# What happens if we remove wetlands? Regulatory

U.S. Army Corps of Engineers (USACE)
Indiana Department of Environmental Management (IDEM)
Indiana Department of Natural Resources (IDNR)
Natural Resources Conservation Service (NRCS)





### **U.S. Army Corps of Engineers**

# Regulatory Program Overview

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### Regulatory Program Goals

Protect the Nation's aquatic resources, while allowing reasonable development.

Ensure fair, flexible, balanced decisions.







### **USACE** Regulatory Authority

#### Section 10 of the Rivers and Harbors Act of 1899

Regulation of the placement of any <u>structure</u> or <u>work</u> that takes place in, under, or over a <u>navigable water</u>\* affecting course, location, or condition of navigable capacity.

#### Section 404 of the Clean Water Act

Regulation of the discharge of <u>dredged</u> or <u>fill</u> material into all waters of the U.S., including wetlands.











### **USACE** Regulatory Authority

### Section 10 of the Rivers and Harbors Act of 1899

Navigable Waters of the United States are waters that are presently used, or have been used in the past, or may be susceptible to use to transport interstate or foreign commerce.

Examples: in the Detroit District include Lake Michigan, the Maumee River and the Kankakee River; Louisville District – The Ohio River.

Regulation of the placement of any structure or work that takes place in, under, or over a navigable water affecting course, location, or condition of navigable capacity.



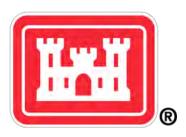
### Section 404 of the Clean Water Act

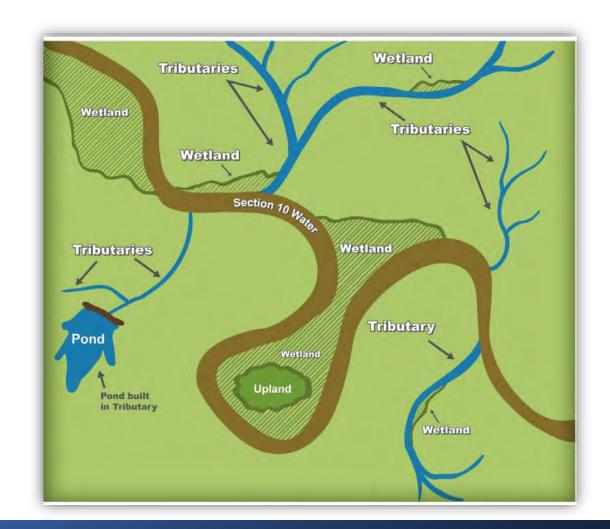
Navigable and non-navigable waters of the U.S.:

Rivers, streams, creeks, tributaries; Many lakes, ponds, and adjacent wetlands (33 CFR Part 328).

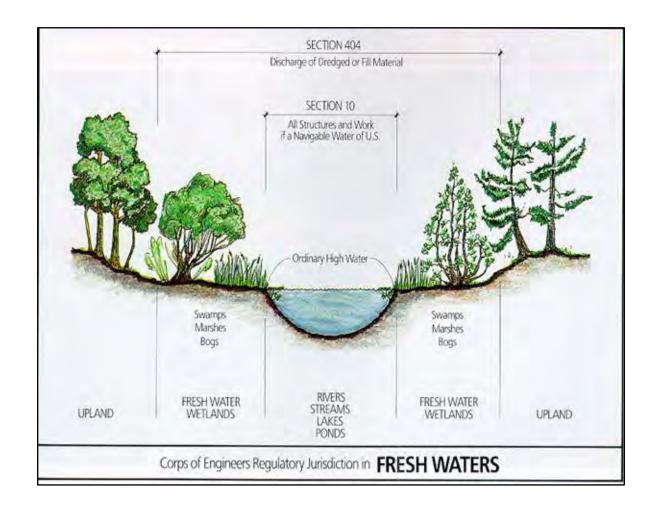
#### Limits:

Wetlands – USACE1987 Wetland Delineation Manual Non-tidal Streams – Ordinary High-Water Mark





### **Limits of Jurisdiction**





## **Ordinary High-Water Mark (OHWM)**







### Wetlands

#### defined as:

"Areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions."





