Jurisdictional Determinations and Delineating Waters of the United States, including Wetlands

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Rivers and Harbors Act of 1899

- Navigable waters of the United States:
 - "...waters that are subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use to <u>transport</u> interstate or foreign commerce."
 - ▶ Jurisdiction applies laterally over the entire surface of the waterbody.
 - ▶ Jurisdiction is not extinguished by later actions or events which impede or destroy navigable capacity.



Clean Water Act Jurisdiction 33 CFR 328.3 (a)

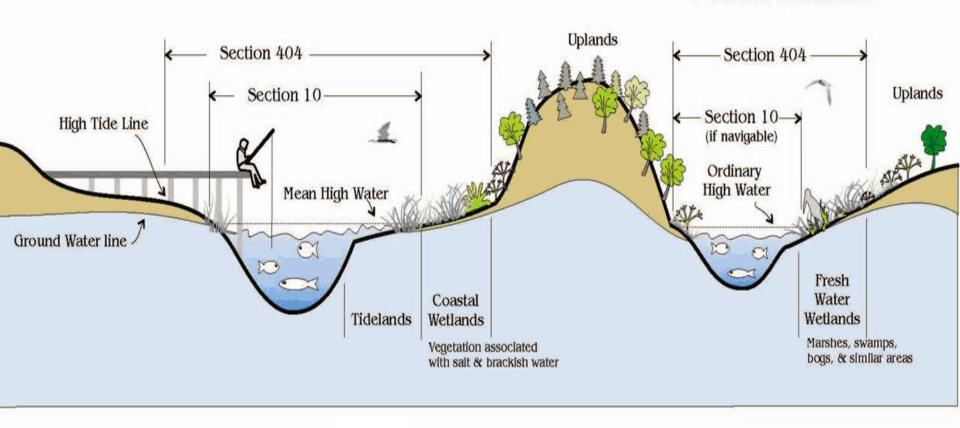
- 1. Waters currently used, used in past, or susceptible for use in interstate or foreign commerce, including waters subject to ebb and flow of the tide
- 2. Interstate waters and wetlands
- 3. Intrastate waters where destruction or degradation could affecting interstate or foreign commerce (HQ approval required)
 - Waters used for recreation or other purposes
 - Waters with fish or shellfish sold in interstate or foreign commerce
 - Waters used for industrial purposes
- 4. Impoundments of waters of the U.S.
- 5. Tributaries to waters in categories 1-4
- 6. Territorial seas (3 miles from shore)
- 7. Wetlands adjacent to waters of the U.S.



Corps of Engineers Regulatory Jurisdiction

Tidal Waters

Fresh Waters



Section 103

Ocean Disposal of Dredged Material

Ocean discharges of dredged material

Section 404

Discharge of Dredged or Fill Material (all waters of the U.S.)

All filling activities, utility lines, outfall structures, road crossings, beach nourishment, riprap, jetties, some excavation activities, etc.

Section 10

All Structures and Work (navigable waters)

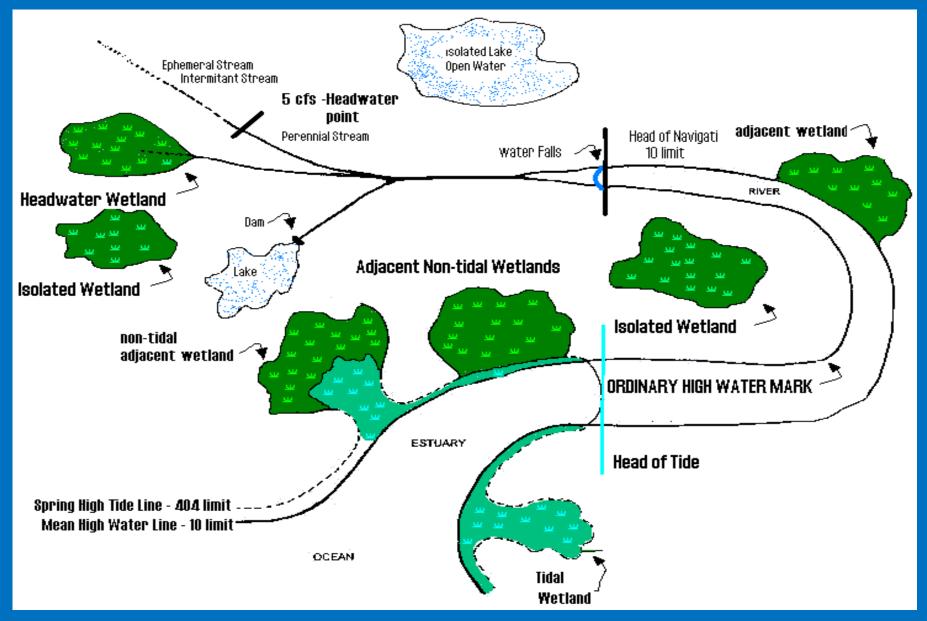
Dreding, marinas, piers, wharves, floats, intake / outtake pipes, pilings, bulkheads, ramps, fills, overhead transmission lines, etc.

Typical examples of regulated activities

Who Does Jurisdictional Determinations?

- District engineers determine:
 - ► Navigable waters of the U.S. (§10)
 - ► Waters of the U.S. (§404)
- Exceptions:
 - ► Division engineer makes navigability determinations
 - ► EPA makes a §404 jurisdictional determination
- 1989 Army-EPA Jurisdiction MOA
 - ► Based on 1979 Attorney General opinion
 - ► EPA has ultimate authority to determine geographic jurisdiction under §404 of the Clean Water Act

Landward Limits of Waters of the United States



1986 Migratory Bird Rule

- Habitat for birds protected under the Migratory Bird Treaties.
- Habitat supporting migratory birds crossing state boundaries
- Habitat for Endangered Species
- Irrigate crops sold in Interstate Commerce



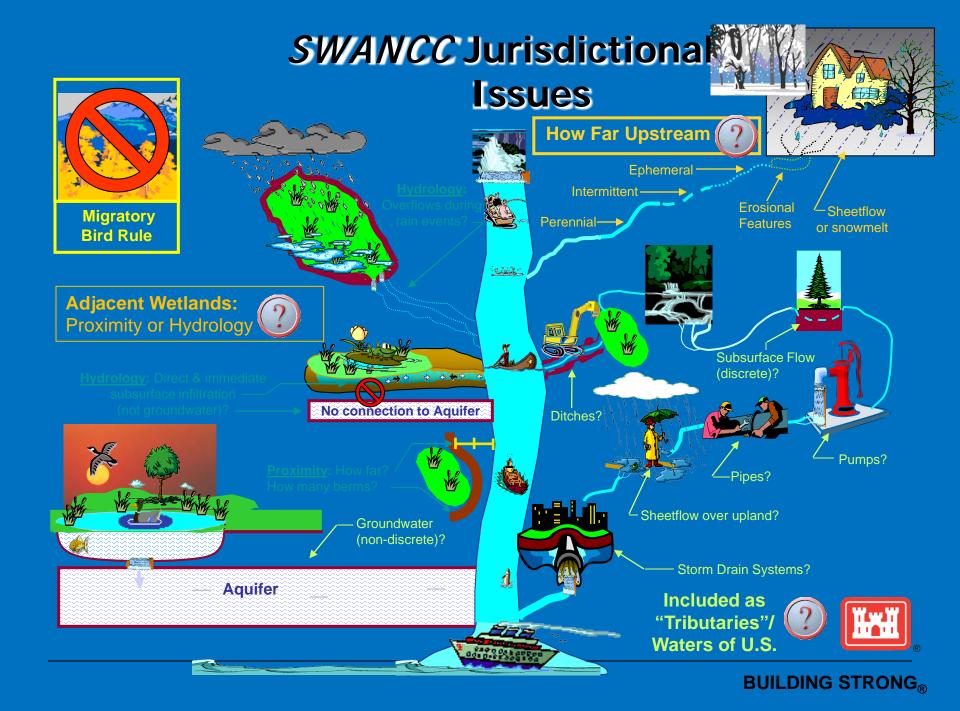
U.S. Supreme Court Cases Shaping Clean Water Act Jurisdiction

