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): 21 February 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:

Jacksonville District. Tampa Permits Section, Gainesville Field Office Violet Solar Farm Parcel 1 SAJ-2017-00462

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:FL County/parish/borough: Alachua City: Newberry Center coordinates of site (lat/long in degree decimal format): Lat. 29.701° N, Long. 82.534° W. Universal Transverse Mercator:

Name of nearest waterbody: Unnamed mine pits where active mining has ceased

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Watermelon Pond

Name of watershed or Hydrologic Unit Code (HUC): 031101 (Waccassa)

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: 21 February 2017

Field Determination. Date(s):

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 i

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 no "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: acres.
- **c. Limits (boundaries) of jurisdiction** based on: **Pick List** Elevation of established OHWM (if known):
- 2. <u>Non-regulated waters/wetlands (check if applicable)</u>:³
 - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Parcel 1 contains two depressional wetlands: Wetland C and Wetland D. In the case of these wetalnds, the Corps determined that each is located over 11.6 miles from the nearest TNW. Neither of the wetlands exhibit any

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).

³ Supporting documentation is presented in Section III.F.

surface or shallow subsurface connection with any TNW, RPW, or non-RPW. In light of this, the Corps could not support a finding that these wetlands are adjacent to a TNW or that either wetland possesses the rquired biological, chemical, or chemical charcteristics to support a significant nexus between these wetlands and the nearest TNW. The Corps determined that the only basis for jurisdiction over wetlands C and D would be the presence of migratory birds. According to Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers, 531 U.S. 159 (2001), this basis alone is insuiffcient to support Corps jurisdicition over a water. Thus, the Corps should not exert jurisdiction over Wetland C or Wetland D.

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:	Pick List	
Drainage area:	Pick List	
Average annual rainfa	ll: i	nches
Average annual snowf	all:	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 Pick List aerial (straight) miles from TNW.
Project waters are Pick List aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW⁵: . Tributary stream order, if known:

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

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.

(b)	General Tributary Characteristics (check all that apply):
	Tributary is: 🗌 Natural
	Artificial (man-made). Explain:
	Manipulated (man-altered). Explain:
	Tributary properties with respect to top of bank (estimate): Average width: feet Average depth: feet Average side slopes: Pick List.
	Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain:
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:Presence of run/riffle/pool complexes. Explain:Tributary geometry:Pick ListTributary gradient (approximate average slope):%
(c)	Flow: Tributary provides for: Pick List Estimate average number of flow events in review area/year: Pick List Describe flow regime: . Other information on duration and volume: .
	Surface flow is: Pick List. Characteristics:
	Subsurface flow: Pick List . Explain findings: Dye (or other) test performed: .
	Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): the presence of litter and debris clear, natural line impressed on the bank the presence of litter and debris changes in the character of soil destruction of terrestrial vegetation shelving the presence of wrack line vegetation matted down, bent, or absent sediment sorting leaf litter disturbed or washed away scour sediment deposition multiple observed or predicted flow events water staining abrupt change in plant community other (list): .
	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):
Che	mical Characteristics:

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

Identify specific pollutants, if known:

(iii)

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.

(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:

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

(i) **Physical Characteristics:**

- (a) General Wetland Characteristics: Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
- (b) General Flow Relationship with Non-TNW: Flow is: **Pick List**. Explain:

Surface flow is: Pick List Characteristics:

Subsurface flow: Pick List. Explain findings: Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:

- Directly abutting
- Not directly abutting
 - Discrete wetland hydrologic connection. Explain:
 - 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 **Pick List** aerial (straight) miles from TNW. Flow is from: **Pick List.** Estimate approximate location of wetland as within the **Pick List** 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:

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

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

All wetland(s) being considered in the cumulative analysis: Pick List) acres in total are being considered in the cumulative analysis. Approximately (

For each wetland, specify the following:

Directly abuts? (Y/N) Size (in acres)

Directly abuts? (Y/N)

Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

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):

acres.

- Tributary waters: linear feet width (ft).
- Other non-wetland waters:
 - 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: 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:

Identify water body and summarize rationale supporting determination:

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*.

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

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	s, streams):	linear feet	width (ft).
Lakes/ponds: acres.			
Other non-wetland waters:	acres. List ty	pe of aquatic re	source: .
Wetlands: 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: 0.34acres.

SECTION IV: DATA SOURCES.

A.	SUPPORTING DATA.	Data reviewed for JD	(check all that apply -	checked items	shall be included	in case file and,	where checked
	and requested, appropria	ately reference sources b	elow):				

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:

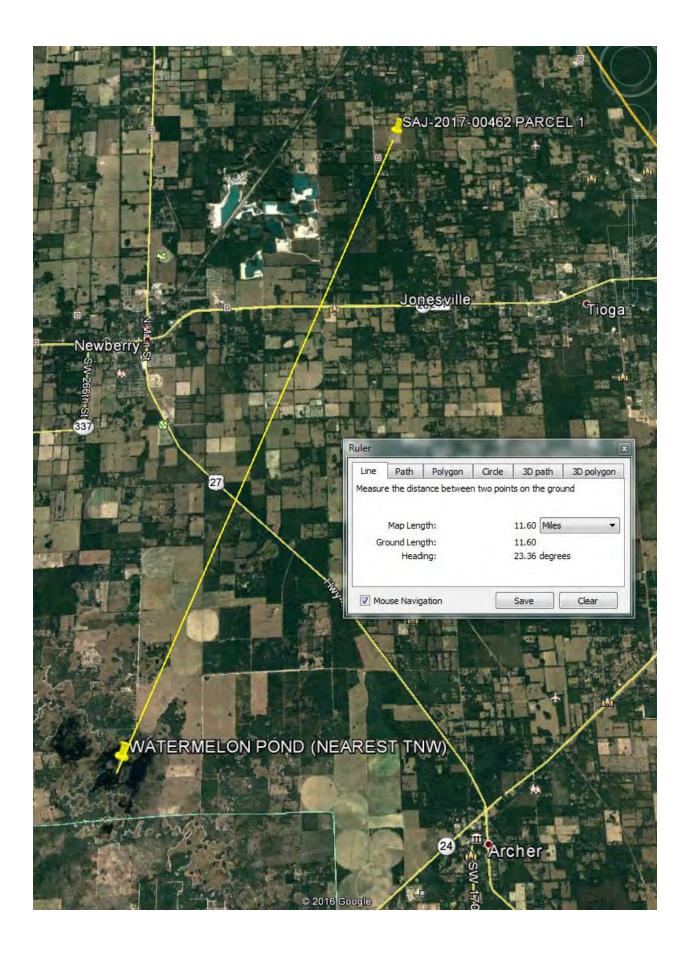
\bowtie	Data sheets prep	ared/submitted by	y or on behalf of	f the applicant/c	onsultant.

