APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 4/18/2016

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Jacksonville District; Walton Development / Panasoffkee Preserve; SAJ-2016-00290

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: FL County/parish/borough: Sumter City: Wildwood Center coordinates of site (lat/long in degree decimal format): Lat. 28.886307° Pick List, Long. -82.123297° Pick List. Universal Transverse Mercator:

Name of nearest waterbody: Lake Panasoffkee

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Lake Panasoffkee Name of watershed or Hydrologic Unit Code (HUC): Withlacoochee River subbasin (03100208), Lake Panasoffkee watershed (0310020807), and Little Jones Creek subwatershed (031002080706)

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: 4/16/2016

Field Determination. Date(s): 3/1/2016

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

- a. Indicate presence of waters of U.S. in review area (check all that apply): ¹
 - TNWs, including territorial seas
 - Wetlands adjacent to TNWs
 - Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
 - Non-RPWs that flow directly or indirectly into TNWs
 - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
 - Impoundments of jurisdictional waters
 - Isolated (interstate or intrastate) waters, including isolated wetlands
- b. Identify (estimate) size of waters of the U.S. in the review area:
 - Non-wetland waters: linear feet: width (ft) and/or acres. Wetlands: 84.81 acres.
- c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):
- 2. Non-regulated waters/wetlands (check if applicable):³
 - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Subject wetlands 1, 2, 3, 4 and 5 are 0.407, 0.135, 0.124, 0.032 and 2.75 acre in size, respectively. The subject wetlands are low quality depressional freshwater wetlands with surface hydrologic connection to jurisdictional wetland Tract B. The subject wetlands are approximately 3.7 miles from Lake Panasoffkee, a TNW. Additionally, there is no

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

surface hydrologic connection from the subject wetlands to the unnamed RPW. The subject wetlands do not provide a substaintial nexus to interstate commerce.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW:

Summarize rationale supporting determination:

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: 25616 acres Drainage area: 25616 acres Average annual rainfall: 42 inches Average annual snowfall: 0 inches

(ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☑ Tributary flows directly into TNW.
 ☑ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are Pick List river miles from TNW.
Project waters are Pick List river miles from RPW.
Project waters are 2-5 aerial (straight) miles from TNW.
Project waters are 1 (or less) aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain: N/A.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

Identify flow route to TNW⁵: Water flows from Wetland named Tract B through a large culvert, under County Road 475, through an unnamed relatively permanent water two wetlands abutting the TNW (Lake Panasoffkee). Tributary stream order, if known:

(b)	General Tributary Characteristics (check all that apply): Tributary is: Image: Colspan="2">Natural Image: Colspan="2">Artificial (man-made). Explain: Image: Colspan="2">Colspan="2" Colspan="2">Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspa="2" Cols
	Tributary properties with respect to top of bank (estimate): Average width: 5 feet Average depth: 3 feet Average side slopes: 2:1.
	Primary tributary substrate composition (check all that apply):
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Channel appears stable. Presence of run/riffle/pool complexes. Explain: N/A. Tributary geometry: Relatively straight Tributary gradient (approximate average slope): 5 %
(c)	<u>Flow:</u> Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: The flow regime meets the criteria of at least 3 months of flow Other information on duration and volume:
	Surface flow is: Discrete and confined. Characteristics:
	Subsurface flow: Unknown. Explain findings: .
	Tributary has (check all that apply): □ Bed and banks □ OHWM ⁶ (check all indicators that apply): □ clear, natural line impressed on the bank □ changes in the character of soil □ shelving □ vegetation matted down, bent, or absent □ leaf litter disturbed or washed away □ sediment deposition □ water staining □ other (list): □ Discontinuous OHWM. ⁷ Explain: .
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: oil or scum line along shore objects fine shell or debris deposits (foreshore) physical markings/characteristics tidal gauges other (list):

(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: the water appeared tannic.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW. ⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. ⁷Ibid.

Identify specific pollutants, if known: The majority of pollutants are attributed to livestock grazing and run-off from adjacent roadways.

(iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width):
 - Wetland fringe. Characteristics:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: The RPW provides habitat invertebrate and amphibian species and foraging opportunities for terrestrial species.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

- (a) General Wetland Characteristics:
 - Properties:
 - Wetland size:84.81 acres
 - Wetland type. Explain: Freshwater marsh.

Wetland quality. Explain: The water quality is likely moderate due to live stock grazing is surrounding uplands. Project wetlands cross or serve as state boundaries. Explain: N/A.

(b) <u>General Flow Relationship with Non-TNW</u>: Flow is: **Perennial flow**. Explain:

Surface flow is: Discrete and confined

Characteristics:

Subsurface flow: **Unknown**. Explain findings: Dye (or other) test performed:

- (c) <u>Wetland Adjacency Determination with Non-TNW:</u>
 - Directly abutting
 - Not directly abutting

Discrete wetland hydrologic connection. Explain: Wetland named Tract B is connected to the RPW by culvert under County Road 475.

Ecological connection. Explain:

Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW. Project waters are **2-5** aerial (straight) miles from TNW. Flow is from: **Pick List**. Estimate approximate location of wetland as within the **50 - 100-year** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: The freshwater wetlands appears to be of good quality. Identify specific pollutants, if known:

(iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:

Federally Listed species. Explain findings: The wetland provides suitable foraging habitat for the Wood stork and is within the core foraging area of a Wood stork colony.

- Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: The wetland provides habitat invertebrate and amphibian species and foraging opportunities for terrestrial species.

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: 1

Approximately (84.81) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)Size (in acres)Directly abuts? (Y/N)Size (in acres)Y84.81

Summarize overall biological, chemical and physical functions being performed: The subject wetland provides habitat for invertebrate and amphibian species, foraging for terrestrial species, nutrient sequestration, and flood water storage.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

- TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:
 TNWs: linear feet width (ft), Or, acres.
 Wetlands adjacent to TNWs: acres.
- 2. <u>RPWs that flow directly or indirectly into TNWs.</u>
 - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
 - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

acres.

- Tributary waters: linear feet width (ft).
- Other non-wetland waters:
 - Identify type(s) of waters:

3. Non-RPWs⁸ that flow directly or indirectly into TNWs.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: linear feet width (ft).
- Other non-wetland waters: acres.
 - Identify type(s) of waters:

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: 84.81 acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.⁹

- As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
 - Demonstrate that impoundment was created from "waters of the U.S.," or
 - Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
- from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- which are or could be used for industrial purposes by industries in interstate commerce.
- Interstate isolated waters. Explain:

Other factors. Explain:

⁸See Footnote # 3.

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos*.

Identify water body and summarize rationale supporting determination:

Provide estimates	for	iurise	dictional	waters in	the review	area	(check	all tl	hat appl	v):
10 vide estimates	101	Junis	aretional	waters m		urcu	(encer	un u	nut uppi	

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters: .

Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based <u>solely</u> on the "Migratory Bird Rule" (MBR).



Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:

Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: 3.448 acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
 Lakes/ponds: acres.
 Other non-wetland waters: acres. List type of aquatic resource: Wetlands: acres.

SECTION IV: DATA SOURCES.

A.	SUPE	PORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked
	and	requested, appropriately reference sources below):
	\boxtimes	Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
	\boxtimes	Data sheets prepared/submitted by or on behalf of the applicant/consultant.
		□ Office concurs with data sheets/delineation report.
		□ Office does not concur with data sheets/delineation report.
		Data sheets prepared by the Corps: .
		Corps navigable waters' study:
	\boxtimes	U.S. Geological Survey Hydrologic Atlas:
		🔟 USGS NHD data.
	_	USGS 8 and 12 digit HUC maps.
		U.S. Geological Survey map(s). Cite scale & quad name:
	\bowtie	USDA Natural Resources Conservation Service Soil Survey. Citation:
		National wetlands inventory map(s). Cite name:
		State/Local wetland inventory map(s):
		FEMA/FIRM maps: .
		100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	\boxtimes	Photographs: Aerial (Name & Date):Google Earth 4/18/2016.
	_	or 🗌 Other (Name & Date):
		Previous determination(s). File no. and date of response letter:
		Applicable/supporting case law: .
		Applicable/supporting scientific literature:

Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD:

2016-00290

Latitude 28.886307 Longitude -82.123297 Review area is 3.7 miles from Lake Panasoffkee (TNW) Legend

2 mi



1 mi

.

herb

EUC 12-CEI CO2021903

COCIL

- HUC 12-

HUC 12-081002050705

Like Panasofikee

Google earth

Legend

IN

Subject Boundary

Background provided by ESRI Online Database Boundary provided by Dewberry

Panasoffkee Preserve

Ecological Assessment Figure 1- Aerial Map Location in Sections 29, 30, and 32, T18S, R22E Sumter County, Florida

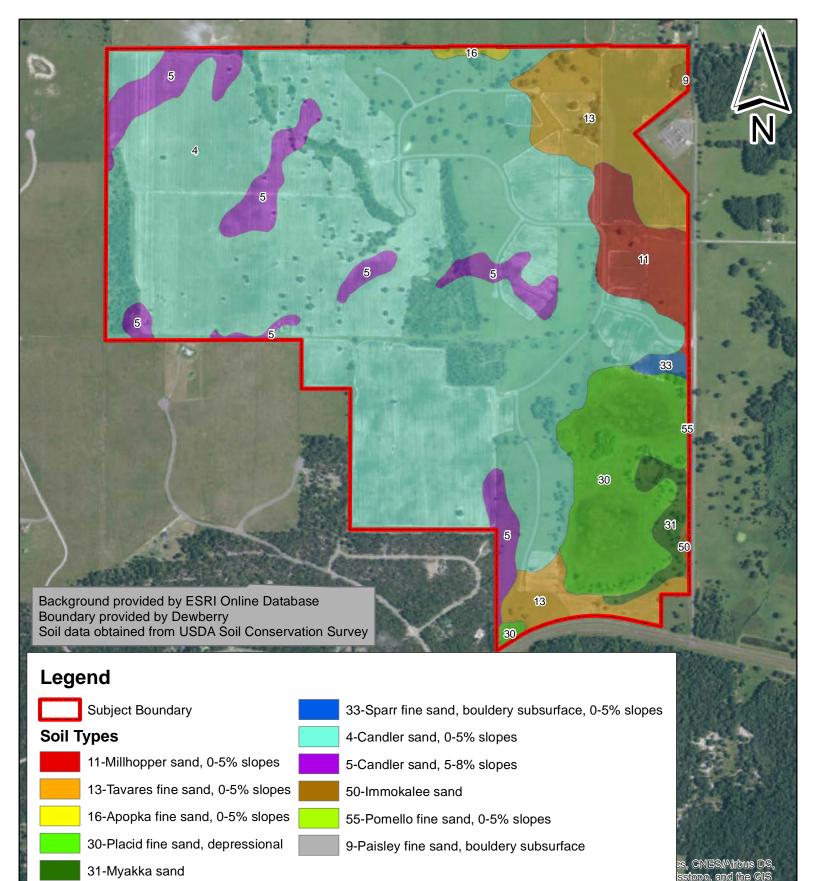
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User Community

Source: Esrl, DigitalGlobe, GeoEye, Earthstar Geographics, GNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS

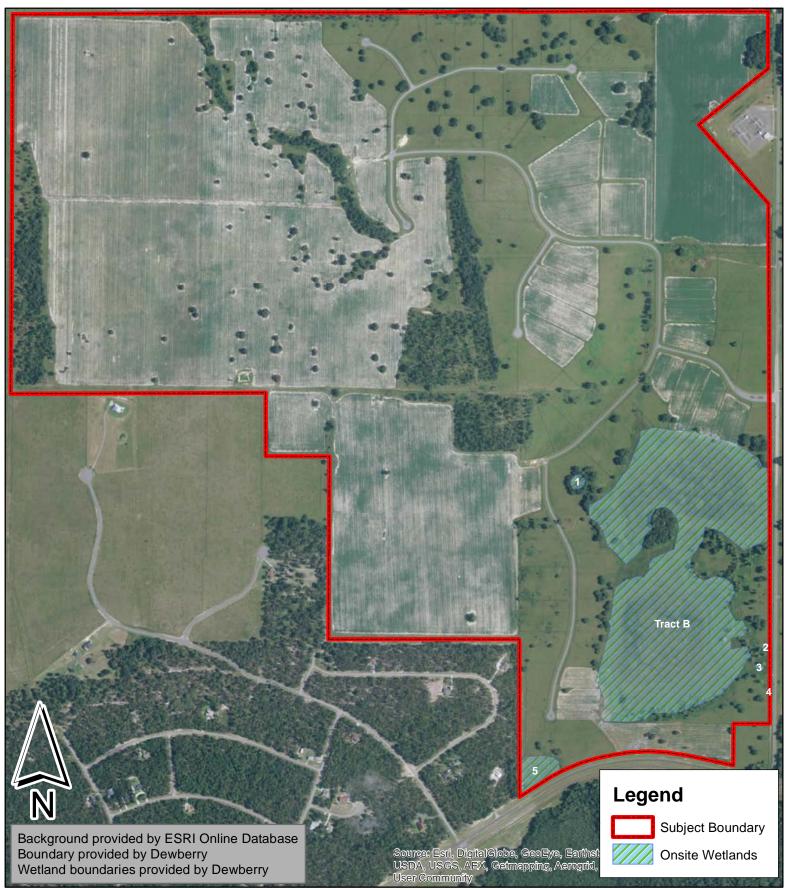


Ecological Assessment Figure 2- Soils Map Location in Sections 29, 30, and 32, T18S, R22E Sumter County, Florida

Feet 0 650 1,300 2,600

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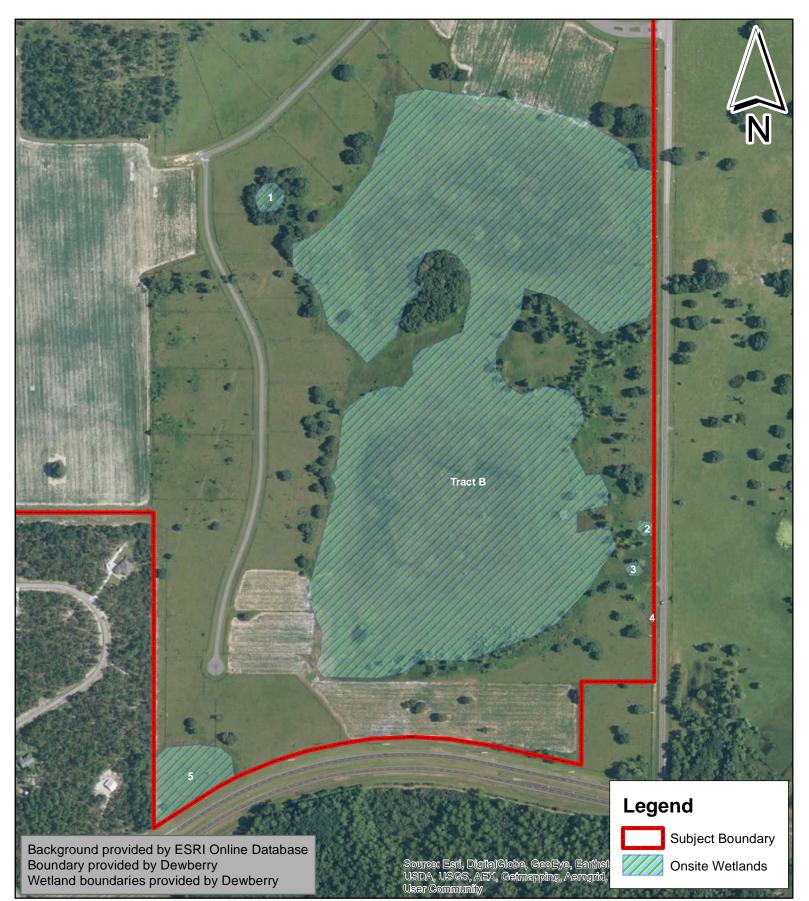