- U.S. v. Riverside Bayview (1985)
 - Michigan
 - Wetlands adjacent to a navigable waterbody are subject to CWA jurisdiction
- Solid Waste Agency of Northern Cook County (SWANCC) v. USACE (2001)
 - ► Illinois
 - No CWA jurisdiction over isolated, intrastate, non-navigable waters based on use by migratory birds alone
- Rapanos v. U.S. and Carabell v. U.S. (2006)
 - ▶ Michigan
 - CWA jurisdiction applies to relatively permanent waters connected to traditional navigable waters, plus wetlands with a continuous surface connection to those relatively permanent waters (Plurality opinion)
 - CWA jurisdiction requires finding of significant nexus to traditional navigable waters (Kennedy opinion)



SWANCC Guidance

- Issued on January 15, 2003
- Do not assert CWA jurisdiction over isolated, intrastate, non-navigable waters when sole basis is use by migratory birds
- Field staff need to seek formal, project-specific Headquarters approval before asserting jurisdiction over waters based on (a)(3) factors
 - ► Other waters (usually intrastate), where their degradation or destruction could affect interstate or foreign commerce
 - Recreation
 - Fish and shellfish
 - Industrial use
- Continue to assert jurisdiction over traditional navigable waters and adjacent wetlands, and generally their tributaries (and adjacent wetlands)
- New data forms



SWANCC & Rulemaking

Jan 03: ANPRM solicited public comments on issues associated with CWA jurisdiction

- ▶ Water body reach
- ► Artificial features
- ► Adjacent wetlands
- 130,000 comments received on notice; majority opposed rulemaking
- Dec 03: Announcement to discontinue rulemaking



Rapanos-Carabell Guidance

- Issued June 5, 2007
- Revised December 2, 2008
- Joint guidance issued by Army and EPA
- Retains key principles provided in 2003
 SWANCC guidance
 - ► HQ approval needed to assert (a)(3) jurisdiction
 - Intrastate waters where destruction or degradation could affecting interstate or foreign commerce



Rapanos-Carabell Guidance

- Jurisdictional waters (categorical findings of CWA jurisdiction):
 - ► Traditional navigable waters
 - ▶ Wetlands adjacent to traditional navigable waters
 - bordering, contiguous, neighboring
 - ► Non-navigable tributaries of traditional navigable waters that have relatively permanent flow
 - Flow year round
 - Flow seasonally (e.g., 3 months)
 - Wetlands that directly abut these non-navigable tributaries with relatively permanent flow



Rapanos-Carabell Guidance

- Jurisdictional waters (case-specific significant nexus analysis needed to determine if there is CWA jurisdiction):
 - Non-navigable tributaries that do not have relatively permanent flow
 - e.g., ephemeral streams
 - Wetlands adjacent to non-navigable tributaries that do not have relatively permanent flow
 - Wetlands adjacent to, but not directly abutting, a nonnavigable tributary with relatively permanent flow

CWA TNW Designations

- September 24, 2008, directive from ASA(CW)
- Additional guidance issued on October 16, 2008
- Stand-alone CWA TNW designations under §328.3(a)(1)
 must be elevated to Division Commanders
- ASA(CW) directive only addresses procedures
- Substantive criteria for what constitutes a CWA TNW provided by:
 - ► Appendix D of the Rapanos-Carabell guidance
 - ► December 2, 2008, Rapanos-Carabell guidance (footnote 20)



Revised Rapanos-Carabell Guidance

- December 2, 2008, revision
- Focused on three issues:
 - ► Clean Water Act Traditional Navigable Waters (§328.3(a)(1))
 - ► Definition of "adjacent"
 - ▶ Identifying the "relevant reach"



Clean Water Act Traditional Navigable Waters

- Broader than RHA §10 waters
- They include:
 - Waters determined to be navigable-in-fact by a federal court
 - Waters historically or currently used for commercial navigation
 - e.g., boat rentals, guided fishing trips, water ski tournaments
 - Evidence of susceptibility for use in future commercial navigation
 - Must be more than speculative or insubstantial
 - Clear documentation required (e.g., development plans)
 - Use caution when assessing average annual flows in "flashy waters" – daily gage data provides better representation

Adjacent Wetlands

- Regulatory definition (§328.3(c)) unchanged
 - ...bordering, contiguous, or neighboring. Wetlands separated from other waters of the United States by man-made dikes or barriers, natural river berms, beach dunes and the like are "adjacent wetlands."



Adjacent Wetlands

Three criteria clarifying "adjacent wetlands"

- 1. Wetlands with unbroken hydrologic connection;
 - Connection may be surface or shallow subsurface
 - Connection may be intermittent

or

- 2. Wetlands separated by berm or similar feature(s) from a jurisdictional water;
 - Man-made dikes or barriers, natural river berms, beach dune and the like

or

- Wetlands in reasonably close physical proximity to a jurisdictional water
 - Science-based inference that wetlands have ecological interconnection with jurisdictional waters

Relevant Federal Statutes

- Clean Water Act of 1972 and Amendments
 - ► Authorized EPA and the Corps to regulate certain activities in wetlands and other waters
- Food Security Act of 1985 and Amendments
 - ► Authorized NRCS to make wetland determinations under the Act's "Swampbuster" provisions

Wetland Definition. The CE (Federal Register 1982) and the EPA (Federal Register 1980) jointly define wetlands as: Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

Explicit in the definition is the consideration of three environmental parameters: hydrology, soil, and vegetation. Positive wetland indicators of all three parameters are normally present in wetlands.

Although vegetation is often the most readily observed parameter, sole reliance on vegetation or either of the other parameters as the determinant of wetlands can sometimes be misleading.



Types of Wetlands

 Examples of types of wetlands include perennial or tidal marsh, seasonal wet meadows, seeps, forested wetlands, farmed wetlands and vernal pools.

















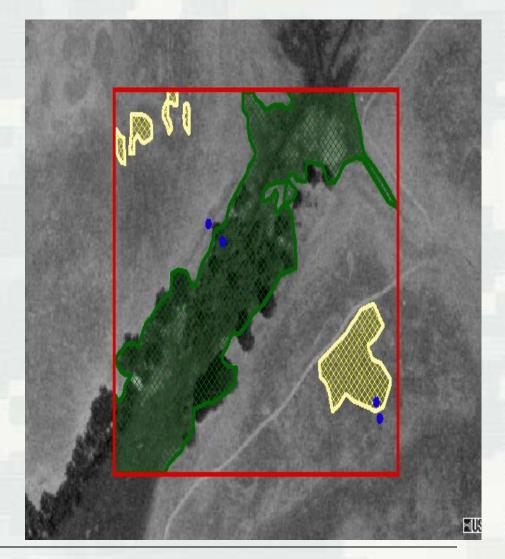
Why Delineate Wetlands and Other Waters of the U.S.

