

Tips & Tricks for the New Data Sheets



US Army Corps of Engineers
BUILDING STRONG®



Now that you've seen Avatar...



US Army Corps of Engineers 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 ▶



WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: _____ City/County: _____ Sampling Date: _____
 Applicant/Owner: _____ State: _____ Sampling Point: _____
 Investigator(s): _____
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, non): _____ Slope (%): _____
 Subregion (LRR or MLRA): _____ Latitude: _____ Datum: _____
 Soil Map Unit Name: _____
 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 altered? Yes _____ No _____ Are "Normal Circumstances" present? Yes _____ No _____
 Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes _____ No _____	Wetland Area within a Wetland?	Yes _____ No _____
Hydric Soil Present?	Yes _____ No _____		
Wetland Hydrology Present?	Yes _____ No _____		
Remarks:			

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required):	
Primary Indicators (minimum of one is required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) (LRR U)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> FAC-Neutral (D4)	
		<input type="checkbox"/> Monium moss (D5) (LRR T, U)	
Field Observations:			
Surface Water Present?	Yes _____ No _____ Depth (feet): _____		
Water Table Present?	Yes _____ No _____ Depth (feet): _____		
Saturation Present? (includes capillary fringe)	Yes _____ No _____ Depth (feet): _____	Wetland Hydrology Present? Yes _____ No _____	
Describe Recorded Data (stream gaging well, aerial photos, previous inspection, if available):			
Remarks:			



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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 location.
 - d. ☐ **Location** of property or review area in decimal degrees (xx°xx'N xx°xx'W) for (it). The property should also include decimal degrees for the nearest town and the review area.
 - e. ☐ **State** of property or review area.
 - 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 its 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.

Use the Checklists!



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Preliminary Data Gathering

Off-site sources of information are used to plan and carry out an on-site investigation.