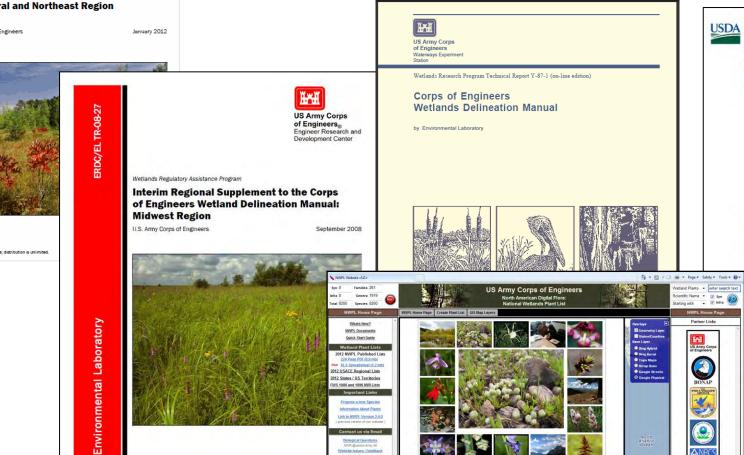


Approved for public release; distribution is unlimited.

### **Technical Resources**

www.usace.army.mil





SDA United States Department of Agriculture
Natural Resources Conservation Service In cooperation with the National Technical

Field Indicators of Hydric Soils in the United States

A Guide for Identifying and Delineating Hydric Soils, Version 8.0, 2016





### Wetlands

Wetland Delineations are conducted per the 1987 USACE Wetland Delineation Manual and appropriate Regional Supplement and requires three criteria:

- 1. Hydrophytic Vegetation
- 2. Hydrology
- 3. Hydric Soils





## Criteria 1: Hydrophytic Vegetation

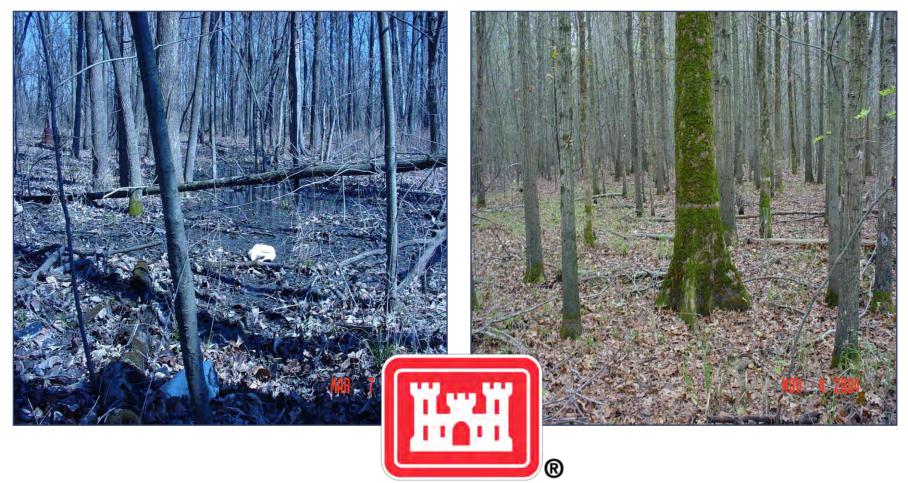


Vegetation adapted to growing in wet / anaerobic conditions



## Criteria 2: Hydrology

Saturated or inundated conditions



## Criteria 3: Hydric Soils





### Areas NOT Classified as Waters of the U.S.

- Prior converted cropland (unless abandoned)
- Non-tidal drainage / irrigation ditches excavated in dry land (connection exception)
- Artificially irrigated areas that would revert to upland if irrigation ceased
- Artificial lakes or ponds created by excavating from dry land and used exclusively for stock watering, irrigation, settling basins, or rice growing