Ecological Assessment Figure 3- Wetland Map Location in Sections 29, 30, and 32, T18S, R22E Sumter County, Florida

			Feet
0	500	1,000	2,000



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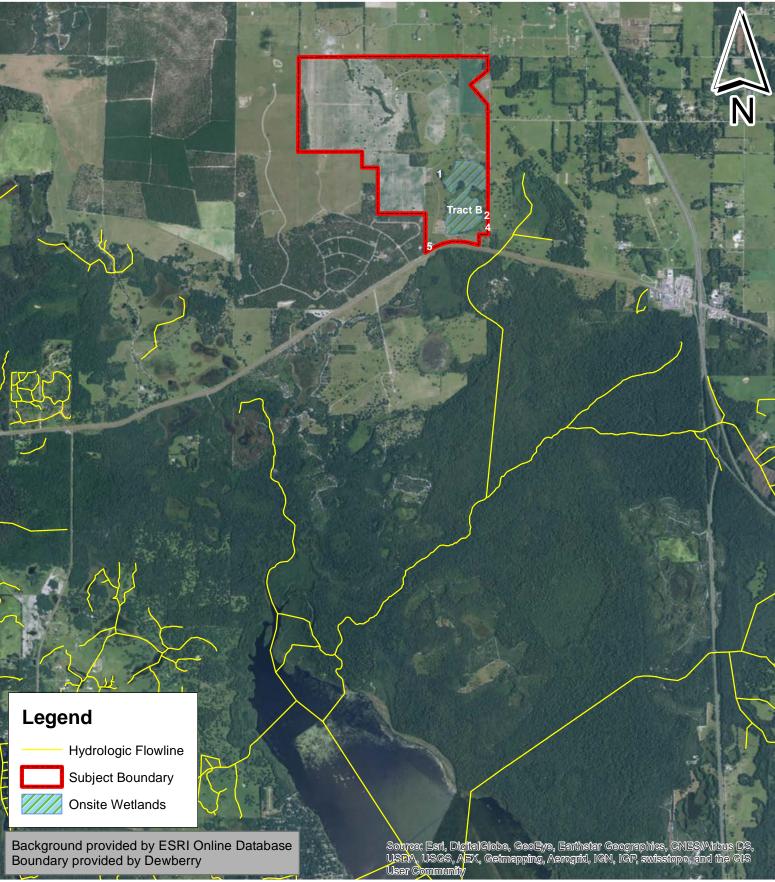


Ecological Assessment Figure 4- Wetland Map (Zoomed) Location in Sections 29, 30, and 32, T18S, R22E Sumter County, Florida

			Feet
0	250	500	1,000



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Ecological Assessment Figure 5- Flowline Map Location in Sections 29, 30, and 32, T18S, R22E Sumter County, Florida

Feet 0 2,000 4,000 8,000



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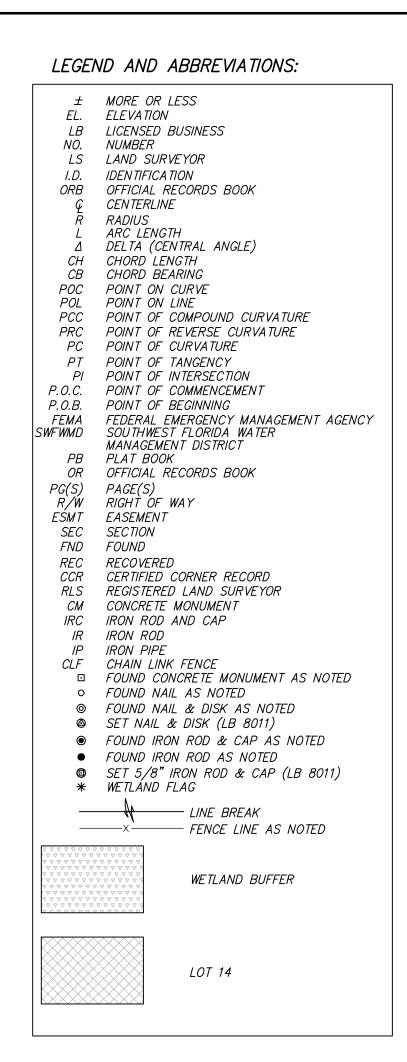
Panasoffkee Preserve Ecological Assessment

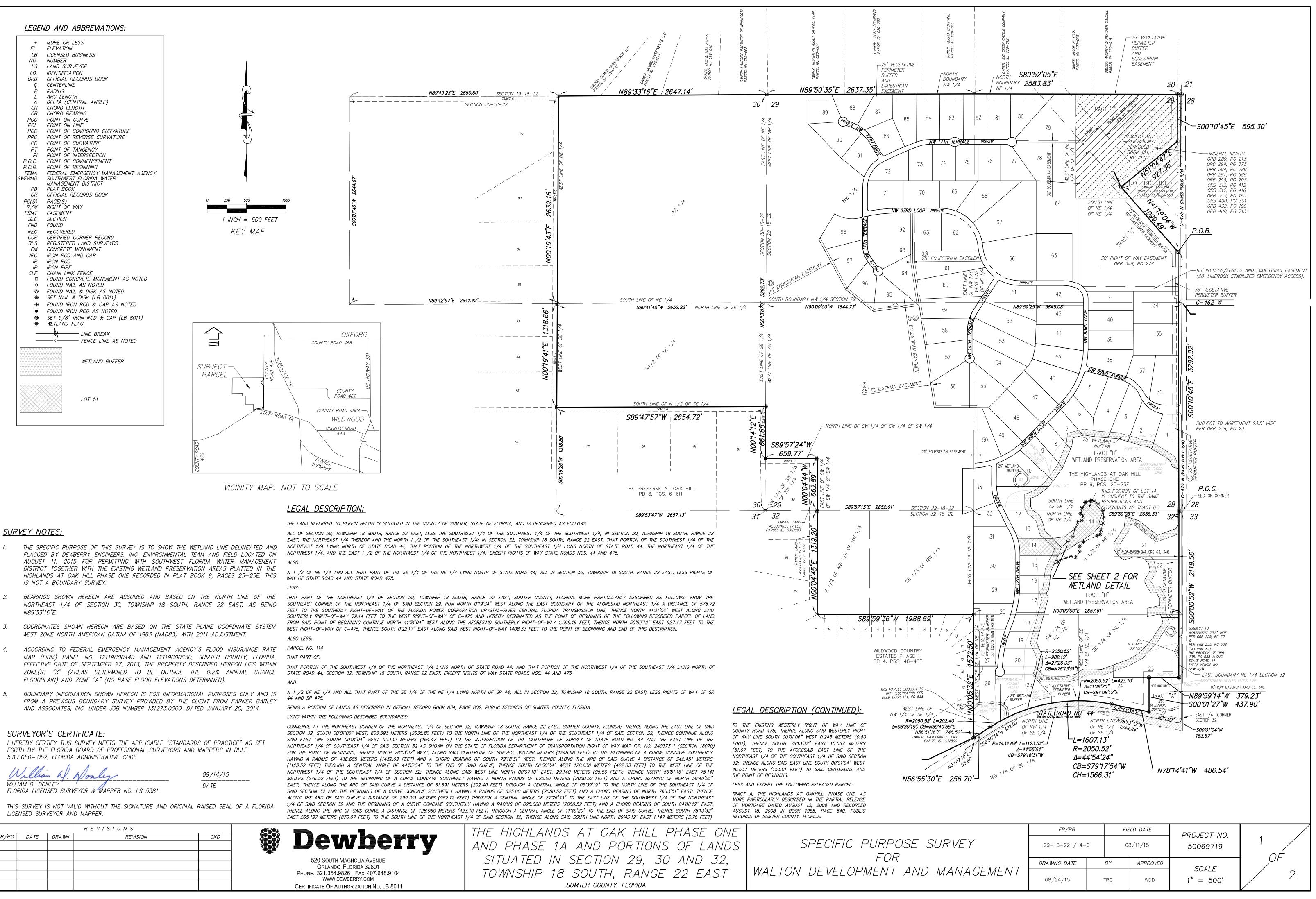
Figure 6- Flowline Map (Zoomed) Location in Sections 29, 30, and 32, T18S, R22E Sumter County, Florida

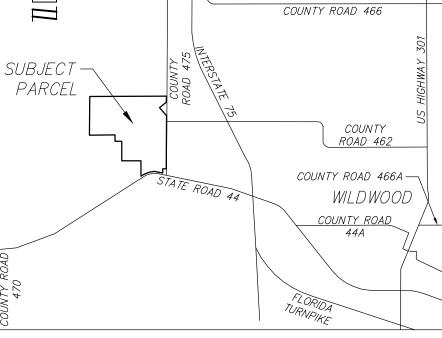
			Feet
0	500	1,000	2,000



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FOR T HAVIN	√ RULE	MAPPERS IN	VEYORS AND	OARD OF PROFESSIONAL SURV. DMINISTRATIVE CODE.				
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SURVEY NOTES:

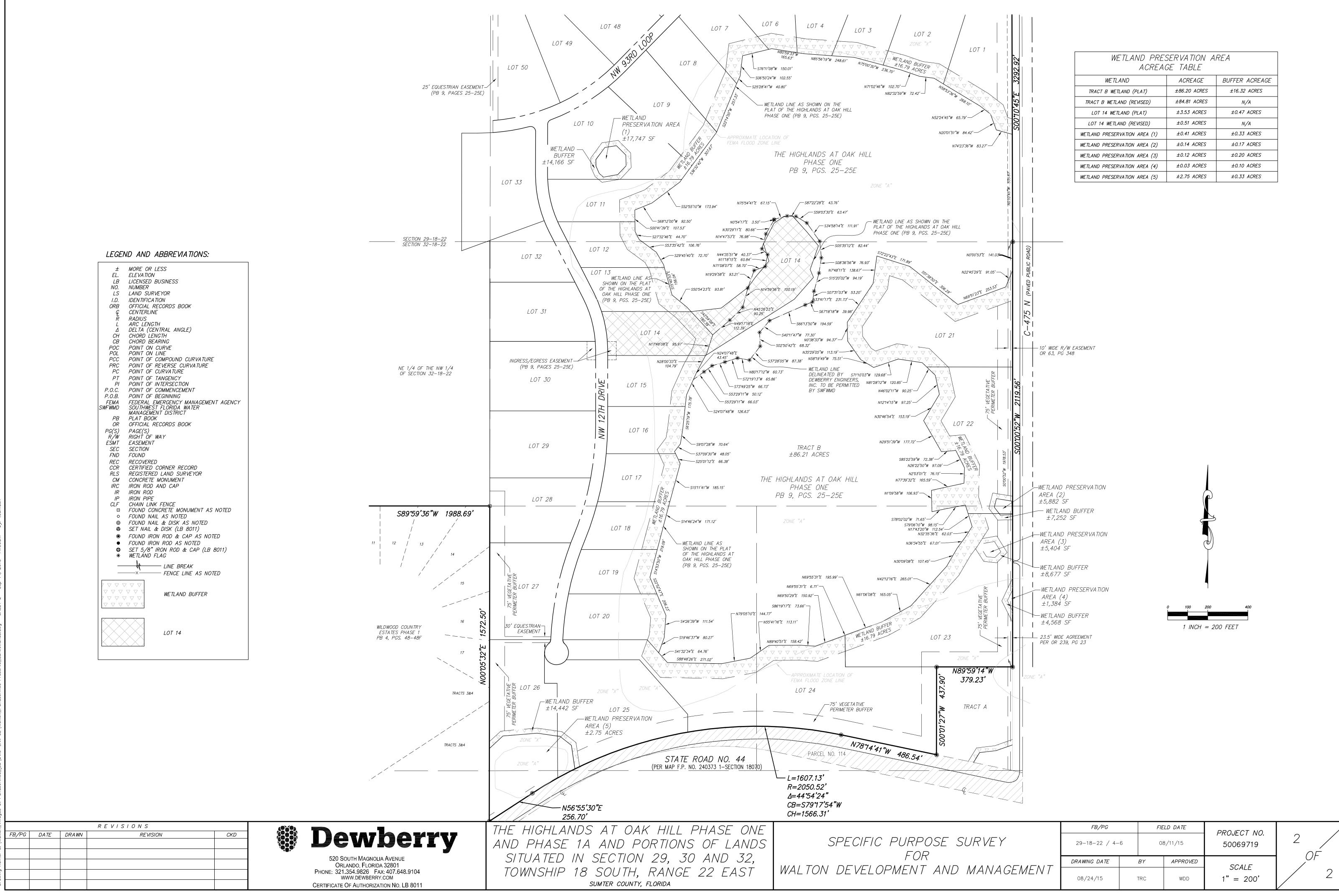
N89**°**33'16"E.

IS NOT A BOUNDARY SURVEY.

SURVEYOR'S CERTIFICATE:



ſy	THE HIGHLANDS AT OAK HILL PHASE ONE AND PHASE 1A AND PORTIONS OF LANDS SITUATED IN SECTION 29, 30 AND 32, TOWNSHIP 18 SOUTH, RANGE 22 EAST SUMTER COUNTY, FLORIDA	SPECIFIC PURPO FOR WALTON DEVELOPMENT
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ame: S: \Walton_Villages at Panasoftkee_job\DWG-Civil 3D\Walton_Panasoftkee Preserve_Surwetlands.dwg SHEET 2 Sep 14, 2015 11:50am by: t

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Panasoffkee Preserve	City/County: S	umter	Sampling Date: Dec 10, 2016
Applicant/Owner: Walton Development and Management		State: Florida	Sampling Point: Tract B
Investigator(s): Clark Modica	Section, Towns	hip, Range: <u>29/30/32</u>	
Landform (hillslope, terrace, etc.) upland	Local relief (concav	e, convex, none): <u>none</u>	Slope (%):
Subregion (LRR or MLRA): LRR U Lat: 28°	°53'5.9" N	Long: <u>82°7'31.8" W</u>	Datum:
Soil Map Unit Name: Candler sand, 0 to 5 percent slope		NWI Classification:	
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes <u>X</u> N	lo(If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly di	isturbed? Are	"Normal Circumstances	" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally probl	lematic? (If r	eeded, explain any answ	vers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres on Living Root Sediment Deposits (B2) Presence of Reduced Iron (C4) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remarks) Water-Stained Leaves (B9) Heres (B2)	Crayfish Burrows (C8)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	nd Hydrology Present? Yes No X
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	nd Hydrology Present? Yes No _X_
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections Aerial photos available	i), if available:
Remarks:	
Upland data point for Tract B wetland	

VEGETATION (Four Strata) - Use scientific names of plants.