Virtual Earth bird's-eye view

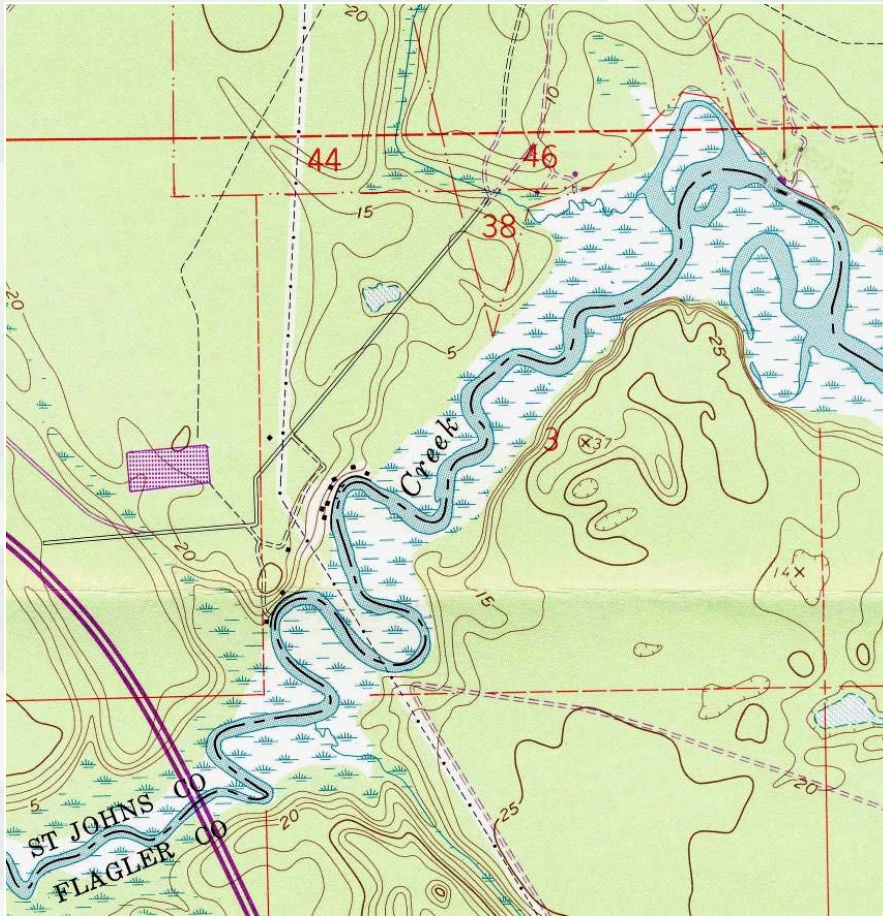


CIR aerial photography

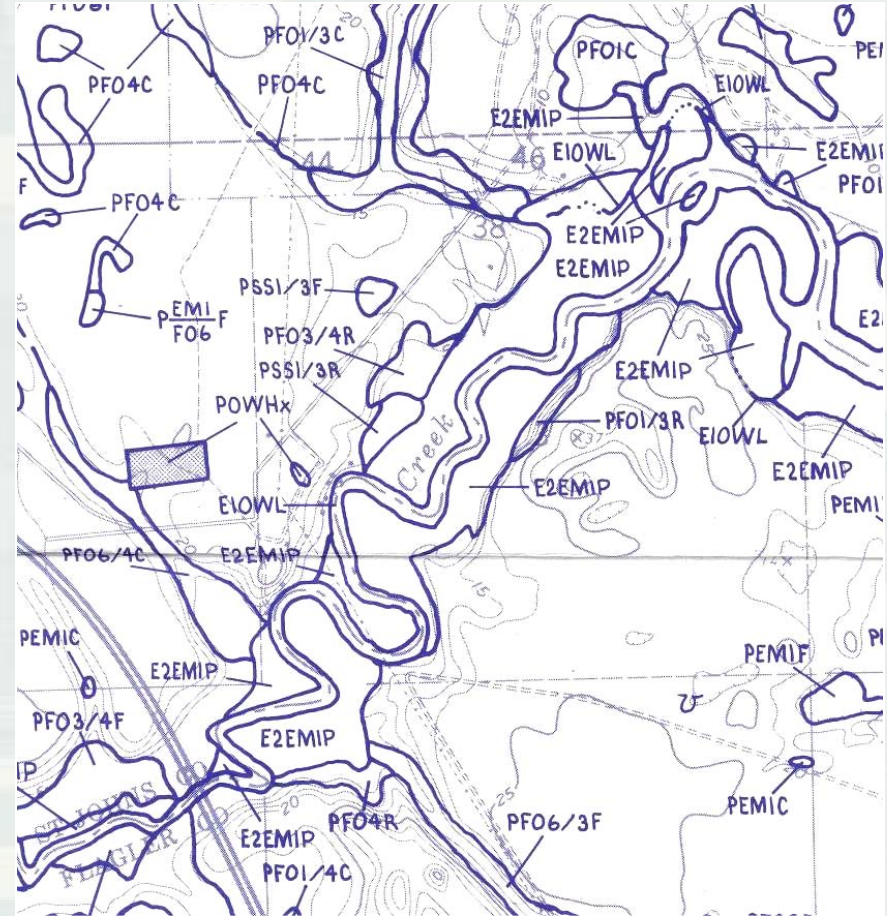


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Preliminary Data Gathering



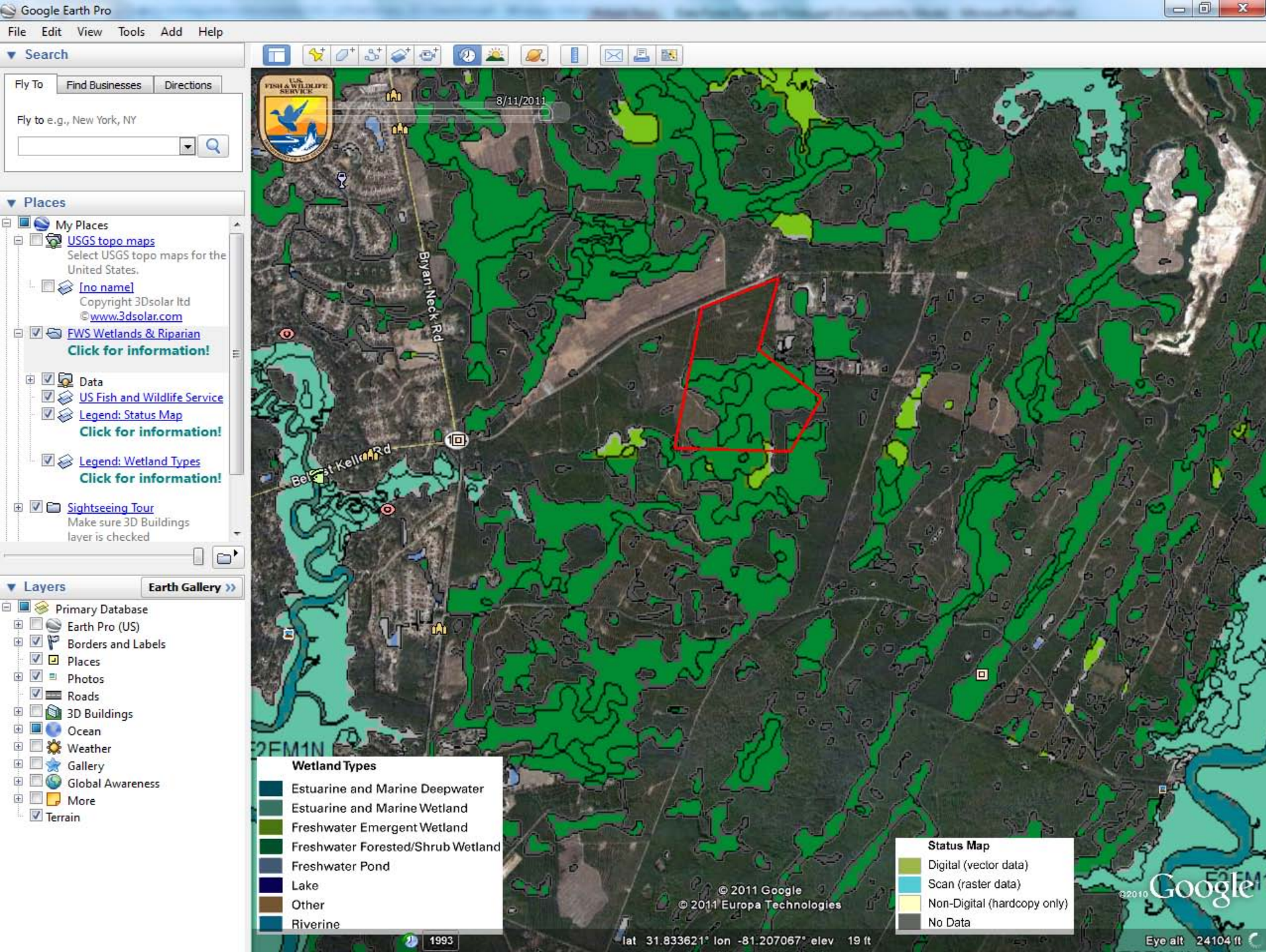
USGS topographic maps



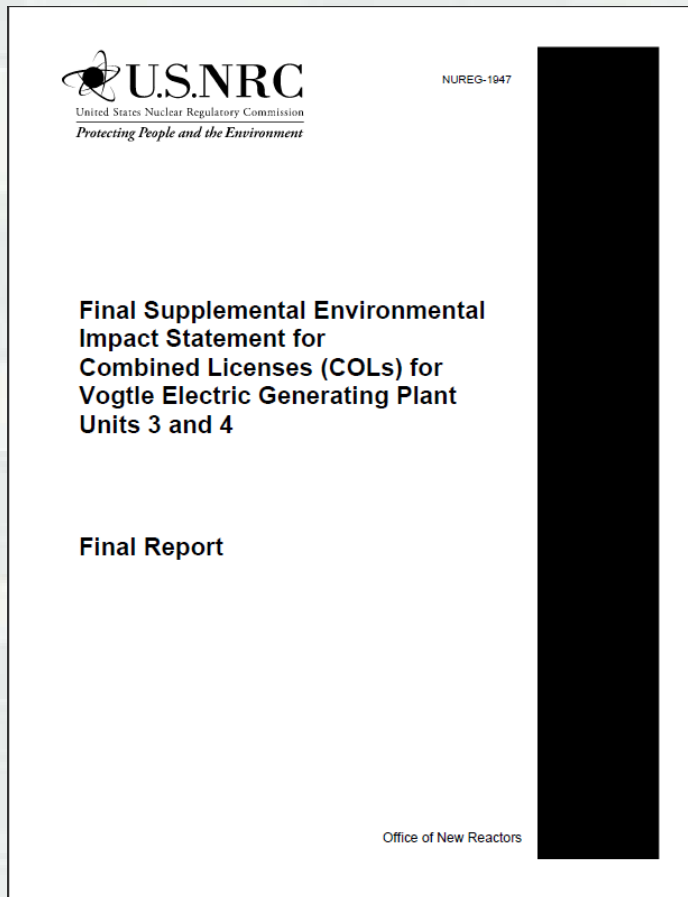
NWI maps



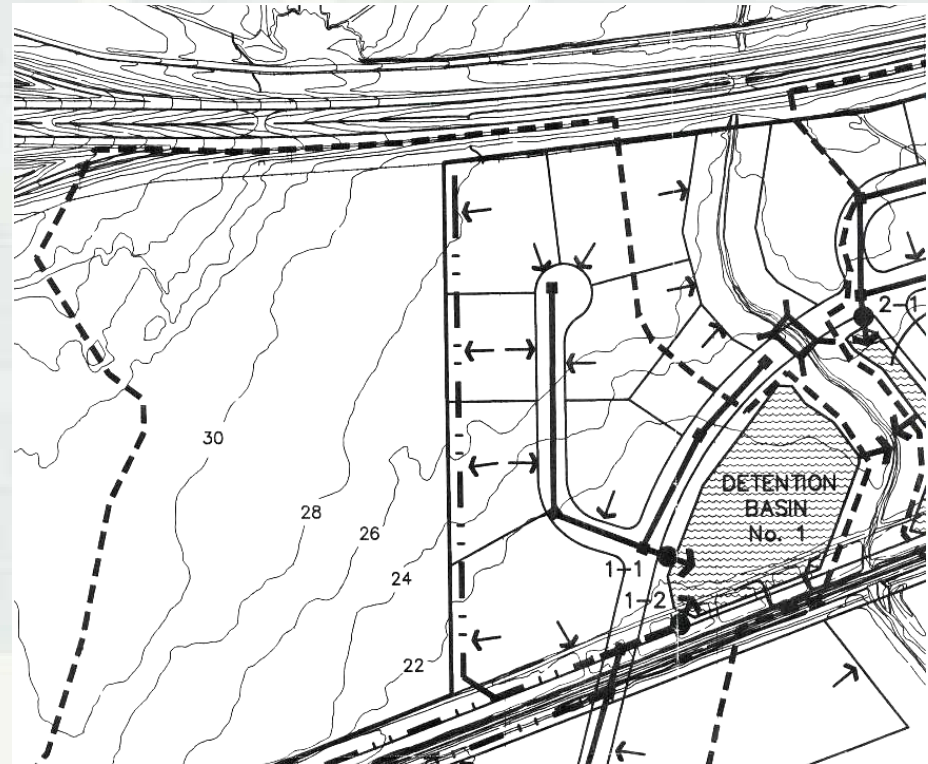
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Preliminary Data Gathering



Existing environmental documents



Engineering plans



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HYDROLOGY


HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required):
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) (LRR U)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
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<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D6) (LRR T, U)
Field Observations:		
Surface Water Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		




Evaluating Normal Rainfall

WETS Tables



United States Department of Agriculture
Natural Resources
Conservation Service

National Water
and Climate Center



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Climate Monitoring

- SNOTEL Data
- SCAN Data
- Snow Course Data
- Data Search **NEW**
- Soil Search **NEW**

Climate Interpretation

- Climate Analysis
- PRISM
- Climate Data
- General Information

Snow Survey Programs by State

Find a Service Center

States and Regions

National Centers

Climate Analysis for Wetlands by County

Wetlands climate information has been updated through Calendar Year 2001 and uses an improved procedure to analyze arid regions and low monthly precipitation totals.

Retrieval of Wetlands Climate Evaluation Dataset

1. Select desired region:

Connecticut

Delaware

Florida

Georgia

Hawaii

Go to County Selection

<http://www.wcc.nrcs.usda.gov/climate/wetlands.html>

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WETS Station : SAVANNAH WSO AIRPORT, GA7847