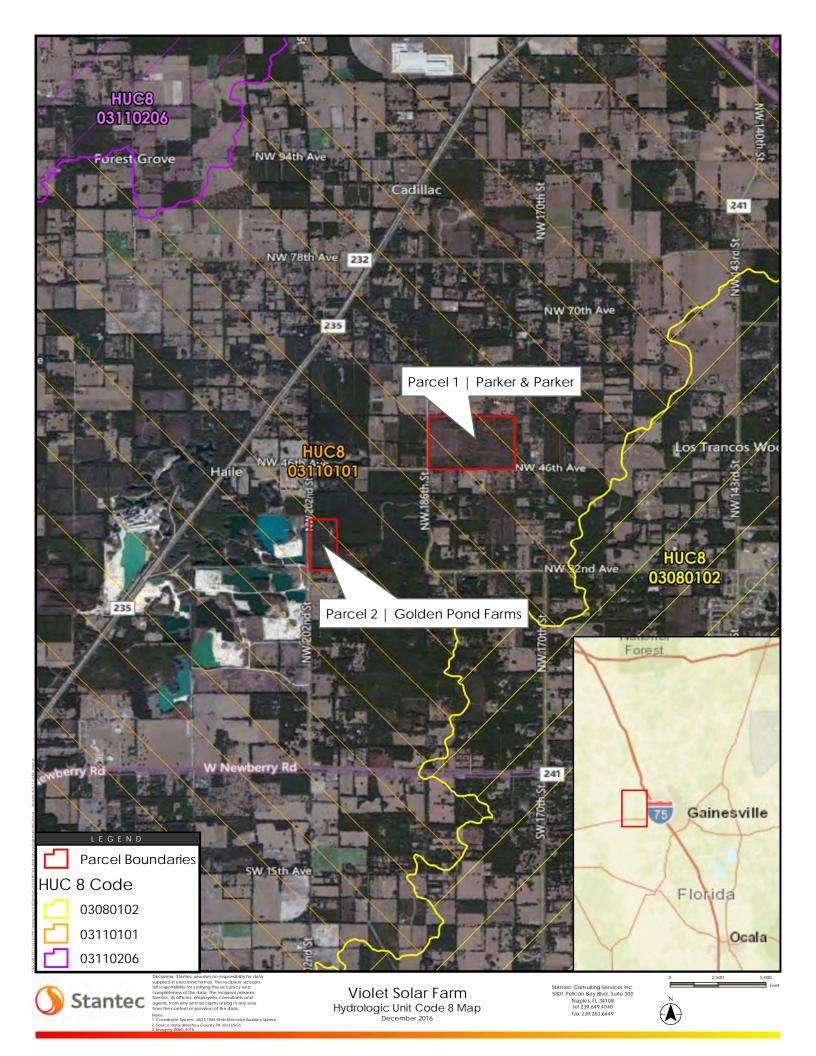
 \boxtimes Office concurs with data sheets/delineation report.

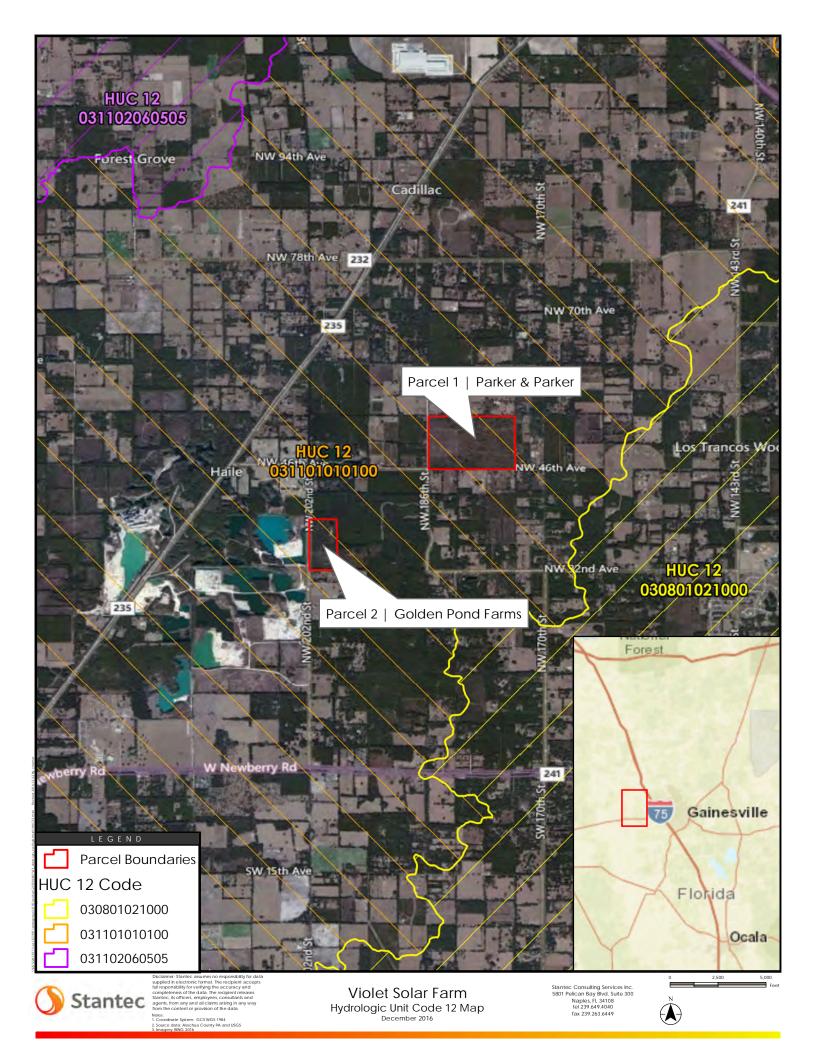
Office does not concur with data sheets/delineation report.

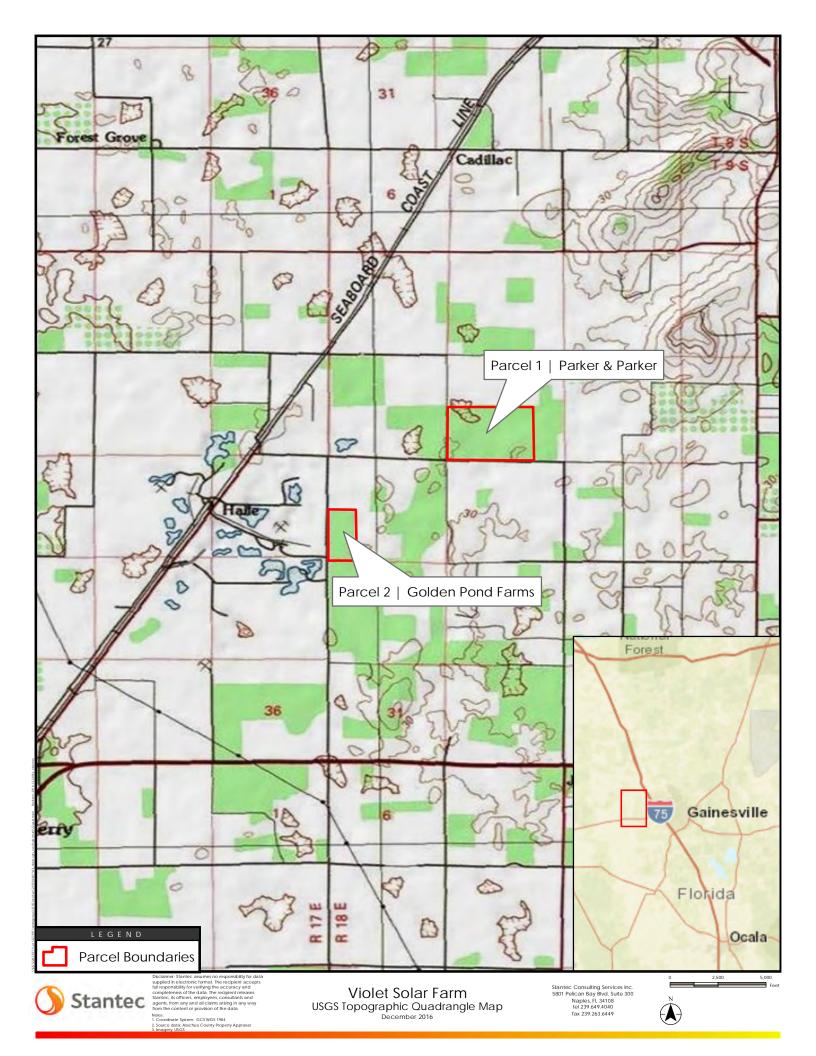
- Data sheets prepared by the Corps:
- Corps navigable waters' study:
- U.S. Geological Survey Hydrologic Atlas:
- USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name:1'=5,000' Newberry Quadrangle Map.
- USDA Natural Resources Conservation Service Soil Survey. Citation:nrcs.usda.gov.
- National wetlands inventory map(s). Cite name:srwmd.state.fl.us.
- State/Local wetland inventory map(s):
- FEMA/FIRM maps:
- 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
 - Photographs: Aerial (Name & Date):
 - or 🗌 Other (Name & Date):
- Previous determination(s). File no. and date of response letter:
- Applicable/supporting case law:Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers, 531 U.S. 159.
 - Applicable/supporting scientific literature:
- Other information (please specify):Google Earth Imagery dated 19 NOV 2016 accessed 21 FEB 2017.