		Dominance Test worksheet:
Tree Stratum (Plot size: 20ft)	Absolute Dominant Indicator % Cover Species? Status	Number of Dominant Species
1. Quercus virginiana (Oak,live)	40 Y FACU	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3 4		Species Across All Strata: <u>4</u> (B)
5.		Demont of Deminent Creation
6		Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B)
7		Prevalence Index worksheet:
8	40 = Total Cover	Total % Cover of: Multiply by:
50 % of total cover: 20		OBL species 0 x 1 = 0
		FACW species 0 X 2 = 0
Sapling/Shrub Stratum (Plot size:) 1.		FAC species <u>15</u> X 3 = <u>45</u>
1. 2.		FACU species <u>110</u> X 4 = <u>440</u>
3.		UPL species <u>0</u> X 5 = <u>0</u>
4		Column Totals: <u>125</u> (A) <u>485</u> (B)
5		
6. 7.		Prevalence Index = B/A = <u>3.88</u>
7		Hydrophytic Vegetation Indicators: 1 – Rapid Test for Hydrophytic Vegetation
	0 = Total Cover	2 - Dominance Test is > 50%
20ft	20 % of total cover: 0	$3 - Prevalence Test is \leq 3.0^{1}$
Herb Stratum (Plot size:)		Problematic Hydrophytic Vegetation ¹ (Explain)
1. Paspalum notatum (Grass,bahia)	45 Y FACU	
2. Cynodon dactylon (Grass,bermuda)	25 Y FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3		Definitions of Vegetation Strata:
4		Tree – Woody plants, excluding woody vines,
5 6.		approximately 20 ft (6 m) or more in height and 3 in.
6 7		(7.6 cm) or larger in diameter at breast height (DBH).
8.		Sapling – Woody plants, excluding woody vines,
9		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
10		
11 12.		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
··	70 = Total Cover	
50 % of total cover: 35	20 % of total cover: 14	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody
Woody Vine Stratum (Plot size: 20ft)		plants, except woody vines, less than approximately
Woody Vine Stratum (Plot size: <u>20ft</u>) 1. Vitis rotundifolia (Grape,muscadine)	15 Y FAC	3 ft (1 m) in height.
2		Woody vine – All woody vines, regardless of height.
3.		
4		
5		Hydrophytic Vegetation
	15 = Total Cover	Present? Yes <u>No X</u>
50 % of total cover: 7.5	20 % of total cover:3	
Remarks: (Include photo numbers here or on a separate	sheet.)	

SOIL

Profile Desc Depth	ription: (Describe Matrix	to the depth		nent the in dox Featur		or confirm	the absence	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rei	narks	
0-8	10YR4/2				N/A	N/A	N/A			
				<u> </u>						
8-30	10YR6/4				N/A	N/A	N/A			
				<u> </u>						
¹ Type: C=C	oncentration, D=Dep	pletion, RM=F	Reduced Matrix, C	S=Covered	l or Coate	d Sand Gra	ains. ²	Location: PL=Pore I	_ining, M=Ma	atrix.
Hydric Soil	Indicators:						Indica	ators for Problemat	ic Hydric Se	oils³:
Histosol ((A1)		Polyvalue Be	low Surfac	e (S8) (Lf	RR S, T, U)) 1 cm	Muck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Thin Dark Su	face (S9) (LRR S, T	, U)	2 cm	Muck (A10) (LRR S)	
Black His			Loamy Gleye			-		iced Vertic (F18) (οι	•	150A.B)
	n Sulfide (A4)		Loamy Gleye			-,		mont Floodplain Soil		-
					2)					(1,0,1)
	Layers (A5)	T 10	Depleted Mat		2)			nalous Bright Loamy	JUIIS (F2U)	
	Bodies (A6) (LRR P	-	Redox Dark \$	`	,		-	LRA 153B)		
	cky Mineral (A7) (LF	-	Depleted Dar					Parent Material (TF2		
	esence (A8) (LRR U)	Redox Depre	•)			Shallow Dark Surface		
1 cm Muo	ck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Othe	r (Explain in Remark	s)	
Depleted	Below Dark Surface	e (A11)	Depleted Ocl	nric (F11) (MLRA 15	1)				
Thick Da	rk Surface (A12)		Iron Mangane	ese Masse	s (F12) (L	RR O, P, 1	Γ) _{3Indi}	cators of Hydrophytic	vegetation	and
Coast Pra	airie Redox (A16) (N	/ILRA 150A)	Umbric Surfa	ce (F13) (L	.RR P, T,	U)		ind hydrology must b		
Sandy M	ucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (MLF	RA 151)			rbed or problematic.	, o p. 000, u	
Sandy Gl	eyed Matrix (S4)	-	Reduced Ver	tic (F18) (N	/LRA 150	A, 150B)				
Sandy Re	-		Piedmont Flo	• • •			9A)			
	Matrix (S6)		Anomalous E				-	(153D)		
	face (S7) (LRR P, S	6. T. U)			ly collo (l	20) (210)		, 1002)		
		, , -,								
Restrictive I	Layer (if observed)	:								
Туре:					Hyd	ric Soil Pr	esent?	Yes	No	Х
Depth (in	ches):									
Remarks:										
Sandy uplan	d soils									

Additional Ve	getation Samples							
	Abs%	Dom	Ind		A	Abs%	Dom	Ind
	Cove Tree Stratum	r Spec?	Status	20.	(Cover	Spec?	Status
9.	Thee Stratum			20.				
10.				21. 22.				
11.				23.				
12. 13.				24. 25.				
14.				26.				
15.				26. 27.				
16.				28. 29.				
17. 18.				29. 30.				
19.				31.				
	Sapling/Shrub Stratum			20.				
9.				21.				
10.				22. 23.				
11. 12.				23. 24.				
13.				25.				
14. 15.				26. 27.				
15. 16.				27. 28.				
16.				28. 29				
18.				30.				-
19.				31.				
	Herb Stratum	T		38.				
13.				39.				
14. 15				40. 41.				
16.				42.				
17.				43.				
18.				44.				
19. 20.				45. 46.				
20.				47.				
21. 22.				48.				
23. 24.				49.				
24. 25.				50. 51.				
26.				52.				
27.				53.				
28.				54.				
29. 30.				55. 56.				
30. 31.				50. 57.				
32.				58.				
33.				59.				
34.				60.				
35. 36.				61. 62.				
37.				63.				
	Vine Stratum		1	17.				
6.				18.				
7.				19.				
8. 9.				20. 21.				
9. 10.				22.				
11.				23.				
12.				24.				
13.				25.				
14. 15.				26. 27.				
16.				28.				+

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Panasoffkee Preserve	City/County: <u>Sumter</u> Sam	pling Date: Dec 10, 2016
Applicant/Owner: Walton Development and Management	State: Florida	Sampling Point: Tract B
Investigator(s): Clark Modica	Section, Township, Range: 29/30/32	
Landform (hillslope, terrace, etc.) wetland L	ocal relief (concave, convex, none): <u>none</u>	Slope (%):
Subregion (LRR or MLRA): LRR U Lat: 28°53'7.	3" N Long: <u>82°7'23.5" W</u>	Datum:
Soil Map Unit Name: Placid fine sand, depressional	NWI Classification:	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Rem	arks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed	ed? Are "Normal Circumstances" pres	sent? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problemat	ic? (If needed, explain any answers	in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all the	hat apply)	X Surface Soil Cracks (B6)
X Surface Water (A1) Aqua	atic Fauna (B13)	X Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl	Drainage Patterns (B10)	
X Saturation (A3) Hydr	rogen Sulfide Odor (C1)	Moss Trim Lines (B16)
	lized Rhizospheres on Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Pres	sence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	ent Iron Reduction in Tilled Soils (C6)	X Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin	Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Othe	er (Explain in Remarks)	Shallow Aquitard (D3)
X Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes X No Depth	n (inches): <u>30-40</u>	
Water Table Present? Yes No X Depth	n (inches):	
Saturation Present? Yes X No Depth	n (inches):	rology Present? Yes X No
(includes capillary fringe)		
Aerial photos available Remarks:		

VEGETATION (Four Strata) - Use scientific names of plants.

Absolute Command Indicator Number of Dominant Species (A) 1 More acardina (Bayberry, southern) 5 Y FAC Total Number of Dominant Species (A) 3				Dominance Test worksheet:	
2		% Cover Species	? Status		
4.		<u> 5 Y </u>	FAC	I hat Are OBL, FACW, or FAC:	(A)
6					(B)
8.	6.				(A/B)
5 = Total Cover Total % Cover of: Multiply by: Sapling/Shub Stratum (Plot size:				Prevalence Index worksheet:	
Saping/Shrub Stratum (Plot size:			Cover		
SaplingShrub Stratum (Plot size:) FAC speciesX3 = 2	50 % of total cover: <u>2.5</u>	20 % of total cov	er: 1		
1. FACU species X 4 = 2.	Sapling/Shrub Stratum (Plot size:)				
2.					
3.	2				
5.					
6.					(B)
7.				- Drovelence Index - D/A -	
8.					
		. <u> </u>			on
Herb Stratum (Plot size:) 1. Panicum hemitomon (Maiden-cane) 50 Y OBL 2. Ascyrum edisonianum (St. john's-wort,edison's) 10 OBL 'Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.' 3					
Image: Description of the end of th	20ft	20 % of total cov	er: 0	-3 – Prevalence Test is ≤ 3.0 ¹	
2. Ascyrum edisonianum (St. john's-wort, edison's) 10 OBL Indicators of nydric soli and wetrand hydrology must be present, unless disturbed or problematic. 3.	Herb Stratum (Plot size:)			Problematic Hydrophytic Vegetation ¹ (Ex	(plain)
2. Ascyrum edisonianum (St. joinn s-wort, edison s) 10 OBL be present, unless disturbed or problematic." 3	1. Panicum hemitomon (Maiden-cane)	50 Y	OBL	- Indicators of hydric coll and watland hydr	alagu muat
3.		10	OBL		
5.					
6.				- Tree – Woody plants, excluding woody vine	s
7.				approximately 20 ft (6 m) or more in height	and 3 in.
8.	7			(7.6 cm) or larger in diameter at breast heig	ht (DBH).
10.					
11.					and less
12.	4.4			-	
60 = Total Cover 50 % of total cover: 30 20 % of total cover: 12 Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood plants, except woody vines, less than approximately 3 ft (1 m) in height. 1.					
Woody Vine Stratum (Plot size:) 1. 2. 3. 4.		60 = Total C	Cover		
1.		20 % of total cov	er: <u>12</u>	 herbaceous vines, regardless of size. Inclu plants, except woody vines, less than approx 	des woody
2.				Woody vine All woody vince regardless	of boight
4				- All woody villes, regardless	or neight.
5.				-	
0 = Total Cover 50 % of total cover: 0 20 % of total cover: 0 Vegetation Present? Yes X No	_			- Hydrophytic	
50 % of total cover: 20 % of total cover:0			Cover	Vegetation	
Remarks: (Include photo numbers here or on a separate sheet.)	50 % of total cover:0	20 % of total cov	er: 0	Present? Yes \underline{X} No	
Remarks: (Include photo numbers here or on a separate sheet.)		_		-	
Remarks: (Include photo numbers here or on a separate sheet.)					
Remarks: (Include photo numbers here or on a separate sheet.)					
	Remarks: (Include photo numbers here or on a separate	sheet.)			
	L				

SOIL

l

Profile Desc Depth	ription: (Describe Matrix	to the depth		nent the ir		or confirm	the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR2/1				N/A	N/A	N/A	
10-16	10YR3/1			<u> </u>	N/A	N/A	N/A	
							·	
¹ Type: C=Co	oncentration, D=De	pletion, RM=I	Reduced Matrix, C	S=Covered	l or Coate	ed Sand Gra	ains. ² L	ocation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	tors for Problematic Hydric Soils ³ :
Histosol ((A1)		Polyvalue Be	low Surfac	e (S8) (L l	RR S, T, U)	1 cm l	Muck (A9) (LRR O)
Histic Epi	ipedon (A2)		Thin Dark Su	ıface (S9) (LRR S, T	, U)	2 cm l	Muck (A10) (LRR S)
Black His			Loamy Gleye			-		ced Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			-,		nont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma		_)			alous Bright Loamy Soils (F20)
		T 10	Redox Dark		2)			
	Bodies (A6) (LRR P	-		•	,			-RA 153B)
	cky Mineral (A7) (LF	-	Depleted Da					Parent Material (TF2)
	esence (A8) (LRR U)	Redox Depre)			Shallow Dark Surface (TF12)
	ck (A9) (LRR P, T)		Marl (F10) (L	-			Other	(Explain in Remarks)
	Below Dark Surfac	e (A11)	Depleted Ocl			-		
	rk Surface (A12)		Iron Mangan) ³ Indica	ators of Hydrophytic vegetation and
Coast Pra	airie Redox (A16) (N	MLRA 150A)	Umbric Surfa	ice (F13) (I	LRR P, T,	U)		nd hydrology must be present, unless
Sandy M	ucky Mineral (S1) (I	LRR O, S)	Delta Ochric	(F17) (ML	RA 151)		disturl	bed or problematic.
Sandy GI	eyed Matrix (S4)		Reduced Ver	rtic (F18) (MLRA 150	DA, 150B)		
Sandy Re	edox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 149	A)	
X Stripped			Anomalous E	Bright Loam	ny Soils (F	20) (MLRA	149A, 153C,	153D)
X Dark Sur	face (S7) (LRR P, S	S, T, U)						
_	Layer (if observed)):						
Type:					Hyd	ric Soil Pr	esent?	Yes <u>X</u> No
Depth (in	ches):							
Remarks:								
l								
1								

Additional Ve	getation Samples							
	Abs%	Dom	Ind		A	Abs%	Dom	Ind
	Cove Tree Stratum	r Spec?	Status	20.	(Cover	Spec?	Status
9.	Thee Stratum			20.				
10.				21. 22.				
11.				23.				
12. 13.				24. 25.				
14.				26.				
15.				26. 27.				
16.				28. 29.				
17. 18.				29. 30.				
19.				31.				
	Sapling/Shrub Stratum			20.				
9.				21.				
10.				22. 23.				
11. 12.				23. 24.				
13.				25.				
14. 15.				26. 27.				
15. 16.				27. 28.				
16.				28. 29				
18.				30.				-
19.				31.				
	Herb Stratum	T		38.				
13.				39.				
14. 15				40. 41.				
16.				42.				
17.				43.				
18.				44.				
19. 20.				45. 46.				
20.				47.				
21. 22.				48.				
23. 24.				49.				
24. 25.				50. 51.				
26.				52.				
27.				53.				
28.				54.				
29. 30.				55. 56.				
30. 31.				50. 57.				
32.				58.				
33.				59.				
34.				60.				
35. 36.				61. 62.				
37.				63.				
	Vine Stratum		1	17.				1
6.				18.				
7.				19.				<u> </u>
8. 9.				20. 21.				
9. 10.				22.				
11.				23.				
12.				24.				
13.				25.				
14. 15.				26. 27.				
16.				28.				+

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Panasoffkee Preserve	City/County: Sumter	Sampling Date: Dec 10, 2016
Applicant/Owner: Walton Development and Management	State: Florida	Sampling Point: 1
Investigator(s): Clark Modica	Section, Township, Range: 29/30/32	2
Landform (hillslope, terrace, etc.) Upland	Local relief (concave, convex, none): non	ne Slope (%):
Subregion (LRR or MLRA): LRR U Lat: 28°53'	16.6" N Long: <u>82°7'35.1" W</u>	Datum:
Soil Map Unit Name: Candler sand, 0 to 5 percent slope	NWI Classification:	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes <u>X</u> No(If no, explain	in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	rbed? Are "Normal Circumstanc	ces" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problem	atic? (If needed, explain any a	nswers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

HYDROLOGY

Wetland Hydrology Indica	itors:					<u>c</u>	Secondary Indicat	ors (minimum o	of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Presence of Reduced Iron (C4) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Image: Comparison of Campact (Campact)						ving Roots (C3)	Drainage Pat Moss Trim Li Dry-Season V Crayfish Burr Saturation Vi Geomorphic Shallow Aqui FAC-Neutral	etated Concave terns (B10) nes (B16) Vater Table (C ows (C8) sible on Aerial I Position (D2) tard (D3)	2) magery (C9)
Surface Water Present?	Yes	No	x	Depth (inches):					
Water Table Present?	Yes	No		,					
Saturation Present? (includes capillary fringe)	Yes	No				Wetland Hydrol	logy Present?	Yes	No <u>X</u>
Describe Recorded Data (s Aerial photographs are avai		ge, mon	itoring	g well, aerial photo	os, previous in	spections), if availab	ble:		
Remarks:									
This is an upland data point	for Wetlan	id 1							

VEGETATION (Four Strata) - Use scientific names of plants.

