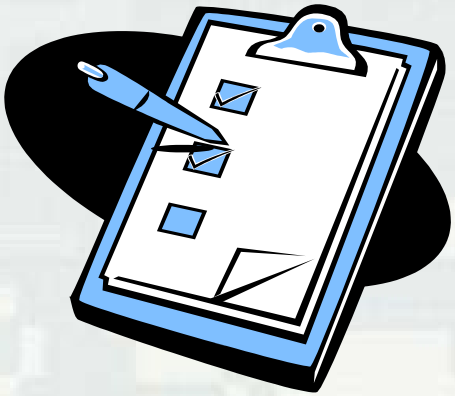
Avatar

Agenda

- What is Avatar
- Benefits/Uses
- Avatar
- What's next



Not to be confused with...

...the movie.

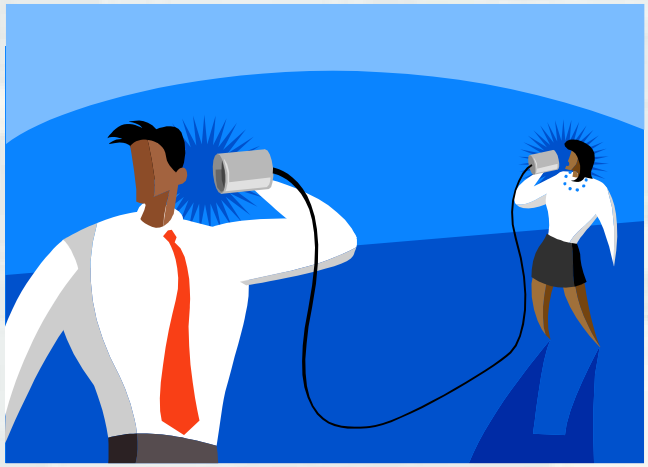
Avatar - Purpose

- Purpose – To provide a web-based interactive guide through the major Regulatory program areas in order to facilitate increased communication and provide a better understanding of regulatory processes.

- Avatar provides a guide through our 4 major program areas:
  - Jurisdictional Determinations
  - Permitting
  - Mitigation
  - Mitigation Banking

Avatar – Better Communication

- Between consultants and the Corps.
- Between consultants and their clients.



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US Army Corps of Engineers
Savannah District

BUILDING STRONG®





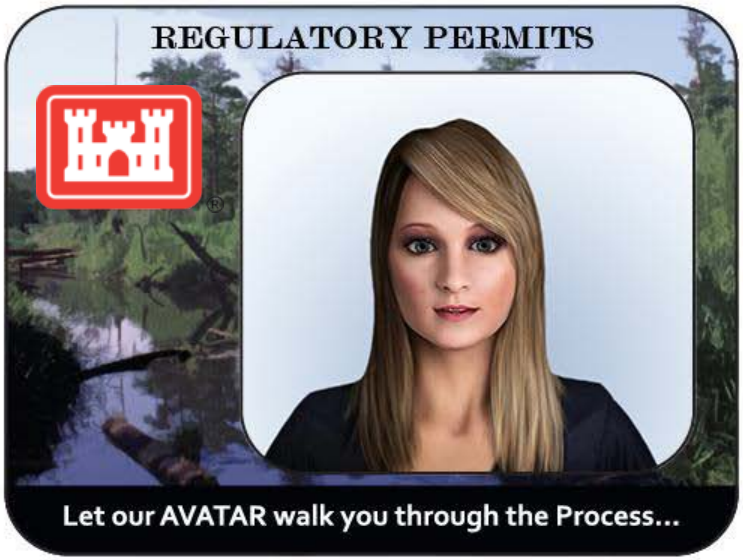
HOME
REGULATORY PROGRAM
JURISDICTIONAL DETERMINATION
PERMITTING
MITIGATION
DEVELOP COMMERCIAL
MITIGATION BANK
COMPLIANCE & ENFORCEMENT
POLICY & PROCEDURES
CONTACTS
INITIATIVES (WRDA 214)
CHECKLISTS & EXAMPLES
BLANK FORMS
FAQ
SITE INDEX
SAS HOMEPAGE

Phone Number
1-800-448-2402

E-mail Us

Welcome to the Savannah District's Regulatory Division

Avatar



AVATAR is a web-based interactive guide through the major Regulatory program areas in order to facilitate increased communication and provide a better understanding of regulatory processes.

Avatar provides a guide through our 4 major program areas:

- Jurisdictional Determinations
- Permitting
- Mitigation
- Develop Commercial Mitigation Bank

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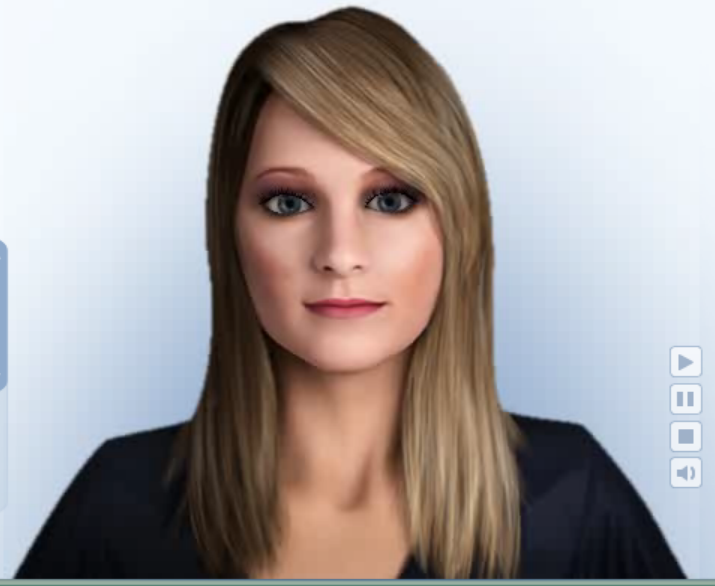
Savannah District



Hi and welcome to the US Army Corps of Engineers Savannah District Regulatory Training Module. If you are considering a project in or near a lake, river, stream, or wetland within the State of Georgia, you'll find that our website provides all the information and resources necessary to pursue a permit for your proposed project.

The following modules will help you apply for a Jurisdictional Determination and the appropriate permit. In addition, these modules will help you determine mitigation requirements. And finally, we will discuss the process for developing and operating a commercial mitigation bank.

You will find application forms, checklists, related links and other resources designed to make the process simpler.

And remember, you can always contact us directly by email or phone if you have any questions or need any additional information.

This module is a central source for information on the Savannah District's Regulatory Program

Jurisdictional Determination | Permitting | Mitigation | Develop Commercial Mitigation Bank

The JD process helps to identify wetlands and other waterbodies, such as lakes, rivers, and streams that are subject to US Army Corps of Engineer's jurisdiction. The JD is essential for planning purposes and determining if a permit is required for any work you may want to perform on a particular property. There are three types of JDs used by the Savannah District. They are Preliminary JDs, Expanded Preliminary JDs, and Approved JDs.

Learn More

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US Army Corps of Engineers
Savannah District

Turn Guide Off

Jurisdictional Determination | Permitting | Mitigation | Develop Commercial Mitigation Bank

Blank Forms | Checklists & Examples | Policy & Procedures | District Boundary Map | Glossary of Terms | Helpful Links | FAQs

Key steps in this process:

1. Ensure that the JD Request Form is filled out completely and accurately – be sure to sign it!
2. Delineations of waters, including wetlands, must follow all current guidance and be complete to be processed.
3. Provide all information up front so we may effectively and efficiently serve you.

Welcome to our overview on jurisdictional determinations, or "JDs" as they are commonly known. This module will discuss the different types of JDs and help assist you in applying for a determination.

AJD is the process of locating, identifying, and classifying waters of the United States.

Specifically, the JD process helps to identify wetlands and other waterbodies, such as lakes, rivers, and streams that are subject to US Army Corps of Engineer's jurisdiction. The JD is essential for planning purposes and determining if a permit is required for any work you may want to perform on a particular

Jurisdicational Determination

- Preliminary JD
- Expanded Preliminary JD
- Approved JD
- Non-Jurisdictional Waters and Uplands

Let us help you fill out a

Jurisdictional Determination Request Form

Done Local intranet 100%

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Jurisdictional Determination | Permitting | Mitigation | Develop Commercial Mitigation Bank

Blank Forms | Checklists & Examples | Policy & Procedures | District Boundary Map | Glossary of Terms | Helpful Links | FAQs

1. Remember to schedule a pre-application meeting for larger or complex projects.
2. Include a jurisdictional determination request; an application cannot be processed without it.
3. Provide a complete and accurate project description including proposed impacts to waters and wetlands with your permit application.
4. Don't forget to include your mitigation plan or a statement as to why mitigation should not be required.

Hello and welcome to an overview of the permitting process. In this section we will address the different types of permits issued by the US Army Corps of Engineers and how they are utilized.

The permitting process is a part of the U.S Army Corps of Engineers Regulatory Program's mission.

It's designed to protect the Nation's aquatic resources, for example waters, including wetlands, while allowing reasonable development through fair, flexible and balanced permit decisions in accordance with Federal laws and regulations.

Permitting

- General Permits
- Standard Permits
- Exemptions

Done
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Jurisdictional Determination | Permitting | **Mitigation** | Develop Commercial Mitigation Bank

Blank Forms | Checklists & Examples | Policy & Procedures | District Boundary Map | Glossary of Terms | Helpful Links | FAQs

Mitigation is a three step process, first avoid, then minimize and lastly provide compensatory mitigation for any functional loss of aquatic resources. 1

There are three types of compensatory mitigation; commercial mitigation banks, in-lieu fee and permittee-responsible mitigation. 2

STOP! Don't purchase credits until you have approval from USACE, and don't start work until you have a permit from USACE. 3

Mitigation Overview

This module will define and describe the different types of mitigation under the Clean Water Act. The objective of the Clean Water Act is, "to restore and maintain the chemical, physical, and biological integrity of the Nation's waters."

In an effort to reach this goal, the U.S Army Corps of Engineers is responsible for evaluating and issuing permits for certain activities regulated under Section 404 of the Clean Water Act.

Mitigation

- Bank Selection
- Mitigation Banking SOP and Worksheets
- Service Area Maps
- RIBITS
- In-Lieu Fee
- Permitee-Responsible
- Mitigation Rule

Done
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Blank Forms | Checklists & Examples | Policy & Procedures | District Boundary Map | Glossary of Terms | Helpful Links | FAQs

A commercial mitigation bank site in Georgia typically contains a minimum of 4,000 linear feet of stream and/or 100 acres of wetlands.

Remember to schedule a pre-application meeting.

The process starts with your submittal of a draft prospectus and ends with an approved, signed Banking Instrument.