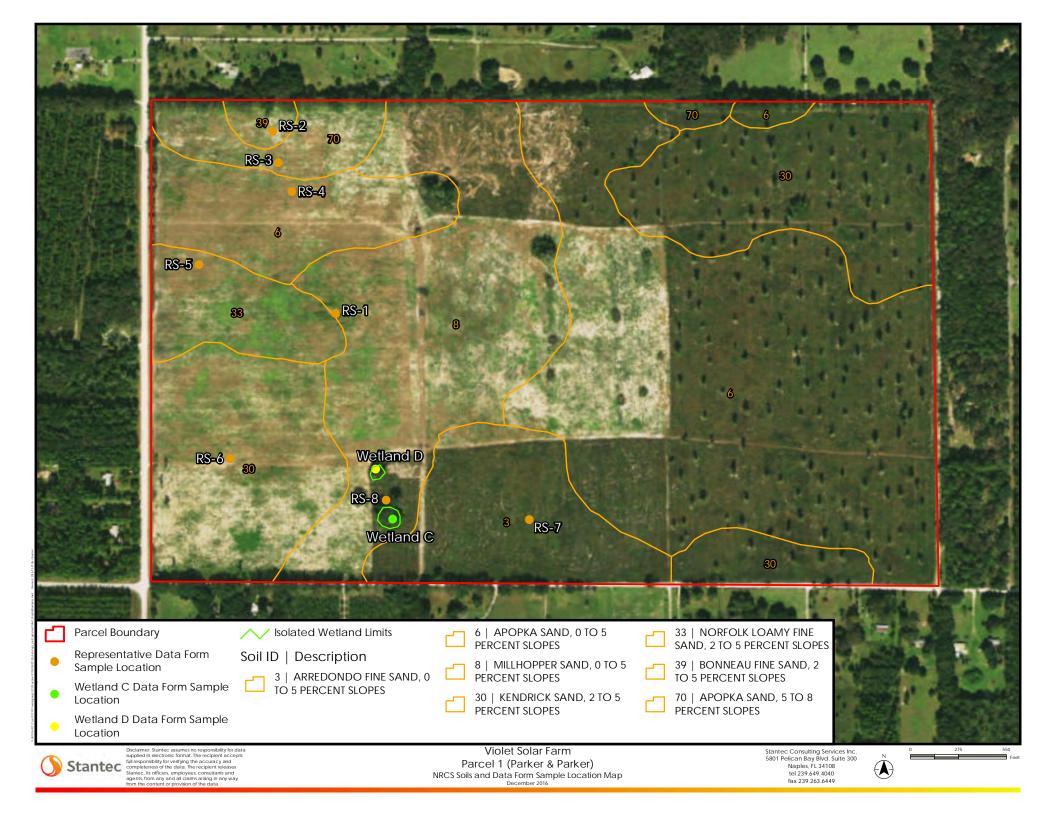
B. ADDITIONAL COMMENTS TO SUPPORT JD:











WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Violet Solar Farm	City/County: Newberry/Alachua Sampling Date: 12/14/2016
Applicant/Owner: 74VL 8me LLC	State: FL Sampling Point: Parcel 1 Wetland C
Investigator(s): Tom Trettis	Section, Township, Range: Sec. 19. Town. 09, Range 18
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): Slope (%): 0-5
Subregion (LRR or MLRA): LRR U Lat: 29.	Long: -82. Datum: NAD 83
Soil Map Unit Name: Millhopper Sand, 0 to 5 Slopes	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of y	/ear? Yes 🖌 No 🦳 (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantl	y disturbed? Are "Normal Circumstances" present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally p	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes Yes	Is the Sampled Area within a Wetland? Yes No
Depressional area in the landscape	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Water Marks (B1) Hydrogen Sull Sediment Deposits (B2) Oxidized Rhiz Drift Deposits (B3) Presence of R Algal Mat or Crust (B4) Recent Iron R Iron Deposits (B5) Thin Muck Sull Inundation Visible on Aerial Imagery (B7) Other (Explain	I Leaves (B9) Sparsely Vegetated Concave Surface (B8) a (B13) Drainage Patterns (B10) (B15) (LRR U) Moss Trim Lines (B16) fide Odor (C1) Dry-Season Water Table (C2) ospheres on Living Roots (C3) Crayfish Burrows (C8) teduced Iron (C4) Saturation Visible on Aerial Imagery (C9) eduction in Tilled Soils (C6) Geomorphic Position (D2) rface (C7) Shallow Aquitard (D3)
	s): None at 36" s): None at 36" Wetland Hydrology Present? Yes No
No recorded data available.	
Remarks: One primary and two secondary USACE wetland hydrology indicate	ors documented in sample area.

VEGETATION - Use scientific names of plants.

Sampling Point: Parcel 1 Wetland C

25%	Yes		
		FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 5(A)
35%	Yes	FACW	Total Number of Dominant Species Across All Strata: 7(B)
	-		Percent of Dominant Species That Are OBL, FACW, or FAC: 0.7 (A/B
			Prevalence Index worksheet:
60%	-		Total % Cover of:Multiply by:
0078	= Total Cov	rer	OBL species 0 x 1 = 0
30%	Yes	FACW	FACW species 110 x 2 = 220
15%	Yes	FACU	FAC species 0 x 3 = 0
	-		FACU species 40 x 4 = 160
	1.5	1	UPL species 0 x 5 = 0
			Column Totals: 150 (A) 380 (B)
	_		
			Prevalence Index = B/A = 2.5
45%	Total Con	ar	Hydrophytic Vegetation Indicators:
	- Tutal Cuv	51	Dominance Test is >50%
15%	Yes	FACW	Prevalence Index is ≤3.0 ¹
5	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree - Woody plants, excluding woody vines,
20 =	Total Cov	er	approximately 20 ft (6 m) or more in height and 3 in.
25%	Yes	FACW	(7.6 cm) or larger in diameter at breast height (DBH).
		_	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
			than 3 in. (7.6 cm) DBH.
			Shrub - Woody plants, excluding woody vines,
			approximately 3 to 20 ft (1 to 6 m) in height.
			Harb All berbasseus (see weeds) cleate includies
	2-2-		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.
			Woody vine - All woody vines, regardless of height.
-0			
25% =	Total Cove	er	
_		er.,	
	<u> </u>		
_	_		
			States and the second second
			Hydrophytic Vegetation
	Total Cove	er	Present? Yes No
helow)			
	a		
E hydrophy	ytic veg	etation.	
	60% 30% 15% 15% 20 20 25% 25% 25% 25% 25% 30% 30% 30% 30% 30% 30% 30% 30	60% = Total Cov 30% Yes 15% Yes 45% = Total Cov 45% = Total Cov 20 = Total Cov 20 = Total Cov 20 = Total Cov 20 = Total Cov 25% Yes 25% Yes 25% Yes 25% Total Cov 25% Yes 25% Yes 25% Yes 25% Yes 25% Total Cov 25% Total Cov	60% = Total Cover 30% Yes FACW 15% Yes FACU 45% = Total Cover 15% Yes FACW 5 Yes FACW 20 = Total Cover 20 = Total Cover 25% Yes FACW 20 = Total Cover 25% Yes FACW 20 = Total Cover 25% Yes FACW 25% = Total Cover 25% = Total Cover

