

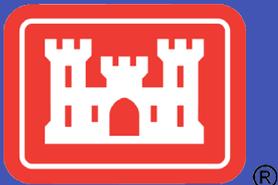
Wetland Delineations and Datasheets

Regulatory Project Managers

Corps Detroit District Regulatory Office

EGLE Bay City District Office

October 17, 2019



US Army Corps of Engineers
BUILDING STRONG[®]



Michigan Department of
Environment, Great Lakes,
and Energy

Delineating Wetlands



- Hydrology
- Soils
- Vegetation

Wetland Hydrology

Evidence of Water



Wetland Soils



Wetland Vegetation



Technical Resources

www.lre.usace.army.mil

ERDC/EL TR-12-1

Environmental Laboratory



US Army Corps of Engineers,
Engineer Research and
Development Center

Wetlands Regulatory Assistance Program

Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0)

U.S. Army Corps of Engineers

January 2012



Approved for public release; distribution is unlimited.

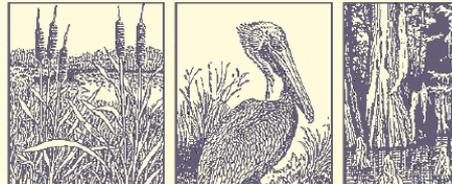


US Army Corps of Engineers
Waterways Experiment Station

Wetlands Research Program Technical Report Y-87-1 (on-line edition)

Corps of Engineers Wetlands Delineation Manual

by Environmental Laboratory



United States Department of Agriculture
In cooperation with the National Technical Committee for Hydric Soils
US Army Corps of Engineers
Engineer Research and Development Center

Field Indicators of Hydric Soils in the United States

A Guide for Identifying and Delineating Hydric Soils, Version 6.0 (2006)



US Army Corps of Engineers
North American Digital Flora:
National Wetlands Plant List

What's New?
NWPL Documents
Quick Start Guide

Wetland Plant Lists
2012 NWPL Published Lists
224 Pages PDF (6.0 mb)
New! U.S. States/Provinces (1.2 mb)
2012 USACE Regional Lists
2012 States / U.S. Territories
FWS 1988 and 1996 NWL Lists

Important Links
Propose a new Species
Information About Plants
Link to NWPL Version 2.4.0
(previous version of our website)

Contact us via Email
Biological Questions
www.usace.army.mil
Website Issues / Feedback
richard.bates@usace.army.mil

NWPL Vials = 136229
Images courtesy of BONAP et al.
Close This Window

Robert W. Lathrop - Director of the NWPL
Map Scale: 1:50,471 M
Lund
Geo Locals: zip code, place, etc

John T. Kettner - Director of BONAP

Wetland Delineation Resources

www.lre.usace.army.mil/Missions/RegulatoryProgramAndPermits.aspx

The screenshot displays the USACE Regulatory Program website interface. It is organized into three main vertical columns. The left column contains a 'Detroit Regulatory Quick' menu with links for Public Notices, Apply For A Permit, Detroit District General Permit Types, Detroit District Regulatory Sourcebook, Regulatory News & Outreach, Contact Us, and Regulatory Customer Survey Form. Below this is an 'Other Detroit Regulatory' section with links for Report Potential Unauthorized Activities, Jurisdictional Determination (JD Service Request), Freedom of Information Act Request (FOIA), and General Information Inquiry. The middle column features a 'Welcome!!' header with a collage of nature images, followed by a 'Welcome to the Detroit District Regulatory Home Page!' section. This section includes a paragraph about the Department of the Army Regulatory Program's mission and a link for 'How do I find another District Regulatory Office?'. Below this is a 'Detroit District Regulatory Actions' section with links for Appeals and Completed Jurisdictional Determinations. The right column is titled 'Regulatory Resources' and lists several key documents and services: USACE Regulatory Headquarters, USACE Great Lakes and Ohio River Division (LRD) - Regulatory, Detroit District Regulatory Resources (which includes links for Regulatory Service Requests, Frequently Asked Questions, Detroit District Navigable Waters List, USACE 1987 Wetland Delineation Manual, Automated Wetland Determination Data Form (Northcentral/Northeast Region), Regional Supplements to Corps Delineation Manual, Mid-West Supplement, Northcentral & Northeast Supplement, and Mitigation), USACE National Wetlands Plant List, and Regulatory Video Library. At the bottom of the right column is an 'Other Agencies' section.