In this module we will discuss developing a commercial mitigation bank. A mitigation bank is a site, or group of sites, where aquatic resources are restored, established, enhanced, and/or preserved for the purpose of providing compensatory mitigation for impacts authorized US Army Corps of Engineers permits. A mitigation bank is created to generate credits that can then be sold to applicants or permittees that have impacts associated with Corps permits. A credit is a unit of measure based on the amount and type of aquatic resource that is restored, established, enhanced, and/or preserved.

Mitigation banks are managed by private entities outside of the U.S Army Corps of Engineers and function

Develop Commercial Mitigation Bank

- Draft Guidelines to Establish & Operate Mitigation Banking in GA
- RIBITS
- Mitigation Banking Consistency Review Document
- Mitigation Rule

Done
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Key steps in this process:

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Jurisdicational Determination

- Preliminary JD
- Expanded Preliminary JD
- Approved JD
- Non-Jurisdictional Waters and Uplands

Let us help you fill out a

Jurisdictional Determination Request Form

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Jurisdictional Determination | Permitting | Mitigation | Develop Commercial Mitigation Bank

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Key steps in this process:

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2 Delineations of waters, including wetlands, must follow all current guidance and be complete to be processed.

3 Provide all information up front so we may effectively and efficiently serve you.

An Expanded Preliminary Jurisdictional Determination, also known as an EPJD, is the most common type of JD requested and is the fastest route to the permit process. It can be used to support General Permits, Letters of Permission and some Individual Permits. The EPJD is not final, appealable, or legally binding. Like the Preliminary JD, it can only be used to determine that waters, including wetlands, on a site "may be" jurisdictional waters of the United States.

When requesting an EPJD, wetland data forms, a GPS exhibit with the "GPS Data Sheet", or a formal survey signed by a registered surveyor are required.

Jurisdictional Determination

Preliminary JD

Expanded Preliminary JD

View & Print Checklists & Examples

View & Print Appendix D

Approved JD

Non-Jurisdictional Waters and Uplands

Let us help you fill out a

Jurisdictional Determination Request Form

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BLANK FORMS
FAQ
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SAS HOMEPAGE

Phone Number
1-800-448-2402

E-mail Us

For questions regarding this website, email: Regulatory POC

Regulatory Division

Checklist & Examples

Jurisdictional Determinations:

Preliminary JD Checklist
Preliminary JD Example

Expanded JD Checklist
Expanded JD Example

Approved JD Checklist
Approved JD Example
No Waters or Wetlands Example

General Permits:

NWP Checklist
NWP Example

RP Checklist (coming soon)
RP Example (coming soon)

Standard Permits:

LOP Checklist

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Looking Ahead

- Add videos to Avatar
- Fillable Forms
- E-Submittals *(Future)*
- Help us help you
  - POCs:

Sherelle Reinhardt:
912-652-5964
Sherelle.D.Reinhardt@usace.army.mil

-OR-

Forrest Vanderbilt:
912-652-5051
Forrest.B.Vanderbilt@usace.army.mil

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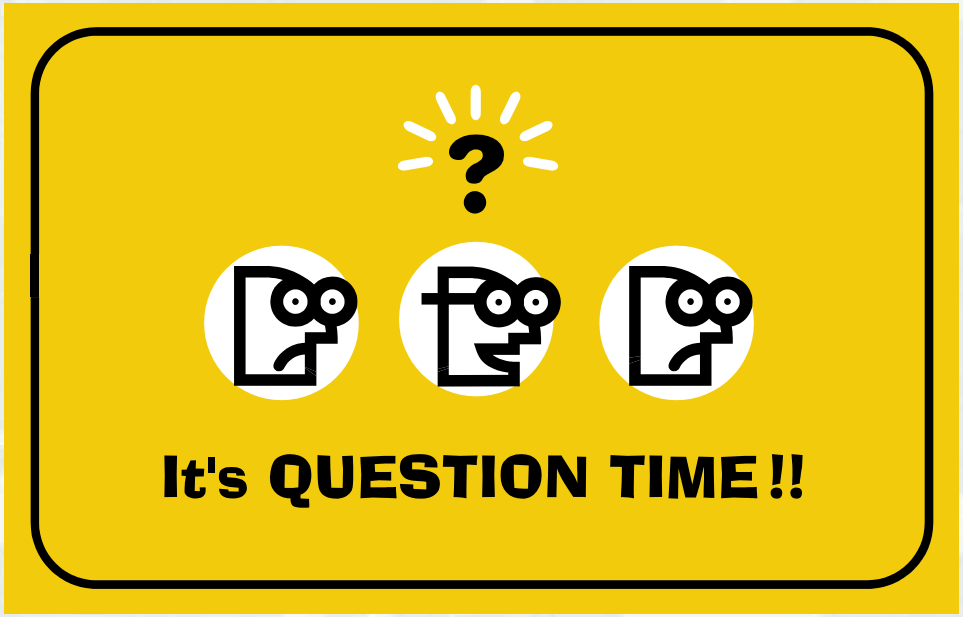

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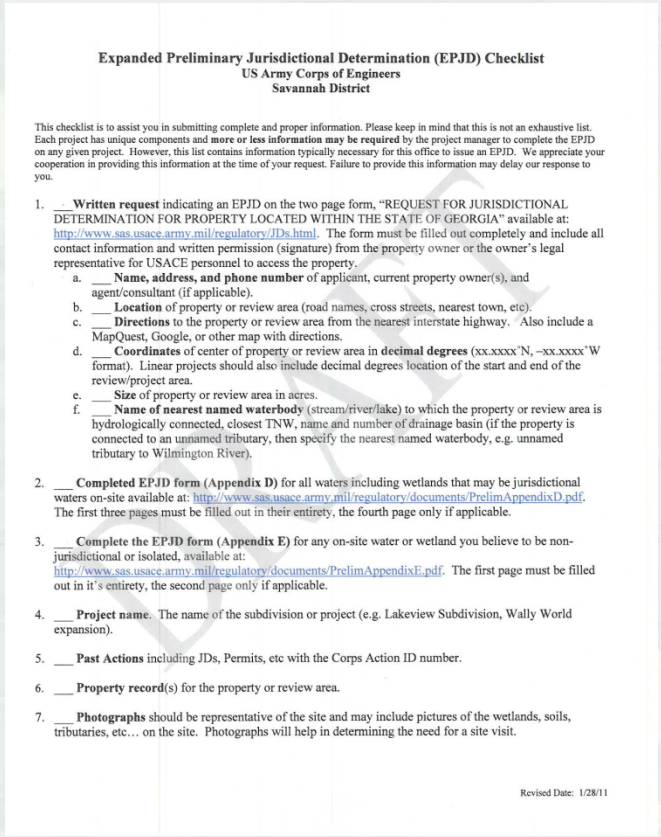
Expanded Preliminary JD Example



Expanded Preliminary Jurisdictional Determination (EPJD) Checklist
US Army Corps of Engineers
Savannah District

This checklist is to assist you in submitting complete and proper information. Please keep in mind that this is not an exhaustive list. Each project has unique components and **more or less information may be required** by the project manager to complete the EPJD on any given project. However, this list contains information typically necessary for this office to issue an EPJD. We appreciate your cooperation in providing this information at the time of your request. Failure to provide this information may delay our response to you.

1. ___**Written request** indicating an EPJD on the two page form, "REQUEST FOR JURISDICTIONAL DETERMINATION FOR PROPERTY LOCATED WITHIN THE STATE OF GEORGIA" available at: http://www.sas.usace.army.mil/regulatory/JDs.html. The form must be filled out completely and include all contact information and written permission (signature) from the property owner or the owner's legal representative for USACE personnel to access the property.
   a. ___**Name, address, and phone number** of applicant, current property owner(s), and agent/consultant (if applicable).
   b. ___**Location** of property or review area (road names, cross streets, nearest town, etc).
   c. ___**Directions** to the property or review area from the nearest interstate highway. Also include a MapQuest, Google, or other map with directions.
   d. ___**Coordinates** of center of property or review area in **decimal degrees** (xx.xxxx°N, –xx.xxxx°W format). Linear projects should also include decimal degrees location of the start and end of the review/project area.
   e. ___**Size** of property or review area in acres.
   f. ___**Name of nearest named waterbody** (stream/river/lake) to which the property or review area is hydrologically connected, closest TNW, name and number of drainage basin (if the property is connected to an unnamed tributary, then specify the nearest named waterbody, e.g. unnamed tributary to Wilmington River).

2. ___**Completed EPJD form (Appendix D)** for all waters including wetlands that may be jurisdictional waters on-site available at: http://www.sas.usace.army.mil/regulatory/documents/PrelimAppendixD.pdf. The first three pages must be filled out in their entirety, the fourth page only if applicable.

3. ___**Complete the EPJD form (Appendix E)** for any on-site water or wetland you believe to be non-jurisdictional or isolated, available at: http://www.sas.usace.army.mil/regulatory/documents/PrelimAppendixE.pdf. The first page must be filled out in it's entirety, the second page only if applicable.

4. ___**Project name**. The name of the subdivision or project (e.g. Lakeview Subdivision, Wally World expansion).

5. ___**Past Actions** including JDs, Permits, etc with the Corps Action ID number.

6. ___**Property record**(s) for the property or review area.

7. ___**Photographs** should be representative of the site and may include pictures of the wetlands, soils, tributaries, etc… on the site. Photographs will help in determining the need for a site visit.

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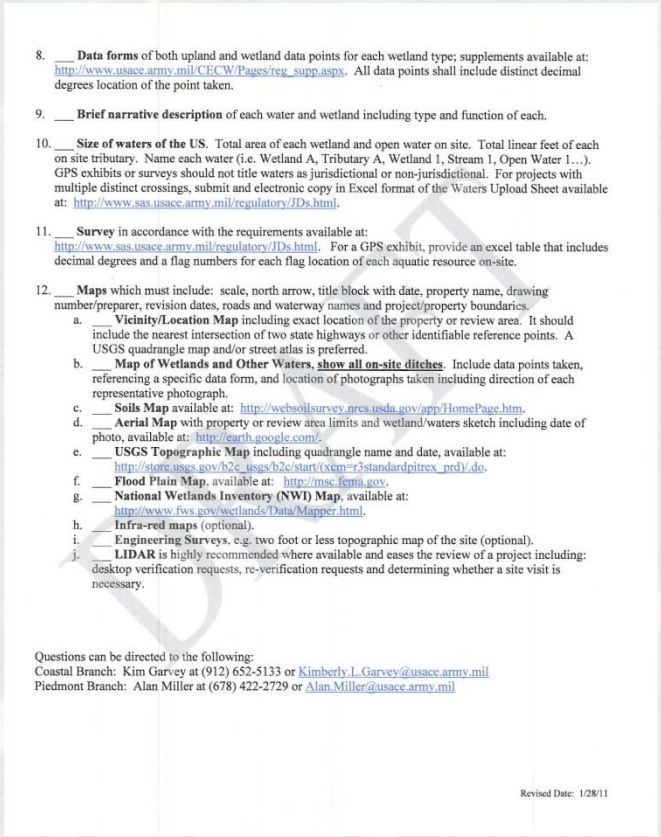

8. ___**Data forms** of both upland and wetland data points for each wetland type; supplements available at: http://www.usace.army.mil/CECW/Pages/reg_supp.aspx. All data points shall include distinct decimal degrees location of the point taken.