SOIL

Sampling Point: Parcel 1 Welland C

Profile Des	cription: (Describe 1	to the depth			r or confirm	n the absence of in	dicators.)
Depth	Matrix			x Features			Second Law
(inches)	Color (moist)	%	Color (moist)	%Type	Loc ²		Remarks
0-7	10YR 2/1					Fine Sand	
7-12	10 YR 4/4					Fine Sand	
						1	
				<u> </u>			
· · · · ·							
	-						
	oncentration, D=Dept	etion, RM=R	Reduced Matrix, CS	S=Covered or Coa	ed Sand G		n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:					Indicators for F	Problematic Hydric Soils ³ :
Histosol				low Surface (S8)		U) 🔲 1 cm Muck	(A9) (LRR O)
	pipedon (A2)			urface (S9) (LRR S			(A10) (LRR S)
	istic (A3)			y Mineral (F1) (LR	R 0)		ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)			ed Matrix (F2)			loodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma				Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,		Redox Dark			(MLRA 1	
	ucky Mineral (A7) (LR			rk Surface (F7)			Material (TF2)
	resence (A8) (LRR U)		Redox Depre				w Dark Surface (TF12) (LRR T, U)
	JCk (A9) (LRR P, T)		Marl (F10) (L			Other (Expl	ain in Remarks)
	d Below Dark Surface	(A11)		hric (F11) (MLRA			f huden a huden a sector fact and
the second se	ark Surface (A12)	-		ese Masses (F12)	 A state of the state of the state 		of hydrophytic vegetation and
	rairie Redox (A16) (M /lucky Mineral (S1) (L			Ce (F13) (LRR P,	K		hydrology must be present, isturbed or problematic.
	Gleyed Matrix (S4)	RR 0, 3)		(F17) (MLRA 151) tic (F18) (MLRA 1			isturbed of problematic.
	Redox (S5)			odplain Soils (F19			
	Matrix (S6)					A 149A, 153C, 153	D
	face (S7) (LRR P, S,	T.UI		ingin Louniy cons	(1 20) (1121	01 1407, 1000, 100	51
	Layer (if observed):					1	
Type:							
			_			Indate Datt Date	
Depth (in	cnes):	-	-			Hydric Soil Pres	sent? Yes No
Remarks:							
1.							
NRCS hydri	c soil indicators obser	ved in soil p	rofile within the sa	mple area.			
1							
							A 11

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Violet Solar Farm	City/County: Newberry/Alachua	Sampling Date: 12/14/2016			
Applicant/Owner: 74VL 8me LLC	State: FL Sampling Point: Parcel 1 We				
Investigator(s): Tom Trettis	Section, Township, Range: Sec. 19. Town. 09, Range 18				
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none): Conca				
Subregion (LRR or MLRA): LRR U Lat: 29.	Long: -82.	Datum: NAD 83			
Soil Map Unit Name: Millhopper Sand, 0 to 5 Slopes	NWI class	sification: N/A			
Are climatic / hydrologic conditions on the site typical for this time of y	vear? Yes 🚺 No 🛄 (If no, explain i	n Remarks.)			
Are Vegetation, Soil, or Hydrology significant	y disturbed? Are "Normal Circumstance	s" present? Yes 🖌 No			
Are Vegetation, Soil, or Hydrology naturally p					
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transed	cts, important features, etc.			
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? Yes	✓ No			
Depressional area in the landscape					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Inc	licators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply) Surface S	ioil Cracks (B6)			
Surface Water (A1) Water-Stained	Leaves (B9) Sparsely	Vegetated Concave Surface (B8)			
High Water Table (A2)	a (B13)	Patterns (B10)			
		n Lines (B16)			
		on Water Table (C2)			
		Burrows (C8) In Visible on Aerial Imagery (C9)			
	이제 중 전쟁을 통해 그렇게 물었던 것을 가지면 힘을 들어야 했다.	hic Position (D2)			
Iron Deposits (B5)		quitard (D3)			
Inundation Visible on Aerial Imagery (B7)	n in Remarks)	tral Test (D5)			
Field Observations:					
Surface Water Present? Yes No Depth (inche	s):				
Water Table Present? Yes No Depth (inche	s): None at 36"				
Saturation Present? Yes Ves Ves Depth (inche (includes capillary fringe)	s): None at 36" Wetland Hydrology Pres	sent? Yes No			
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:				
No recorded data available.					
Remarks:					
	C. Alter and the second second				
One primary and two secondary USACE wetland hydrology indicate	ors documented in sample area.				

VEGETATION - Use scientific names of plants.

Sampling Point: Parcel 1 Welland D

	Species?		Dominance Test worksheet: Number of Dominant Species
			That Are OBL, FACW, or FAC: 5 (A)
25%	Yes	FACW	Total Number of Dominant
	<u> </u>		Species Across All Strata: 7 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 0.7 (A/F
			Prevalence Index worksheet:
40%	THIO		Total % Cover of: Multiply by:
4070	= Total Cov	ver	OBL species 0 x1 = 0
40%	Yes	FACW	FACW species 105 x 2 = 210
		200000	FAC species 0 $x_3 = 0$
and the second s	103		La Ville and the second second second
			UPL species 0 x 5 = 0
			Column Totals: 130 (A) 310 (B
		-	Prevalence Index = B/A = 2.3
50%	= Total Cau	ar	Hydrophytic Vegetation Indicators:
	- Total Covi		✓ Dominance Test is >50%
15%	Yes	FACW	$\boxed{\checkmark}$ Prevalence Index is ≤3.0 ¹
5	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
			The advanced of the same story of a second state of the second story of the
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			be present, unless distanced of problematic.
- C	-		Definitions of Vegetation Strata:
20	= Total Cov	er.	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
	- Total Cove		(7.6 cm) or larger in diameter at breast height (DBH).
25%	Yes	FACW	
			Sapling – Woody plants, excluding woody vines,
			approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
			Shrub - Woody plants, excluding woody vines,
		<u> </u>	approximately 3 to 20 ft (1 to 6 m) in height.
_			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.
		_	Woody vine - All woody vines, regardless of height.
			and a second sec
AC NOT			
25%	= Total Cove	er	
_			
-	_		
			A COLUMN AND A COLUMN A
			Hydrophytic
	Tuble		Vegetation
	= I otal Cove	ar	Present? Yes No
elow).			al.
100 and 100 and 100		1	
hydroph	ytic vege	etation.	
	<u>% Cover</u> 15% 25% 40% 40% 10% 50% 15% 5 20 25% 25% 25% 25%	% Cover Species? 15% Yes 25% Yes 40% = Total Cov 40% Yes 10% Yes 50% = Total Cov 50% = Total Cov 25% Yes 20 = Total Cov 20 = Total Cov 25% Yes 20 = Total Cov 25% Yes 20 = Total Cov 25% Yes 25% Yes 25% Yes 25% Total Cov 25% Yes 25% Total Cov 25% Total Cov 25% Total Cov	% Cover Species? Status 15% Yes FACW 25% Yes FACW 25% Yes FACW 40% = Total Cover 40% Yes FACW 10% Yes FACW 10% Yes FACU 50% = Total Cover