Creation Date: 09/04/2002

Latitude: 3208

Longitude: 08112

Elevation: 00050

State FIPS/County(FIPS): 13051

County Name: Chatham

Start yr. - 1971 End yr. - 2000

Month	Temperature (Degrees F.)			Precipitation (Inches)				
	avg daily max	avg daily min	avg	avg	30% chance will have		avg # of days w/.1 or more	avg total snow fall
					less than	more than		
January	60.4	39.3	49.9	3.96	2.38	4.81	6	0.1
February	64.1	42.0	53.1	2.93	1.81	3.54	4	0.2
March	71.1	48.8	59.9	3.67	2.39	4.41	5	0.1
April	77.7	54.1	65.9	3.31	1.94	4.02	4	0.0
May	84.3	62.7	73.5	3.61	2.25	4.36	5	0.0
June	89.4	69.5	79.5	5.47	3.34	6.63	7	0.0
July	92.4	73.0	82.7	5.93	3.90	7.12	8	0.0
August	90.4	72.3	81.3	6.93	4.54	8.32	8	0.0
September	86.0	68.2	77.1	5.20	2.63	6.35	6	0.0
October	78.0	57.0	67.5	2.95	0.99	3.59	3	0.0
November	70.4	48.4	59.4	2.37	1.31	2.90	3	0.0
December	62.3	41.2	51.8	2.78	1.76	3.35	5	0.2
Annual	----	----	----	-----	44.04	53.26	--	----
Average	77.2	56.4	66.8	-----	-----	-----	--	----
Total	----	----	----	49.12	-----	-----	64	0.5

30 Year Rang of
Normal for area in
question:

44.04"- 53.26"

GROWING SEASON DATES

Probability	Temperature		
	24 F or higher	28 F or higher	32 F or higher



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Georgia Rainfall Data

(for use with WETS Tables)



Georgia
Weather



Enter a GA ZIP Code

Weather Stations

Select a Station ▾

K-12 Weather School ^{new}
AEMN Home

Expand All | Collapse All

- ☐ Drought
- ☐ Fruits
- ☐ Cotton
- ☐ Peanut
- ☐ Current Maps
- ☐ Daily Maps
- ☐ Daily Summaries
- ☐ Climate Maps
- ☐ Calculators
- ☐ Background Info
- ☐ General
- ☐ Others
- ☐ News

Supporters



**Georgia Automated
Environmental
Monitoring Network**
www.GeorgiaWeather.net



WARNING:

WARNING: The AEMN and this website are currently scheduled to be **shutdown in late Summer 2011 due to a shortfall in funding**. Unless substantial blocks of dedicated funding are committed by early July 2011, we will begin the process of decommissioning weather stations at that time. Once a weather station is decommissioned, current data will no longer be available. For more information [click here](#).

- [Georgia Weather Net is under threat](#) ^{new}
- [UGA seeks funds to keep weather monitors online](#) ^{new}
- [UGA seeks funds to keep weather monitors online](#) ^{new}
- [Georgia weather network struggles to survive](#) ^{new}
- [Ending weather reports worries Ga. farmers](#) ^{new}
- [K-12 Weather School for Georgia educators](#)
- Recent new stations: [Ducker...](#) [more news](#)
- To print a "printer-friendly" web page, simply select "File" and then "Print" or Click