9. ___**Brief narrative description** of each water and wetland including type and function of each.

10. ___**Size of waters of the US**. Total area of each wetland and open water on site. Total linear feet of each on site tributary. Name each water (i.e. Wetland A, Tributary A, Wetland 1, Stream 1, Open Water 1…). GPS exhibits or surveys should not title waters as jurisdictional or non-jurisdictional. For projects with multiple distinct crossings, submit and electronic copy in Excel format of the Waters Upload Sheet available at: http://www.sas.usace.army.mil/regulatory/JDs.html.

11. ___**Survey** in accordance with the requirements available at: http://www.sas.usace.army.mil/regulatory/JDs.html. For a GPS exhibit, provide an excel table that includes decimal degrees and a flag numbers for each flag location of each aquatic resource on-site.

12. ___**Maps** which must include: scale, north arrow, title block with date, property name, drawing number/preparer, revision dates, roads and waterway names and project/property boundaries.
    a. ___**Vicinity/Location Map** including exact location of the property or review area. It should include the nearest intersection of two state highways or other identifiable reference points. A USGS quadrangle map and/or street atlas is preferred.
    b. ___**Map of Wetlands and Other Waters, show all on-site ditches**. Include data points taken, referencing a specific data form, and location of photographs taken including direction of each representative photograph.
    c. ___**Soils Map** available at: http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm.
    d. ___**Aerial Map** with property or review area limits and wetland/waters sketch including date of photo, available at: http://earth.google.com/.
    e. ___**USGS Topographic Map** including quadrangle name and date, available at: http://store.usgs.gov/b2c_usgs/b2c/start/(xcm=r3standardpitrex_prd)/.do.
    f. ___**Flood Plain Map**, available at: http://msc.fema.gov.
    g. ___**National Wetlands Inventory (NWI) Map**, available at: http://www.fws.gov/wetlands/Data/Mapper.html.
    h. ___**Infra-red maps** (optional).
    i. ___**Engineering Surveys**, e.g. two foot or less topographic map of the site (optional).
    j. ___**LIDAR** is highly recommended where available and eases the review of a project including: desktop verification requests, re-verification requests and determining whether a site visit is necessary.

Questions can be directed to the following:
Coastal Branch: Kim Garvey at (912) 652-5133 or Kimberly.L.Garvey@usace.army.mil
Piedmont Branch: Alan Miller at (678) 422-2729 or Alan.Miller@usace.army.mil

Revised Date: 1/28/11

EPJD Checklist

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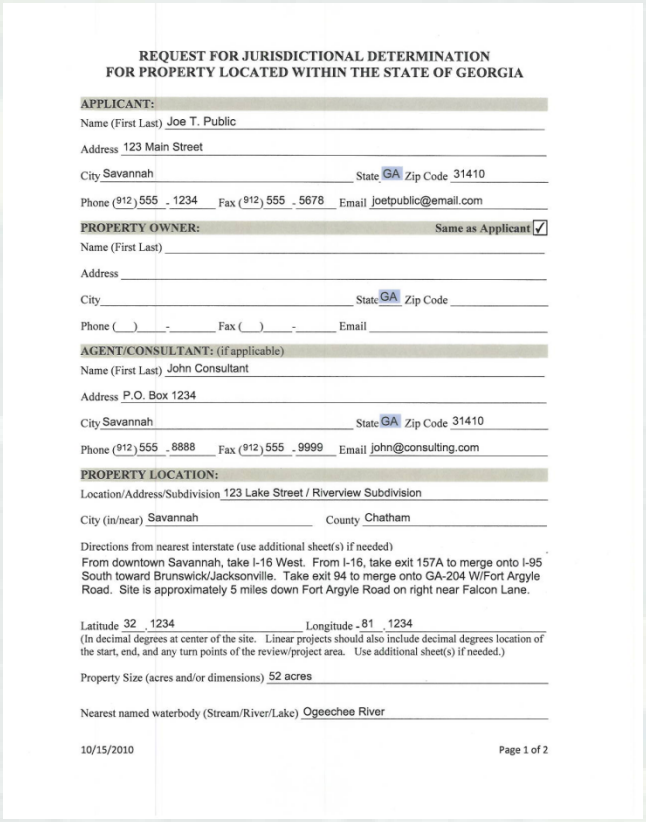
Expanded Preliminary JD Example



REQUEST FOR JURISDICTIONAL DETERMINATION
FOR PROPERTY LOCATED WITHIN THE STATE OF GEORGIA

APPLICANT:
Name (First Last) Joe T. Public
Address 123 Main Street
City Savannah State GA Zip Code 31410
Phone (912) 555 - 1234 Fax (912) 555 - 5678 Email joetpublic@email.com

PROPERTY OWNER: Same as Applicant ☑
Name (First Last)
Address
City State GA Zip Code
Phone (___) - Fax (___) - Email

AGENT/CONSULTANT: (if applicable)
Name (First Last) John Consultant
Address P.O. Box 1234
City Savannah State GA Zip Code 31410
Phone (912) 555 - 8888 Fax (912) 555 - 9999 Email john@consulting.com

PROPERTY LOCATION:
Location/Address/Subdivision 123 Lake Street / Riverview Subdivision
City (in/near) Savannah County Chatham

Directions from nearest interstate (use additional sheet(s) if needed)
From downtown Savannah, take I-16 West. From I-16, take exit 157A to merge onto I-95 South toward Brunswick/Jacksonville. Take exit 94 to merge onto GA-204 W/Fort Argyle Road. Site is approximately 5 miles down Fort Argyle Road on right near Falcon Lane.

Latitude 32 . 1234 Longitude -81 . 1234
(In decimal degrees at center of the site. Linear projects should also include decimal degrees location of the start, end, and any turn points of the review/project area. Use additional sheet(s) if needed.)

Property Size (acres and/or dimensions) 52 acres

Nearest named waterbody (Stream/River/Lake) Ogeechee River

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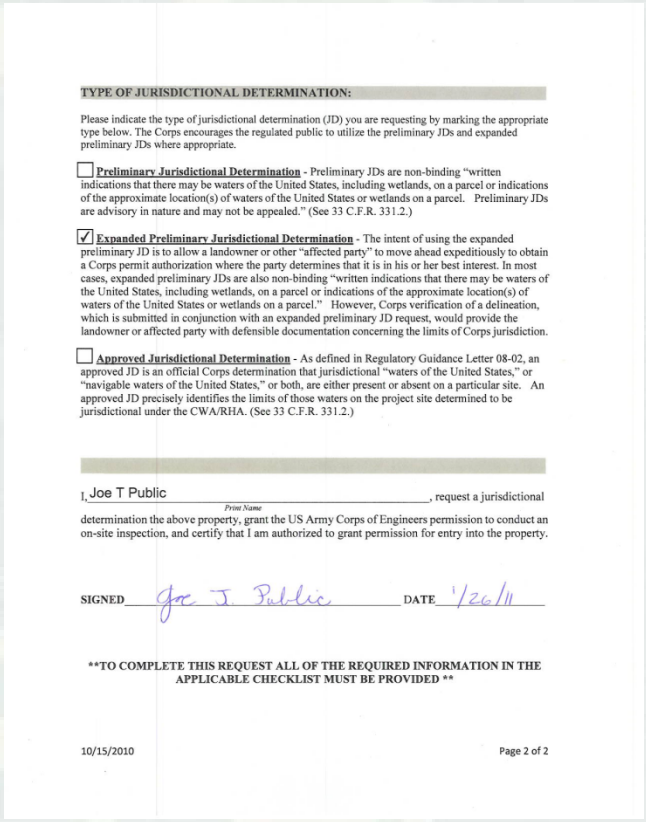

TYPE OF JURISDICTIONAL DETERMINATION:

Please indicate the type of jurisdictional determination (JD) you are requesting by marking the appropriate type below. The Corps encourages the regulated public to utilize the preliminary JDs and expanded preliminary JDs where appropriate.

☐ **Preliminary Jurisdictional Determination** - Preliminary JDs are non-binding "written indications that there may be waters of the United States, including wetlands, on a parcel or indications of the approximate location(s) of waters of the United States or wetlands on a parcel. Preliminary JDs are advisory in nature and may not be appealed." (See 33 C.F.R. 331.2.)

☑ **Expanded Preliminary Jurisdictional Determination** - The intent of using the expanded preliminary JD is to allow a landowner or other "affected party" to move ahead expeditiously to obtain a Corps permit authorization where the party determines that it is in his or her best interest. In most cases, expanded preliminary JDs are also non-binding "written indications that there may be waters of the United States, including wetlands, on a parcel or indications of the approximate location(s) of waters of the United States or wetlands on a parcel." However, Corps verification of a delineation, which is submitted in conjunction with an expanded preliminary JD request, would provide the landowner or affected party with defensible documentation concerning the limits of Corps jurisdiction.

☐ **Approved Jurisdictional Determination** - As defined in Regulatory Guidance Letter 08-02, an approved JD is an official Corps determination that jurisdictional "waters of the United States," or "navigable waters of the United States," or both, are either present or absent on a particular site. An approved JD precisely identifies the limits of those waters on the project site determined to be jurisdictional under the CWA/RHA. (See 33 C.F.R. 331.2.)

I, Joe T Public (Print Name), request a jurisdictional determination the above property, grant the US Army Corps of Engineers permission to conduct an on-site inspection, and certify that I am authorized to grant permission for entry into the property.