SOIL

Sampling Point: Parcel 1 Welland D

Depth	Matrix		n needed to docur Redo	x Feature				Per margan app •
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	Texture	Remarks
0-7	10YR 2/1						Fine Sand	
7-12	10 YR 4/4				_		Fine Sand	
		_		_		_		
				_		<u></u>		
						_		
				č				
'Type: C=C	oncentration, D=Dep	letion, RM=R	Reduced Matrix, CS	S=Covered	d or Coate	d Sand G	rains. ² Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:	1000					Indicators fo	or Problematic Hydric Soils ³ :
Histoso			Polyvalue Be					ck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					ck (A10) (LRR S)
	istic (A3)		Loamy Muck			0)		Vertic (F18) (outside MLRA 150A,
	en Sulfide (A4) d Layers (A5)		Loamy Gleye		F2)			t Floodplain Soils (F19) (LRR P, S, us Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	T.UN	Redox Dark		6)		(MLRA	
	ucky Mineral (A7) (LF	9 . 7 . 9	Depleted Dar					ent Material (TF2)
	resence (A8) (LRR U		Redox Depre					allow Dark Surface (TF12) (LRR T, L
1 cm M	uck (A9) (LRR P, T)		Mari (F10) (L	RR U)				xplain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oct					
	ark Surface (A12)		Iron-Mangan					ors of hydrophytic vegetation and
	rairie Redox (A16) (I					U)		nd hydrology must be present,
	Mucky Mineral (S1) (I	LRR O, S)	Delta Ochric			-		s disturbed or problematic.
	Gleyed Matrix (S4) Redox (S5)		Piedmont Flo					
and the second se	Matrix (S6)						A 149A, 153C, 1	53D)
	urface (S7) (LRR P, S	S. T. U)		ingin Loui	ing come (i			
							1	
	Layer (if observed):							
	~ 지수가 가지 않는 것이 같아.							
Restrictive			- 1				Hydric Soil Pr	resent? Yes 🗸 No
Restrictive Type: Depth (in			<u>_</u>	-			Hydric Soil Pr	resent? Yes 🗸 No
Restrictive Type: Depth (in							Hydric Soil Pr	resent? Yes 🗸 No
Restrictive Type: Depth (in							Hydric Soil Pr	resent? Yes 🗸 No
Restrictive Type: Depth (in			-				Hydric Soil Pr	resent? Yes 🗸 No
Restrictive Type: Depth (in							Hydric Soil Pr	resent? Yes 🗸 No
Restrictive Type: Depth (in Remarks:	ches):			mole area			Hydric Soil Pr	resent? Yes 🗸 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🖌 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🖌 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🗸 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🗸 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🗸 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🗸 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🖌 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🖌 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🖌 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🖌 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🖌 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🖌 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🔽 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🔽 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🖌 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🖌 No
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes <table-cell> No</table-cell>
Restrictive Type: Depth (in Remarks: NRCS hydri	ches):	erved in soil p					Hydric Soil Pr	resent? Yes 🖌 No

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): 21 February 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:

Jacksonville District. Tampa Permits Section, Gainesville Field Office Violet Solar Farm Parcel 2 SAJ-2017-00462

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:FLCounty/parish/borough: AlachuaCity: NewberryCenter coordinates of site (lat/long in degree decimal format):Lat. 29.685992° N, Long. 82.555800° W.Universal Transverse Mercator:

Name of nearest waterbody: Unnamed mine pits where active mining has ceased

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Watermelon Pond

Name of watershed or Hydrologic Unit Code (HUC): 031101 (Waccassa)

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: 21 February 2017

Field Determination. Date(s):

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 no "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: acres.
- **c. Limits (boundaries) of jurisdiction** based on: **Pick List** 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: Parcel 2 contains one depressional Wetland A. In the case of Wetland A, the Corps determined that Wetland
 A is located 10.1 miles from the nearest TNW. Wetland A does not exhibit any surface or shallow subsurface

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).

³ Supporting documentation is presented in Section III.F.

connection with any TNW, RPW, or non-RPW. In light of this, the Corps could not support a finding that Wetland A is adjacent to a TNW or that Surface Water A possesses the rquired biological, chemical, or chemical charcteristics to support a significant nexus between Surface Water A and the nearest TNW. The Corps determined that the only basis for jurisdiction over Wetland A would be the presence of migratory birds. According to Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers, 531 U.S. 159 (2001), this basis alone is insuiffcient to support Corps jurisdiction over Wetland A..

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:	Pick List	
Drainage area:	Pick List	
Average annual rainfa	ll: i	nches
Average annual snowf	all:	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 Pick List aerial (straight) miles from TNW.
Project waters are Pick List aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW⁵: . Tributary stream order, if known:

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

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.

(b)	General Tributary Characteristics (check all that apply):
	Tributary is: 🗌 Natural
	Artificial (man-made). Explain:
	Manipulated (man-altered). Explain:
	Tributary properties with respect to top of bank (estimate): Average width: feet Average depth: feet Average side slopes: Pick List.
	Primary tributary substrate composition (check all that apply):
	Tributary condition/stability [e.g., highly eroding, sloughing banks].Explain:Presence of run/riffle/pool complexes.Explain:Tributary geometry:Pick ListTributary gradient (approximate average slope):%
(c)	Flow: Tributary provides for: Pick List Estimate average number of flow events in review area/year: Pick List Describe flow regime: . Other information on duration and volume: .
	Surface flow is: Pick List. Characteristics:
	Subsurface flow: Pick List . Explain findings: Dye (or other) test performed: .
	Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): the presence of litter and debris clear, natural line impressed on the bank the presence of litter and debris changes in the character of soil destruction of terrestrial vegetation shelving the presence of wrack line vegetation matted down, bent, or absent sediment sorting leaf litter disturbed or washed away scour sediment deposition multiple observed or predicted flow events water staining abrupt change in plant community other (list): .
	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):
Che	mical Characteristics:

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

Identify specific pollutants, if known:

(iii)

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.

(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:

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

(i) **Physical Characteristics:**

- (a) General Wetland Characteristics: Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
- (b) General Flow Relationship with Non-TNW: Flow is: **Pick List**. Explain:

Surface flow is: Pick List Characteristics:

Subsurface flow: Pick List. Explain findings: Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:

- Directly abutting
- Not directly abutting
 - Discrete wetland hydrologic connection. Explain:
 - 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 **Pick List** aerial (straight) miles from TNW. Flow is from: **Pick List.** Estimate approximate location of wetland as within the **Pick List** 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:

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

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

All wetland(s) being considered in the cumulative analysis: Pick List) acres in total are being considered in the cumulative analysis. Approximately (

For each wetland, specify the following:

Directly abuts? (Y/N) Size (in acres)

Directly abuts? (Y/N)

Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

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):

acres.

- Tributary waters: linear feet width (ft).
- Other non-wetland waters:
 - 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: 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:

Identify water body and summarize rationale supporting determination:

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*.

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

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. \boxtimes
 - Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely 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 sole 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	s, streams):	linear feet	width (ft).
Lakes/ponds: acres.			
Other non-wetland waters:	acres. List typ	be of aquatic rea	source: .
Wetlands: acres.			