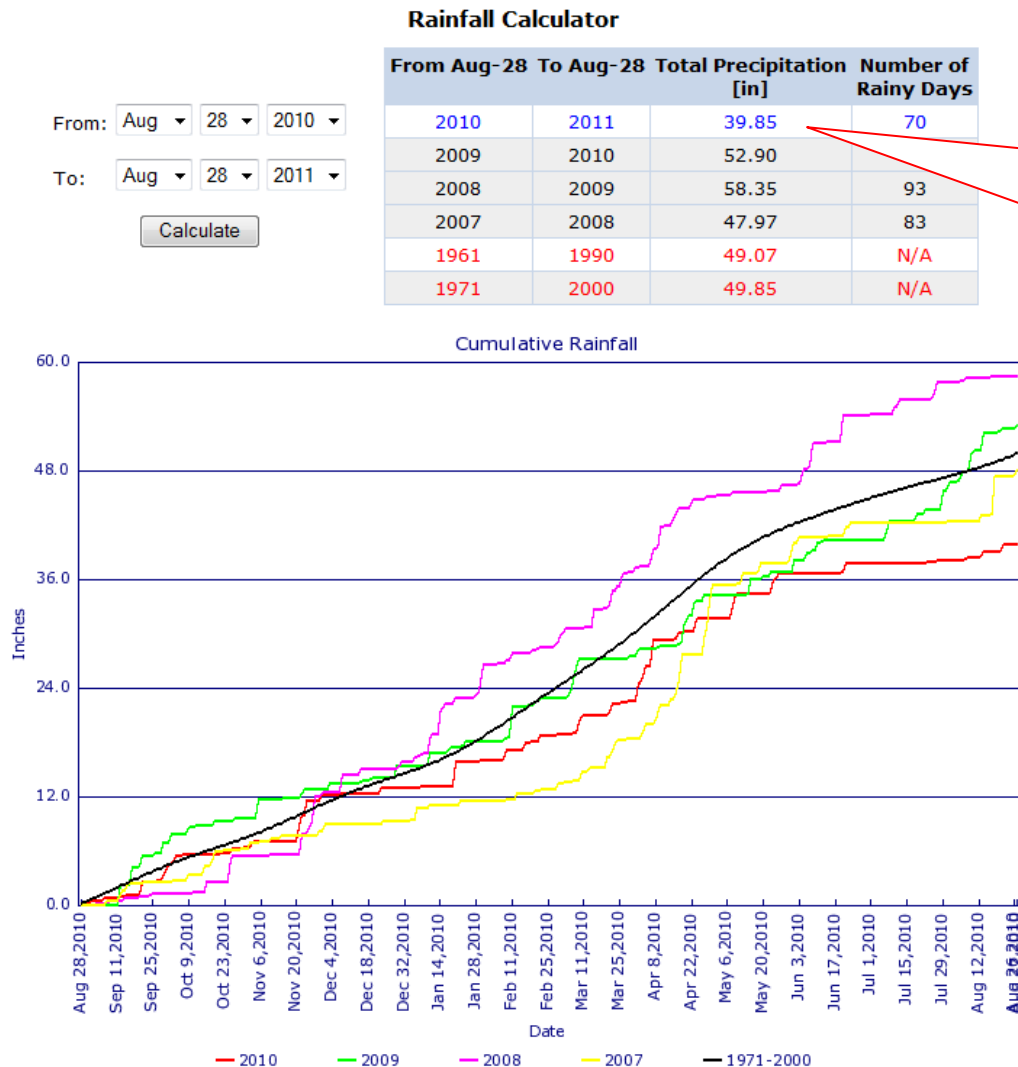
For current weather conditions, historical weather data and applications,
please select a site on the map:



<http://www.georgiaweather.net/>

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Change the dates to look at the past 12 months of rainfall data.



Total precipitation
for the past
12 months:

39.85"

Our 30 year range of normal is: 44.04" - 53.26"

The sum for the past 12 months is: 39.85"

Therefore: $44.04'' - 39.85'' =$ We are 4.19" below the range of normal for the past 12 months.

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

Sampling Point: _____

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
= Total Cover			
Sapling/Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
= Total Cover			
Herb Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
= Total Cover			
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
= Total Cover			

Remarks: (Include photo numbers here or on a separate sheet.)

VEGETATION (Five Strata) – Use scientific names of plants.

Sampling Point: _____

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
= Total Cover			
50% of total cover: _____		20% of total cover: _____	
Sapling Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
= Total Cover			
50% of total cover: _____		20% of total cover: _____	
Herb Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
= Total Cover			
50% of total cover: _____		20% of total cover: _____	
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
= Total Cover			
50% of total cover: _____		20% of total cover: _____	

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


Hydrophytic Vegetation


- Great guidance in the Regional Supplement for your area!
http://www.usace.army.mil/cecw/pages/reg_supp.aspx
- Utilize local herbariums and Universities (see handout)
- USDA Plant Database




Plant Database

<http://plants.usda.gov/java/>

**United States Department of Agriculture**
Natural Resources Conservation Service





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Related Tools

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The PLANTS Database provides standardized information about the vascular plants, mosses, liverworts, hornworts, and lichens of the U.S. and its territories.


Plant of the Week




wingleaf primrose willow
Ludwigia decurrens Walter

Click on the photo for a full plant profile.


Spotlights




New Photos Posted to Image Gallery
938 new photos taken by Gary A. Monroe have been recently added to the Image Gallery. Many more photos will be added soon. The PLANTS Gallery now has nearly 46,000 images.



Characteristics Data Update
PLANTS Characteristics major data update completed. Over 3000 changes and corrections were made to this popular ecology data set that covers over 2500 species and cultivars.



Using Farm Bill Programs for Pollinator Conservation (PDF; 278KB)
Technical Note TN.190.B.78 - Using Farm Bill Programs for Pollinator Conservation is now available. Learn about Farm Bill programs and associated conservation practices that can increase pollinator populations for healthier and more profitable agro-ecosystems.