SIGNED Joe T. Public DATE 1/26/11

****TO COMPLETE THIS REQUEST ALL OF THE REQUIRED INFORMATION IN THE APPLICABLE CHECKLIST MUST BE PROVIDED ****

10/15/2010 Page 2 of 2

JD Request Form

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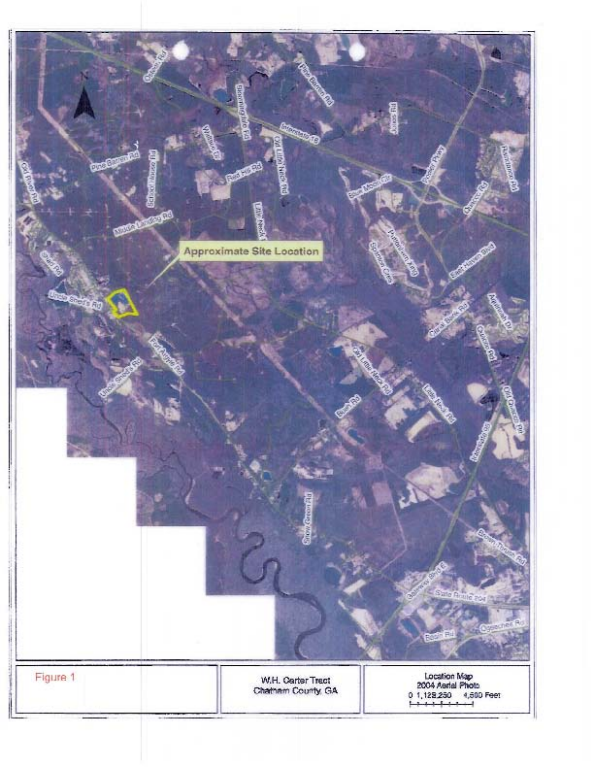
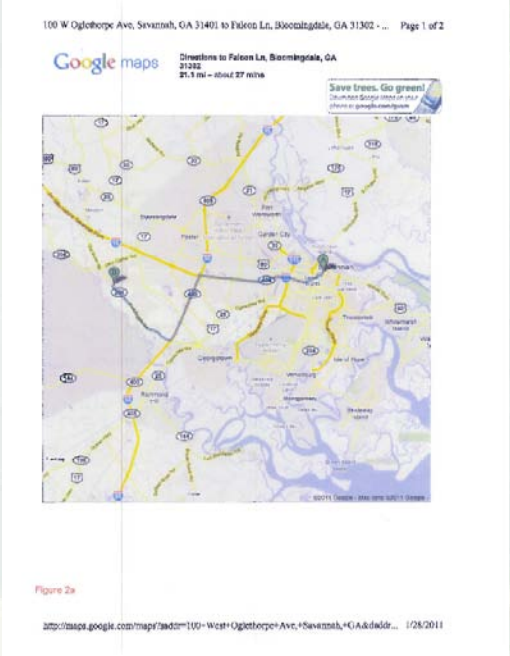
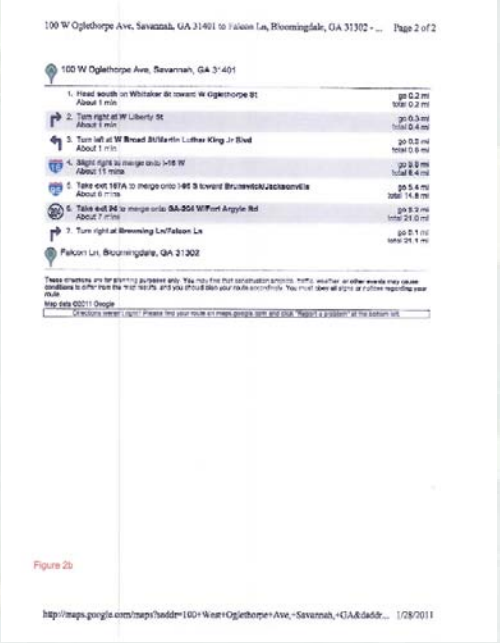
Expanded Preliminary JD Example



Location Map





Driving directions to site

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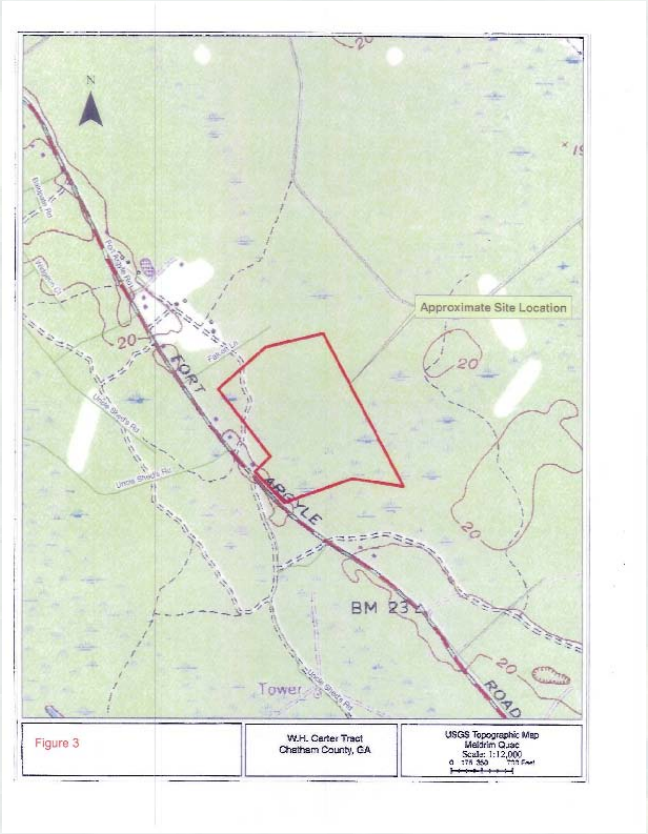
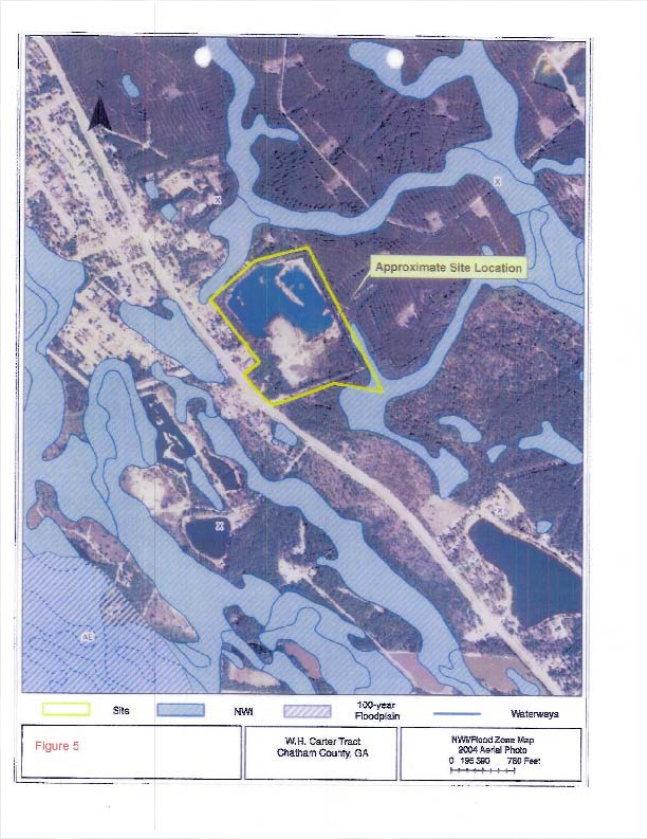
Expanded Preliminary JD Example

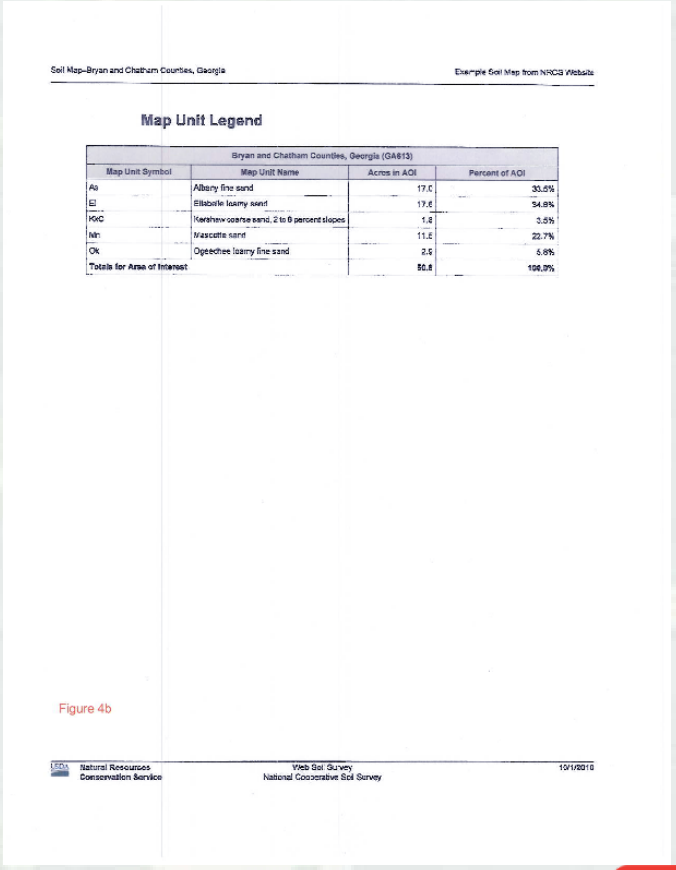


USGS Topographic Map



NWI/Flood Zone Map

Avatar
Expanded Preliminary JD Example



Soil Map–Bryan and Chatham Counties, Georgia — Example Soil Map from NRCS Website

Map Unit Legend

Bryan and Chatham Counties, Georgia (GA613)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ab	Albany fine sand	17.0	33.5%
El	Ellabelle loamy sand	17.6	34.8%
KnC	Kershaw coarse sand, 2 to 6 percent slopes	1.8	3.5%
Mn	Mascotte sand	11.6	22.7%
Ok	Ogeechee loamy fine sand	2.9	5.8%
Totals for Area of Interest		50.8	100.0%

Figure 4b

Natural Resources Conservation Service — Web Soil Survey, National Cooperative Soil Survey — 10/1/2010

Soils Map

Avatar
Expanded Preliminary JD Example

Wetland Data Point Map

Avatar
Expanded Preliminary JD Example

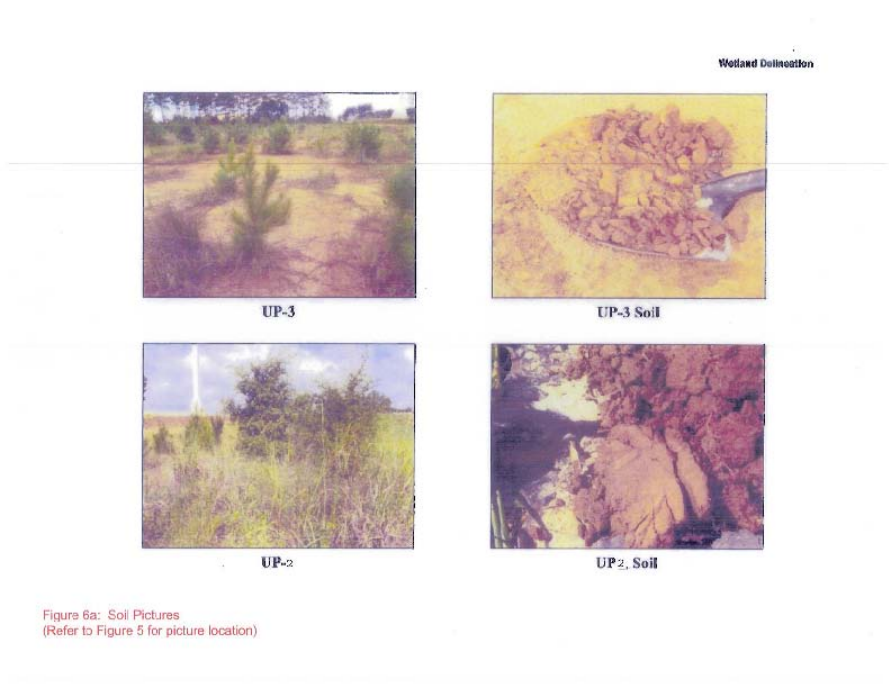


Figure 6a: Soil Pictures
(Refer to Figure 5 for picture location)