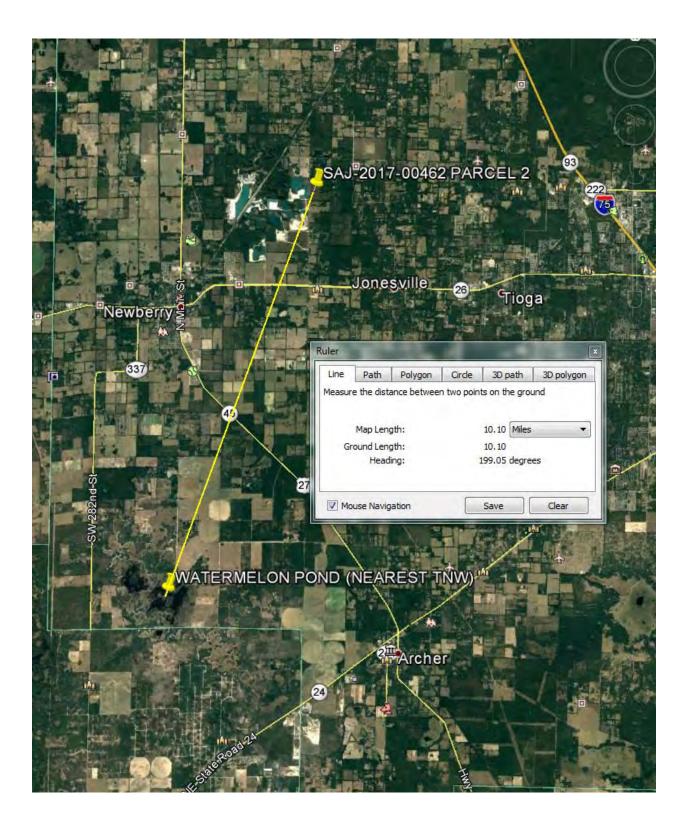
Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

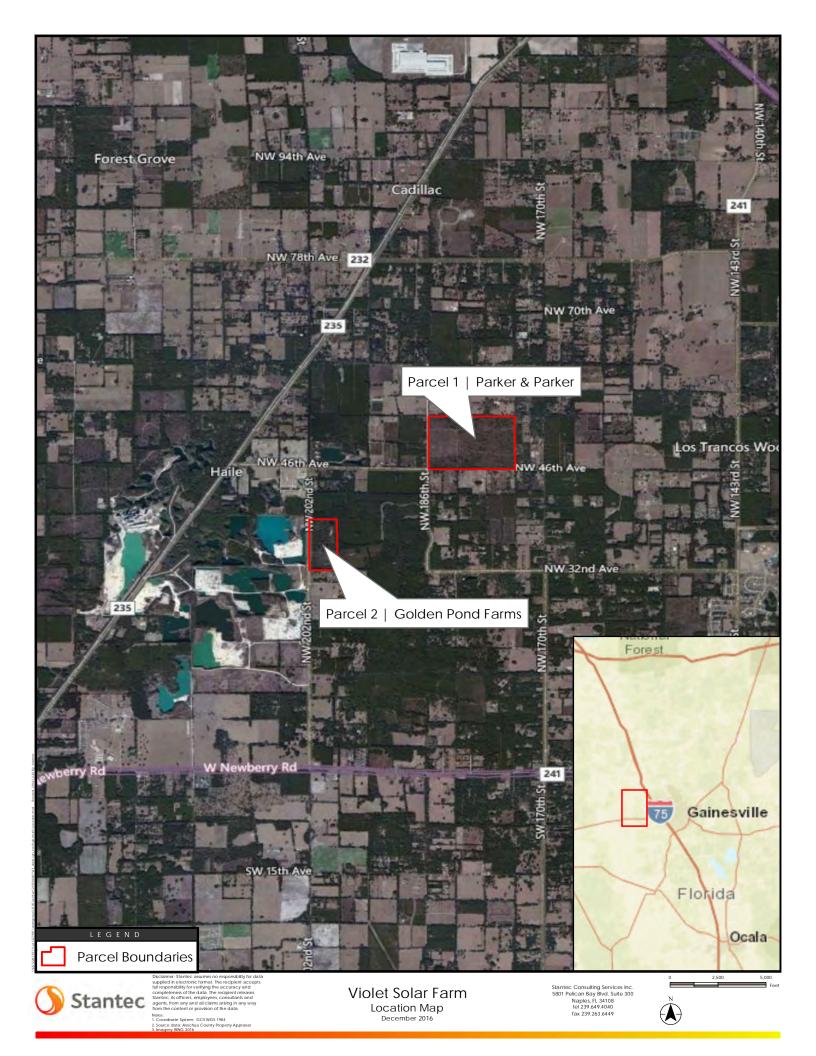
- Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
 - Lakes/ponds: acres.
 - Other non-wetland waters: acres. List type of aquatic resource:
- \boxtimes Wetlands: 0.31 acres.

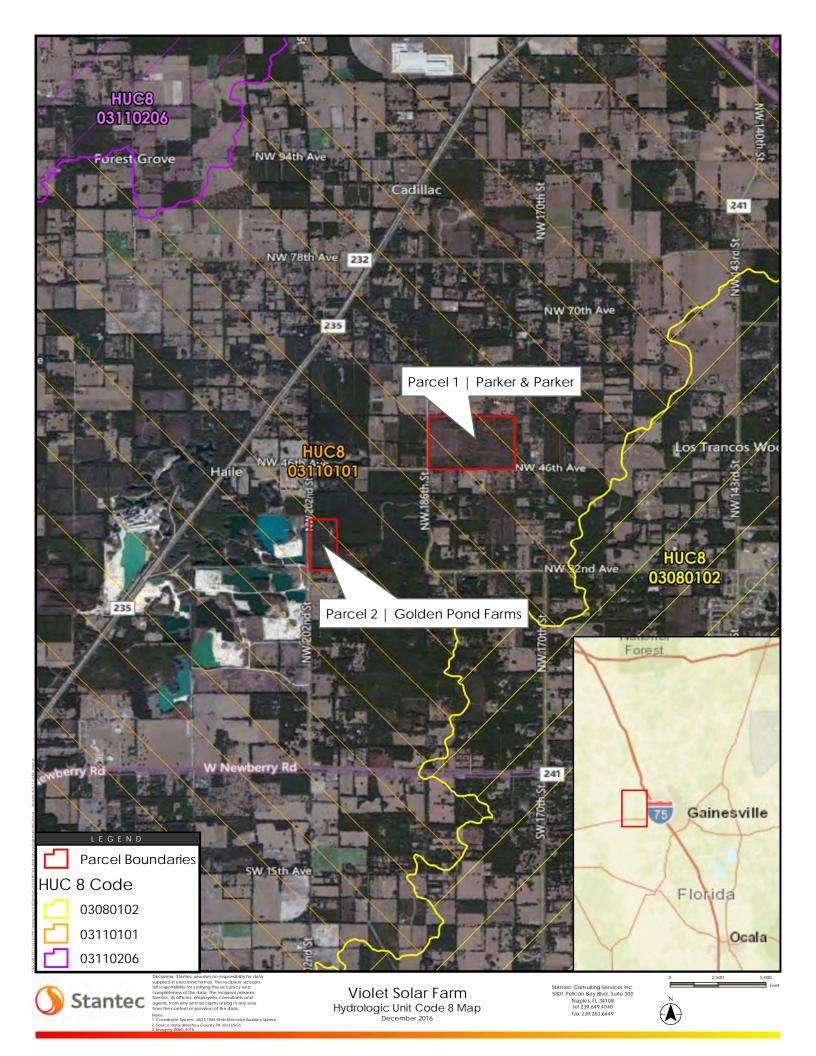
SECTION IV: DATA SOURCES.