Gymnosperm, Legume, Grass, and Wetland Monocot Keys for All 50 States
Interactive plant identification keys are now

I Want To...

- See a list of the plants in my state
- Learn about the wetland plants in my region
- Learn about all the endangered plants of the U.S.
- Learn about noxious and invasive plants
- Search for and view images of plants
- Read and print abstracts about important conservation plants
- Download data or posters
- Contribute plant distribution information to PLANTS
- Get ecological descriptions of sites from around the country

I Want Help

- Introduction to PLANTS
- Frequently Asked Questions
- Citing the PLANTS Database
- Conditions of Image and Data Use
- Contribute Your Photos to PLANTS



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Hydrophytic Vegetation Determination

- Indicator 1: Rapid Test (All dominants are OBL or FACW)
- Indicator 2: Dominance Test (50/20 Rule)
- Indicator 3: Prevalence Index

An area is considered to be vegetated if it has 5% or more total plant cover during peak growing season.



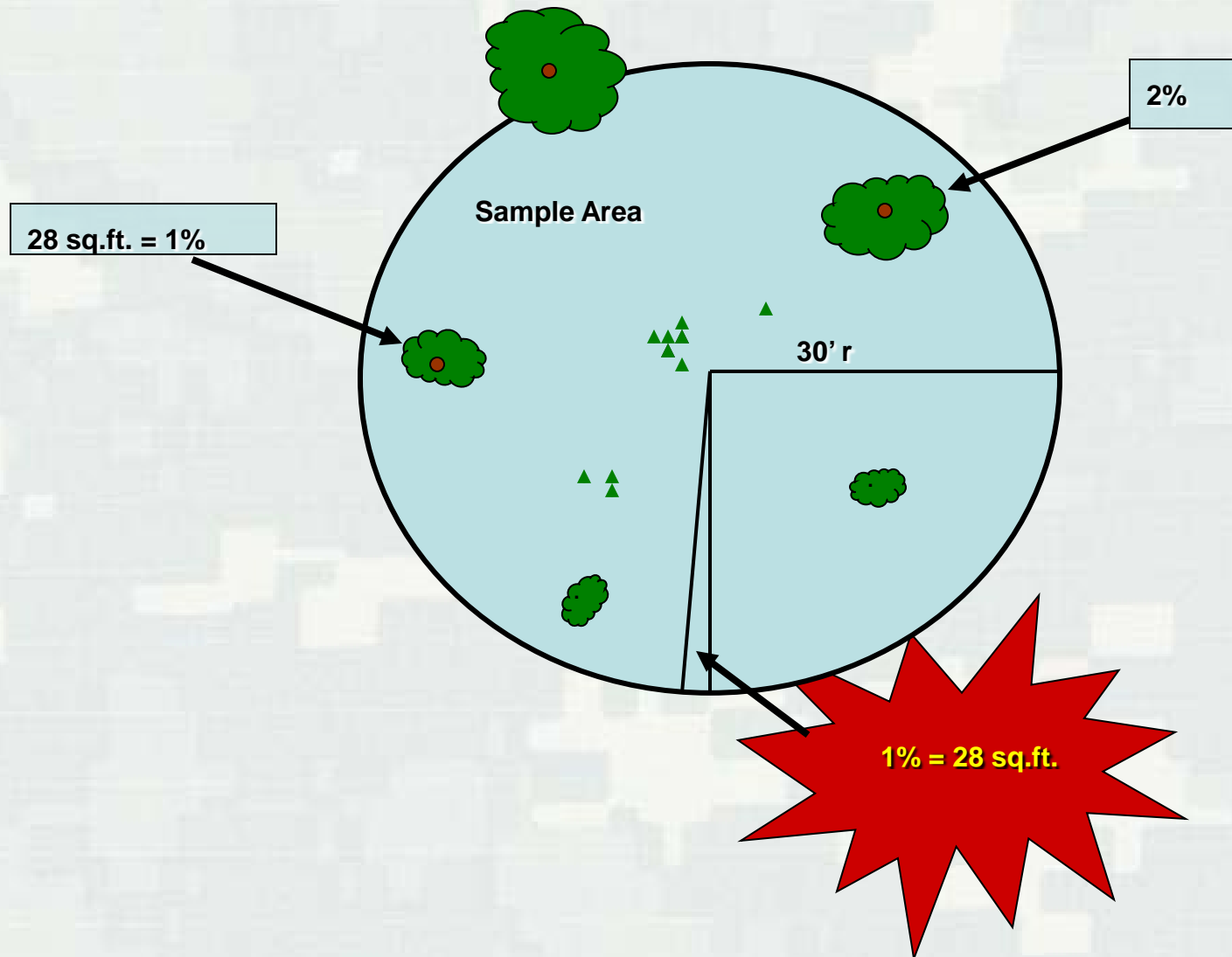
REMEMBER!