- Help to define the limits of CWA jurisdiction, in accordance with current laws, regulations, and policy.
- Determine the boundary of the wetland, ditch, stream, river, lake, reservoir, playa, mudflat that may be affected by a project, as a first step in impact assessment, alternatives analysis, and mitigation.

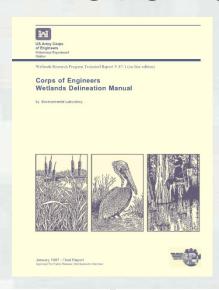


Delineation

- Drawing waters of the United States, including wetlands, on a scaled map.
 - ▶ Minimum standards
- Majority of all wetland delineations are consultant prepared and Corps verified.
- First step in process should be a delineation verified by the Corps.

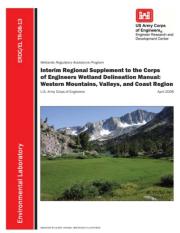


Wetland Delineation Manuals

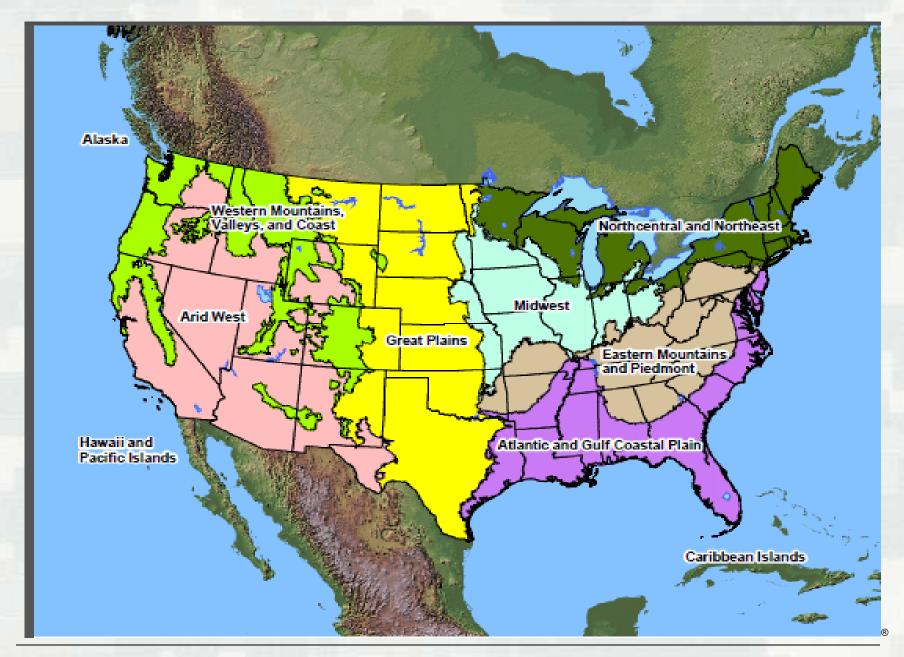


 Corps of Engineers wetland Delineation Manual (1987)
 Technical Report Y-87-1





Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region and Western Mountain



Premise for use of the manual

- 18. Three key provisions of the CE/EPA definition of wetlands include:
- a. **Inundated or saturated soil conditions** resulting from permanent or periodic inundation by ground water or surface water.
- b. A prevalence of vegetation typically adapted for life in saturated soil conditions (hydrophytic vegetation).
- c. The presence of "normal circumstances."

USER NOTES: "Normal circumstances" has been further defined as "the soil and hydrologic conditions that are normally present, without regard to whether the vegetation has been removed." The determination of whether normal circumstances exist in a disturbed area "involves an evaluation of the extent and relative permanence of the physical alteration of wetlands hydrology and hydrophytic vegetation" and consideration of the "purpose and cause of the physical alterations to hydrology and vegetation." (RGL 90-7, 26 Sep 90; HQUSACE, 7 Oct 91)



Wetland Characteristics 3 - Parameters

Hydrophytic Vegetation

- Dominated by species that are tolerant of prolonged inundation or soil saturation

Soils

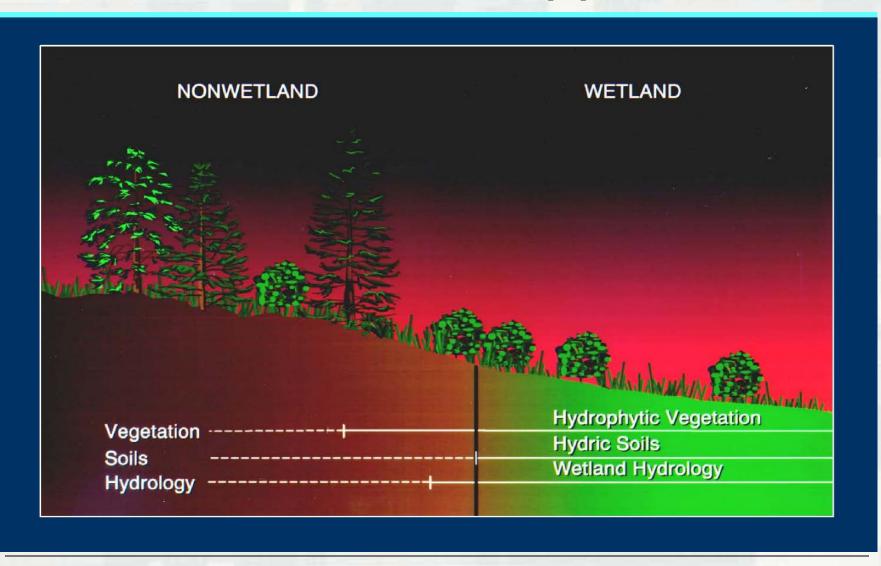
- Exhibit characteristics that develop under permanent or periodic soil saturation

Hydrology

- Evidence of ongoing wetland conditions, typically about 2 weeks in this region



3 - Parameter Approach



Steps to Delineate a Wetland

- Collect Background Information
- Prepare Equipment and Materials
- Conduct Site Visit
- Prepare Report & Drawings
- Submit to Army Corps for Jurisdictional Determination Letter



Delineation Report Minimum Standards

http://www.spk.usace.army.mil/

MINIMUM STANDARDS FOR ACCEPTANCE OF PRELIMINARY WETLANDS DELINEATIONS

November 30, 2001

The Regulatory Branch of the Sacramento District, U.S. Army Corps of Engineers (District), receives numerous requests to perform wetlands delineations for potential applicants for permits under Section 404 of the Clean Water Act. Due to limited staff and resources, the response time can be several months or longer. To expedite this process, the District encourages applicants to use consultants to conduct preliminary wetlands delineations, especially for large and/or complex areas. Preliminary delineations may then be submitted to the District for review and verification.

While accurate delineations by qualified individuals have resulted in a quicker review and response from the District, substandard or inaccurate delineations have resulted in unnecessary time delays for applicants. These delays are due to insufficient, incomplete, or conflicting data, which prevent the District from verifying the proposed wetland boundaries. Such delineations must be returned by the District to the applicant or consultant for revision.

To improve the quality and consistency of delineations, the District has developed minimum standards necessary for accepting a delineation for verification of the jurisdictional boundaries. Any submittal that does not meet these requirements will be returned to the applicant or consultant. All deficiencies must be corrected by the applicant or a consultant prior to re-submittal.