- Artificial reflecting or swimming pools or ornamental water bodies created by excavation from dry land
- Water-filled depressions created on dry land incidental to construction activities and pits excavated on dry land for the purpose of obtaining fill, sand, or gravel
- Waste treatment ponds/lagoons designed to meet CWA requirements
- Isolated, intrastate, non-navigable waters – Only "Commerce Clause" nexus is migratory birds

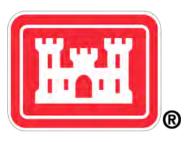
# Areas NOT Classified as Waters of the U.S. can still be regulated by the State. Contact IDEM

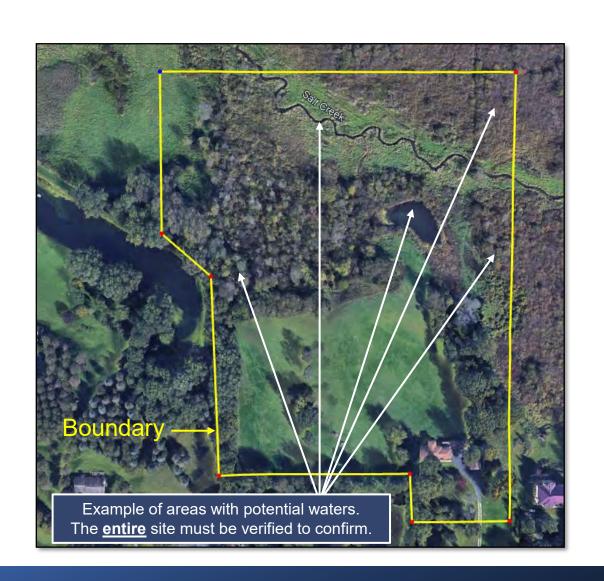




### Does your project need a USACE permit?

- 1. Identify jurisdictional waters on your site
- 2. Assess potential impacts:
  - A. <u>Avoid</u> consider alternatives, including other properties
  - B. Minimize modify plans
  - C. <u>Mitigate</u> bank &/or ILF
- 3. Apply for Authorization

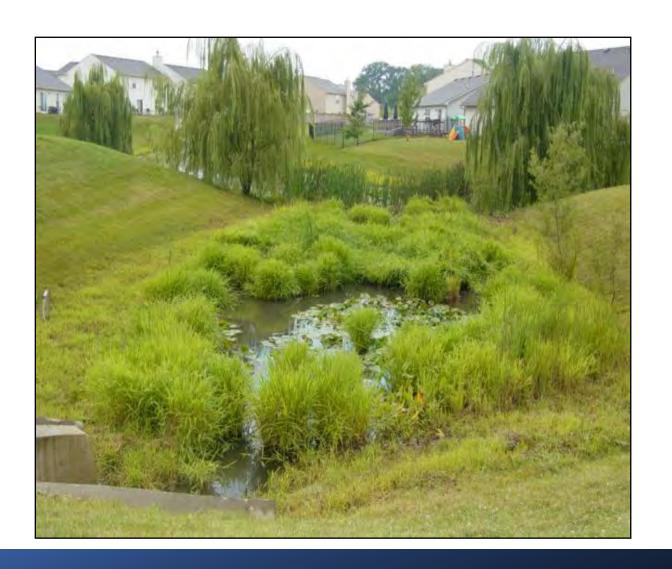




### **Three Types of Permits / Authorizations**

- 1. Individual Permits (IPs)
- 2. Letters of Permission (LOPs)
- 3. General Permits:
  - A. Regional General Permits (RGPs)
  - B. Nationwide Permits (NWPs)
  - C. Programmatic General Permits (PGPs)