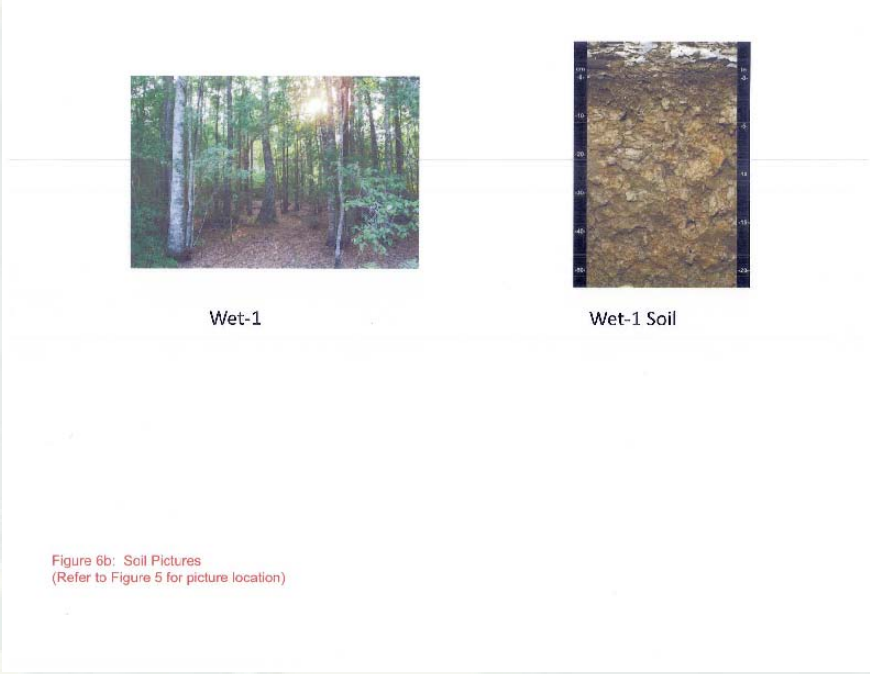
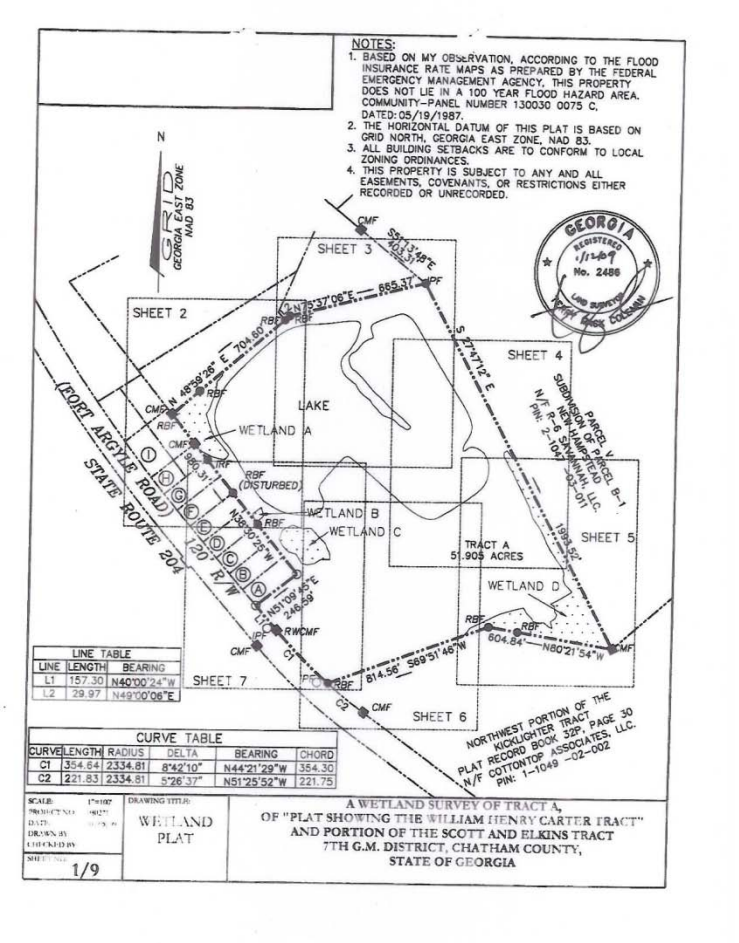


Figure 6b: Soil Pictures
(Refer to Figure 5 for picture location)

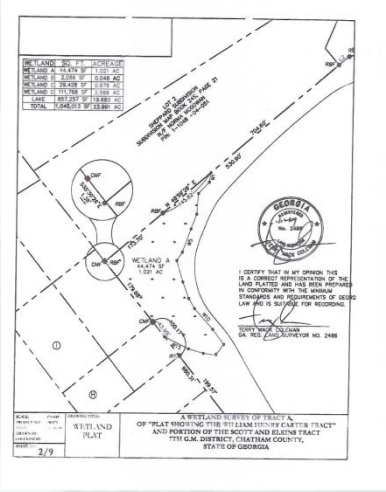
Supplemental Pictures

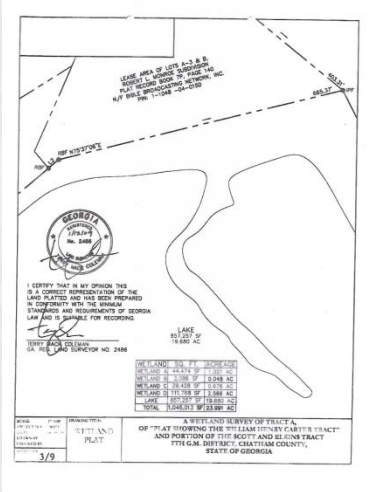
Avatar
Expanded Preliminary JD Example

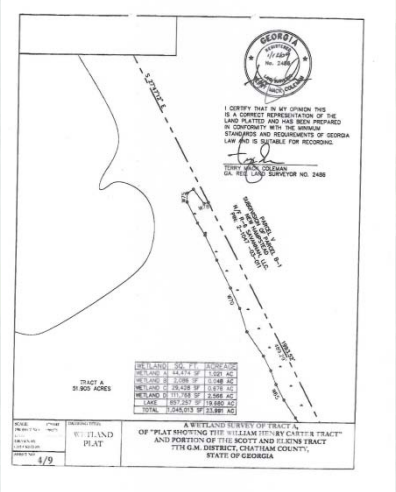


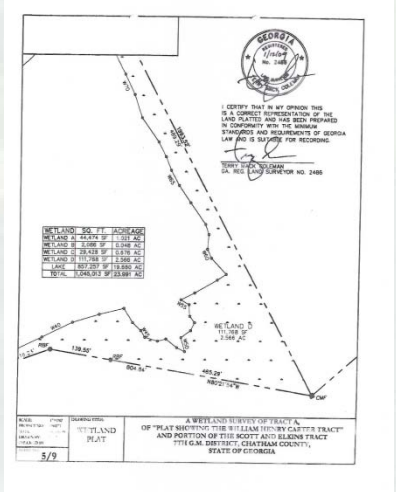
Formal survey by registered surveyor

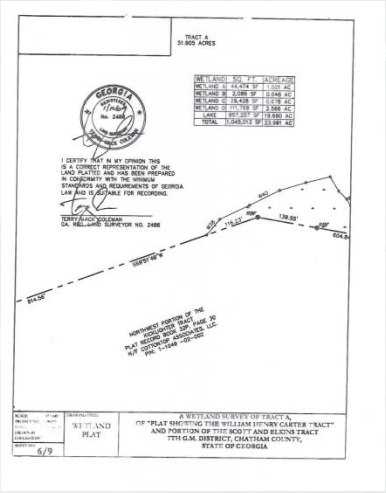
Avatar
Expanded Preliminary JD Example

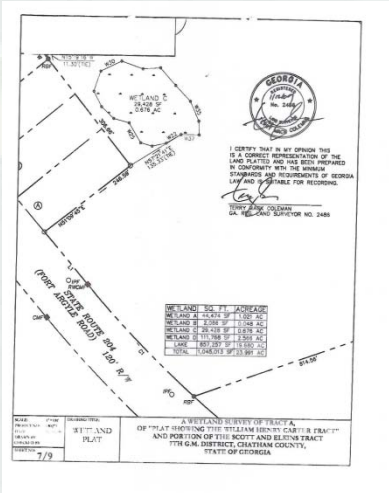


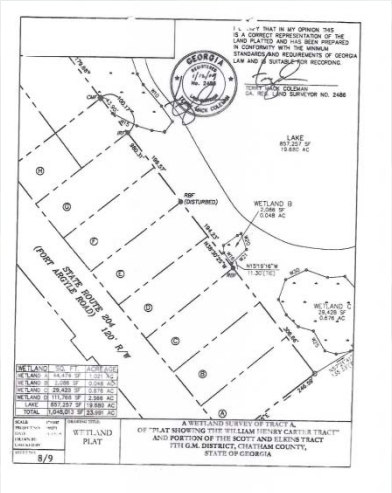


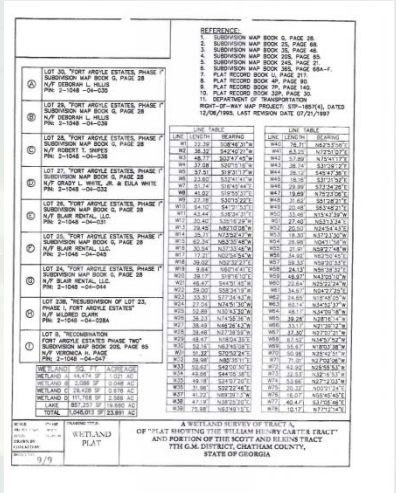












Formal survey by registered surveyor

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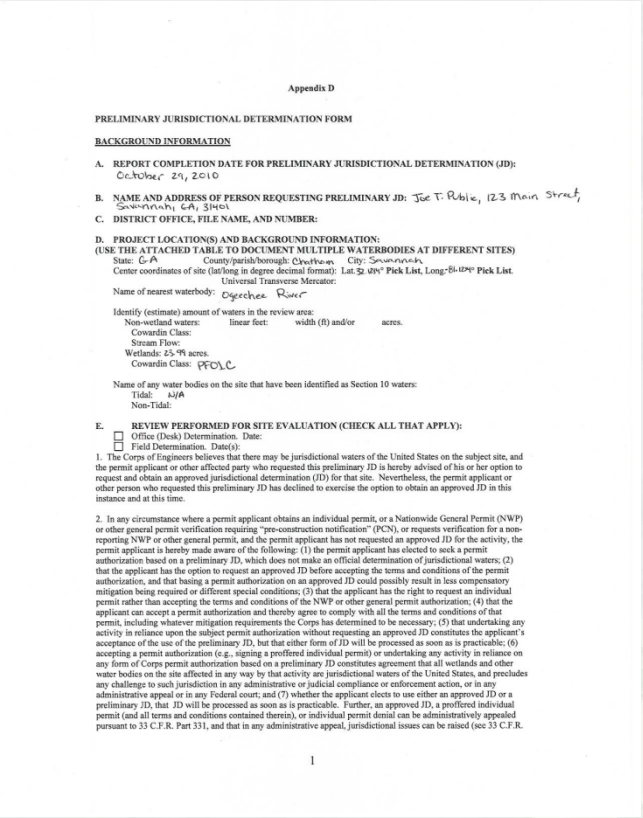