A. MINIMUM REQUIREMENTS

The preliminary wetlands delineation report shall include:

- A statement that the delineation has been conducted in accordance with the 1987 "Corps of Engineers Wetlands Delineation Manual."
- A narrative describing the wetlands.
- Justification for the wetlands boundaries.
- ☐ The total acreage of the project site.
- Existing field conditions such as season and flood/drought conditions.
- A discussion of the hydrology source(subsurface or surface, including potential irrigation influence)
 and drainage gradients
- A site location map, preferably outlined on a 7.5-minute USGS quadrangle, along with any other
 pertinent maps of the site. The map must provide the name of the USGS quadrangle, Section,
 Township, Range, and UTM or latitude and longitude.
- Directions to the site.
- Contact information for the applicant(s) and property owner(s).
- A discussion of plant communities and habitat types present on the site and a list of the scientific name, common name(s), and indicator status of all plants.
- Soil descriptions, soil map(s), and a list of hydric soils or soils with hydric inclusions on the site.
- Any observed and/or documented examples of an interstate or foreign commerce connection.
 Examples include, but are not limited to:
 - · Recreational or other use by interstate or foreign travelers.
 - · Sale of fish or shellfish in interstate or foreign commerce.
 - Use by industries, including agriculture, operating in interstate or foreign commerce.
- A delineation map at an appropriate scale (for most projects, a scale of one inch to 100 or 200 feet).

MINIMUM STANDARDS FOR ACCEPTANCE OF PRELIMINARY WETLANDS DELINEATIONS

The map should not exceed one inch to 400 feet unless there are extenuating circumstances. (Note: map scales must be accurate and in round numbers, any maps using a photographic base must be corrected for distortions, and any overlays must be of identical scale) The map must include:

- The boundary of the entire project area.
- All features which meet the criteria for wetlands or other waters of the United States.
- Color or thatched coding of the different wetlands types present.
- Topography.
- Clearly and accurately identified data point locations and the location and identification number of surveyed or GPS established flags, stakes, or wetland boundaries.
- All waters of the U.S., including but not limited to, interstate waters, tributaries, wetlands,
 and all other waters such as intrastate lakes, rivers, streams, and mudflats as described in 33
 CFR 328.3, must be shown on the delineation map. Those features which meet wetlands
 criteria or are potential waters of the U.S., but which may be isolated and lacking an interstate
 or foreign commerce connection or non-jurisdictional for other reasons must still be shown
 on the map. Any justification for the Corps to make a non-jurisdictional determination
 should be provided in the report.
- Standard mapping conventions (e.g., north arrow, location map, etc.) and other identifying
 features which facilitate the correlation of map locations with ground features (e.g.,
 buildings, fence lines, roads, right-of-ways, trees, streams, topographic features, etc.).
- A reference block which identifies the project, the delineators, surveyors, date of initial preparation and date(s) of any revisions.
- Individual numbers or other designations for each water feature identified.
- A table displaying the respective size (in acres) of each water and the cumulative acreage of each type of water.
- Data sheets completely and appropriately filled out. Data forms may be modified from the Corps' standard version, but they must present all essential information necessary to make a wetlands/nonwetlands determination.
- At least one set of paired data points documented for each feature or complex. Additional data forms may be necessary depending on various factors including the size and shape of the wetlands on the site, difficulty in identifying a precise wetlands/uplands boundary, and the width of any transition zones.

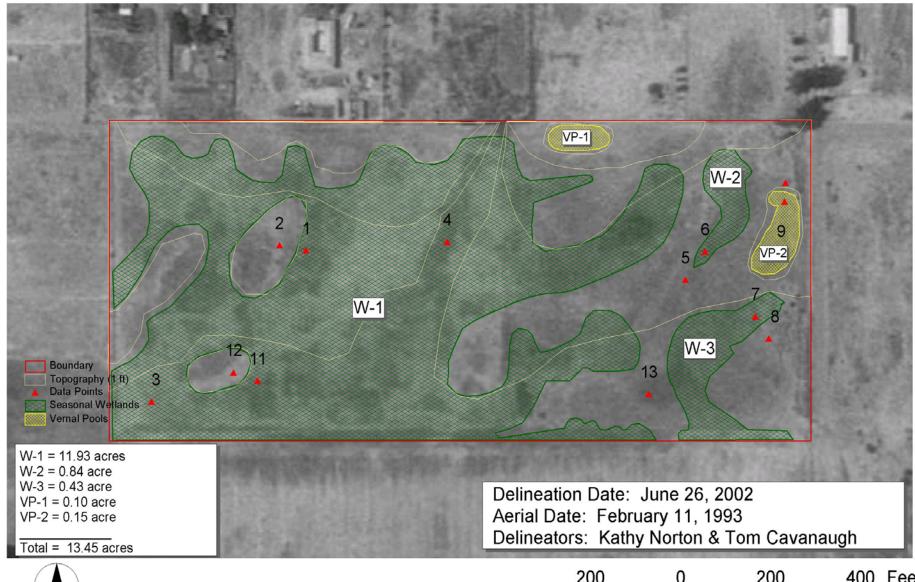
Additionally, before the Corps can complete its verification of the delineation, wetland boundaries must be marked with flags or stakes. Flags or stakes must be individually numbered and surveyed by traditional methods or by GPS equipment accurate to less than one meter. The survey data must specify the geographic coordinate system used in referencing the data, including projection and datum (e.g., Latitude-Longitude: NAD-27 or UTM - Zone 10: NAD83). Data should be provided in a digital geographic information system (GIS) format to expedite review, with ESRI Shapefiles being the preferred format. The Corps also strongly recommends that property boundaries be flagged or staked and surveyed.

Additional information often can expedite a wetland verification. Particularly helpful data includes topographic maps, aerial and ground photographs, and related reports. Expanded narrative reports may also clarify the investigation. However, the Corps emphasizes that these reports should be succinct with only the relevant information presented. Irrelevant, verbose, or perfunctory information will only delay the Corps' evaluation.

Minimum Standards for Wetland Delineations

- Wetland delineation reports should justify and document the rationale for the wetland boundaries drawn on the map.
 - ► At least one set of paired points documented for each feature or complex in the right places!
 - ► All info used in the delineation should be included in the report (e.g. Aerial & topographic maps)

Davenport - Juniper





200 400 Fee 200

Background Information

- Manuals Identifying Protocol
- USGS Maps
- Aerial Photos: Google and Bing Maps now have bird's eye view photos
- National Wetland Inventory (NWI Maps)
- NRCS Soils Maps Web Soils Surveys
- FEMA Flood Insurance Rate Maps



Off-Site Methods

Available office data can be used:

- To provide background and supporting information to plan and carry out an onsite wetland delineation
- To determine presence of wetlands and draw approximate wetland boundaries when it is not possible to visit the site or when study objectives are limited

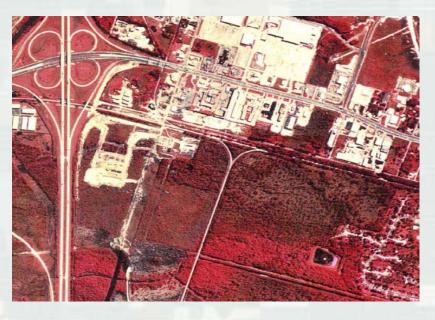
Off-Site Methods

Off-site procedures are described in:

- Corps of Engineers Wetlands Delineation
 Manual (Part IV, Section D, Subsection 1)
- National Food Security Act Manual (Parts 513 and 514) in combination with state wetland mapping conventions



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



Aerial photography (e.g. Google Earth, Bing Maps)