Г

Sampling Point	1
oumphing i onic	•

	Abaquita Dominant India-t-	Dominance Test worksneet:
Tree Stratum (Plot size: 20ft)	Absolute Dominant Indicator	
· · · · · · · · · · · · · · · · · · ·	<u>% Cover</u> <u>Species?</u> <u>Status</u>	Number of Dominant Species
1. Quercus virginiana (Oak,live)	<u>90 Y FACU</u>	That Are OBL, FACW, or FAC: 0 (A)
2		
3.		Total Number of Dominant
4		Species Across All Strata: 3 (B)
		-
5		Percent of Dominant Species
6		- That Are OBL, FACW, or FAC: 0 (A/B)
7		
8.		Prevalence Index worksheet:
0	90 = Total Cover	Total % Cover of: Multiply by:
50 % of total cover: 45	20 % of total cover: 18	OBL species 0 x 1 = 0
		FACW species 0 X 2 = 0
Sapling/Shrub Stratum (Plot size:)		
		FAC species 0 X 3 = 0
1		FACU species <u>170</u> X 4 = <u>680</u>
2		UPL species 0 X 5 = 0
3		
4		Column Totals: <u>170</u> (A) <u>680</u> (B)
-		-
•		-
6		Prevalence Index = B/A =4
7		- Hydrophytic Vegetation Indicators:
8.		
	0 = Total Cover	 1 – Rapid Test for Hydrophytic Vegetation
004 0		2 – Dominance Test is > 50%
20ft <u>0</u>	20 % of total cover: 0	$3 - Prevalence Test is \leq 3.0^{1}$
Herb Stratum (Plot size:)		Problematic Hydrophytic Vegetation ¹ (Explain)
1. Cynodon dactylon (Grass,bermuda)	40 Y FACU	
2. Paspalum notatum (Grass,bahia)	40 Y FACU	¹ Indicators of hydric soil and wetland hydrology must
· · ·		 be present, unless disturbed or problematic.
3		 Definitions of Vegetation Strata:
4		
5		Tree – Woody plants, excluding woody vines,
6		approximately 20 ft (6 m) or more in height and 3 in.
		(7.6 cm) or larger in diameter at breast height (DBH).
7		_
8		Sapling – Woody plants, excluding woody vines,
9.		approximately 20 ft (6 m) or more in height and less
		than 3 in. (7.6 cm) DBH.
10		-
11		 Shrub – Woody plants, excluding woody vines,
12		approximately 3 to 20 ft (1 to 6 m) in height.
	80 = Total Cover	
50 % of total cover: 40		Herb – All herbaceous (non-woody) plants, including
		 herbaceous vines, regardless of size. Includes woody
		plants, except woody vines, less than approximately
Woody Vine Stratum (Plot size:)		3 ft (1 m) in height.
1		
		Woody vine – All woody vines, regardless of height.
		-
3		-
4		_
5.		Hydrophytic
		Vegetation
	0 = Total Cover	Present? Yes <u>No X</u>
50 % of total cover: 0	20 % of total cover: 0	
		-
Remarks: (Include photo numbers here or on a separate	sheet.)	

SOIL

Sampling Point: 1

Profile Dese	cription: (Describe Matrix			ment the in edox Featur		r confirm	the absence o	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rem	arks
0-8	10YR4/2				N/A	N/A	N/A		
8-30	10YR6/4				N/A	N/A	N/A		
. <u></u>		<u> </u>					. <u></u>		
¹ Type: C=C	oncentration, D=De	epletion, RM=I	Reduced Matrix, C	S=Covered	or Coate	d Sand Gra	ains. ² Lo	ocation: PL=Pore Li	ning, M=Matrix.
Hydric Soil	Indicators:						Indicat	ors for Problemation	: Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surfac	e (S8) (LF	RR S, T, U)	1 cm N	luck (A9) (LRR O)	
Histic Ep	ipedon (A2)		Thin Dark Su	uface (S9) (LRR S, T	U)	2 cm N	luck (A10) (LRR S)	
Black His	stic (A3)		Loamy Gleye	ed Matrix (F	1) (LRR ()			side MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			,		· · · ·	(F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma	•	,			alous Bright Loamy S	
	Bodies (A6) (LRR I	о т IN	Redox Dark	. ,	3)			RA 153B)	
	cky Mineral (A7) (L	-	Depleted Dark					arent Material (TF2)	
	esence (A8) (LRR	-						, ,	
		•	Redox Depre	•)			hallow Dark Surface	
	ck (A9) (LRR P, T)		Marl (F10) (L			•	Other	Explain in Remarks)
	Below Dark Surfa	ce (A11)	Depleted Oc	• • •		•	-		
	rk Surface (A12)		Iron Mangan) ³ Indica	tors of Hydrophytic	vegetation and
	airie Redox (A16)	-	Umbric Surfa	• • •		U)		d hydrology must be	e present, unless
	ucky Mineral (S1)	(LRR O, S)	Delta Ochric	• • •			disturb	ed or problematic.	
Sandy G	leyed Matrix (S4)		Reduced Ver	rtic (F18) (N	ILRA 150	A, 150B)			
Sandy R	edox (S5)		Piedmont Flo	oodplain So	ils (F19) (MLRA 149	A)		
**	Matrix (S6)		Anomalous E	Bright Loam	ıy Soils (F	20) (MLRA	149A, 153C,	153D)	
Dark Sur	face (S7) (LRR P,	S, T, U)							
_	Layer (if observed	I):							
Туре:					Hyd	ric Soil Pr	esent?	Yes	<u>No X</u>
Depth (ir Remarks:	nches):								
Sandy uplan	d soils								

Additional Ve	getation Samples							
	Abs%	Dom	Ind		A	Abs%	Dom	Ind
	Cove Tree Stratum	r Spec?	Status	20.	(Cover	Spec?	Status
9.	Thee Stratum			20.				
10.				21. 22.				
11.				23.				
12. 13.				24. 25.				
14.				26.				
15.				26. 27.				
16.				28. 29.				
17. 18.				29. 30.				
19.				31.				
	Sapling/Shrub Stratum			20.				
9.				21.				
10.				22. 23.				
11. 12.				23. 24.				
13.				25.				
14. 15.				26. 27.				
15. 16.				27. 28.				
16.				28. 29				
18.				30.				-
19.				31.				
	Herb Stratum	T		38.				
13.				39.				
14. 15				40. 41.				
16.				42.				
17.				43.				
18.				44.				
19. 20.				45. 46.				
20.				47.				
21. 22.				48.				
23. 24.				49.				
24. 25.				50. 51.				
26.				52.				
27.				53.				
28.				54.				
29. 30.				55. 56.				
30. 31.				50. 57.				
32.				58.				
33.				59.				
34.				60.				
35. 36.				61. 62.				
37.				63.				
	Vine Stratum		1	17.				1
6.				18.				
7.				19.				
8. 9.				20. 21.				
9. 10.				22.				
11.				23.				
12.				24.				
13.				25.				
14. 15.				26. 27.				
16.				28.				+

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Panasoffkee Preserve	City/County: Sumter	Sampling Date: Dec 10, 2016
Applicant/Owner: Walton Development and Management	State: Florida	Sampling Point: <u>1</u>
Investigator(s): Clark Modica	Section, Township, Range: 29/30/32	
Landform (hillslope, terrace, etc.) wetland	Local relief (concave, convex, none): none	Slope (%):
Subregion (LRR or MLRA): LRR U Lat: 28°53'	'17.7" N Long: <u>82°7'34.5" W</u>	Datum:
Soil Map Unit Name: Candler sand, 0 to 5 percent slope	NWI Classification:	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes <u>X</u> No(If no, explain ir	n Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	rbed? Are "Normal Circumstance	s" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problem	atic? (If needed, explain any ans	swers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	x x x	No No No	 Is the Sampled Area within a Wetland?	Yes	No
Remarks:						

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	X Moss Trim Lines (B16)
X Water Marks (B1) Oxidized Rhizospheres on Liv	ring Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4	4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tille	d Soils (C6) X Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
X Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes No X Depth (inches):	Wetland Underlage Present2 Vac V
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins Aerial photos are available	pections), if available:
	pections), if available:
	pections), if available:
Aerial photos are available	pections), if available:
Aerial photos are available Remarks:	pections), if available:
Aerial photos are available Remarks:	pections), if available:
Aerial photos are available Remarks:	pections), if available:
Aerial photos are available Remarks:	pections), if available:
Aerial photos are available Remarks:	pections), if available:
Aerial photos are available Remarks:	pections), if available:
Aerial photos are available Remarks:	pections), if available:
Aerial photos are available Remarks:	pections), if available:
Aerial photos are available Remarks:	pections), if available:
Aerial photos are available Remarks:	pections), if available:
Aerial photos are available Remarks:	pections), if available:
Aerial photos are available Remarks:	pections), if available:

VEGETATION (Four Strata) - Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksneet:	
Tree Stratum (Plot size: 20ft)		Species?	Status	Number of Dominant Species	
1. Salix caroliniana (Willow,coastal-plain)	20	Y	OBL		A)
			-		-,
				Total Number of Dominant	
				Species Across All Strata: (I	B)
				-	,
5 6.				Percent of Dominant Species	
7				That Are OBL, FACW, or FAC: (A	/B)
7		·		Prevalence Index worksheet:	
8	20	= Total Cove		Total % Cover of: Multiply by:	
50 % of total cover: <u>10</u>	20 % 0	of total cover:	4	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size:)				FACW species X 2 =	
				FAC species X 3 =	
1				FACU species X 4 =	
2				UPL species X 5 =	
3		· ·		Column Totals: (A)	(D)
4					(D)
5				-	
6				Prevalence Index = B/A =	
7				Hydrophytic Vegetation Indicators:	
8		·		X 1 – Rapid Test for Hydrophytic Vegetation	
	0			2 – Dominance Test is > 50%	
20ft <u>0</u>	20 % (of total cover:	0	$3 - Prevalence Test is \le 3.0^1$	
				Problematic Hydrophytic Vegetation ¹ (Explain)	
Herb Stratum (Plot size:)					
1. Cephalanthus occidentalis (Buttonbush,common)	30	<u>Y</u>	OBL	¹ Indicators of hydric soil and wetland hydrology n	nust
2. Panicum hemitomon (Maiden-cane)	15	Y	OBL	- be present, unless disturbed or problematic.	naot
3				Definitions of Vegetation Strata:	
4					
5				Tree – Woody plants, excluding woody vines,	
6		·		approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB	n. H)
7		·		- (7.0 cm) of larger in diameter at breast height (DD).
8		. <u> </u>		Sapling – Woody plants, excluding woody vines,	
9				approximately 20 ft (6 m) or more in height and les	SS
10				than 3 in. (7.6 cm) DBH.	
11.				Shrub – Woody plants, excluding woody vines,	
12.				approximately 3 to 20 ft (1 to 6 m) in height.	
	45	= Total Cove	er		
50 % of total cover: 22.5	20 % (of total cover:	9	Herb – All herbaceous (non-woody) plants, includi herbaceous vines, regardless of size. Includes wo	
	_			plants, except woody vines, less than approximate	
Woody Vine Stratum (Plot size:)				3 ft (1 m) in height.	,,,
1					
2.				Woody vine – All woody vines, regardless of heig	ht.
3.					
4.					
5.				Hydrophytic	
	0	= Total Cove	er	Vegetation	
50 % of total cover: 0	20 %	of total cover:		Present? Yes X No	_
	20 /00		0	-	
Remarks: (Include photo numbers here or on a separate	sheet)				
Remarks. (include photo numbers here of on a separate	sneet.)				

SOIL

Sampling Point: 1

Profile Deso Depth	cription: (Describe Matrix			ment the in edox Featur		or confirm	the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR4/2				N/A	N/A	N/A	
8-30	10YR6/4				N/A	N/A	N/A	
	1011(0/4							
						·		
¹ Type: C=C	oncentration, D=De	epletion, RM=	Reduced Matrix, C	S=Covered	l or Coate	d Sand Gr	ains. ² l	Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surfac	e (S8) (Lf	RR S, T, U)1 cm	Muck (A9) (LRR O)
Histic Ep	ipedon (A2)		Thin Dark Su	uface (S9) (LRR S, T	, U)	2 cm	Muck (A10) (LRR S)
Black His	stic (A3)		Loamy Gleye	ed Matrix (F	1) (LRR (D)	Redu	ced Vertic (F18) (outside MLRA 150A,B)
Hydroger	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	2)		Piedr	mont Floodplain Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Ma	trix (F3)			Anon	nalous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F	P. T. U)	 Redox Dark		5)			LRA 153B)
	cky Mineral (A7) (L	-	Depleted Da	•	,		-	Parent Material (TF2)
	esence (A8) (LRR I	-	Redox Depre					Shallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	,	Marl (F10) (L		/			r (Explain in Remarks)
	Below Dark Surfac	e (A11)	Depleted Oc	•	MI RA 15	1)		
	rk Surface (A12)		Iron Mangan			-	n	
	airie Redox (A16) (MI RA 150A)					"indic	cators of Hydrophytic vegetation and
	ucky Mineral (S1) (Delta Ochric			0)		nd hydrology must be present, unless rbed or problematic.
	leyed Matrix (S4)		Reduced Ve	• • •		14 150B)	aistai	
	edox (S5)		Piedmont Flo	. , .			201	
							-	152D)
	Matrix (S6) face (S7) (LRR P, S	ят н		Sright Loan	iy Solis (F		A 149A, 153C	, 1530)
		5, 1, 5,						
	Layer (if observed):						
Туре:					Hyd	ric Soil Pr	esent?	Yes X No
Depth (in	iches):				_			
Remarks:								
r tointainto.								
1								
1								
1								

Additional Ve	getation Samples							
	Abs%	Dom	Ind		A	Abs%	Dom	Ind
	Cove Tree Stratum	r Spec?	Status	20.	(Cover	Spec?	Status
9.	Thee Stratum			20.				
10.				21. 22.				
11.				23.				
12. 13.				24. 25.				
14.				26.				
15.				26. 27.				
16.				28. 29.				
17. 18.				29. 30.				
19.				31.				
	Sapling/Shrub Stratum			20.				
9.				21.				
10.				22. 23.				
11. 12.				23. 24.				
13.				25.				
14. 15.				26. 27.				
15. 16.				27. 28.				
16.				28. 29				
18.				30.				-
19.				31.				
	Herb Stratum	T		38.				
13.				39.				
14. 15				40. 41.				
16.				42.				
17.				43.				
18.				44.				
19. 20.				45. 46.				
20.				47.				
21. 22.				48.				
23. 24.				49.				
24. 25.				50. 51.				
26.				52.				
27.				53.				
28.				54.				
29. 30.				55. 56.				
30. 31.				50. 57.				
32.				58.				
33.				59.				
34.				60.				
35. 36.				61. 62.				
37.				63.				
	Vine Stratum		1	17.				
6.				18.				
7.				19.				<u> </u>
8. 9.				20. 21.				
9. 10.				22.				
11.				23.				
12.				24.				
13.				25.				
14. 15.				26. 27.				
16.				28.				+

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Panasoffkee Preserve	City/County: Sumter	Sampling Da	ate: Dec 10, 2016
Applicant/Owner: Walton Development and Management	State:	Florida Samplin	ig Point: 2
Investigator(s): Clark Modica	Section, Township, Range	29/30/32	
Landform (hillslope, terrace, etc.) upland	Local relief (concave, convex,	none): <u>none</u> S	lope (%):
Subregion (LRR or MLRA): LRR U Lat: 28°53	'0.8" N Long: 82°	7'14.2" W [Datum:
Soil Map Unit Name: Myakka sand	NWI Clas	sification:	_
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes <u>X</u> No(Ifr	no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrologysignificantly distu	rbed? Are "Normal C	ircumstances" present?	Yes X No
Are Vegetation, Soil, or Hydrologynaturally problem	atic? (If needed, exp	lain any answers in Rema	arks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres on Liv	ing Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4	4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tille	d Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No_X Depth (inches):	Wetland Hydrology Present? Yes No X
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins Aerial photographs	pections), if available:
	pections), if available:
Aerial photographs	pections), if available:
Aerial photographs Remarks:	pections), if available:
Aerial photographs Remarks:	pections), if available:
Aerial photographs Remarks:	pections), if available:

VEGETATION (Four Strata) - Use scientific names of plants.