Appendix D

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): October 29, 2010

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD: Joe T. Public, 123 Main Street, Savannah, GA, 31401

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:
(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)
State: GA County/parish/borough: Chatham City: Savannah
Center coordinates of site (lat/long in degree decimal format): Lat. 32.xxx° Pick List, Long -81.xxx° Pick List.
Universal Transverse Mercator:
Name of nearest waterbody: Ogeechee River

Identify (estimate) amount of waters in the review area:
Non-wetland waters: linear feet: width (ft) and/or acres.
Cowardin Class:
Stream Flow:
Wetlands: 25.9 acres.
Cowardin Class: PFO1C

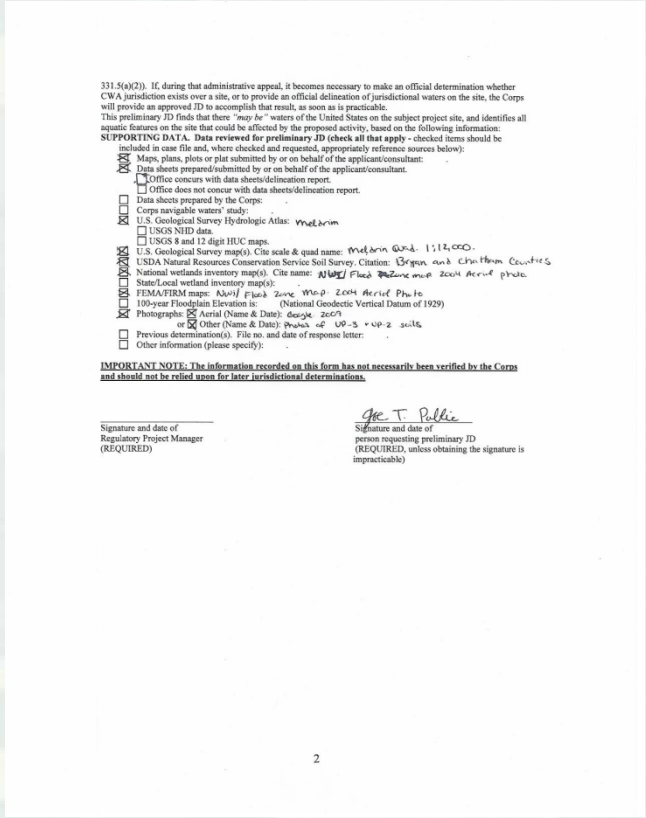
Name of any water bodies on the site that have been identified as Section 10 waters:
Tidal: N/A
Non-Tidal:

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):
☐ Office (Desk) Determination. Date:
☐ Field Determination. Date(s):

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R.

1



331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.
This preliminary JD finds that there *"may be"* waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:
SUPPORTING DATA. **Data reviewed for preliminary JD (check all that apply** - checked items should 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:
☒ 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:
☒ U.S. Geological Survey Hydrologic Atlas: Meldrim
☐ USGS NHD data.
☐ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: Meldrim Quad. 1:12,000.
☒ USDA Natural Resources Conservation Service Soil Survey. Citation: Bryan and Chatham Counties
☒ National wetlands inventory map(s). Cite name: NWI/ Flood Zone map 2004 Aerial photo
☐ State/Local wetland inventory map(s):
☒ FEMA/FIRM maps: NWI/ Flood Zone Map 2004 Aerial Photo
☒ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date): Google 2009
or ☒ Other (Name & Date): Photos of UP-3 + UP-2 soils
☐ Previous determination(s). File no. and date of response letter:
☐ Other information (please specify):

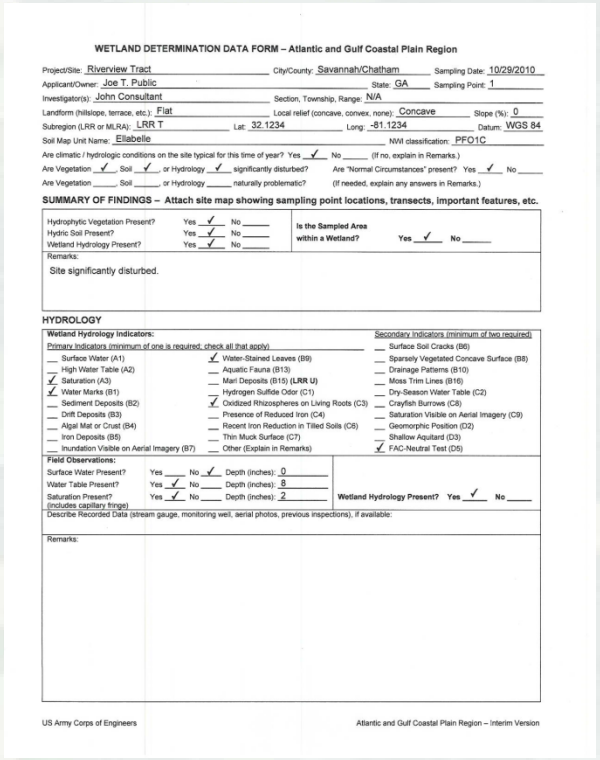
IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and date of
Regulatory Project Manager
(REQUIRED)

Joe T. Public
Signature and date of
person requesting preliminary JD
(REQUIRED, unless obtaining the signature is impracticable)

2

Avatar
Expanded Preliminary JD Example



WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Riverview Tract City/County: Savannah/Chatham Sampling Date: 10/29/2010
Applicant/Owner: Joe T. Public State: GA Sampling Point: 1
Investigator(s): John Consultant Section, Township, Range: N/A
Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Concave Slope (%): 0
Subregion (LRR or MLRA): LRR T Lat: 32.1234 Long: -81.1234 Datum: WGS 84
Soil Map Unit Name: Ellebelle NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ✓, Soil ____, or Hydrology ✓ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally 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? Yes ✓ No ____
Hydric Soil Present? Yes ✓ No ____
Wetland Hydrology Present? Yes ✓ No ____
Is the Sampled Area within a Wetland? Yes ✓ No ____
Remarks: Site significantly disturbed.

HYDROLOGY

Wetland Hydrology Indicators:
Primary Indicators (minimum of one is required; check all that apply)
___ Surface Water (A1)
___ High Water Table (A2)
✓ Saturation (A3)
✓ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
✓ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15) (LRR U)
___ Hydrogen Sulfide Odor (C1)
✓ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)
Secondary Indicators (minimum of two required)
___ Surface Soil Cracks (B6)
___ Sparsely Vegetated Concave Surface (B8)
___ Drainage Patterns (B10)
___ Moss Trim Lines (B16)
___ Dry-Season Water Table (C2)
___ Crayfish Burrows (C8)
___ Saturation Visible on Aerial Imagery (C9)
___ Geomorphic Position (D2)
___ Shallow Aquitard (D3)
✓ FAC-Neutral Test (D5)

Field Observations:
Surface Water Present? Yes ____ No ✓ Depth (inches): 0
Water Table Present? Yes ✓ No ____ Depth (inches): 8
Saturation Present? (includes capillary fringe) Yes ✓ No ____ Depth (inches): 2
Wetland Hydrology Present? Yes ✓ No ____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

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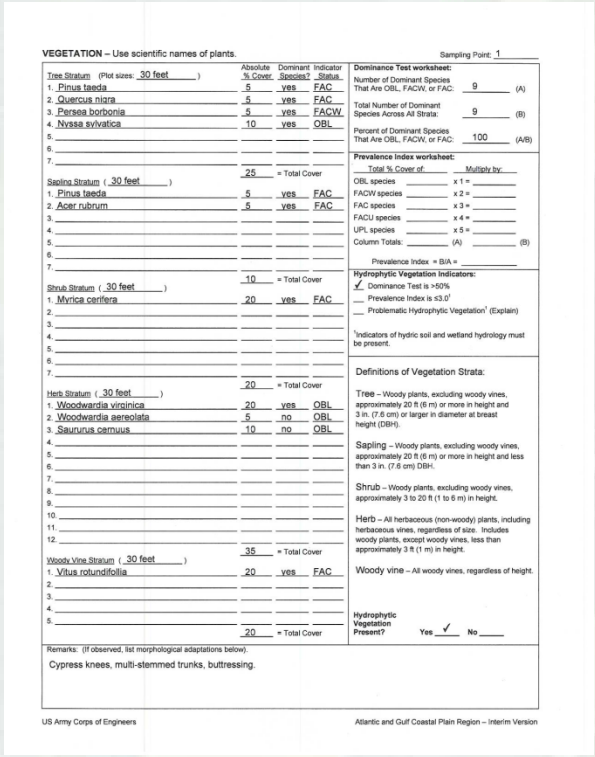

VEGETATION – Use scientific names of plants. Sampling Point: 1

Tree Stratum (Plot sizes: 30 feet)	Absolute % Cover	Dominant Species?	Indicator Status
1. Pinus taeda	5	yes	FAC
2. Quercus nigra	5	yes	FAC
3. Persea borbonia	5	yes	FACW
4. Nyssa sylvatica	10	yes	OBL
5.			
6.			
7.			
	25	= Total Cover	
Sapling Stratum (30 feet)			
1. Pinus taeda	5	yes	FAC
2. Acer rubrum	5	yes	FAC
3.			
4.			
5.			
6.			
7.			
	10	= Total Cover	
Shrub Stratum (30 feet)			
1. Myrica cerifera	20	yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	20	= Total Cover	
Herb Stratum (30 feet)			
1. Woodwardia virginica	20	yes	OBL
2. Woodwardia areolata	5	no	OBL
3. Saururus cernuus	10	no	OBL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	35	= Total Cover	
Woody Vine Stratum (30 feet)			
1. Vitus rotundifolia	20	yes	FAC
2.			
3.			
4.			
5.			
	20	= Total Cover	

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 9 (A)
Total Number of Dominant Species Across All Strata: 9 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL species ____ x 1 = ____
FACW species ____ x 2 = ____
FAC species ____ x 3 = ____
FACU species ____ x 4 = ____
UPL species ____ x 5 = ____
Column Totals: ____ (A) ____ (B)
Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:
✓ Dominance Test is >50%
___ Prevalence Index is ≤3.0[1]
___ Problematic Hydrophytic Vegetation[1] (Explain)
[1]Indicators of hydric soil and wetland hydrology must be present.