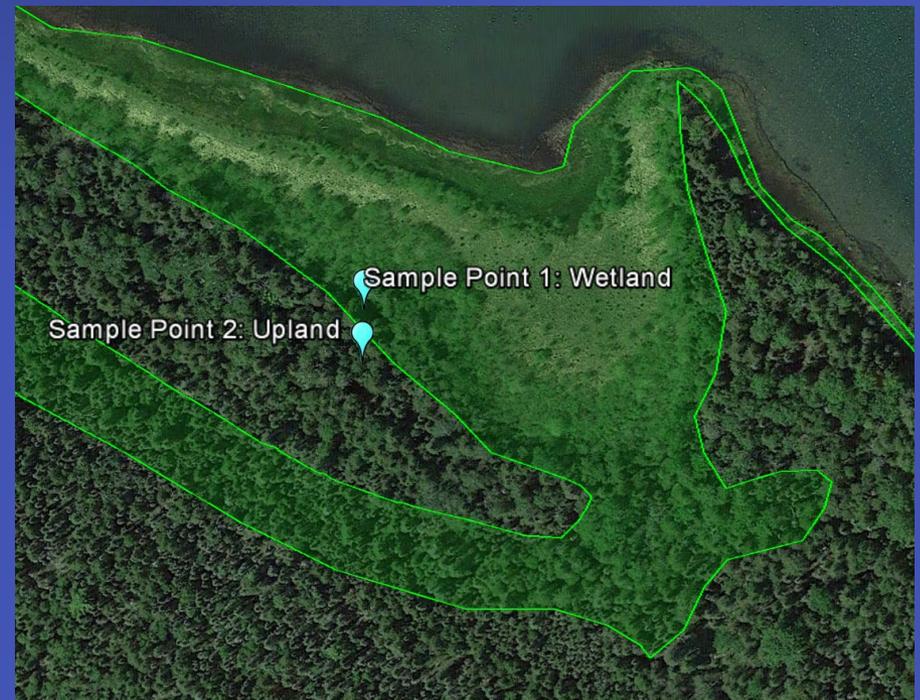
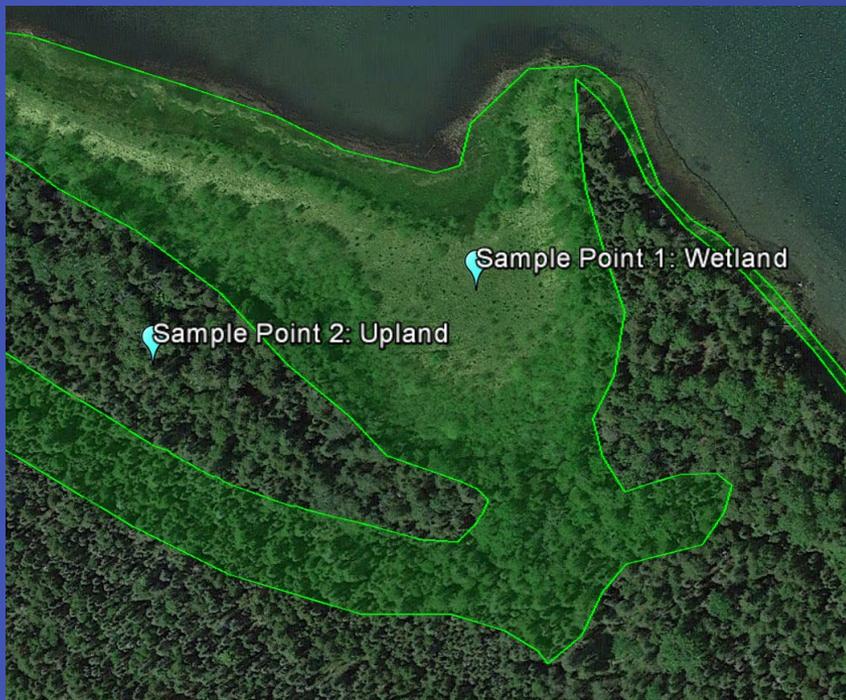
Wetland Determinations & Delineations