		Dominance Test worksheet:
Tree Stratum (Plot size:) 1	Absolute Dominant Indicator % Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2 3 4		Total Number of Dominant Species Across All Strata:2 (B)
5 6 7		Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B)
8		Prevalence Index worksheet: Total % Cover of: Multiply by:
E0 % of total payor:	0 = Total Cover	
50 % of total cover: 0	_ 20 % of total cover: _ 0	
Sapling/Shrub Stratum (Plot size:)		FACW species0 $X 2 = 0$ FAC species0 $X 3 = 0$
1		$= FACU \text{ species} \qquad 100 \qquad X 4 = 400$
2		$\frac{1}{100} x^4 = \frac{1}{400}$
3		
4		_ Column Totals: <u>100</u> (A) <u>400</u> (B)
5 6.		-
		- Prevalence Index = B/A =4
7 8.		- Hydrophytic Vegetation Indicators:
···	0 = Total Cover	1 – Rapid Test for Hydrophytic Vegetation
10ft 0		2 – Dominance Test is > 50%
		$- 3 - \text{Prevalence Test is} \le 3.0^{1}$
Herb Stratum (Plot size:)		Problematic Hydrophytic Vegetation ¹ (Explain)
1. Paspalum notatum (Grass,bahia)	<u>95 Y FACU</u>	¹ Indicators of hydric soil and wetland hydrology must
2		 be present, unless disturbed or problematic.
3		Definitions of Vegetation Strata:
4		
5 6.		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
7		(7.6 cm) or larger in diameter at breast height (DBH).
0		- Sapling – Woody plants, excluding woody vines,
0		approximately 20 ft (6 m) or more in height and less
9 10		than 3 in. (7.6 cm) DBH.
11		 Shrub – Woody plants, excluding woody vines,
12.		approximately 3 to 20 ft (1 to 6 m) in height.
50 % of total cover:47.5	95 = Total Cover 20 % of total cover: 19	 Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody
Woody Vine Stratum (Plot size: <u>10ft</u>)		plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. Passiflora edulis (Passion-flower,purple)	5 Y FACU	
2.		Woody vine – All woody vines, regardless of height.
3.		
4		_
5		Hydrophytic
	5 = Total Cover	Vegetation Present? Yes No X
50 % of total cover: 2.5	20 % of total cover: 1	
Remarks: (Include photo numbers here or on a separate	sheet.)	

SOIL

Sampling Point: 2

Profile Desc Depth	cription: (Describe Matrix			needed to document the indicator or confirm the absence of indicators.) Redox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks		
0-6	N2.5/				N/A	N/A	N/A				
6-12	10YR5/1	<u> </u>		<u> </u>	N/A	N/A	N/A				
¹ Type: C=C	oncentration, D=De	epletion, RM=F	Reduced Matrix, C	S=Covered	d or Coate	d Sand Gra	ains. ² L	ocation: PL=Pore Lir	ning, M=Matrix.		
Hydric Soil	Indicators:						Indica	tors for Problematic	Hydric Soils ³ :		
Histosol	(A1)		Polyvalue Be	low Surfac	e (S8) (LF	RR S, T, U))1 cm l	Muck (A9) (LRR O)			
Histic Ep	ipedon (A2)		Thin Dark Su	ıface (S9) (LRR S, T	, U)	2 cm l	Muck (A10) (LRR S)			
Black His									ced Vertic (F18) (outside MLRA 150A,B)		
	n Sulfide (A4)		Loamy Gleye			,		Piedmont Floodplain Soils (F19) (LRR P, S, T)			
	Layers (A5)			Depleted Matrix (F3) Anomalous Bright Lo						-, -,	
		от IN	Redox Dark	. ,	6)			(MLRA 153B)			
Organic Bodies (A6) (LRR P, T, U)			Depleted Dark				-	(MLRA 153B) Red Parent Material (TF2)			
5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U)			Redox Depre					Very Shallow Dark Surface (TF12)			
		-			<i>)</i>)						
	ck (A9) (LRR P, T)		Marl (F10) (L	•		~	Other	(Explain in Remarks))		
	Below Dark Surfac	ce (A11)	Depleted Oc			-	-				
	rk Surface (A12)		Iron Mangan) ³ Indica	ators of Hydrophytic v	egetation and		
	airie Redox (A16) (-	Umbric Surfa			U)		nd hydrology must be	present, unless	s	
	ucky Mineral (S1)	(LRR O, S)	Delta Ochric	• • •			disturl	ped or problematic.			
Sandy G	leyed Matrix (S4)		Reduced Ver	rtic (F18) (I	MLRA 150	A, 150B)					
Sandy Re	edox (S5)		Piedmont Flo	odplain So	oils (F19) (MLRA 149	A)				
	Matrix (S6)		Anomalous E	Bright Loam	ny Soils (F	20) (MLRA	A 149A, 153C,	153D)			
Dark Sur	face (S7) (LRR P,	S, T, U)									
	Layer (if observed	I):									
Type:					Hyd	ric Soil Pr	esent?	Yes	NoX	<u> </u>	
Depth (in	ches):		_								
Remarks: Sandy uplan	d soils										

Additional Ve	getation Samples							
	Abs%	Dom	Ind		A	Abs%	Dom	Ind
	Cove Tree Stratum	r Spec?	Status	20.	(Cover	Spec?	Status
9.	Thee Stratum			20.				
10.				21. 22.				
11.				23.				
12. 13.				24. 25.				
14.				26.				
15.				26. 27.				
16.				28. 29.				
17. 18.				29. 30.				
19.				31.				
	Sapling/Shrub Stratum			20.				
9.				21.				
10.				22. 23.				
11. 12.				23. 24.				
13.				25.				
14. 15.				26. 27.				
15. 16.				27. 28.				
16.				28. 29				
18.				30.				-
19.				31.				
	Herb Stratum	T		38.				
13.				39.				
14. 15				40. 41.				
16.				42.				
17.				43.				
18.				44.				
19. 20.				45. 46.				
20.				47.				
21. 22.				48.				
23. 24.				49.				
24. 25.				50. 51.				
26.				52.				
27.				53.				
28.				54.				
29. 30.				55. 56.				
30. 31.				50. 57.				
32.				58.				
33.				59.				
34.				60.				
35. 36.				61. 62.				
37.				63.				
	Vine Stratum		1	17.				1
6.				18.				
7.				19.				<u> </u>
8. 9.				20. 21.				
9. 10.				22.				
11.				23.				
12.				24.				
13.				25.				
14. 15.				26. 27.				
16.				28.				+

Project/Site: Panasoffkee Preserve	City/County: Sumter Sampli	ng Date: <u>Dec 10, 2016</u>
Applicant/Owner: Walton Development and Management	State: Florida Sa	mpling Point: 2
Investigator(s): Clark Modica	Section, Township, Range: 29/30/32	
Landform (hillslope, terrace, etc.) wetland Loc	al relief (concave, convex, none): <u>none</u>	Slope (%):
Subregion (LRR or MLRA): LRR U Lat: 28°53'0.8"	N Long: <u>82°7'13" W</u>	Datum:
Soil Map Unit Name: Immokalee sand	NWI Classification:	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remar	ks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed'	? Are "Normal Circumstances" prese	nt? Yes <u>X</u> No
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answers in	Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Aquatic Fauna (B13)	X Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
X Saturation (A3) Hydrogen Sulfide Odor (C1)	X Moss Trim Lines (B16)
X Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3)	
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 4-6	
Water Table Present? Yes No X Depth (inches):	drology Present? Yes X No
Saturation Present? Yes X No Depth (inches):	drology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if av Aerial photos are available	ailable:
	ailable:
	ailable:
Aerial photos are available	ailable:

		D · · ·		Dominance Test worksheet:
Tree Stratum (Plot size: 10ft)	Absolute	Dominant	Indicator	
· · · · · · · · · · · · · · · · · · ·	-	Species?	Status	Number of Dominant Species
1. Salix caroliniana (Willow,coastal-plain)	10	<u> </u>	OBL	That Are OBL, FACW, or FAC: (A)
2		· ·		-
3		·		Total Number of Dominant
4				Species Across All Strata: (B)
5				-
6.				Percent of Dominant Species
				- That Are OBL, FACW, or FAC: (A/B)
		· ·		Prevalence Index worksheet:
8	10	- Tatal Cau		Total % Cover of: Multiply by:
	10	= Total Cove		
50 % of total cover: 5	20 % 0	of total cover:	2	OBL species x 1 =
				FACW species X 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species X 3 =
1				FACU species X 4 =
2				
3				UPL species X 5 =
4.				Column Totals: (A) (B)
5.				
				-
				Prevalence Index = B/A =
				- Hydrophytic Vegetation Indicators:
8				- X 1 – Rapid Test for Hydrophytic Vegetation
		= Total Cove		2 – Dominance Test is > 50%
10ft <u>0</u>	20 % (of total cover:	0	$3 - Prevalence Test is \le 3.0^1$
				Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size:)				
1. Cephalanthus occidentalis (Buttonbush,common)	25	<u>Y</u>	OBL	¹ Indicators of hydric soil and wetland hydrology must
2. Panicum hemitomon (Maiden-cane)	10	Y	OBL	 be present, unless disturbed or problematic.
3				 Definitions of Vegetation Strata:
4.				
5.				Tree – Woody plants, excluding woody vines,
6				approximately 20 ft (6 m) or more in height and 3 in.
				(7.6 cm) or larger in diameter at breast height (DBH).
•				- Conting Weady plants systeming waady vings
		· ·		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
9				than 3 in. (7.6 cm) DBH.
10		· ·		-
11				Shrub – Woody plants, excluding woody vines,
12		·		approximately 3 to 20 ft (1 to 6 m) in height.
	35	= Total Cove	er	
50 % of total cover: 17.5	20 % (of total cover:	7	Herb – All herbaceous (non-woody) plants, including
				 herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately
Woody Vine Stratum (Plot size:)				3 ft (1 m) in height.
1				
				Woody vine – All woody vines, regardless of height.
0				-
				-
4 5		· ·		- Uudrankutia
·				_ Hydrophytic Vegetation
	0	= Total Cove	er	Present? Yes X No
50 % of total cover: 0	20 % (of total cover:	0	
				-
Remarks: (Include photo numbers here or on a separate	sheet)			
	Sheet.)			

Profile Desc Depth	cription: (Describe Matrix			nent the in dox Featur		or confirm	the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR3/1				N/A	N/A	N/A	
5-34	10YR7/1				N/A	N/A	N/A	
0 04			<u> </u>					
	·							
					. <u> </u>			
¹ Type: C=C	oncentration, D=De	epletion, RM=I	Reduced Matrix, C	S=Covered	I or Coate	d Sand Gr	ains. ² l	Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surfac	e (S8) (Li	RR S, T, U)1 cm	Muck (A9) (LRR O)
Histic Ep	ipedon (A2)		Thin Dark Su	uface (S9) (LRR S, T	, U)	2 cm	Muck (A10) (LRR S)
Black His	stic (A3)		Loamy Gleye	ed Matrix (F	1) (LRR (C)	Redu	uced Vertic (F18) (outside MLRA 150A,B)
Hydroger	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	2)		Piedr	mont Floodplain Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Ma	trix (F3)			Anon	nalous Bright Loamy Soils (F20)
Organic I	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F6	6)		(M	ILRA 153B)
	cky Mineral (A7) (L	-	Depleted Da	rk Surface	(F7)		-	Parent Material (TF2)
	esence (A8) (LRR I	-	Redox Depre				Very	Shallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	-	 Marl (F10) (L		,			r (Explain in Remarks)
	Below Dark Surfac		Depleted Oc	-	MLRA 15	1)		
	rk Surface (A12)	()	Iron Mangan				Г) "	
	airie Redox (A16) (MLRA 150A)					"indic	cators of Hydrophytic vegetation and and hydrology must be present, unless
	ucky Mineral (S1)	-	Delta Ochric			-,		rbed or problematic.
	leyed Matrix (S4)	- , - ,	Reduced Ver			A. 150B)		F
	edox (S5)		Piedmont Flo			-	9A)	
X Stripped			Anomalous E			-	-	: 153D)
	face (S7) (LRR P,	S, T, U)	/ (1011101000 E		iy cono (i	20) (МЕЮ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, 1002)
Restrictive	Layer (if observed	I):						
Type:					Hvd	ric Soil Pr	asont?	Yes X No
Depth (in	iches):				nya		coont.	
			<u> </u>					
Remarks:								

Additional Ve	getation Samples							
	Abs%	Dom	Ind		A	Abs%	Dom	Ind
	Cove Tree Stratum	r Spec?	Status	20.	(Cover	Spec?	Status
9.	Thee Stratum			20.				
10.				21. 22.				
11.				23.				
12. 13.				24. 25.				
14.				26.				
15.				26. 27.				
16.				28. 29.				
17. 18.				29. 30.				
19.				31.				
	Sapling/Shrub Stratum			20.				
9.				21.				
10.				22. 23.				
11. 12.				23. 24.				
13.				25.				
14. 15.				26. 27.				
15. 16.				27. 28.				
16.				28. 29				
18.				30.				-
19.				31.				
	Herb Stratum	T		38.				
13.				39.				
14. 15				40. 41.				
16.				42.				
17.				43.				
18.				44.				
19. 20.				45. 46.				
20.				47.				
21. 22.				48.				
23. 24.				49.				
24. 25.				50. 51.				
26.				52.				
27.				53.				
28.				54.				
29. 30.				55. 56.				
30. 31.				50. 57.				
32.				58.				
33.				59.				
34.				60.				
35. 36.				61. 62.				
37.				63.				
	Vine Stratum		1	17.				1
6.				18.				
7.				19.				<u> </u>
8. 9.				20. 21.				
9. 10.				22.				
11.				23.				
12.				24.				
13.				25.				
14. 15.				26. 27.				
16.				28.				+

Project/Site: Panasoffkee Preserve	City/County: Sum	iter	Sampling Date: Dec 10, 2016			
Applicant/Owner: Walton Development and Management		State: Florida	Sampling Point: 3			
Investigator(s): Clark Modica	Section, Township	Section, Township, Range: 29/30/32				
Landform (hillslope, terrace, etc.) upland	Local relief (concave,	convex, none): <u>none</u>	Slope (%):			
Subregion (LRR or MLRA): LRR U Lat: 28°	°52'58.3" N L	ong: <u>82°7'14.4" W</u>	Datum:			
Soil Map Unit Name: Myakka sand	I	NWI Classification:				
Are climatic / hydrologic conditions on the site typical for this time of \underline{y}	year? Yes <u>X</u> No	(If no, explain in	Remarks.)			
Are Vegetation, Soil, or Hydrologysignificantly dis	sturbed? Are "N	Iormal Circumstances	s" present? Yes X No			
Are Vegetation, Soil, or Hydrologynaturally proble	ematic? (If nee	eded, explain any ans	wers in Remarks.)			