### **Other Laws**

Section 7: Endangered Species Act U.S. Fish & Wildlife Service (USFWS)

Section 106: National Historic Preservation Act State Historic Preservation Office

Section 401: Clean Water Act
Water Quality Certification
Indiana Department of Environmental Management

Section 408: Section 14 of the Rivers and Harbors Act of 1899 (33 USC 408) Civil Works Projects, USACE, Engineering Division

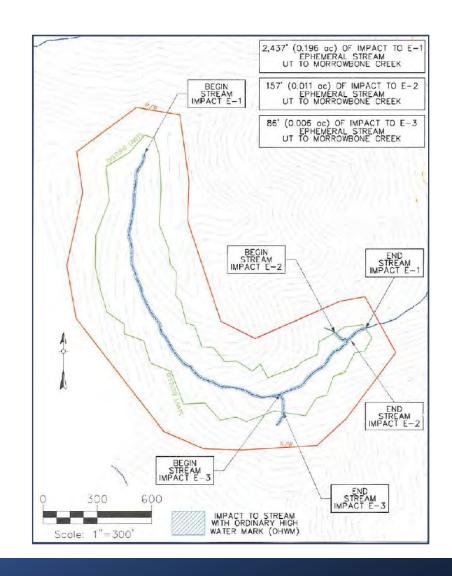


### **Decisions**

Issue, Deny, or Issue with Conditions:

- Authorize as proposed
- Deny not in the Public Interest, or without prejudice (other Agency denial)
- Issue with Special Conditions to ensure in Public Interest





# Issue Department of the Army Permit or verification of GP with Special Conditions

#### Examples:

- Mitigation to offset adverse impacts to the aquatic environment
- Seasonal tree clearing Indiana bat, Northern Long-Eared Bat, Gray Bat
- Comply with MOA Historic Properties
- Specific construction details from ED regarding Civil Works Projects



### **Mitigation**

### 2008 Mitigation Rule-Hierarchy

- Mitigation Bank
- In-Lieu Fee Program
- Off-Site Permittee Responsible Mitigation
- On-Site Permittee Responsible Mitigation



### **Common Work Types**

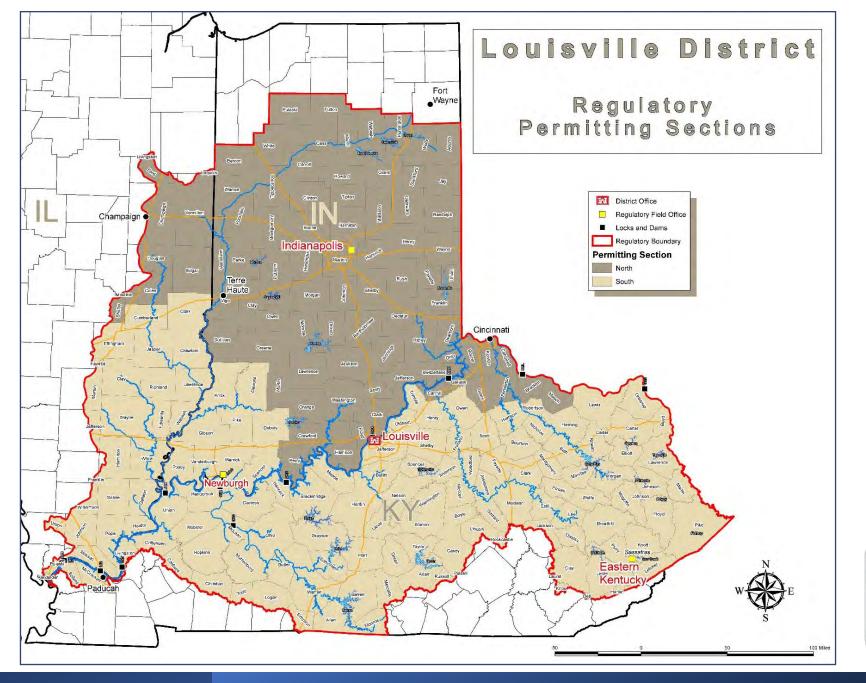
- Dredging / debris / sediment removal (Section 10)
- Construction of roads & crossings
- Stream relocation, new crossings, encapsulation, or tiling
- Bank stabilization
- Maintenance of currently serviceable structures (culvert or bridge)
- Residential, Industrial, & Commercial Development