Definitions of Vegetation Strata:
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).
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.
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.

Hydrophytic Vegetation Present? Yes ✓ No ____

Remarks: (If observed, list morphological adaptations below.)
Cypress knees, multi-stemmed trunks, buttressing.

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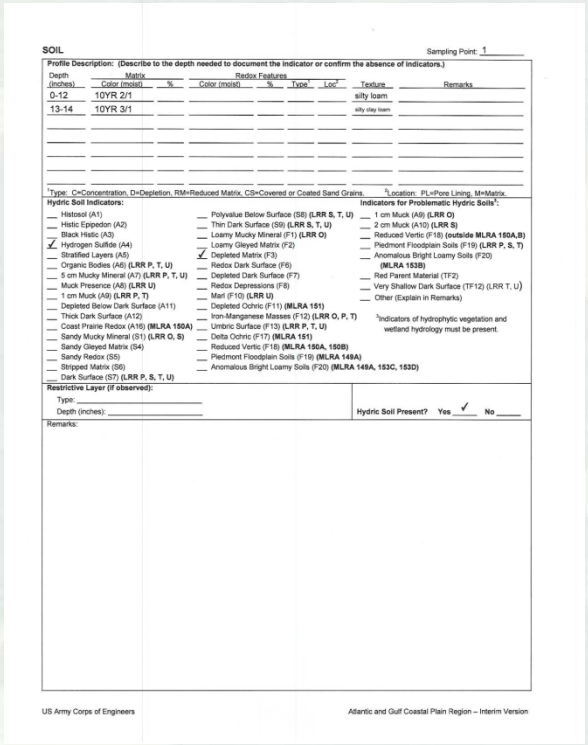

SOIL Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 2/1						silty loam	
13-14	10YR 3/1						silty clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:
___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
✓ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Organic Bodies (A6) (LRR P, T, U)
___ 5 cm Mucky Mineral (A7) (LRR P, T, U)
___ Muck Presence (A8) (LRR U)
___ 1 cm Muck (A9) (LRR P, T)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Coast Prairie Redox (A16) (MLRA 150A)
___ Sandy Mucky Mineral (S1) (LRR O, S)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
___ Dark Surface (S7) (LRR P, S, T, U)
___ Polyvalue Below Surface (S8) (LRR S, T, U)
___ Thin Dark Surface (S9) (LRR S, T, U)
___ Loamy Mucky Mineral (F1) (LRR O)
___ Loamy Gleyed Matrix (F2)
✓ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Mari (F10) (LRR U)
___ Depleted Ochric (F11) (MLRA 151)
___ Iron-Manganese Masses (F12) (LRR O, P, T)
___ Umbric Surface (F13) (LRR P, T, U)
___ Delta Ochric (F17) (MLRA 151)
___ Reduced Vertic (F18) (MLRA 150A, 150B)
___ Piedmont Floodplain Soils (F19) (MLRA 149A)
___ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils[3]:
___ 1 cm Muck (A9) (LRR O)
___ 2 cm Muck (A10) (LRR S)
___ Reduced Vertic (F18) (outside MLRA 150A,B)
___ Piedmont Floodplain Soils (F19) (LRR P, S, T)
___ Anomalous Bright Loamy Soils (F20) (MLRA 153B)
___ Red Parent Material (TF2)
___ Very Shallow Dark Surface (TF12) (LRR T, U)
___ Other (Explain in Remarks)
[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type: ____
Depth (inches): ____
Hydric Soil Present? Yes ✓ No ____
Remarks:

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Data Forms: Data Point 1 (Wetland)

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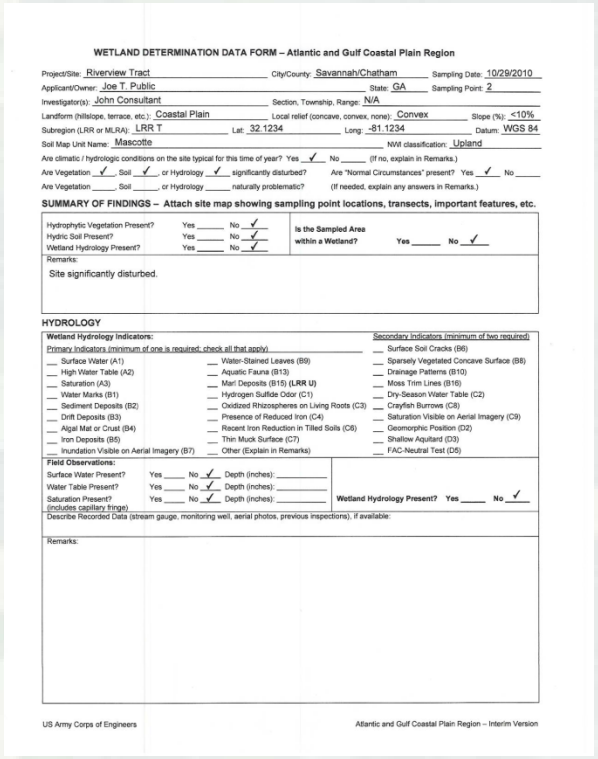

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Riverview Tract — City/County: Savannah/Chatham — Sampling Date: 10/29/2010
Applicant/Owner: Joe T. Public — State: GA — Sampling Point: 2
Investigator(s): John Consultant — Section, Township, Range: N/A
Landform (hillslope, terrace, etc.): Coastal Plain — Local relief (concave, convex, none): Convex — Slope (%): <10%
Subregion (LRR or MLRA): LRR T — Lat: 32.1234 — Long: -81.1234 — Datum: WGS 84
Soil Map Unit Name: Mascotte — NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ✓, Soil ____, or Hydrology ✓ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally 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? Yes ____ No ✓
Hydric Soil Present? Yes ____ No ✓
Wetland Hydrology Present? Yes ____ No ✓
Is the Sampled Area within a Wetland? Yes ____ No ✓
Remarks: Site significantly disturbed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)
- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)
- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:
Surface Water Present? Yes ____ No ✓ Depth (inches): ____
Water Table Present? Yes ____ No ✓ Depth (inches): ____
Saturation Present? (includes capillary fringe) Yes ____ No ✓ Depth (inches): ____
Wetland Hydrology Present? Yes ____ No ✓
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

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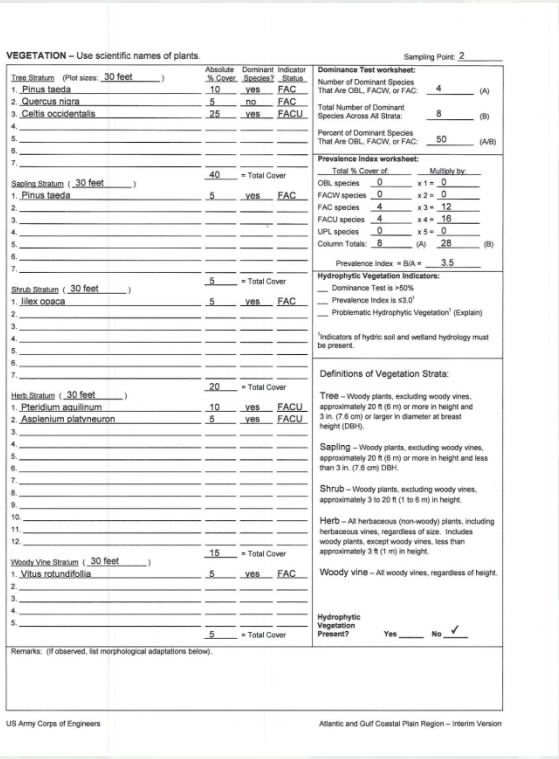

VEGETATION – Use scientific names of plants. Sampling Point: 2

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot sizes: 30 feet)			
1. Pinus taeda	10	yes	FAC
2. Quercus nigra	5	no	FAC
3. Celtis occidentalis	25	yes	FACU
4.			
5.			
6.			
7.			
	40 = Total Cover		
Sapling Stratum (30 feet)			
1. Pinus taeda	5	yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	5 = Total Cover		
Shrub Stratum (30 feet)			
1. Ilex opaca	5	yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	20 = Total Cover		
Herb Stratum (30 feet)			
1. Pteridium aquilinum	10	yes	FACU
2. Asplenium platyneuron	5	yes	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	15 = Total Cover		
Woody Vine Stratum (30 feet)			
1. Vitus rotundifolia	5	yes	FAC
2.			
3.			
4.			
5.			
	5 = Total Cover		

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
Total Number of Dominant Species Across All Strata: 8 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 4	x 3 = 12
FACU species 4	x 4 = 16
UPL species 0	x 5 = 0
Column Totals: 8 (A)	28 (B)

Prevalence Index = B/A = 3.5

Hydrophytic Vegetation Indicators:
- ___ Dominance Test is >50%
- ___ Prevalence Index is ≤3.0[1]
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Definitions of Vegetation Strata:

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).

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.

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.

Hydrophytic Vegetation Present? Yes ____ No ✓

Remarks: (If observed, list morphological adaptations below).