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>X</u> Yes Yes	No No _X No _X	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

	condary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) <u>X</u> Water-Stained Leaves (B9)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
	Sphaghum moss (Do) (LRR 1, 0)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches): Wetland Hydrolog	av Present? Yes No X
Saturation Present? Yes No X Depth (inches):	gy Present? Yes <u>No X</u>
(includes capillary fringe)	
Aerial photos are available Remarks:	

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	Absolute Dominant Indicator	Dominance Test worksneet:
Tree Stratum (Plot size: 10ft)	% Cover Species? Status	Number of Dominant Species
1		That Are OBL, FACW, or FAC: 1 (A)
2		
3		Total Number of Dominant Species Across All Strata: 1 (B)
4.		
5		Percent of Dominant Species
6 7.		- That Are OBL, FACW, or FAC: 100 (A/B)
		Prevalence Index worksheet:
8	0 = Total Cover	Total % Cover of: Multiply by:
50 % of total cover: 0		OBL species x 1 =
		FACW species X 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species X 3 =
1		FACU species X 4 =
2		UPL species X 5 =
3		- Column Totals: (A) (B)
4.		
5		-
6		Prevalence Index = B/A =
7 8		- Hydrophytic Vegetation Indicators:
···	0 = Total Cover	– <u>1</u> – Rapid Test for Hydrophytic Vegetation
10ft 0		X 2 – Dominance Test is > 50%
		-3 – Prevalence Test is ≤ 3.0 ¹
Herb Stratum (Plot size:)		Problematic Hydrophytic Vegetation ¹ (Explain)
1. Amphicarpum muhlenbergianum	65 Y FACW	¹ Indicators of hydric soil and wetland hydrology must
2. Rubus alumnus (Blackberry,old field)	15 NI	 be present, unless disturbed or problematic.
4		 Definitions of Vegetation Strata:
4		Tree – Woody plants, excluding woody vines,
5 6.		approximately 20 ft (6 m) or more in height and 3 in.
7		 (7.6 cm) or larger in diameter at breast height (DBH).
8		 Sapling – Woody plants, excluding woody vines,
9.		approximately 20 ft (6 m) or more in height and less
10		than 3 in. (7.6 cm) DBH.
11		 Shrub – Woody plants, excluding woody vines,
12.		approximately 3 to 20 ft (1 to 6 m) in height.
	80 = Total Cover	
50 % of total cover: 40	20 % of total cover: 16	 Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody
		plants, except woody vines, less than approximately
Woody Vine Stratum (Plot size:)		3 ft (1 m) in height.
1		Woody vine – All woody vines, regardless of height.
2		-
3 4		-
5.		- Hydrophytic
	0 = Total Cover	Vegetation
50 % of total cover:0		Present? Yes X No
		-
Remarks: (Include photo numbers here or on a separate	sheet.)	

Profile Desc Depth	cription: (Describe Matrix			nent the ir		r confirm	the absence	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rem	arks	
0-6	N2.5/				N/A	N/A	N/A			
6-12	10YR5/1	<u> </u>			N/A	N/A	N/A			
0-12	1011(3/1				<u> </u>	<u> </u>				
							·			
¹ Type: C=C	oncentration, D=De	epletion, RM=I	Reduced Matrix, C	S=Covered	l or Coate	d Sand Gr	ains. 2	Location: PL=Pore Li	ning, M=Matri	ix.
Hydric Soil	Indicators:						Indica	ators for Problemation	Hydric Soil:	s³:
Histosol	(A1)		Polyvalue Be	elow Surfac	e (S8) (LF	RR S, T, U))1 cm	Muck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Thin Dark Sι	uface (S9) (LRR S, T,	U)	2 cm	Muck (A10) (LRR S)		
Black His	stic (A3)		Loamy Gleye					uced Vertic (F18) (out	side MLRA 1	50A,B)
Hydroger	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	2)	-	Pied	mont Floodplain Soils	(F19) (LRR P	P, S, T)
	Layers (A5)		Depleted Ma					nalous Bright Loamy S		
	Bodies (A6) (LRR I	P, T, U)	Redox Dark	. ,	6)			ILRA 153B)	· · · /	
	cky Mineral (A7) (L	-	Depleted Da				-	Parent Material (TF2)		
	esence (A8) (LRR I		Redox Depre					Shallow Dark Surface	(TF12)	
	ck (A9) (LRR P, T)	-	Marl (F10) (L	•)			r (Explain in Remarks	. ,	
	Below Dark Surface		Depleted Oc	•	MI DA 15	1)	0110)	
						-	r)			
	rk Surface (A12)		Iron Mangan				"indic	cators of Hydrophytic		
	airie Redox (A16) (Umbric Surfa	• • •		0)		ind hydrology must be	present, unle	ess
	ucky Mineral (S1) (LRR 0, 5)	Delta Ochric	• • •		4.4500)	distu	rbed or problematic.		
	leyed Matrix (S4)		Reduced Ver	· , ·						
	edox (S5)		Piedmont Flo				-			
	Matrix (S6)	o =	Anomalous E	Bright Loarr	ny Soils (F	20) (MLR A	A 149A, 153C	s, 153D)		
Dark Sur	face (S7) (LRR P,	5, 1, 0)								
	Layer (if observed	I):								
Type:					Hyd	ric Soil Pr	esent?	Yes	<u>No</u>	Х
Depth (in	iches):									
Remarks:										
Sandy uplan	d soils									

Additional Ve	getation Samples							
	Abs%	Dom	Ind		A	Abs%	Dom	Ind
	Cove Tree Stratum	r Spec?	Status	20.	(Cover	Spec?	Status
9.	Thee Stratum			20.				
10.				21. 22.				
11.				23.				
12. 13.				24. 25.				
14.				26.				
15.				26. 27.				
16.				28. 29.				
17. 18.				29. 30.				
19.				31.				
	Sapling/Shrub Stratum			20.				
9.				21.				
10.				22. 23.				
11. 12.				23. 24.				
13.				25.				
14. 15.				26. 27.				
15. 16.				27. 28.				
16.				28. 29				
18.				30.				-
19.				31.				
	Herb Stratum	T		38.				
13.				39.				
14. 15				40. 41.				
16.				42.				
17.				43.				
18.				44.				
19. 20.				45. 46.				
20.				47.				
21. 22.				48.				
23. 24.				49.				
24. 25.				50. 51.				
26.				52.				
27.				53.				
28.				54.				
29. 30.				55. 56.				
30. 31.				50. 57.				
32.				58.				
33.				59.				
34.				60.				
35. 36.				61. 62.				
37.				63.				
	Vine Stratum		1	17.				1
6.				18.				
7.				19.				
8. 9.				20. 21.				
9. 10.				22.				
11.				23.				
12.				24.				
13.				25.				
14. 15.				26. 27.				
16.				28.				+

Project/Site: Panasoffkee Preserve	City/County: Sumter	Sampling Date: Dec 10, 2016
Applicant/Owner: Walton Development and Management	State: Florida	Sampling Point: 3
Investigator(s): Clark Modica	Section, Township, Range: 29/30/32	
Landform (hillslope, terrace, etc.) wetland	Local relief (concave, convex, none): none	e Slope (%):
Subregion (LRR or MLRA): LRR U Lat: 28°52	'58.3" N Long: <u>82°7'13.4" W</u>	Datum:
Soil Map Unit Name: Immokalee sand	NWI Classification:	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes <u>X</u> No(If no, explain i	n Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	rbed? Are "Normal Circumstance	es" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problem	atic? (If needed, explain any an	swers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>X</u> No Yes <u>X</u> No Yes <u>X</u> No	 Is the Sampled Area within a Wetland? 	Yes	No
Remarks:				

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	X Surface Soil Cracks (B6)
X Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
X Saturation (A3) Hydrogen Sulfide Odor (C1)	X Moss Trim Lines (B16)
X Water Marks (B1) Oxidized Rhizospheres on Livi	ing Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4	
Drift Deposits (B3) Recent Iron Reduction in Tilled	d Soils (C6) Saturation Visible on Aerial Imagery (C9)
X Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 4-6	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp Aerial photographs are available	pections), if available:

				Dominance Test worksheet:
Tree Stratum (Plot size: <u>10ft</u>) 1. Salix caroliniana (Willow,coastal-plain)	Absolute D % Cover S 50		ndicator Status OBL	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. 3. 4.				Total Number of Dominant Species Across All Strata: (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
8.				Prevalence Index worksheet: Total % Cover of: Multiply by:
50 % of total cover:25		Total Cover otal cover:	10	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)				FACW species X 2 = FAC species X 3 =
1				FAC species X 3 = FACU species X 4 =
2				UPL species X 5 =
3				Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
o	0 =	Total Cover		X 1 – Rapid Test for Hydrophytic Vegetation
10ft 0		otal cover:	0	2 – Dominance Test is > 50%
	_	_		3 – Prevalence Test is $\leq 3.0^{1}$
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation ¹ (Explain)
Panicum hemitomon (Maiden-cane) 2.	20	Y	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.				be present, unless disturbed or problematic. Definitions of Vegetation Strata:
4				
5				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
6				(7.6 cm) or larger in diameter at breast height (DBH).
7. 8.				. Sapling – Woody plants, excluding woody vines,
9				approximately 20 ft (6 m) or more in height and less
10				than 3 in. (7.6 cm) DBH.
11				Shrub – Woody plants, excluding woody vines,
12		Total Cover		approximately 3 to 20 ft (1 to 6 m) in height.
50 % of total cover: <u>10</u> Woody Vine Stratum (Plot size:)		Total Cover otal cover:	4	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1 2				Woody vine – All woody vines, regardless of height.
3.				
4				
5				Hydrophytic
		Total Cover		Vegetation Present? Yes X No
50 % of total cover: 0	20 % of to	otal cover:	0	
Remarks: (Include photo numbers here or on a separate	sheet)			
	SHEEL.			
L				

Profile Desc Depth	cription: (Describe Matrix			nent the in dox Feature		or confirm	the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR3/1				N/A	<u></u> N/A	N/A	
	10YR7/1		<u> </u>		N/A	N/A	N/A	
5-34	101 R//1				IN/A	N/A	IN/A	
		. <u></u>						
¹ Type: C=C	oncentration, D=De	epletion, RM=	Reduced Matrix, C	S=Covered	or Coate	d Sand Gra	ains. ² l	Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils ³ :
Histosol ((A1)		Polyvalue Be				1 cm	Muck (A9) (LRR O)
Histic Ep	ipedon (A2)		X Thin Dark Su	face (S9) (I	LRR S, T	, U)	2 cm	Muck (A10) (LRR S)
Black His	stic (A3)		Loamy Gleye	ed Matrix (F	1) (LRR (D)	Redu	iced Vertic (F18) (outside MLRA 150A,B)
Hydroger	n Sulfide (A4)		Loamy Gleye	ed Matrix (Fi	2)		Piedr	mont Floodplain Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Ma	trix (F3)			Anon	nalous Bright Loamy Soils (F20)
Organic I	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F6)		(M	LRA 153B)
5 cm Mu	cky Mineral (A7) (L	RR P, T, U)	Depleted Da	rk Surface (F7)		Red I	Parent Material (TF2)
Muck Pre	esence (A8) (LRR I)	Redox Depre	ssions (F8)			Very	Shallow Dark Surface (TF12)
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Othe	r (Explain in Remarks)
	Below Dark Surface	ce (A11)	Depleted Ocl	-	MLRA 15	1)		
	rk Surface (A12)		Iron Mangan			-)	
Coast Pr	airie Redox (A16) (MLRA 150A)	Umbric Surfa	ice (F13) (L	RR P, T,	U)		cators of Hydrophytic vegetation and ind hydrology must be present, unless
	ucky Mineral (S1) (Delta Ochric					rbed or problematic.
	leyed Matrix (S4)		Reduced Ver		-)A, 150B)		
	edox (S5)		Piedmont Flo			-	A)	
X Stripped			Anomalous E				-	, 153D)
	face (S7) (LRR P,	S, T, U)		U I		, ,		. ,
Restrictive	Layer (if observed):						
Type:		,-					0	
Depth (in	iches):				Нуа	ric Soil Pro	esent?	Yes <u>X</u> No
Deptil (iii			_					
Remarks:								

Additional Ve	getation Samples							
	Abs%	Dom	Ind		A	Abs%	Dom	Ind
	Cove Tree Stratum	r Spec?	Status	20.	(Cover	Spec?	Status
9.	Thee Stratum			20.				
10.				21. 22.				
11.				23.				
12. 13.				24. 25.				
14.				26.				
15.				26. 27.				
16.				28. 29.				
17. 18.				29. 30.				
19.				31.				
	Sapling/Shrub Stratum			20.				
9.				21.				
10.				22. 23.				
11. 12.				23. 24.				
13.				25.				
14. 15.				26. 27.				
15. 16.				27. 28.				
16.				28. 29				
18.				30.				-
19.				31.				
	Herb Stratum	T		38.				
13.				39.				
14. 15				40. 41.				
16.				42.				
17.				43.				
18.				44.				
19. 20.				45. 46.				
20.				47.				
21. 22.				48.				
23. 24.				49.				
24. 25.				50. 51.				
26.				52.				
27.				53.				
28.				54.				
29. 30.				55. 56.				
30. 31.				50. 57.				
32.				58.				
33.				59.				
34.				60.				
35. 36.				61. 62.				
37.				63.				
	Vine Stratum		1	17.				
6.				18.				
7.				19.				
8. 9.				20. 21.				
9. 10.				22.				
11.				23.				
12.				24.				
13.				25.				
14. 15.				26. 27.				
16.				28.				+

Project/Site: Panasoffkee Preserve	City/County: S	umter	Sampling Date: Dec 10, 2016
Applicant/Owner: Walton Development and Management		State: Florida	Sampling Point: 4
Investigator(s): Clark Modica	Section, Towns	ship, Range: 29/30/32	
Landform (hillslope, terrace, etc.) Upland	Local relief (concav	ve, convex, none): <u>none</u>	Slope (%):
Subregion (LRR or MLRA): LRR U Lat:	28°52'56" N	Long: <u>82°7'13.3" W</u>	Datum:
Soil Map Unit Name: Myakka sand		NWI Classification:	
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes X	No(If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly	v disturbed? Are	e "Normal Circumstances"	present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally pr	oblematic? (If r	needed, explain any answ	ers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres on Li	ving Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C	4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tille	ed Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	Wether difference Process (Q. Vers. No. V.
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes <u>No X</u>
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous in	spections), if available:
Aerial photos available	
Remarks:	
Remarks: Upland data point for Wetland 4	

		Dominance Test worksheet:
Tree Stratum (Plot size:) 1		Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2 3 4		Total Number of Dominant Species Across All Strata: 1 (B)
5 6 7		Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B)
8 50 % of total cover:0	0 = Total Cover	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size:) 1		FACW species0 $X 2 = 0$ FAC species0 $X 3 = 0$ FACU species05 $X 4 = -200$
2. 3. 4.		FACU species 95 X 4 = 380 UPL species 0 X 5 = 0 Column Totals: 95 (A) 380 (B)
5 6		Prevalence Index = B/A =4
		- Hydrophytic Vegetation Indicators:
8 10ft	0 = Total Cover	 1 – Rapid Test for Hydrophytic Vegetation 2 – Dominance Test is > 50% 3 – Prevalence Test is ≤ 3.0¹
Horb Stratum (Plot size:		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size:) 1. Paspalum notatum (Grass, bahia) 2.		 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3		Definitions of Vegetation Strata:
4		
5. 6. 7.		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
8. 9. 10		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
11 12		 Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
50 % of total cover: <u>47.5</u> Woody Vine Stratum (Plot size:)	20 % of total cover: 19	 Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1 2 3		Woody vine – All woody vines, regardless of height.
4 5		- Hydrophytic Vegetation
50 % of total cover:0	20 % of total cover:0	Present? Yes <u>No X</u>
Remarks: (Include photo numbers here or on a separate	sheet.)	