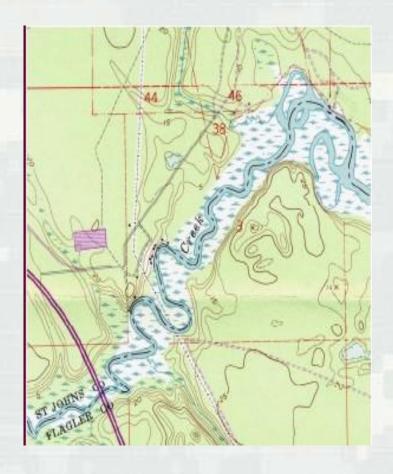




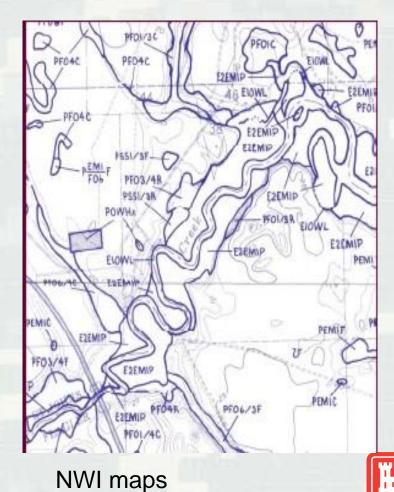




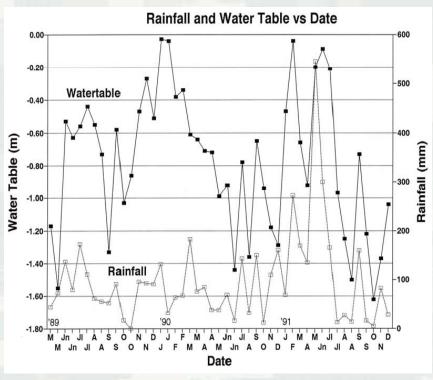




USGS topographic maps





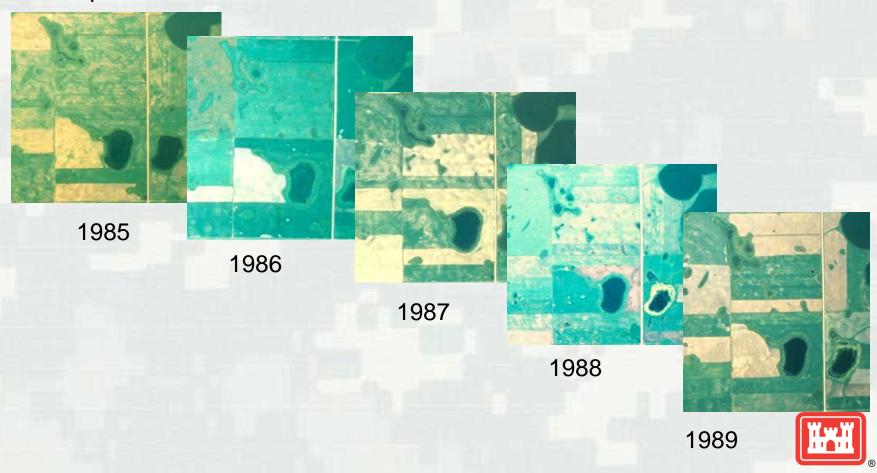


Hydrologic data

(if available)



Consolidated Farm Services Agency annual cropcompliance slides







Draft Environmental Impact Statement on the Special Area Management Plan for the Hackensack Meadowlands District, NJ

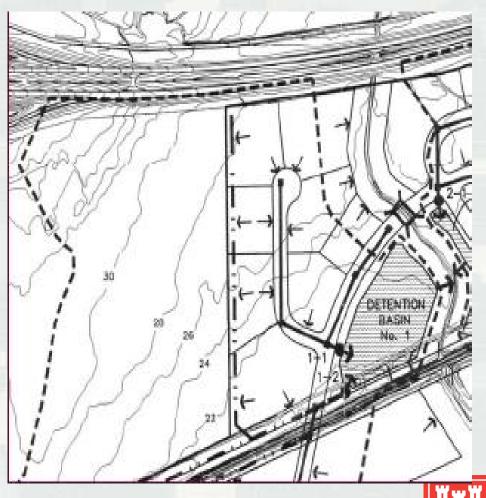
June 1995



Its partnership with:

National Oceanic and Atmospheric Administration New Jensey Department of Environmental Protection Hackensack Meadowlands Development Commission

Existing environmental impact statements

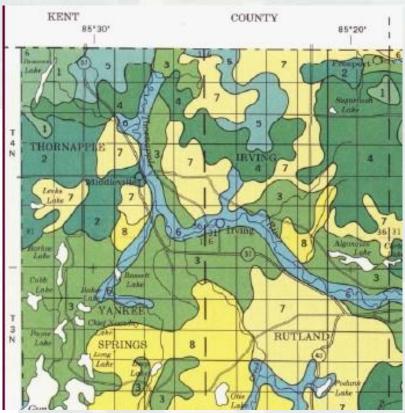


Soil Survey Reports

SOIL SURVEY OF
Larimer County Area, Colorado

Islands of Kauai, Oahu, Maui,
Molokai, and Lanai,
State of Hawaii







United States Department of Agriculture Soil Conservation Service In cooperation with The University of Hawaii Agricultural Experiment Station

General soils map



Data Sources on the Web

USGS maps, photos, data:

http://ask.usgs.gov/

NWI maps:

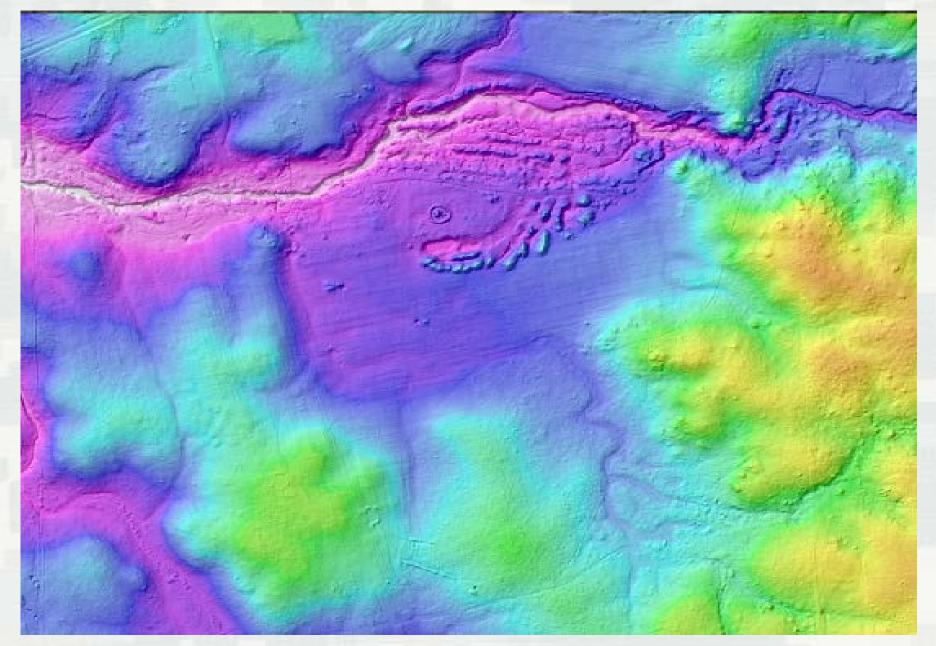
http://www.fws.gov/wetlands/Data/Mapper.ht ml