- Wetland or upland?
- Verify wetland boundaries



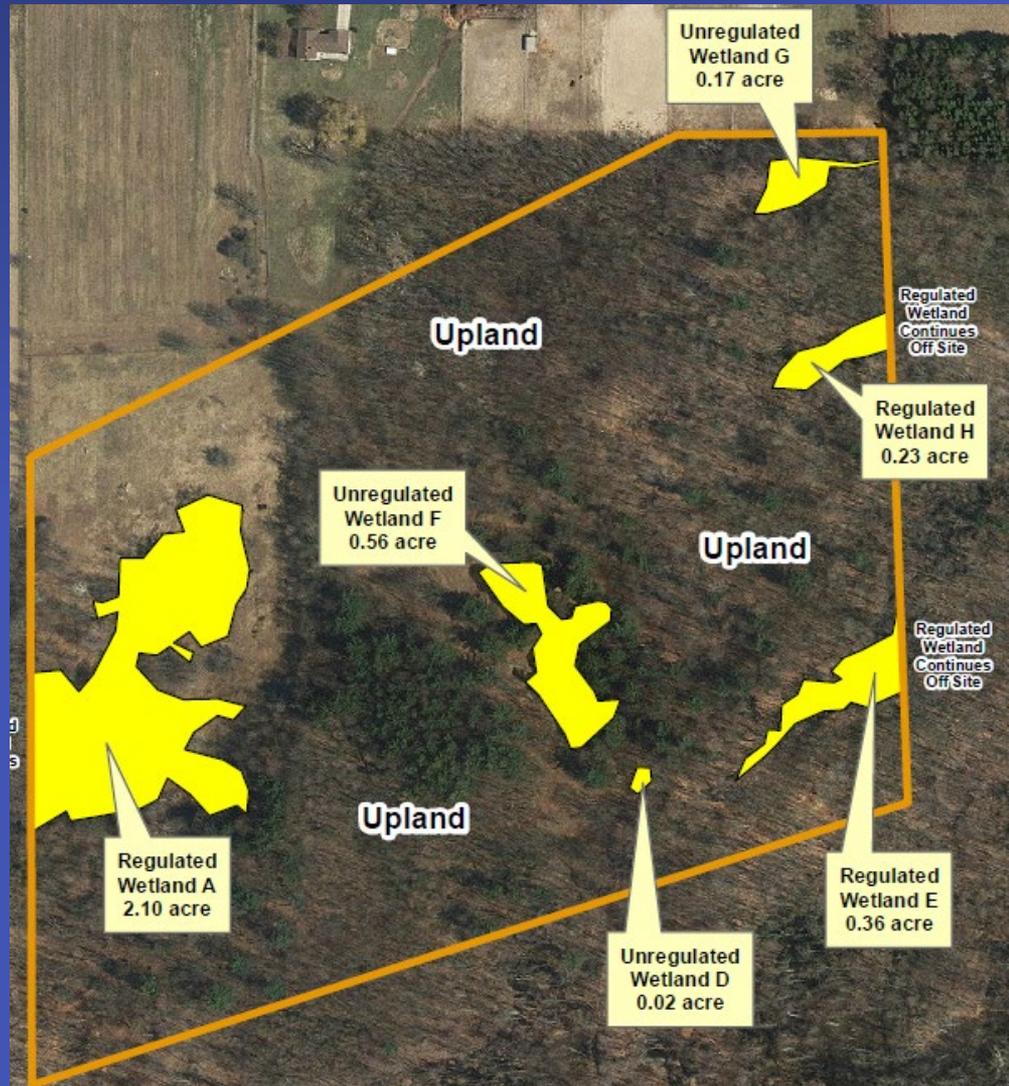
Focus on probable boundaries

- Which tells you more about the wetland boundary location?



Wetland Boundaries

- Regulated wetlands do not stop at property lines.