Plot and Sample Sizes

- 30-foot radius for all strata
- The sizes and shapes of sampling plots may be modified as appropriate to adapt to site conditions
 - ▶ Variations from *recommendations in the Corps Manual or the Supplement* should be *recorded on the data sheet*.



Absolute Percent Cover



A Note about Absolute Percent Cover

- ★ Due to overlapping plant canopies, the sum of absolute cover values for all species in a community or stratum may be LESS THAN OR GREATER THAN 100%.



The Strata

1. **Tree stratum**: Woody plants, excluding woody vines, 20 feet or more in height and 3 inches or more DBH.
2. **Sapling stratum**: Woody plants, excluding woody vines, 20 feet or more in height and 3 inches or less DBH.
3. **Shrub stratum**: Woody plants, excluding woody vines, 3 to 20 feet in height.
4. **Herb stratum**: Herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody species, except woody vines, less than 3 feet in height.
5. **Woody vines**: Consists of all woody vines, regardless of height.



Sampling Point: _____

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Mass, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Indicators for Problematic Hydric Soils³:

- | | |
|---|---|
| — Histosol (A1) | — Dark Surface (S7) |
| — Histic Epipedon (A2) | — Polyvalue Below Surface (S8) (MLRA 147, 148) |
| — Black Histic (A3) | — Thin Dark Surface (S9) (MLRA 147, 148) |
| — Hydrogen Sulfide (A4) | — Layered Gleyed Matrix (S10) |
| — Stratified Layers (A5) | — Dark Matrix (S11) |
| — 2 cm Muck (A10) (LRR N) | — Redox Dark Surface (F6) |
| — Depleted Below Dark Surface (A11) | — Depleted Dark Surface (F7) |
| — Thick Dark Surface (A12) | — Redox Depressions (F8) |
| — Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) | — Iron-Manganese Masses (F12) (LRR N, MLRA 136) |
| — Sandy Gleyed Matrix (S4) | — Umbric Surface (F13) (MLRA 136, 122) |
| — Sandy Redox (S5) | — Piedmont Floodplain Soils (F19) (MLRA 148) |
| — Stripped Matrix (S6) | |

- ☐ 2 cm Muck (A10) (MLRA 147)
☐ Coast Prairie Redox (A16)
 (MLRA 147, 148)
☐ Piedmont Floodplain Soils (F19)
 (MLRA 136, 147)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Type: _____

Depth (inches): _____

Hydric Soil Present?	Yes	No
----------------------	-----	----

Remarks:

Web Soil Survey

- Contains the latest soils data
SUPERCEDES HARDCOPY SURVEYS
- Data include: soil series in your area, hydric soil status, water features, depth to restrictive layer, drainage class, and much more.

<http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>

Let's get started!



Hydric Soil Indicators



United States
Department of
Agriculture

In cooperation with
the National Technical
Committee for Hydric Soils



Natural Resources
Conservation
Service

Field Indicators of Hydric Soils in the United States

A Guide for Identifying and Delineating
Hydric Soils, Version 7.0, 2010



- Indicators presented in Regional Supplements are subsets of the NTCHS “Field Indicators of Hydric Soils in the United States”

- **All delineations MUST document the observation of one or more of these hydric soil indicators in order to confirm a wetland determination, unless it is a Problem Area.**

<http://soils.usda.gov/use/hydric/>



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Hydric Soil- A soil that formed under conditions of saturation, flooding or ponding long enough during the growing season to develop anaerobic conditions in the upper part.



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CAUTIONS AND USER NOTES

Heed the CAUTIONS AND USER NOTES statements that accompany each indicator

★ Concentrate your sampling efforts near the wetland edge and, if these soils are hydric, assume that soils in the interior portions of the wetland are also hydric even if they lack an indicator.



COMING FALL 2011

Wetlands Among Us: *A Field Partnering Meeting*

Details: TBD



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Consultants only please!