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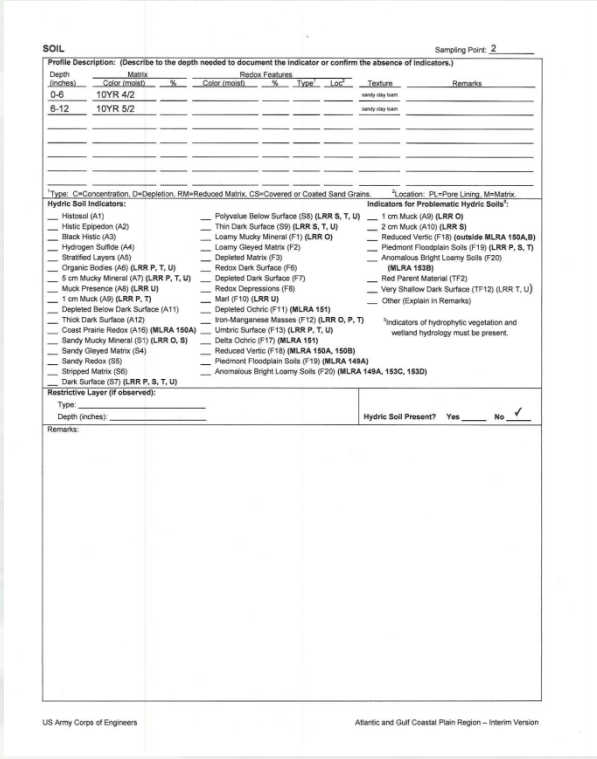

SOIL Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 4/2						sandy clay loam	
6-12	10YR 5/2						sandy clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:
- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils[3]:
- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A,B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
- ___ Anomalous Bright Loamy Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12) (LRR T, U)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type: ____
Depth (inches): ____
Hydric Soil Present? Yes ____ No ✓
Remarks:

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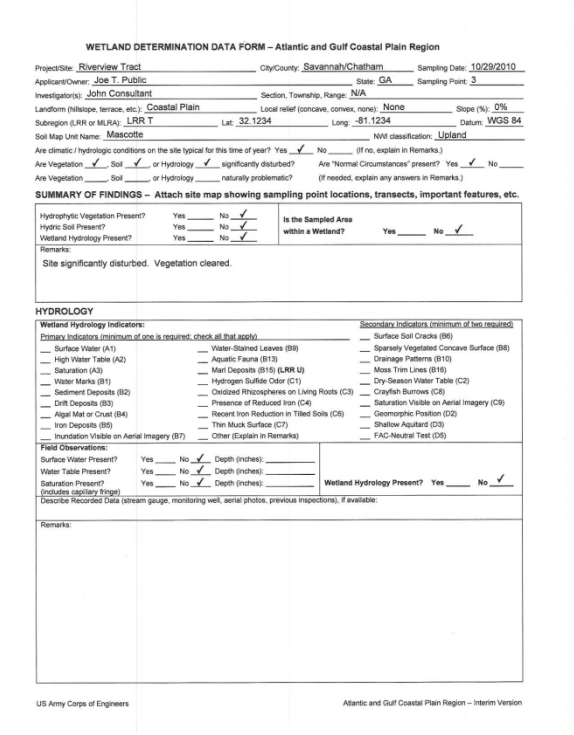
Data Forms: Data Point 2 (Cleared Upland)

BUILDING STRONG®

Avatar
Expanded Preliminary JD Example



WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Riverview Tract City/County: Savannah/Chatham Sampling Date: 10/29/2010
Applicant/Owner: Joe T. Public State: GA Sampling Point: 3
Investigator(s): John Consultant Section, Township, Range: N/A
Landform (hillslope, terrace, etc.): Coastal Plain Local relief (concave, convex, none): None Slope (%): 0%
Subregion (LRR or MLRA): LRR T Lat: 32.1234 Long: -81.1234 Datum: WGS 84
Soil Map Unit Name: Mascotte NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ✓, Soil ✓, or Hydrology ✓ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally 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? Yes ____ No ✓
Hydric Soil Present? Yes ____ No ✓
Wetland Hydrology Present? Yes ____ No ✓
Is the Sampled Area within a Wetland? Yes ____ No ✓
Remarks: Site significantly disturbed. Vegetation cleared.

HYDROLOGY

Wetland Hydrology Indicators:
Primary Indicators (minimum of one is required; check all that apply) / Secondary Indicators (minimum of two required)
__ Surface Water (A1) __ Water-Stained Leaves (B9) __ Surface Soil Cracks (B6)
__ High Water Table (A2) __ Aquatic Fauna (B13) __ Sparsely Vegetated Concave Surface (B8)
__ Saturation (A3) __ Marl Deposits (B15) (LRR U) __ Drainage Patterns (B10)
__ Water Marks (B1) __ Hydrogen Sulfide Odor (C1) __ Moss Trim Lines (B16)
__ Sediment Deposits (B2) __ Oxidized Rhizospheres on Living Roots (C3) __ Dry-Season Water Table (C2)
__ Drift Deposits (B3) __ Presence of Reduced Iron (C4) __ Crayfish Burrows (C8)
__ Algal Mat or Crust (B4) __ Recent Iron Reduction in Tilled Soils (C6) __ Saturation Visible on Aerial Imagery (C9)
__ Iron Deposits (B5) __ Thin Muck Surface (C7) __ Geomorphic Position (D2)
__ Inundation Visible on Aerial Imagery (B7) __ Other (Explain in Remarks) __ Shallow Aquitard (D3)
__ FAC-Neutral Test (D5)

Field Observations:
Surface Water Present? Yes ____ No ✓ Depth (inches): ____
Water Table Present? Yes ____ No ✓ Depth (inches): ____
Saturation Present? (includes capillary fringe) Yes ____ No ✓ Depth (inches): ____
Wetland Hydrology Present? Yes ____ No ✓
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

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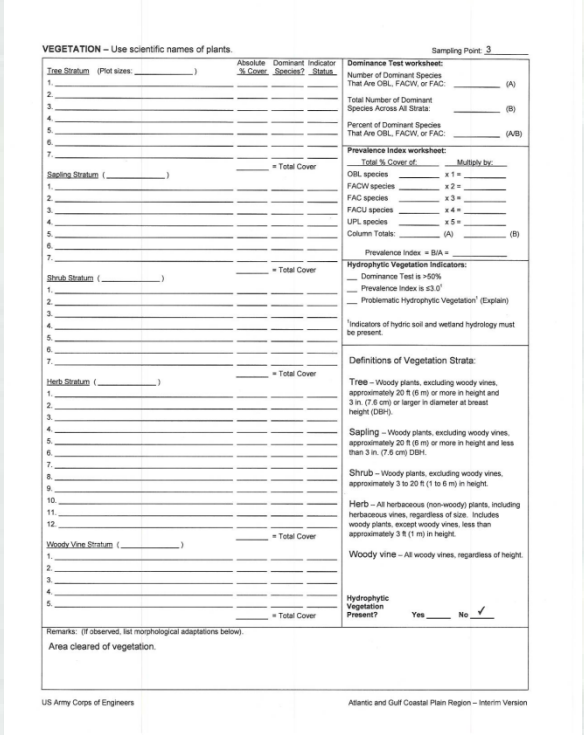

VEGETATION – Use scientific names of plants. Sampling Point: 3

Tree Stratum (Plot sizes: ____) — Absolute % Cover / Dominant Species? / Indicator Status
1. 2. 3. 4. 5. 6. 7. ____ = Total Cover

Sapling Stratum (____)
1. 2. 3. 4. 5. 6. 7. ____ = Total Cover

Shrub Stratum (____)
1. 2. 3. 4. 5. 6. 7. ____ = Total Cover

Herb Stratum (____)
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. ____ = Total Cover

Woody Vine Stratum (____)
1. 2. 3. 4. 5. ____ = Total Cover

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: ____ (A)
Total Number of Dominant Species Across All Strata: ____ (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: ____ (A/B)

Prevalence Index worksheet:
Total % Cover of: ____ Multiply by:
OBL species ____ x 1 = ____
FACW species ____ x 2 = ____
FAC species ____ x 3 = ____
FACU species ____ x 4 = ____
UPL species ____ x 5 = ____
Column Totals: ____ (A) ____ (B)
Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:
__ Dominance Test is >50%
__ Prevalence Index is ≤3.0[1]
__ Problematic Hydrophytic Vegetation[1] (Explain)
[1]Indicators of hydric soil and wetland hydrology must be present.

Definitions of Vegetation Strata:
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).
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.
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.

Hydrophytic Vegetation Present? Yes ____ No ✓

Remarks: (If observed, list morphological adaptations below.)
Area cleared of vegetation.

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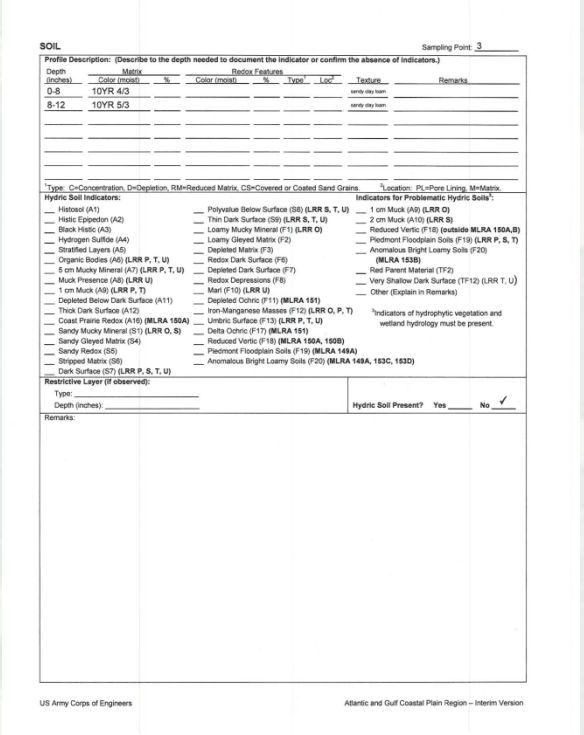

SOIL Sampling Point: 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 4/3						sandy clay loam	
8-12	10YR 5/3						sandy clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:
__ Histosol (A1)
__ Histic Epipedon (A2)
__ Black Histic (A3)
__ Hydrogen Sulfide (A4)
__ Stratified Layers (A5)
__ Organic Bodies (A6) (LRR P, T, U)
__ 5 cm Mucky Mineral (A7) (LRR P, T, U)
__ Muck Presence (A8) (LRR U)
__ 1 cm Muck (A9) (LRR P, T)
__ Depleted Below Dark Surface (A11)
__ Thick Dark Surface (A12)
__ Coast Prairie Redox (A16) (MLRA 150A)
__ Sandy Mucky Mineral (S1) (LRR O, S)
__ Sandy Gleyed Matrix (S4)
__ Sandy Redox (S5)
__ Stripped Matrix (S6)
__ Dark Surface (S7) (LRR P, S, T, U)
__ Polyvalue Below Surface (S8) (LRR S, T, U)
__ Thin Dark Surface (S9) (LRR S, T, U)
__ Loamy Mucky Mineral (F1) (LRR O)
__ Loamy Gleyed Matrix (F2)
__ Depleted Matrix (F3)
__ Redox Dark Surface (F6)
__ Depleted Dark Surface (F7)
__ Redox Depressions (F8)
__ Marl (F10) (LRR U)
__ Depleted Ochric (F11) (MLRA 151)
__ Iron-Manganese Masses (F12) (LRR O, P, T)
__ Umbric Surface (F13) (LRR P, T, U)
__ Delta Ochric (F17) (MLRA 151)
__ Reduced Vertic (F18) (MLRA 150A, 150B)
__ Piedmont Floodplain Soils (F19) (MLRA 149A)
__ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils[3]:
__ 1 cm Muck (A9) (LRR O)
__ 2 cm Muck (A10) (LRR S)
__ Reduced Vertic (F18) (outside MLRA 150A,B)
__ Piedmont Floodplain Soils (F19) (LRR P, S, T)
__ Anomalous Bright Loamy Soils (F20) (MLRA 153B)
__ Red Parent Material (TF2)
__ Very Shallow Dark Surface (TF12) (LRR T, U)
__ Other (Explain in Remarks)
[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type: ____
Depth (inches): ____
Hydric Soil Present? Yes ____ No ✓
Remarks:

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Data Forms: Data Point 3 (Forested Upland)