- Paired sampling points are required to show that wetlands are not connected.

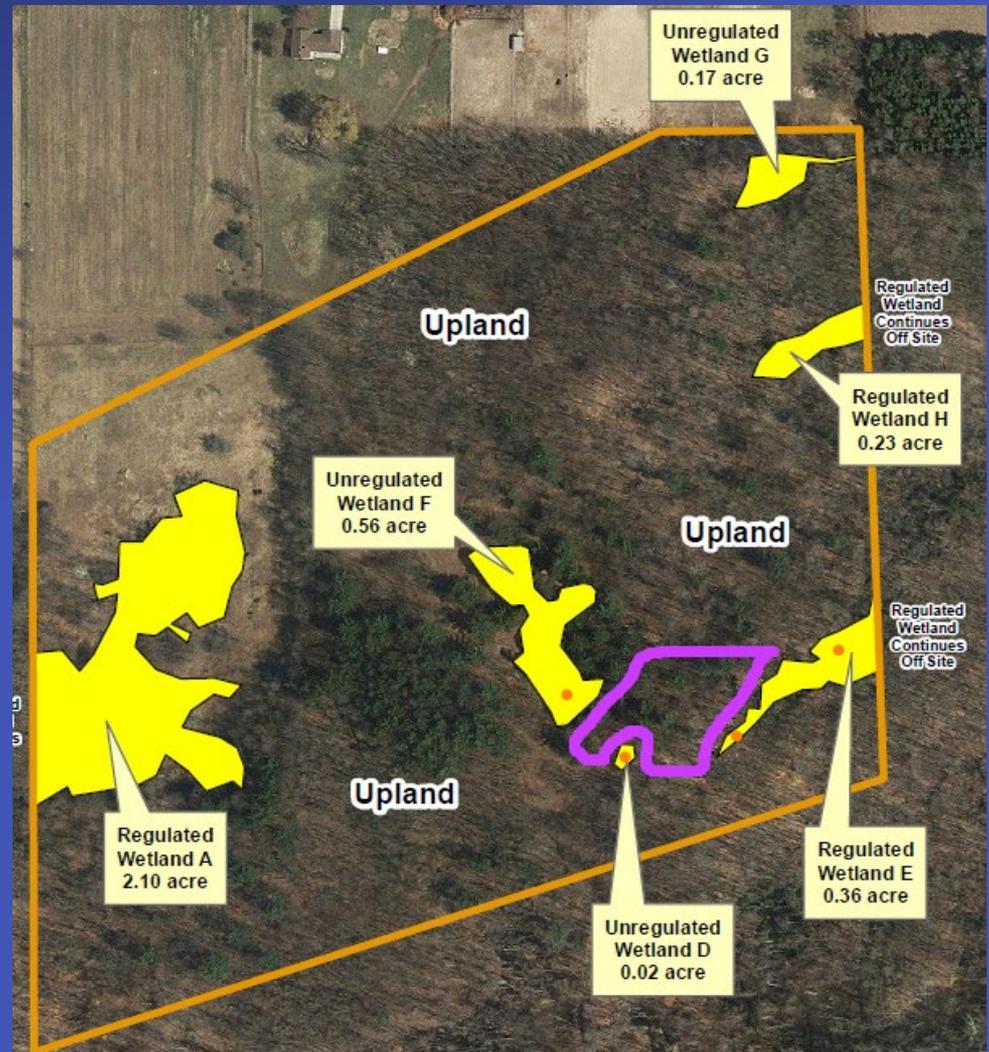


Wetland Boundaries

● = wetland characteristics

👉 = upland characteristics

Both sets of data need to be turned in with an application or delineation.