Soil survey reports and data:

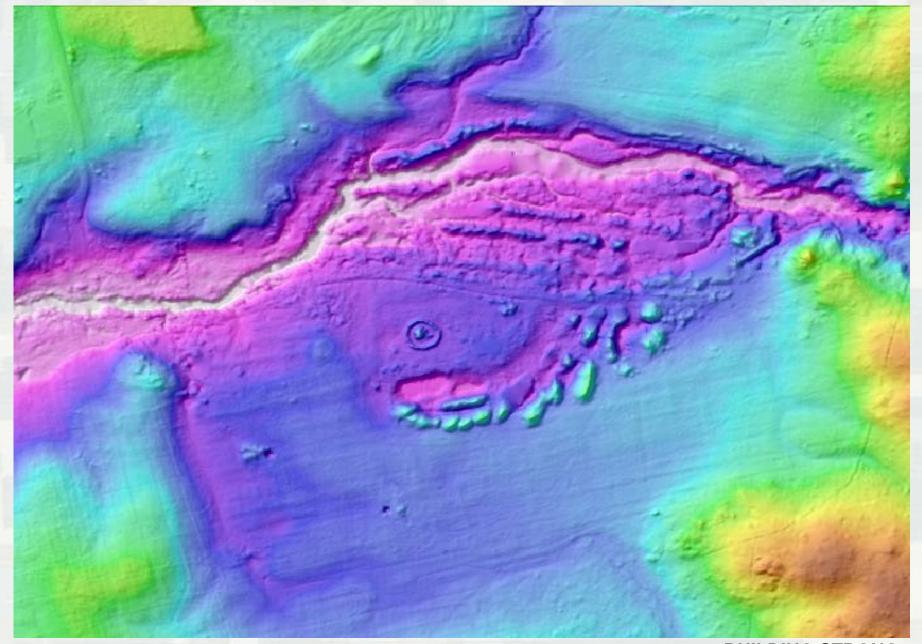
http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm



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Equipment and Materials for the **Field**

- Base Map or Aerial Photo
- Copies of Wetland Data Sheet
- National List of Plant Species that Occur in Wetlands
- Hydric Soils List
- Spade, Auger, Probe
- Spray Water Bottle to Moisten Soils
- Munsell Color Book
- **Tape Measure**
- Flagging













Wetland Delineation Methods

- Routine In general based on visual estimates of percent cover of plant species made either within the vegetation unit as a whole or within one or more sampling plots in representative locations
- Comprehensive A detailed delineation requiring the collection of quantitative data



Routine Methods

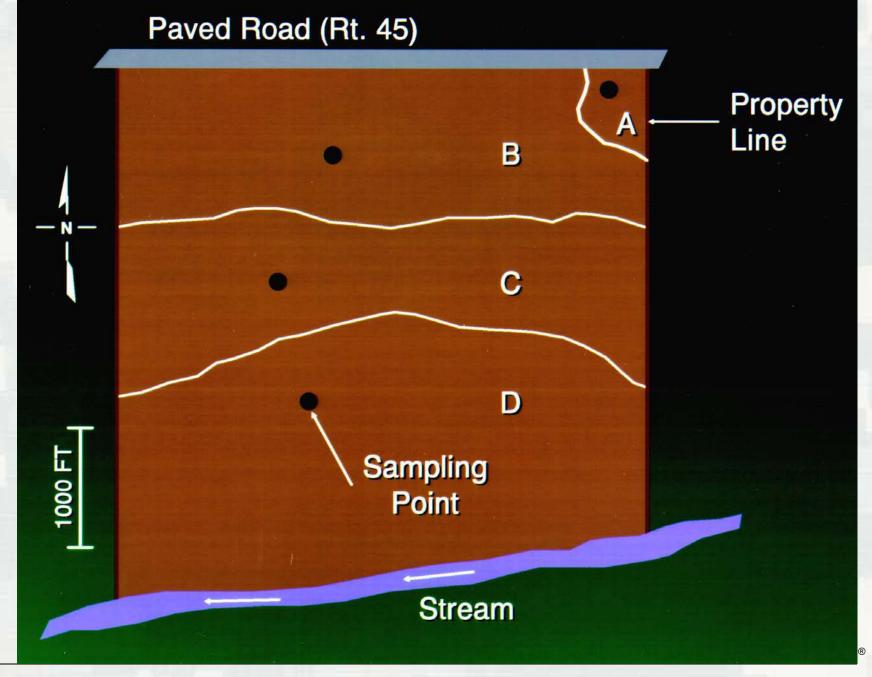
Use the routine method for small areas when:

- Project area is small (<5 acres)
- Plant communities are homogeneous
- Plant community boundaries are abrupt
- Project is not controversial



Routine Method Steps

- Step 1. Locate the project area
- Step 2. Is the area disturbed such that procedure for Atypical Situations must be used?
- Step 3. Select a sampling approach (small or large area)
- Step 4. Identify and map the plant community types
- Step 5. Determine whether "normal environmental conditions" are present (i.e., is it a potential Problem Area wetland?)
- Step 6. Select a representative observation point in each plant community



Routine Method Steps cont.

- Step 7. Visually select dominant species from each stratum of the community
- Step 8. Record the indicator status of each dominant species
- Step 9. Determine whether the vegetation is hydrophytic





US Army Corps of Engineers

North American Digital Flora: National Wetland Plant List



Partners

US Army Corps

of Engineers

The NWPL has been made available for use. Click here to download NWPL 2012 Plant Lists

Version 3.0 of the NWPL website is now available for use. Please bookmark: http://wetland_plants.usace.army.mil

ABOUT NWPL OVERVIEW NWPL NOMENCLATURE ACKNOWLEDGEMENTS CITATION INFORMATION



ALL BOTANICAL SEARCHES

DOWNLOAD PANEL MEMBERS **R3 EXTERNAL BOTANIST VOTERS** FWS 1988 AND 1996 LISTS

NWPL and **NTCWV** Documents

ADMINISTRATION

HELP USING THIS WEBSITE

Final Federal Register Notice NWPL Release Announcements.



























Images courtesy of BONAP et. al.





Questions or Comments? Contact us!

Wetland Vegetation Is Present When...

 More than 50% of dominant species across all strata are OBL, FACW, or FAC

or

The prevalence index is 3.0 or less

or

 There are morphological adaptations and problematic conditions explained in the remarks section of the data sheet

Remember '+' and '-' modifiers are not used in hydrophytic vegetation indicators and hydric soils and hydrology must be present to use the prevalence index unless the site is problematic



Regional Supplement Data Form

VEGETATION - Use scientific names of plants.

	Absolute		nt Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1			? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		17 -		Total Number of Dominant 2
3			-	Species Across All Strata: (B)
4				Percent of Dominant Species 100
Sapling/Shrub Stratum (Plot size:)	0	= Total C	Cover	That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2		W		Total % Cover of: Multiply by:
3				OBL species x 1 =
4	- 100	-		FACW species x 2 =
5				FAC species x 3 =
200	-	= Total C	Cover	FACU species x 4 =
Herb Stratum (Plot size: 2m) Reed canary grass (Phalaris arundinacea)	F O	Voo	OBL	UPL species x 5 =
	50	Yes	OBL	Column Totals: (A) (B)
2Narrowleaf Cattail (Typha angustifolia)	20	Yes	OBL	
3Annual ragweed (Amborsia artemisiifolia)	10		<u>FACU</u>	Prevalence Index = B/A =
4Rabbitsfoot grass (Polypogon monspeliensis)	5		FACW	Hydrophytic Vegetation Indicators:
5				X Dominance Test is >50%
6		ii .		Prevalence Index is ≤3.01
7				Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	85%	- Total C	20105	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)	_0070	_ = Total C	over	
1.				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		V 02101101010100		Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cov	er of Biotic C	rust		Present? Yes No
Remarks:	orgo merel	h \/oc-	totion in rol	huot
Wetland vegetation near edge of a I	arge marsi	n. vege	tation is ro	bust.