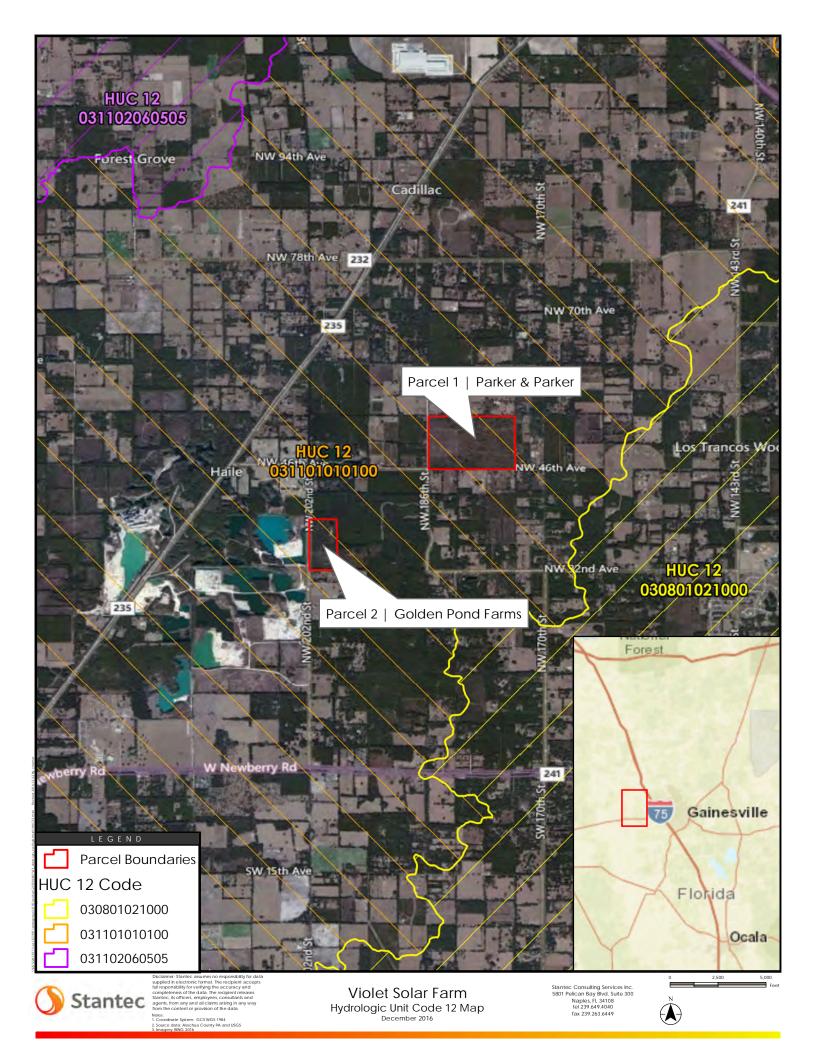
- A. SUPPORTING DATA. Data reviewed for JD (check all that apply checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
 - Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
 - $\overline{\boxtimes}$ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - \boxtimes 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:
 - 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:1'=5,000' Newberry Quadrangle Map.
 - USDA Natural Resources Conservation Service Soil Survey. Citation:nrcs.usda.gov.
 - National wetlands inventory map(s). Cite name:srwmd.state.fl.us.
 - State/Local wetland inventory map(s):
 - FEMA/FIRM maps:
 - 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
 - Photographs: Aerial (Name & Date):
 - or Other (Name & Date):
 - Previous determination(s). File no. and date of response letter:
 - \boxtimes Applicable/supporting case law: Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers, 531 U.S. 159.
 - Applicable/supporting scientific literature:
 - \boxtimes Other information (please specify):Google Earth Imagery dated 19 NOV 2016 accessed 21 FEB 2017.

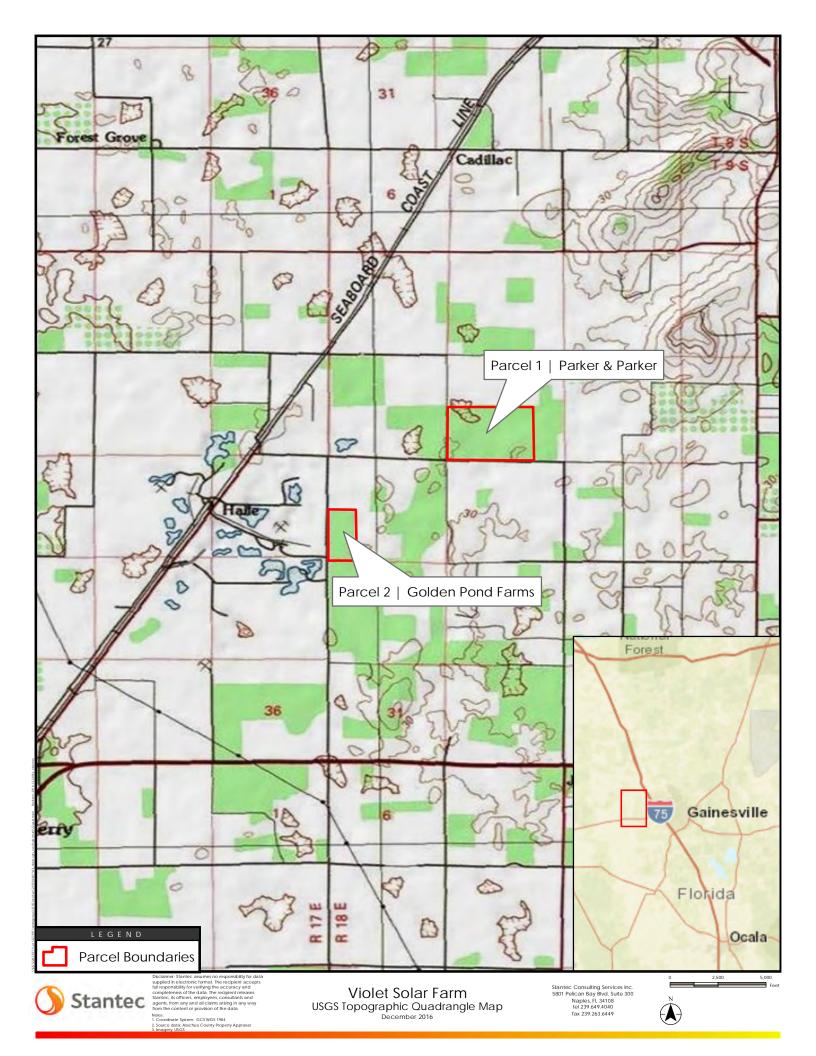
B. ADDITIONAL COMMENTS TO SUPPORT JD:

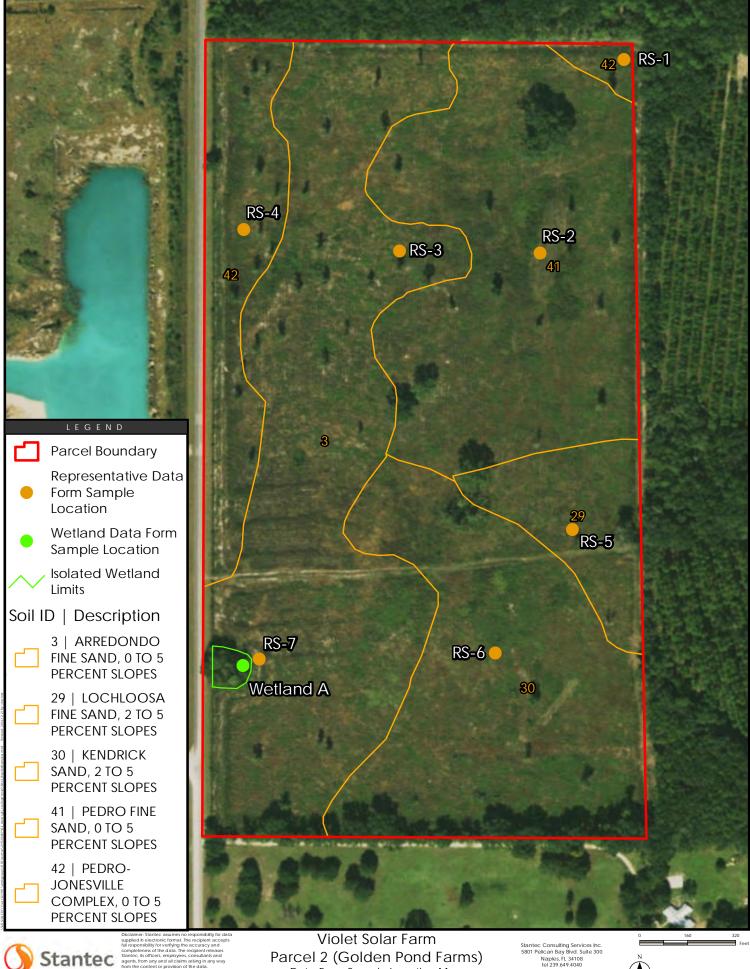












Parcel 2 (Golden Pond Farms) Data Form Sample Location Map December 2016

Stantec Consulting Services Inc. 5801 Pelican Bay Blvd. Suite 300 Naples, FL 34108 tel 239.649.4040 fax 239.263.6449