Atypical Situations: Disturbed Sites



Atypical Situations: Disturbed Areas

- Industrial past
- Covered with fill
- Excavated
- Altered by mowing, plowing, planting, drainage, flooding, etc.

Delineation of Disturbed Areas

- Delineate early in the season
- Use procedures in the manual – and seek additional resources
- Describe the problem in the “remarks” section of the data sheets
- Provide all documentation used to inform your decisions

Automated Data Form

- Microsoft Excel spreadsheet
- Automatically generates wetland hydrology, hydrophytic vegetation, and hydric soil indicators
- Contains the current indicator information
- Printed form looks like the form in the Regional Supplement

Data Sheets: Common Issues

- Correct Data Sheets
- Missing Information – don't leave blanks
- Data point location
 - ▶ Give accurate coordinates
 - ▶ Provide a map
- Inadequate review – if you used the fillable form double check and review
- Use the comments section – you should always share your observations

Use Correct Datasheet

- Midwest or Northcentral/Northeast
 - ▶ Datasheets that predate the regional supplements may not reflect current methodology.
 - ▶ Most recent: Version 2.0
 - ▶ Hydric soil and wetland hydrology indicators may vary
 - ▶ Plant indicator status may vary
 - Refer to USACE National Wetland Plant List for current taxonomy and indicator status

Automated Data Form

- Northcentral/Northeast Region and Midwest Region

<http://www.lre.usace.army.mil/Missions/Regulatory-Program-and-Permits/Automated-Wetland-Determination-Data-Form>



Hydrology Indicators

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Marl Deposits (B15) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Plant Parts (C2) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C3) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C4) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thin Muck Surface (C7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

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): |

- Make sure these two sections are consistent.
- If a water table is present, then saturation is also present, usually a few inches above the water table.
- If surface water is present, a water table is usually present (0 inches depth).

Wetland Verification

- Delineation may be required for application completeness
- Considering wetlands during development of plan helps with avoidance/minimization
- You may be able to avoid wetland impacts (possibly avoiding need for permit – we can help you identify areas to avoid)
- Correctly quantify impacts – minimize delays later in evaluation

Important Distinctions

- The Corps and DEQ are separate regulatory authorities and cannot speak for each other's programs, verify wetland boundaries, or determine jurisdiction.
- **ONLY** the Corps can make a jurisdictional determination for the Corps of Engineers.
 - A consultant can provide a wetland delineation but cannot make a final jurisdiction determination.

Michigan's Wetland Identification Program (WIP)

- EGLE offers wetland delineations to determine the regulated wetlands on the property.
- Keto Gyekis, 517-243-5002, gyekisk@Michigan.gov



Benefits:

Jurisdictional determination

Wetlands are clearly identified for an application

Due diligence for property buy/sell agreements

Michigan's Wetland Identification Program (WIP)

- Level 1: EGLE Wetland inventory maps
- Level 2: On-site review of an identified area, up to five acres, by EGLE staff
- Level 3:
On-site verification of a delineation done by a wetland professional and/or consultant



WIP Fee Structure

- Level 1: EGLE Wetland inventory maps
- Level 2: On-site review of an identified area, up to five acres, by DEQ staff
 - ▶ \$500 for 1st acre, \$250 per additional acre
- Level 3: On-site verification of a delineation done by a wetland professional and/or consultant
 - ▶ \$500 for 1st acre, \$50 per additional wetland acre, \$20 per additional upland acre



Questions?