US Army Corps of Engineers

Arid West - Version 2.0

Routine Method Steps cont. for Hydrology

 Step 10. Record indicators of wetland hydrology

 Step 11. Determine whether wetland hydrology is present



Wetland Hydrology Indicators

■ Primary Indicators: 1 required — Surface Water, High Water Table, Saturation, Water Marks, Sediment Deposits, Drift Deposits, Surface Soil Cracks, Inundation Visible on Aerial Imagery, Water Stained Leaves, Salt Crust, Biotic Crust, Aquatic Crust, Aquatic Invertebrates, Hydrogen Sulfide Odor, Oxidized Rhizospheres, Presence of Reduced Iron, Recent Iron Reduction in Tilled Soils, Thin Muck Surface



Wetland Hydrology Indicators

Secondary Indicators: 2 or more required – Water Marks (riverine), Sediment Deposit (riverine) Drift Deposit (riverine), Drainage Patterns, Dry-season Water Table, Crayfish Borrows, Saturation Visible on Aerial Imagery, Shallow Aquitard, FAC-Neutral test (OBL + FACW) > (FACU + UPL)



Weather and Site Condition Considerations

- What time of year are you visiting the site?
- Consider recent rain events. Did it rain immediately before your site visit and how much has it rained?
- Has long-term precipitation been normal?
- Is the site irrigated?



Evaluating Normal Rainfall

WETS tables

- USDA National Water and Climate Center
- Analyze monthly precipitation data from >8,000
 National Weather Service stations
- Based on a standard 30 years of rainfall data
- Provide monthly and annual thresholds for:
 - ► Below normal rainfall (lowest 3 years in 10)
 - ► Above normal rainfall (highest 3 years in 10)

Hydrology Section of Datasheet

HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)				
Surface Water (A1)	_ Salt Crust (B11)	Water Marks (B1) (Riverine)		
X High Water Table (A2)	_ Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)		
X Saturation (A3)	_ Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)		
Water Marks (B1) (Nonriverine)	_ Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
Sediment Deposits (B2) (Nonriverine)	_ Oxidized Rhizospheres along Livir	ing Roots (C3) Dry-Season Water Table (C2)		
Drift Deposits (B3) (Nonriverine)				
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled Sc	oils (C6) Saturation Visible on Aerial Imagery (C9)		
Inundation Visible on Aerial Imagery (B7) _	_ Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Water-Stained Leaves (B9)	_ Other (Explain in Remarks)	X FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes No	Depth (inches):			
Water Table Present? Yes X No	Depth (inches): 12 inches			
Saturation Present? Yes X No No	Depth (inches): 8 inches Wetland Hydrology Present? Yes X No			
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previous inspec	ctions), if available:		
Aerial photos				
Remarks: Soils saturated in upper part of profile. Surface water was observed near the sample point approximately 25 feet to the north.				

US Army Corps of Engineers Arid West – Version 2.0

Routine Wetland Method Cont. for Hydric Soils

- Step 12. Determine whether the soil must be characterized. The soil is assumed to be hydric if:
 - All dominant species are OBL, or
 - All dominants are OBL or FACW and the wetland boundary is abrupt
- Step 13. If needed, dig a soil pit (at least 20 inches deep)

Hydric Soils

Hydric soil – is 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.

Saturation or inundation, when combined with microbial activity in the soil, causes the depletion of oxygen. This promotes certain biogeochemical processes, such as the accumulation of organic matter, and the reduction, translocation, or accumulation of iron and other reducible elements.

Soils



In cooperation with the National Technical Committee for Hydric Soils



Commisse for Hydric 3

Field Indicators of Hydric Soils in the United States

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



NRCS Field Guide



Depleted Soil



Redoxomorphic features



Soil Profile Description

- Matrix Soil Color All Soil must be moist (Hue value/chroma)
- Matrix Percent What percent of the soil profile is that color
- Redox Features If present record the color of the redox feature
- Redox Percent Record the percent of redox features in the soil
- Redox Type Location Concentration, depletion, reduced matrix, covered or coated sand grains and location either in the matrix or pore lining of roots
- Texture Loamy, Sandy or Clayey

Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 3/1	100					Loamy	
9-20	10YR 4/1	95	10YR 5/6	5	С	M	Loamy	Redox Prominent
	9 2			200				
		200		220	50 64		2 22	
	3 %	20 at 1		242.	TO 28			
		191. al. i	_		#5			
	•			-1.20				
	9 81	-37		****	N <u>e</u>		¥ :	



Soil Indicators

 Once you have the soil description read through the soil indicators to see it one or more fit the soil profile description. Be sure to include if any restrictive layers were present and remarks that further describe the soil.

Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
 Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) 	 Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) 	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if present): Type: None	<u> </u>	V
Depth (inches): N/A		Hydric Soil Present? Yes X No
Remarks: Soil meets indicator criteri	a. In addition, soil is in OBL domin	ated vegetation sample point.

Finalizing the Datasheet

WETLAND DETERMINATION DATA FORM – Arid West Region

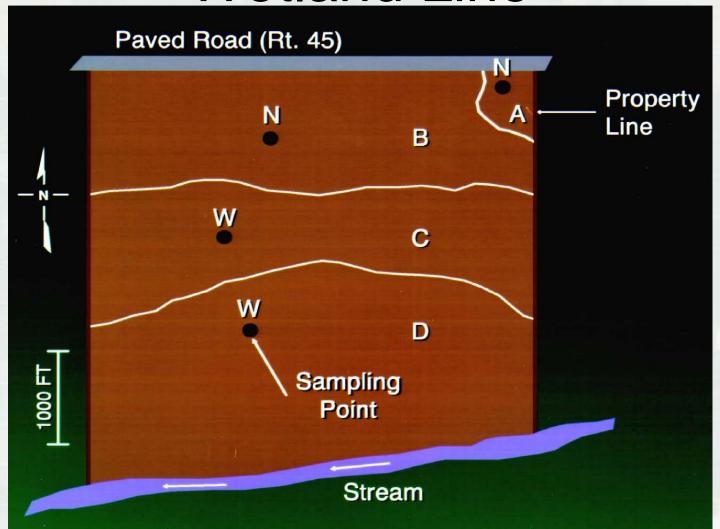
Project/Site: Big Development	City/County: Utah Sampling Date: June 12, 2011			
Applicant/Owner: Mr. Big	State: UT Sampling Point: 1			
Investigator(s): Mr. Consulting	Section, Township, Range: 10, T 5 South, R 2 East			
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none): CONCAVE Slope (%): 2			
Subregion (LRR): D Interior desert Lat: 4	41.1234 Long: -111.1234 Datum:			
Soil Map Unit Name: <u>Ironton Silt Loam</u>	NWI classification: PEM			
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No (If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology significantly	v disturbed? Are "Normal Circumstances" present? Yes No			
Are Vegetation, Soil, or Hydrology naturally pro				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes X Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes No			
Remarks:				

Wetlands Delineations Cont.

