.3	Sp. Conductance (umho/cm) 133	
Latitude			Salinity (ppt) 0.06	Comments			
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	Total Res. Chlorine (mg/L)	
STORET #			Temp (C)	pH	Sample Depth	Sp. Conductance (umho/cm)	
Latitude			Salinity (ppt)	Comments			
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	Total Res. Chlorine (mg/L)	
STORET #			Temp (C)	pH	Sample Depth	Sp. Conductance (umho/cm)	
Latitude			Salinity (ppt)	Comments			
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	Total Res. Chlorine (mg/L)	
STORET #			Temp (C)	pH	Sample Depth	Sp. Conductance (umho/cm)	
Latitude			Salinity (ppt)	Comments			
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	Total Res. Chlorine (mg/L)	
STORET #			Temp (C)	pH	Sample Depth	Sp. Conductance (umho/cm)	
Latitude			Salinity (ppt)	Comments			

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Judy Ashton	4-4-17 1700		1		

Group: A	Bottle Type: P-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS				
Group: A	Bottle Type: BP-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab
CHLSUITE-W				
Group: A	Bottle Type: P-500ML	# of Bottles: 6	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC				
Group: A	Bottle Type: P-125ML	# of Bottles: 6	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab
W-PO4-F				

Package
US AirbillFedEx
Tracking
Number

8111 7111 8558

From Please print and press hard.

Date 4-4-17

Sender's FedEx
Account Number

4490-2262-9

Sender's
Name

Phone (813) 470-5772

Company

FDLP

Address

13051 N. TELECOM PKWY

Dept./Floor/Suite/Room

City TAMPA

State FL

ZIP

33637

Your Internal Billing Reference

First 24 characters will appear on invoice.

To

Recipient's
Name

Phone (850) 245-8085

Company FLORIDA DEP/CHEMISTRY SECTION

Address 2600 BLAIRSTONE RD

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

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FedEx location address
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FedEx First Overnight.Hold Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

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Use this line for the HOLD location address or for continuation of your shipping address.

City TALLAHASSEE

State FL

ZIP

32399-6542

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Form
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0215

4 Express Package Service

* To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the
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Earliest next business morning delivery to select
locations. Friday shipments will be delivered on
Monday unless Saturday Delivery is selected.☒ FedEx Priority Overnight
Next business morning.* Friday shipments will be
delivered on Monday unless Saturday Delivery
is selected.☐ FedEx Standard Overnight
Next business afternoon.*
Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M.
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

Fees may apply. See the FedEx Service Guide.

☐ Saturday Delivery

NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature RequiredPackage may be left without
obtaining a signature for delivery.☐ Direct SignatureSomeone at recipient's address
may sign for delivery.

Indirect Signature

☐ If no one is available at recipient's
address, someone at a neighboring
address may sign for delivery. For
residential deliveries only.

Does this shipment contain dangerous goods?

One box must be checked.

☒ No☐ YesAs per attached
Shipper's Declaration.☐ YesShipper's Declaration
not required.☐ Dry Ice

Dry Ice, 5, UN 1845

x kg

☐ Cargo Aircraft Only

Restrictions apply for dangerous goods — see the current FedEx Service Guide.

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender
Acct. No. in Section
1 (value billed)☒ Recipient☐ Third Party☐ Credit Card☐ Cash/CheckFedEx Acct. No.
Credit Card No.

4490-2262-9

Exp.
Date

Total Packages

Total Weight

Total Declared Value†

1

50

lbs. \$ 00

†Your liability is limited to US\$100 unless you declare a higher value. See back for details. By using this airbill you agree to the service conditions on the back of this airbill and in the current FedEx Service Guide, including terms that limit our liability.

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