Profile Desc Depth	cription: (Describe Matrix			nent the ir		r confirm	the absence	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rem	arks	
0-6	N2.5/				N/A	N/A	N/A			
6-12	10YR5/1	<u> </u>			N/A	N/A	N/A			
0-12	1011(3/1	<u> </u>			<u> </u>	<u> </u>				
							·			
¹ Type: C=C	oncentration, D=De	epletion, RM=I	Reduced Matrix, C	S=Covered	l or Coate	d Sand Gr	ains. 2	Location: PL=Pore Li	ning, M=Matri	ix.
Hydric Soil	Indicators:						Indica	ators for Problemation	Hydric Soil:	s³:
Histosol	(A1)		Polyvalue Be	low Surfac	e (S8) (LF	RR S, T, U))1 cm	Muck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Thin Dark Sι	uface (S9) (LRR S, T,	U)	2 cm	Muck (A10) (LRR S)		
Black His	stic (A3)		Loamy Gleye					uced Vertic (F18) (out	side MLRA 1	50A,B)
Hydroger	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	2)	-	Pied	mont Floodplain Soils	(F19) (LRR P	P, S, T)
	Layers (A5)		Depleted Ma					nalous Bright Loamy S		
	Bodies (A6) (LRR I	P, T, U)	Redox Dark	. ,	6)			ILRA 153B)	· · · /	
	cky Mineral (A7) (L	-	Depleted Da				-	Parent Material (TF2)		
	esence (A8) (LRR I		Redox Depre					Shallow Dark Surface	(TF12)	
	ck (A9) (LRR P, T)	-	Marl (F10) (L	•)			r (Explain in Remarks	. ,	
	Below Dark Surface		Depleted Oc	•	MI DA 15	1)	0110)	
						-	r)			
	rk Surface (A12)		Iron Mangan				"indic	cators of Hydrophytic		
	airie Redox (A16) (Umbric Surfa	• • •		0)		ind hydrology must be	present, unle	ess
	ucky Mineral (S1) (LRR 0, 5)	Delta Ochric	• • •		4.4500)	distu	rbed or problematic.		
	leyed Matrix (S4)		Reduced Ver	· , ·						
	edox (S5)		Piedmont Flo				-			
	Matrix (S6)	o =	Anomalous E	Bright Loarr	ny Soils (F	20) (MLR A	A 149A, 153C	s, 153D)		
Dark Sur	face (S7) (LRR P,	5, 1, 0)								
	Layer (if observed	I):								
Type:					Hyd	ric Soil Pr	esent?	Yes	<u>No</u>	Х
Depth (in	iches):									
Remarks:										
Sandy uplan	d soils									

Additional Ve	getation Samples							
	Abs%	Dom	Ind		A	Abs%	Dom	Ind
	Cove Tree Stratum	r Spec?	Status	20.	(Cover	Spec?	Status
9.	Thee Stratum			20.				
10.				21. 22.				
11.				23.				
12. 13.				24. 25.				
14.				26.				
15.				26. 27.				
16.				28. 29.				
17. 18.				29. 30.				
19.				31.				
	Sapling/Shrub Stratum			20.				
9.				21.				
10.				22. 23.				
11. 12.				23. 24.				
13.				25.				
14. 15.				26. 27.				
15. 16.				27. 28.				
16.				28. 29				
18.				30.				-
19.				31.				
	Herb Stratum	T		38.				
13.				39.				
14. 15				40. 41.				
16.				42.				
17.				43.				
18.				44.				
19. 20.				45. 46.				
20.				47.				
21. 22.				48.				
23. 24.				49.				
24. 25.				50. 51.				
26.				52.				
27.				53.				
28.				54.				
29. 30.				55. 56.				
30. 31.				50. 57.				
32.				58.				
33.				59.				
34.				60.				
35. 36.				61. 62.				
37.				63.				
	Vine Stratum		1	17.				1
6.				18.				
7.				19.				<u> </u>
8. 9.				20. 21.				
9. 10.				22.				
11.				23.				
12.				24.				
13.				25.				
14. 15.				26. 27.				
16.				28.				+

Project/Site: Panasoffkee Preserve	City/County: Sumter Sa	mpling Date: Dec 10, 2016
Applicant/Owner: Walton Development and Management	State: Florida	Sampling Point: 4
Investigator(s): Clark Modica	Section, Township, Range: 29/30/32	
Landform (hillslope, terrace, etc.) wetland Loca	al relief (concave, convex, none): <u>none</u>	Slope (%):
Subregion (LRR or MLRA): LRR U Lat: 28°52'56" N	Long: <u>82°7'12.5" W</u>	Datum:
Soil Map Unit Name: Immokalee sand	NWI Classification:	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed?	? Are "Normal Circumstances" p	resent? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answe	s in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Aquatic Fauna (B13)	X Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	
X Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres on Li	
Sediment Deposits (B2) Presence of Reduced Iron (C	Cravfish Burrows (C8)
Drift Deposits (B3)	ed Soils (C6) X Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 1	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches): 1	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous in Aerial photos are available	spections), if available:
	spections), if available:
Aerial photos are available	spections), if available:
Aerial photos are available	spections), if available:
Aerial photos are available	spections), if available:
Aerial photos are available	spections), if available:
Aerial photos are available	spections), if available:
Aerial photos are available	spections), if available:
Aerial photos are available	spections), if available:
Aerial photos are available	spections), if available:
Aerial photos are available	spections), if available:
Aerial photos are available	spections), if available:
Aerial photos are available	spections), if available:
Aerial photos are available	spections), if available:
Aerial photos are available	spections), if available:

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				Dominance Test worksheet:	
Tree Stratum (Plot size: 10ft)	Absolute % Cover		ndicator Status	Number of Dominant Species	
1. Ludwigia octovalvis (Seedbox,mexican)	15	Y	OBL	That Are OBL, FACW, or FAC:	(A)
2				- Total Number of Dominant	
4.				Species Across All Strata:	(B)
5				Percent of Dominant Species	
7.				That Are OBL, FACW, or FAC:	(A/B)
8.				Prevalence Index worksheet:	
50 % of total cover: 7.5		= Total Cove total cover:	- 3	Total % Cover of: Multiply by: OBL species x 1 =	
	20 % 01		3	FACW species X 1 - FACW species X 2 =	
Sapling/Shrub Stratum (Plot size:)				FAC species X 3 =	_
1				FACU species X 4 =	_
2				UPL species X 5 =	
4				Column Totals: (A)	(B)
5.				-	
6				Prevalence Index = B/A =	
7 8.				- Hydrophytic Vegetation Indicators:	
~	0	= Total Cove	-	 X 1 – Rapid Test for Hydrophytic Vegetation 2 – Dominance Test is > 50% 	
10ft <u>0</u>	20 % of	total cover:	0	-2 = Dominance Test is > 50% - 3 – Prevalence Test is $\leq 3.0^1$	
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation ¹ (Explai	in)
1. Carex rhynchophysa (Sedge,northwest,territory)	20	Y			
2. Panicum hemitomon (Maiden-cane)	20	Y	OBL	 ¹Indicators of hydric soil and wetland hydrolog be present, unless disturbed or problematic. 	y must
3				- Definitions of Vegetation Strata:	
4 5.				Tree – Woody plants, excluding woody vines,	
6				approximately 20 ft (6 m) or more in height and	
7.				 (7.6 cm) or larger in diameter at breast height (I 	DBH).
8				Sapling - Woody plants, excluding woody vine	
9				approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.	less
10 11.				-	
11				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
		= Total Cove		Herb – All herbaceous (non-woody) plants, incl	udina
50 % of total cover: <u>20</u>	20 % of	total cover:	8	 herbaceous vines, regardless of size. Includes plants, except woody vines, less than approxim 	woody
Woody Vine Stratum (Plot size:)				3 ft (1 m) in height.	
1				Woody vine – All woody vines, regardless of h	eight.
3.				-	
4.				-	
5				Hydrophytic Vegetation	
		= Total Cove		Present? Yes X No	
50 % of total cover:0	20 % of	total cover:	0	-	
Remarks: (Include photo numbers here or on a separate	sheet.)				

Depth	cription: (Describe Matrix			ment the inc dox Feature		or confirm	the absen	ce of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR3/1				N/A	N/A	N/A	
5-34	10YR7/1				N/A	N/A	N/A	
					1071			
				<u> </u>				
¹ Type: C=C	oncentration, D=De	epletion, RM=	Reduced Matrix, C	S=Covered	or Coate	d Sand Gr	ains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Ind	licators for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surface	(S8) (Ll	RR S, T, U)1	cm Muck (A9) (LRR O)
Histic Ep	ipedon (A2)		Thin Dark Su	uface (S9) (L	.RR S, T	, U)	2	cm Muck (A10) (LRR S)
Black His	stic (A3)		Loamy Gleye	ed Matrix (F1) (LRR (C)	Re	educed Vertic (F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2	2)		Pi	edmont Floodplain Soils (F19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	trix (F3)			Ar	nomalous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F6))			(MLRA 153B)
5 cm Mu	cky Mineral (A7) (L	RR P, T, U)	Depleted Da	rk Surface (F	=7)		Re	ed Parent Material (TF2)
	esence (A8) (LRR I	-	Redox Depre				Ve	ery Shallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	•	 Marl (F10) (L	. ,				her (Explain in Remarks)
	Below Dark Surfac		Depleted Oc	, hric (F11) (N	ILRA 15	1)		
	irk Surface (A12)	· · /	Iron Mangan			-	T) "	
	airie Redox (A16) (MLRA 150A)					°ir	idicators of Hydrophytic vegetation and etland hydrology must be present, unless
	lucky Mineral (S1)	-	Delta Ochric			,		sturbed or problematic.
	leyed Matrix (S4)		Reduced Ve	. , .		A. 150B)		·
	edox (S5)		Piedmont Flo			-	9A)	
							,	
	Matrix (S6)		Anomalous F	Bright Loam	/ Soils (F	20) (MI R	A 149A 15	3C. 153D)
Stripped	Matrix (S6) face (S7) (LRR P, 5	S, T, U)	Anomalous E	Bright Loamy	/ Soils (F	20) (MLR /	A 149A, 15	3C, 153D)
Stripped	Matrix (S6) face (S7) (LRR P,	S, T, U)	Anomalous E	Bright Loamy	/ Soils (F	20) (MLR /	A 149A, 15	3C, 153D)
Stripped Dark Sur	· /	-	Anomalous E	Bright Loamy	/ Soils (F	20) (MLR /	A 149A, 15	3C, 153D)
Stripped Dark Sur	face (S7) (LRR P,	-	Anomalous E	Bright Loamy				3C, 153D) Yes X No
Stripped Dark Sur	face (S7) (LRR P, Layer (if observed	-	Anomalous E	Bright Loamy		20) (MLR/		
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, Layer (if observed	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type:	face (S7) (LRR P, Layer (if observed	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, Layer (if observed	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, Layer (if observed	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, Layer (if observed	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, Layer (if observed	-	Anomalous B	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, Layer (if observed	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, Layer (if observed	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, Layer (if observed	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, S	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, S	-	Anomalous B	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, S	-	Anomalous B	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, S	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, S	-	Anomalous B	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, S	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, S	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, S	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, S	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, S	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, S	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, Layer (if observed	-	Anomalous E	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, Layer (if observed	-	Anomalous B	Bright Loamy				
Stripped Dark Sur Restrictive Type: Depth (ir	face (S7) (LRR P, Layer (if observed	-	Anomalous B	Bright Loamy				

Additional Ve	getation Samples							
	Abs%	Dom	Ind		A	Abs%	Dom	Ind
	Cove Tree Stratum	r Spec?	Status	20.	(Cover	Spec?	Status
9.	Thee Stratum			20.				
10.				21. 22.				
11.				23.				
12. 13.				24. 25.				
14.				26.				
15.				26. 27.				
16.				28. 29.				
17. 18.				29. 30.				
19.				31.				
	Sapling/Shrub Stratum			20.				
9.				21.				
10.				22. 23.				
11. 12.				23. 24.				
13.				25.				
14. 15.				26. 27.				
15. 16.				27. 28.				
16.				28. 29				
18.				30.				-
19.				31.				
	Herb Stratum	T		38.				
13.				39.				
14. 15				40. 41.				
16.				42.				
17.				43.				
18.				44.				
19. 20.				45. 46.				
20.				47.				
21. 22.				48.				
23. 24.				49.				
24. 25.				50. 51.				
26.				52.				
27.				53.				
28.				54.				
29. 30.				55. 56.				
30. 31.				50. 57.				
32.				58.				
33.				59.				
34.				60.				
35. 36.				61. 62.				
37.				63.				
	Vine Stratum		1	17.				1
6.				18.				
7.				19.				
8. 9.				20. 21.				
9. 10.				22.				
11.				23.				
12.				24.				
13.				25.				
14. 15.				26. 27.				
16.				28.				+

Project/Site: Panasoffkee Preserve	City/County: Sumter	Sampling Date: Dec 10, 2016
Applicant/Owner: Walton Development and Management	State: Florida	Sampling Point: <u>5</u>
Investigator(s): Clark Modica	Section, Township, Range: 29/30/32	
Landform (hillslope, terrace, etc.) upland	Local relief (concave, convex, none): <u>none</u>	Slope (%):
Subregion (LRR or MLRA): LRR U Lat: 28°52'5	0.8" N Long: <u>82°7'38.9" W</u>	Datum:
Soil Map Unit Name: Tavares fine sand, 0-5% slopes	NWI Classification:	
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes X No (If no, explain ir	n Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	Ded? Are "Normal Circumstance	s" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any ans	swers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes	No No _X No _X	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres on Liv Sediment Deposits (B2) Presence of Reduced Iron (C	
Sediment Deposits (B2) Presence of Reduced Iron (C Drift Deposits (B3) Recent Iron Reduction in Tille	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No_X_ Depth (inches):	
Water Table Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes <u>No X</u>
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins Aerial photos available	pections), if available:
Demendue	
Remarks:	
Upland data point for Wetland 5	