### **Questions?**

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#### **Louisville District Webpage:**

http://www.lrl.usace.army.mil/Missions/Regulatory.aspx

#### **USACE** Headquarters Webpage:

http://www.usace.army.mil/CECW/Pages/cecwo\_reg.aspx



# **IDEM** Wetland Permitting 101:

Overview of permitting for work in Waters of the State

**Tom Sowinski** 

Senior Project Manager

Office of Water Quality, Indiana Department of Environmental Management (IDEM)



### **IDEM & the Law: Regulatory Authority**

#### **Section 401 of the Clean Water Act**

Implemented by IDEM

Water Quality Certification (WQC) required from the state before a federal permit or license can be issued

### State Water Quality Standards (327 IAC 2) State Regulated Wetlands Law (IC 13-18-22)

Establish General & Individual Permits for impacts in wetlands NOT under federal jurisdiction











### **IDEM-Regulated Activities**

- Discharge of dredged or fill material into Waters of the U.S. & non-exempt Waters of the State
- All Waters of the U.S. are Waters of the State
- Isolated Wetlands Waters of the State but NOT Waters of the U.S.
- State Regulated Wetland Defined by state law as an isolated wetland located in Indiana that is not an exempt isolated wetland





Wetland image courtesy of IDEM

# Indiana State Isolated Wetlands Law: IC 13-18-22

- Wetlands not regulated under the Federal Clean Water Act.
- 2003: Law passed in response to lack of federal jurisdictional & permit requirements in wake of SWANCC
- Established wetland classification system for "class" of isolated wetlands
  - Class I, Class II, Class III
- Regulatory oversight & mitigation requirements through IDEM
  - Wetland class & acreage
- Exempts certain activities & wetlands based on size & class



### **Permits & Certifications**

- General Permits
- Individual Section 401 WQC
- Isolated Wetland Individual Permit
- Tile Maintenance General Permit





Section 401 WQC Regional General Permit

# Permits & Certifications: General Permits

On jurisdictional waters, permits issued by USACE (RGP, NWP, & PGP) have a 401 WQC issued based on applications by USACE to IDEM on a cyclical basis.

Notifications provided to IDEM are verified for compliance with conditions in the certification.



# Permits & Certifications: Individual Section 401 WQC

Required for projects that do not meet general permit conditions on jurisdictional waters:

- 1. Required Public Notice
- 2. Required mitigation



# Permits & Certifications: Isolated Wetland Individual Permit

Any regulated impact to non-jurisdictional wetlands

- "Isolated Wetlands"
- Non-Exempt under any of the stated exemptions
- Require Avoidance and Minimization as well as Mitigation
- Mitigation based on Class and dominant vegetation type



# Permits & Certifications: Tile Maintenance General Permit

Maintenance of drainage tile in Class II or Class III Wetlands

Wetlands which have re-established over failed drainage tiles qualify for a general permit for maintenance that:

- Is necessary to restore drainage of land adjacent to the wetland
- Does not have the effect of draining of the wetland itself (the use of solid tile through the wetland)
   General Permit for tile maintenance within Class II wetlands:
- Must meet general conditions as outlined in the Tile Maintenance General Permit issued July 12, 2021

  Tile maintenance in Class III wetlands requires individual review of information meeting all general conditions as well as:
- Provide the location and area needed to be disturbed
- A lack of reasonable alternatives to the disturbance of the area