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Violet Solar Farm	City/County: Newl	perry/Alachua	Sampling Date: 12/14/2016	
Applicant/Owner: 74VL 8me LLC			Sampling Point: Parcel 2 Wetland A	
Investigator(s): Tom Trettis	Section, Township,	Range: Sec. 19. Town. 0		
Landform (hillslope, terrace, etc.): Depression	Local relief (concav at: 29.41.084 pes s time of year? Yes 🖌 N	e, convex, none): Concave Long: -82.33.401 NWI classifie o (If no, explain in F are "Normal Circumstances"	Slope (%): 0-5 Datum: NAD 83 Cation: N/A Remarks.)	
Are Vegetation, Soil, or Hydrology		f needed, explain any answe		
SUMMARY OF FINDINGS – Attach site map				
Hydric Soil Present? Yes Ves	lo Is the Samp o within a We	oled Area tland? Yes ✔	No	
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)	
High Water Table (A2) Aqu Saturation (A3) Mar ✓ Water Marks (B1) Hyd Sediment Deposits (B2) Oxid Drift Deposits (B3) Pres Algal Mat or Crust (B4) Rec Iron Deposits (B5) Thir	that apply) er-Stained Leaves (B9) atic Fauna (B13) I Deposits (B15) (LRR U) rogen Sulfide Odor (C1) dized Rhizospheres on Living R sence of Reduced Iron (C4) ent Iron Reduction in Tilled Soi Muck Surface (C7) er (Explain in Remarks)	Orainage Pa Moss Trim L Dry-Season coots (C3) Saturation V	Vegetated Concave Surface (B8) Patterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) quitard (D3)	
Water Table Present? Yes No 🗸 De	oth (inches): <u>None at 36</u> oth (inches): <u>None at 36</u> oth (inches): <u>None at 36</u> aerial photos, previous inspecti	Wetland Hydrology Preser ons), if available:	nt? Yes 🚺 No 🛄	
Remarks: One primary and two secondary USACE wetland hydrolo	gy indicators documented in sa	mple area.		

VEGETATION - Use scientific names of plants.

Sampling Point: Parcel 2 Welland A

Tree Stratum (Plot size: 25' X 25') 1. Quercus virginiana	Absolute % Cover 25%	Dominant Species? Yes		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 5		
2. Quercus laurifolia 3.	35%	Yes	FACW	Total Number of Dominant Species Across All Strata: 7(B)		
4 5		_	\equiv	Percent of Dominant Species That Are OBL, FACW, or FAC: 0.7 (A/B)		
6				Prevalence Index worksheet:		
7	60%			Total % Cover of:Multiply by:		
Sapling Stratum (Plot size: 25' X 25')	00%	= Total Cov	/er	OBL species 0 x 1 = 0		
1. Quercus laurifolia	30%	Yes	FACW	FACW species 105 x 2 = 210		
2. Quercus virginiana	15%	Yes	FACU	FAC species 0 x 3 = 0		
3	-/1			FACU species 40 x 4 = 160		
4				UPL species 0 x 5 = 0		
5				Column Totals: 145 (A) 370 (B)		
3						
7				Prevalence Index = B/A = 2.5		
	45%	Total Cove	er	Hydrophytic Vegetation Indicators:		
Shrub Stratum (Plot size: 25' X 25')	-			Dominance Test is >50%		
1. Quercus laurifolia	15%	Yes	FACW	Prevalence Index is ≤3.0 ¹		
2. Persea borbonia 3	_ 5	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)		
4				¹ Indicators of hydric soil and wetland hydrology must		
5.				be present, unless disturbed or problematic.		
3				Definitions of Vegetation Strata:		
7						
	20	Total Cove		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.		
Herb Stratum (Plot size: 25' X 25')		(7.6 cm) or larger in diameter at breast height (DBH).				
1. Quercus laurifolia	25%	Yes	FACW	Sapling - Woody plants, excluding woody vines,		
2			_	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.		
4				Shauh Weedu plante, evoluting weedu vines		
5				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.		
3						
7				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody		
B.		_		plants, except woody vines, less than approximately		
9				3 ft (1 m) in height.		
10.				Woody vine - All woody vines, regardless of height.		
11						
12.						
the state of the second second	25% =	Total Cove	er			
Woody Vine Stratum (Plot size: N/A)						
l,	<u>د میکر م</u>		<u> </u>			
2,						
3			<u> </u>			
4				Hydrophytic		
5				Vegetation		
		Total Cove	er	Present? Yes No		
Remarks: (If observed, list morphological adaptations b	elow).			1		
Sample area is dominated by USACE		tic vege	etation.			
	6.0.000					

SOIL

Sampling Point: Parcel 2 Wetland A

	cription: (Describe)	to the depth				or contim	n the absence of i	ndicators.)
Depth (inches)	Color (moist)	%	Color (moist)	x Feature %	s Type ¹	Loc ²	Texture	Remarks
0-7	10YR 2/1	2.3.5	- Linte to the design of the d		1.000		Fine Sand	
7-12	10 YR 4/4			_		1	Fine Sand	
						(
		<u> </u>						
					_			
				_				
¹ Type: C=C	oncentration, D=Depl	etion RM=R	educed Matrix, CS	=Covere	d or Coate	d Sand G	rains. ² l ocatio	on: PL=Pore Lining, M=Matrix.
	Indicators:							Problematic Hydric Soils ³ :
Histoso	I (A1)		Polyvalue Be	low Surfa	ce (S8) (L	RR S, T, L	J) 1 cm Muck	(A9) (LRR O)
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
	listic (A3)		Loamy Muck		and the second second	(0)		/ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)		the second se	Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	T 10	Depleted Mat		101			s Bright Loamy Soils (F20)
	Bodies (A6) (LRR P, ucky Mineral (A7) (LR		Redox Dark S	and a strate but the			(MLRA 1	t Material (TF2)
	resence (A8) (LRR U)		Redox Depre					ow Dark Surface (TF12) (LRR T, U)
	uck (A9) (LRR P, T)		Mari (F10) (L		-/			plain in Remarks)
	d Below Dark Surface	(A11)	Depleted Oct		(MLRA 1	51)		
and the second se	ark Surface (A12)		Iron-Mangan					s of hydrophytic vegetation and
and the second sec	rairie Redox (A16) (M	and the second s	Umbric Surfa			, U)		hydrology must be present,
	Mucky Mineral (S1) (L	RR O, S)	Delta Ochric			-		disturbed or problematic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ver Piedmont Flo					
	d Matrix (S6)						A 149A, 153C, 15	3D)
the second se	urface (S7) (LRR P, S,	T, U)			it and t			,
	Layer (if observed):							
Type:			-				Long to the second	
Depth (in	ches):						Hydric Soil Pre	sent? Yes No
Remarks:								
NRCS hydr	ic soil indicators obser	rved in soil pr	ofile within the sal	mple area	L.			