3.			Dominance Test worksheet:
1	Trop Strotum (Dist size)		
2.		% Cover Species? Status	
a			Inat Are OBL, FACW, or FAC: <u>1</u> (A)
4.	2		_
6.	3		
5.			Species Across All Strata: 1 (B)
a.	_		-
7			
8.			- That Are OBL, FACW, or FAC: 100 (A/B)
0 = Total Cover 0 = Total Cover 0 End Sover of: Multiply by: Sapling/Shrub Stratum (Plot size:) 20 % of total cover: 0 RCW species X 1 =			-
50 % of total cover: 0 20 % of total cover: 0 Sapling/Shrub Stratum (Plot size:) - - FAC species X 2 = - 1. - - - - FAC species X 3 = - 2. - - - - - FAC species X 3 = - 3. -	8		
Saping/Shrub Stratum (Plot size:)			
Sapling/Shrub Stratum (Plot size:)	50 % of total cover: 0	20 % of total cover: 0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)			FACW species X 2 =
1	Sapling/Shrub Stratum (Plot size:)		
2.			
3.	-		FACU species X 4 =
A.			UPL species X 5 =
6.			
6.			
7.			-
7.	6		Prevalence Index = B/A =
8.	7		
0 = Total Cover 10ft 0 = Total Cover 10ft 0 20 % of total cover: 0 3 20 % of total cover: 0 1 Amphicarpum muhienbergianum 70 Y 5 Y NI 4.	8.		
10ft 0 20 % of total cover: 0 X 2 - D Offiniance Test is > 30% 3 3 Problematic Hydrophytic Vegetation¹ (Explain) 1 Amphicarpum muhlenbergianum 70 Y FACW 1 Amphicarpum muhlenbergianum 70 Y FACW 2 Rubus alumnus (Blackberry.old field) 25 Y NI 3		0 = Total Cover	
Herb Stratum (Plot size:) 1, Amphicarpum muhlenbergianum 70 Y FACW 2, Rubus alumnus (Blackberry,old field) 25 Y NI 3, 4	10# 0		X 2 – Dominance Test is > 50%
Amphicarpum mulhenbergianum 70 Y FACW Indicarpum mulhenbergianum 70 Y FACW Indicarpum mulhenbergianum 25 Y NI Image: Second Se			3 - Prevalence Test is ≤ 3.01
Amphicarpum mulhenbergianum 70 Y FACW Indicarpum mulhenbergianum 70 Y FACW Indicarpum mulhenbergianum 25 Y NI Image: Second Se	Llork Strature (Plataine)		Problematic Hydrophytic Vegetation ¹ (Explain)
2. Rubus alumnus (Blackberry,old field) 25 Y NI Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 3.			
2. Volus aluminus (blackberry, old ned) 23 T NI be present, unless disturbed or problematic. 3.			¹ Indicators of hydric soil and wetland hydrology must
3.	2. Rubus alumnus (Blackberry,old field)	<u>25 Y NI</u>	
4.	3.		
5.	4		- Deminions of Vegetation offata.
6.	5		Tree – Woody plants, excluding woody vines.
8.			 (7.6 cm) or larger in diameter at breast height (DBH).
9.			-
10	8		Sapling – Woody plants, excluding woody vines,
10.	9		
11.	10		than 3 in. (7.6 cm) DBH.
12.			Shruh Weedy plante evaluding weedy vince
95 = Total Cover 50 % of total cover: 47.5 20 % of total cover: 19 Woody Vine Stratum (Plot size: 1.			
50 % of total cover: 47.5 20 % of total cover: 19 Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. 1.	· · · · · · · · · · · · · · · · · · ·		
Woody Vine Stratum (Plot size:) herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. 1.	EQ. 9/ of total activery AZ E		Herb – All herbaceous (non-woody) plants, including
Woody Vine Stratum (Plot size:) 3 ft (1 m) in height. 1.		20 % of total cover: 19	
1.			plants, except woody vines, less than approximately
2.	Woody Vine Stratum (Plot size:)		3 ft (1 m) in height.
2.	1		
3.			Woody vine – All woody vines, regardless of height.
4			=
5.			-
0 = Total Cover Vegetation 50 % of total cover: 0 20 % of total cover: 0			- Undraubutia
50 % of total cover: 0 20 % of total cover: 0 Present? Yes X No	о		
50 % of total cover:0 20 % of total cover:0		0 = Total Cover	
	50 % of total cover: 0	20 % of total cover: 0	
Remarks: (Include photo numbers here or on a separate sheet.)			-
Remarks: (Include photo numbers here or on a separate sheet.)			
Remarks: (Include photo numbers here or on a separate sheet.)			
Remarks: (Include photo numbers here or on a separate sheet.)			
	Remarks: (Include photo numbers here or on a separate	sheet.)	

Profile Deso Depth	cription: (Describe Matrix			nent the in dox Featur		or confirm	the absence	e of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks	
0-8	10YR3/2				N/A	N/A	N/A			
8-28	10YR5/2				N/A	N/A	N/A			
				·						
			<u> </u>							
¹ Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, C	S=Covered	or Coate	d Sand Gr	ains. ²	Location: PL=Pore Lir	ning, M=Ma	atrix.
Hydric Soil	Indicators:						Indic	ators for Problematic	Hydric Sc	oils³:
Histosol	(A1)		Polyvalue Be	low Surfac	e (S8) (Ll	RR S, T, U)1 cm	n Muck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Thin Dark Su	face (S9) (LRR S, T	, U)	2 cm	n Muck (A10) (LRR S)		
Black His	stic (A3)		Loamy Gleye	d Matrix (F	1) (LRR (D)	Red	uced Vertic (F18) (outs	side MLRA	150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F	2)		Pied	mont Floodplain Soils	(F19) (LRR	P, S, T)
Stratified	Layers (A5)		Depleted Mat	trix (F3)			Anor	malous Bright Loamy S	oils (F20)	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F6	6)			ILRA 153B)	. ,	
	cky Mineral (A7) (L		Depleted Dar	k Surface ((F7)		•	Parent Material (TF2)		
	esence (A8) (LRR L	-	Redox Depre				Verv	Shallow Dark Surface	(TF12)	
	ck (A9) (LRR P, T)	,	Marl (F10) (L	•	/			er (Explain in Remarks)		
	Below Dark Surfac	e (A11)	Depleted Ocl		MLRA 15	1)		(F		
	rk Surface (A12)	()	Iron Mangane			-	Г)			
	airie Redox (A16) (MLRA 150A)	Umbric Surfa				"Indi	cators of Hydrophytic v		
	ucky Mineral (S1) (-	Delta Ochric			-,		and hydrology must be Irbed or problematic.	present, u	ness
	leyed Matrix (S4)	, _, _,	Reduced Ver			A. 150B)				
	edox (S5)		Piedmont Flo	. , .			Α Δ)			
	Matrix (S6)		Anomalous E				-	153D)		
	face (S7) (LRR P, \$	S. T. U)		ingin Loan	iy 30113 (1		- 1 4 3A, 1330	, 1550)		
		-, , -,								
Restrictive Type:	Layer (if observed):								
···			_		Hyd	ric Soil Pr	resent?	Yes	No	X
Depth (ir	iches):		_							
Remarks:										
Sandy uplan	d soils									

Additional Vegetation Samp	oles						
	Abs%	Dom	Ind		Abs%	Dom	Ind
Tree Stratum	Cover	Spec?	Status	20.	Cover	Spec?	Status
9.				20.			
10.				21. 22.			
11.				23.			
12. 13.				24. 25.			
14.				26.			
15.				26. 27.			
16.				28. 29.			
17. 18.				<u>29.</u> 30.			
19.				31.			
Sapling/Shrub Stra	atum			20.			
9.				21.			
10.				22. 23.			
11. 12.				23. 24.			
13.				25.			
14. 15.				26. 27.			
15.				27.			
16. 17.				28. 29			
18.				30.			
19.				31.			
Herb Stratum				38.			
13.				39.			
14. 15				40. 41.			
16.				42.			
17.				43.			
18. 19.				44. 45.			
20.				45. 46.			
21. 22.				47.			
22.				48.			
23. 24.				49. 50.			
24. 25.				51.			
26.				52.			
27.				53.			
28. 29.				54. 55.			
30.				56.			
31.				57.			
32.				58.			
33.				59.			
34. 35.				60. 61.			
36.				62.			
37.				63.			
Vine Stratum				17.			
6. 7.				18. 19.			
8.				20.			
9.				21.			
10.				22.			
11.				23.			
12. 13.				24. 25.			
14.				26.			
15.				26. 27.			
16.				28.			

Project/Site: Panasoffkee Preserve	City/County: Sumter 5	Sampling Date: Dec 10, 2016
Applicant/Owner: Walton Development and Management	State: Florida	Sampling Point: 5
Investigator(s): Clark Modica	Section, Township, Range: 29/30/32	
Landform (hillslope, terrace, etc.) wetland Loo	cal relief (concave, convex, none): <u>none</u>	Slope (%):
Subregion (LRR or MLRA): LRR U Lat: 28°52'47.9	9" N Long: <u>82°7'39.4" W</u>	Datum:
Soil Map Unit Name: Placid fine sand, depressional	NWI Classification:	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in f	Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed	Are "Normal Circumstances"	present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problematic	? (If needed, explain any answ	vers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is a surface Water (A1)		eck all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on L Presence of Reduced Iron (Recent Iron Reduction in Til Thin Muck Surface (C7) Other (Explain in Remarks)	iving Roots (C3) C4)	X Surface Soil Cracks (B6)
Field Observations:				
Surface Water Present? Yes	No <u>X</u>	Depth (inches):	-	
Water Table Present? Yes	No X	Depth (inches):	Wetland Hvd	rology Present? Yes X No
Saturation Present? Yes (includes capillary fringe)	No <u>X</u>	Depth (inches):	-	
Describe Recorded Data (stream gaug Aerial photos available	e, monitorino	g well, aerial photos, previous ir	nspections), if avai	ilable:
Remarks:				

Г

	Abaaluta Daminant Indiaatan	Dominance Test worksneet:
Tree Stratum (Plot size:)	Absolute Dominant Indicator % Cover Species? Status	Number of Dominant Species
1		That Are OBL, FACW, or FAC: (A)
2		-
3		Total Number of Dominant Species Across All Strata: (B)
4		Species Across All Strata: (B)
5		Percent of Dominant Species
6 7.		- That Are OBL, FACW, or FAC: (A/B)
8		Prevalence Index worksheet:
0	0 = Total Cover	Total % Cover of:Multiply by:
50 % of total cover: 0		OBL species x 1 =
		FACW species X 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species X 3 =
1		FACU species X 4 =
2		UPL species X 5 =
3		Column Totals: (A) (B)
		- Droviolance Index - D(A
6 7		Prevalence Index = B/A =
8.		 Hydrophytic Vegetation Indicators: X 1 – Rapid Test for Hydrophytic Vegetation
	0 = Total Cover	2 - Dominance Test is > 50%
10ft <u>0</u>	20 % of total cover: 0	$-3 - \text{Prevalence Test is } \le 3.0^{1}$
		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size:)		
 Panicum hemitomon (Maiden-cane) Cephalanthus occidentalis (Buttonbush,common) 	<u>85 Y OBL</u> 5 OBL	¹ Indicators of hydric soil and wetland hydrology must
 <u>Cephalantitus occidentais (Buttonbush, common)</u> Rhynchospora stenophylla (Beakrush, chapman's) 		- be present, unless disturbed or problematic.
4		 Definitions of Vegetation Strata:
5.		 Tree – Woody plants, excluding woody vines,
6.		approximately 20 ft (6 m) or more in height and 3 in.
7.		 (7.6 cm) or larger in diameter at breast height (DBH).
8		Sapling – Woody plants, excluding woody vines,
9		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
10		
11		Shrub – Woody plants, excluding woody vines,
12	92 = Total Cover	_ approximately 3 to 20 ft (1 to 6 m) in height.
50 % of total cover: 46		Herb – All herbaceous (non-woody) plants, including
		 herbaceous vines, regardless of size. Includes woody
Woody Vine Stratum (Plot size:)		plants, except woody vines, less than approximately 3 ft (1 m) in height.
1		
2.		Woody vine – All woody vines, regardless of height.
3		_
4		
5		_ Hydrophytic Vegetation
	0 = Total Cover	Present? Yes X No
50 % of total cover:0	20 % of total cover:0	-
Remarks: (Include photo numbers here or on a separate	sneet.)	

Profile Desc Depth	cription: (Describe Matrix			nent the in dox Feature		or confirm	the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR2/1				N/A	N/A	N/A	
10-16	10YR3/1				N/A	N/A	N/A	
10-10	1011(0/1				11/7			
		<u> </u>						
¹ Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, C	S=Covered	or Coate	d Sand Gra	ains. ² l	Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surface	e (S8) (LF	RR S, T, U))1 cm	Muck (A9) (LRR O)
Histic Ep	ipedon (A2)		Thin Dark Su	face (S9) (I	LRR S, T	, U)	2 cm	Muck (A10) (LRR S)
Black His	stic (A3)		Loamy Gleye	d Matrix (F	1) (LRR (D)	Redu	uced Vertic (F18) (outside MLRA 150A,B)
Hydroger	n Sulfide (A4)		Loamy Gleye					mont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat					nalous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F	P. T. U)	Redox Dark S)			LRA 153B)
	cky Mineral (A7) (L	-	Depleted Dar	•	,		-	Parent Material (TF2)
	esence (A8) (LRR L	-	Redox Depre					Shallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	~)	Marl (F10) (L	. ,				r (Explain in Remarks)
		$(\Lambda 11)$		-		1)		
	Below Dark Surfac	e (ATT)	Depleted Och			-	-\	
	rk Surface (A12)		Iron Mangane				Sindic	cators of Hydrophytic vegetation and
	airie Redox (A16) (-	Umbric Surfa			0)		nd hydrology must be present, unless
	ucky Mineral (S1) (LRR O, S)	Delta Ochric	. , .			distui	rbed or problematic.
	leyed Matrix (S4)		Reduced Ver			-		
	edox (S5)		Piedmont Flo				-	
X Stripped	. ,		Anomalous B	right Loam	y Soils (F	20) (MLRA	A 149A, 153C	s, 153D)
Dark Sur	face (S7) (LRR P, \$	S, T, U)						
	Layer (if observed):						
Type:					Hyd	ric Soil Pr	esent?	Yes <u>X</u> No
Depth (in	iches):							
Remarks:								
1								
1								

Additional Vegetation Samp	oles						
	Abs%	Dom	Ind		Abs%	Dom	Ind
Tree Stratum	Cover	Spec?	Status	20.	Cover	Spec?	Status
9.				20.			
10.				21. 22.			
11.				23.			
12. 13.				24. 25.			
14.				26.			
15.				26. 27.			
16.				28. 29.			
17. 18.				<u>29.</u> 30.			
19.				31.			
Sapling/Shrub Stra	atum			20.			
9.				21.			
10.				22. 23.			
11. 12.				23. 24.			
13.				25.			
14. 15.				26. 27.			
15.				27.			
16. 17.				28. 29			
18.				30.			
19.				31.			
Herb Stratum				38.			
13.				39.			
14. 15				40. 41.			
16.				42.			
17.				43.			
18. 19.				44. 45.			
20.				45. 46.			
21. 22.				47.			
22.				48.			
23. 24.				49. 50.			
24. 25.				51.			
26.				52.			
27.				53.			
28. 29.				54. 55.			
30.				56.			
31.				57.			
32.				58.			
33.				59.			
34. 35.				60. 61.			
36.				62.			
37.				63.			
Vine Stratum				17.			
6. 7.				18. 19.			
8.				20.			
9.				21.			
10.				22.			
11.				23.			
12. 13.				24. 25.			
14.				26.			
15.				26. 27.			
16.				28.			