### **Avoid Permitting "Surprises"**

- 1. Avoid impacts to wetlands & streams, if possible
- 2. Complete a wetland delineation for all sites
- 3. Contact IDEM for early coordination site visit:
- 4. Indiana Department of Environmental Management
  Office of Water Quality
  100 North Senate Avenue, Room 1255
  Indianapolis, Indiana 46204

317-233-8488

WetlandsProgram@idem.IN.gov

Project Managers: https://www.in.gov/idem/wetlands/contact/



# Indiana Department of Natural Resources

Under the Flood Control Act, the Indiana Department of Natural Resources (DNR) has jurisdiction over construction projects in the floodway \*

- This includes impacts to wetlands in the floodway \*
- DNR, Division of Fish & Wildlife reviews projects for unreasonably detrimental effects upon fish, wildlife, and botanical resources
  - "Unreasonably detrimental" is defined in code and essentially means the resources are not likely to recover in a timely manner and the impacts cannot be mitigated
  - Permit conditions address remaining unreasonably detrimental effects

\* all streams have a floodplain, even when not mapped; the DNR has jurisdiction over the *floodway* portion of the floodplain only



## Not sure whether a permit is required?

**Waterways Inquiry Request** – an online tool from IDEM & Indiana DNR to help Indiana citizens determine if a permit is needed from either agency.

Additional information at: <u>waterways.IN.gov</u>



# Mitigation

### **IDEM Mitigation**

Mitigation for wetland losses is determined by:

- the dominant vegetation type of wetland impacted
- the functions the wetland is providing
- the complexity of recreating the same functions and wetland vegetation type in a new location.



### **IDEM Mitigation**

Mitigation ratios may be higher when using ILF

Mitigation constructed through ILF has a longer period of temporal loss expected

Mitigation using wetland mitigation banks will typically be at a 1:1 ratio

Mitigation for impacts to State Regulated Wetlands is at a lower ration than wetlands regulated under the Clean Water Act



# **IDEM Mitigation**

	IDEM (401)	Isolated On-site and any ILF		Isolated Off-site	
		Class I	Exempt	Class I	Exempt
		Class II	2:1	Class II	2.5:1
Palustrine Forested (PFO)	4:1	Class III	2.5:1	Class III	3:1
		Class I	Exempt	Class I	Exempt
		Class II	1.5:1	Class II	2:1
Palustrine Scrub-Shrub (PSS)	3:1	Class III	2:1	Class III	2.5:1
		Class I	Exempt	Class I	Exempt
		Class II	1.5:1	Class II	2:1
Palustrine Emergent (PEM)	2:1	Class III	2:1	Class III	2.5:1

Mitigation is used only if avoidance and minimization cannot prevent all impacts

• The flood study which shows that wetlands help with flood reduction is just one example of a single function that needs to be mitigated when wetland losses are not prevented.



## **DNR Mitigation Requirements**

See the "Habitat Mitigation Guidelines" at <a href="https://www.in.gov/nrc/nonrule-policy-documents-npd/">https://www.in.gov/nrc/nonrule-policy-documents-npd/</a> for details about mitigation requirements from the DNR

Habitat Category	Standard Minimum Mitigation Ratio		
Palustrine Emergent Wetland	2:1		
Palustrine Scrub-Shrub Wetland	3:1		
Palustrine Forested Wetland	4:1		
Non-wetland forest (at least one acre of disturbance)	2:1		
Non-wetland forest (less than one acre of disturbance in a rural area)	1:1		
Non-wetland forest (less than one acre of disturbance	5:1 based on trees at least ten (10) inches in diameter-at-breast-height ("dbh")		
in an urban area)	OR		
	1:1 based on area		

 DNR and IDEM try to coordinate on mitigation requirements so that one mitigation plan is sufficient for both agencies' requirements



# Additional Information



To view floodways in Indiana: <a href="infip.dnr.IN.gov">infip.dnr.IN.gov</a>



# Additional Information



IDEM Wetlands Webpage: http://www.wetlands.IN.gov

**DNR Webpage:** https://www.in.gov/dnr/water/





### **Questions?**

#### **Tom Sowinski**

Office of Water Quality 100 North Senate Avenue, Room 1255 Indianapolis, IN 46204

Phone: (317) 234-5647 Email: TSowinski@idem.IN.gov

IDEM Wetlands Webpage: www.wetlands.IN.gov



# Wetland Conservation Compliance

Scott Wagner, P.E.

Agricultural Engineer

Indianapolis, IN

Natural Resources Conservation Service



United States
Department of
Agriculture

**Natural Resources Conservation Service** 

Helping People Help the Land.

USDA is an equal opportunity provider, employer and lender.



### What is Wetland Conservation Compliance?

- Food Security Act of 1985 included wetland conservation compliance provisions to assist in protecting the value, acreage, and functions of the nation's wetlands
- To participate in most United States
   Department of Agriculture (USDA)
   programs, agricultural producers agree to comply with the wetland conservation provisions
- Producers will not farm converted wetlands or convert wetlands to enable or enhance agricultural production

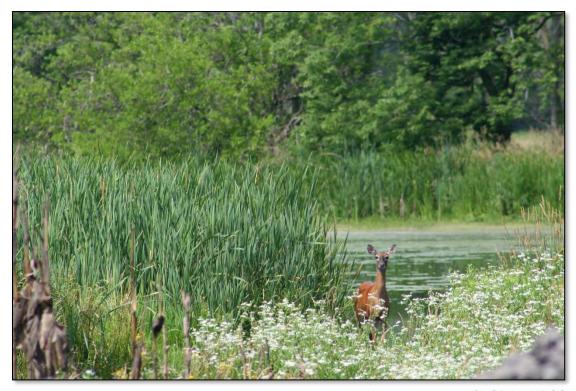


Image courtesy of USDA - NRCS



### **Food Security Act of 1985**

### Defined a Wetland as land that =

- has a predominance of hydric soils;
- is inundated or saturated by surface or groundwater at a frequency and duration sufficient to support a prevalence of hydrophytic vegetation typically adapted for life in saturated soil conditions; and
- under <u>normal circumstances</u> does support a prevalence of such vegetation.



Image courtesy of USDA - NRCS



### **Wetland Conservation Compliance**

- USDA participants self-certify wetland conservation compliance (form AD-1026) with the Farm Service Agency (FSA)
- Self-certifying (AD-1026) may trigger USDA to conduct a <u>wetland determination</u>
- Contact FSA to find if a wetland determination already exists or to initiate the process
- Find you local USDA Service Center (FSA/NRCS Office) at =



Image courtesy of USDA - NRCS

https://www.farmers.gov/working-with-us/service-center-locator



### **Wetland Determinations**

- NRCS staff will conduct wetland determination
- Most determinations are completed offsite, utilizing remote sensing tools
- Onsite visit are made when requested by participant, before withholding USDA benefits, for an appeal, and other instances
- NRCS will complete a wetland determination map by delineating the wetland boundary, documenting the wetland type, and recording the wetland acreage
- If you disagree, a reconsideration can be requested



Image courtesy of USDA - NRCS

### **Questions?**

### Scott Wagner, P.E.

Indiana NRCS State Office 6013 Lakeside Boulevard Indianapolis, IN 46278

Phone: (317) 295-5771 Email: <a href="mailto:scott.wagner@usda.gov">scott.wagner@usda.gov</a>

### Indiana NRCS Webpage:

https://www.nrcs.usda.gov/wps/portal/nrcs/in/home/

### **USDA National Webpage:**

https://www.nrcs.usda.gov/wps/portal/nrcs/site/national/home/



Image courtesy of USDA - NRCS



**Natural Resources Conservation Service**