- Step 14. Flag the site
- Step 15. Survey or GPS locate the wetland flagging and create a wetland delineation map
- Step 16. Prepare a delineation report
- Step 17. Submit to the Corps for verification

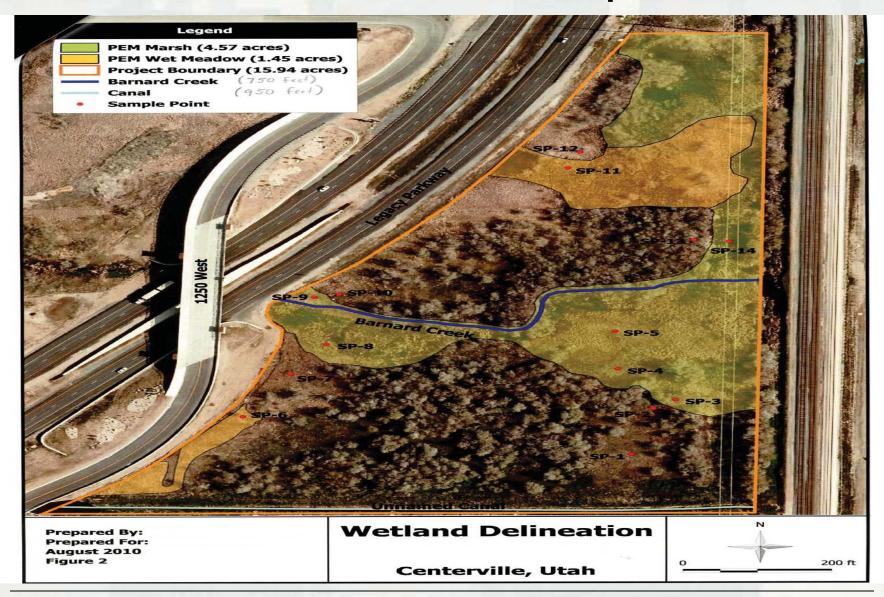


Finalizing and Flagging the Wetland Line





Delineation Map



Routine Method for Large Areas

Establish a baseline

Determine the number and position of transects

Sample points along the first transect:

Determine whether "normal environmental conditions" are present

Establish an observation point in the first plant community, characterize vegetation, soil, and hydrology, and record

Make the wetland determination at that point

Sample remaining points on that transect

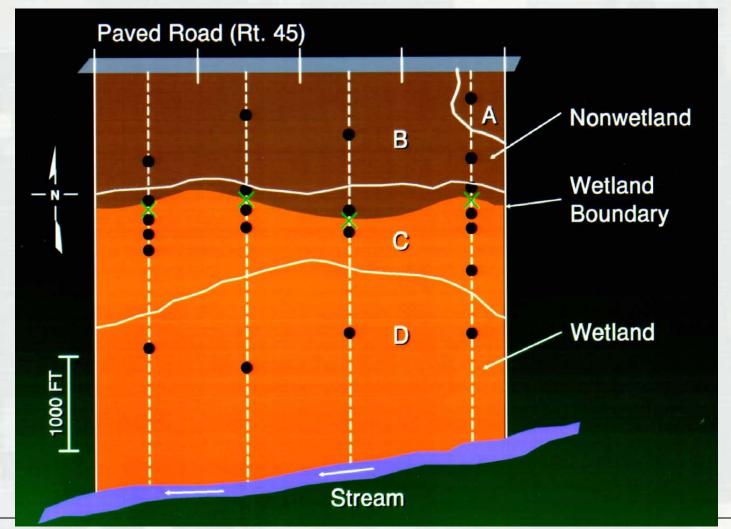
Determine the wetland boundary between points

Sample the remaining transects, synthesize data

Determine the wetland boundary between transects



Additional Sample Points Depending on Site Complexity





Is this a seasonal wetland or a vernal pool?



Goldfields, Lasthenia fremontii



Horned downingia Downingia bicornuta

Common Vernal Pool Plant **Species**



Wooly marbles Psylocarphys sp.



Vernal pool monkeyflower Mimulus tricolor



Blow wives Achyrachaena mollis



Coyote thistle Eryngium vaseyi



Butter and eggs Tryphysaria eriantha



Field owl's clover Castilleja campestris



Vernal pool dodder Cuscuta howelliana



White-tipped clover Trifolium variegatum



Dwarf sack clover Trifolium depauperatum



Spikerush,



Blennosperma nannum



Popcorn flower **Plagiobothrys** stipitatus



VP buttercup Ranunculus bonariensis



Lasthenia glaberima



Navarretia leucocephala



Tidy-tips Layia fremontii



White meadowfoam Limnanthes alba

Problem Areas/Atypical Situations

- Atypical Situations: Wetlands affected by or induced by recent human activities or natural events.
- May include unauthorized activities (e.g., filled wetlands), natural events (e.g., beaver dams) and man-induced wetlands (e.g., road fill impounds water)
- Problem Areas: Wetland types or conditions which make application of one or more parameter difficult.
- Includes periodic lack of parameter (e.g., hydrology) due to normal seasonal or annual variations in environmental conditions which result from causes other than human activities or catastrophic events (e.g., seasonal wetlands, including vernal pools)

Common Atypical/Difficult Situations

- Wetlands in irrigated areas
- Drainage ditches
- Channelized streams
- Isolated wetlands
- Farmed wetlands





12510-SPD SOUTH PACIFIC DIVISION REGULATORY PROGRAM WETLANDS DETERMINATION AND DELINEATION PROCEDURES FOR IRRIGATED LANDS



South Pacific Division

Table of Contents

- 1.0 Purpose
- 2.0 Applicability
- 3.0 References
- 4.0 Related Procedures
- 5.0 Definitions
- 6.0 Responsibilities
- 7.0 Procedures
- 8.0 Records & Measurements
- 9.0 Attachments
- 10.0 Flow Chart

1.0 Purpose.

To provide guidance for determining whether, and to what extent, wetlands occurring on irrigated land would persist in the absence of irrigation and meet the definition of wetlands under the 1987 Corps of Engineers (Corps) Wetland Delineation Manual (1987 Manual) and the appropriate regional supplement.

12500-SPD SOUTH PACIFIC DIVISION REGULATORY PROGRAM IRRIGATED WETLANDS DELINEATION PROCEDURES

1.0 Purpose.

To provide guidance for determining whether, and to what extent, wetlands occurring on irrigated land would persist in the absence of irrigation and meet the definition of wetlands under the 1987 Corps of Engineers Wetland Delineation Manual, including the appropriate regional supplement, and thus be potentially subject to jurisdiction under Section 404 of the Clean Water Act (CWA).

2.0 Applicability.

This memorandum applies to jurisdictional determinations made by South Pacific Division (SPD) subordinate Districts for wetlands which may be supported in whole or in part by irrigation water ("irrigated wetlands"). This includes, but is not limited to areas in rice production and irrigated pastureland.



IRRIGATED WETLANDS

This guidance is intended solely to address identifying wetlands that would exist, absent irrigation. It is not intended to address the jurisdictional status of any wetlands nor issues relative to permitting work in such wetlands or mitigating impacts to such wetlands.

This guidance is intended to be consistent with all applicable Corps of Engineers delineation standards. Delineations, verifications and subsequent jurisdictional determinations within SPD are based on a preponderance and a synthesis of all of the available data in accordance with Corps regulations and standards, including those listed below. If any conflict arises, existing Corps regulations, guidance and standards take precedence.





Resources



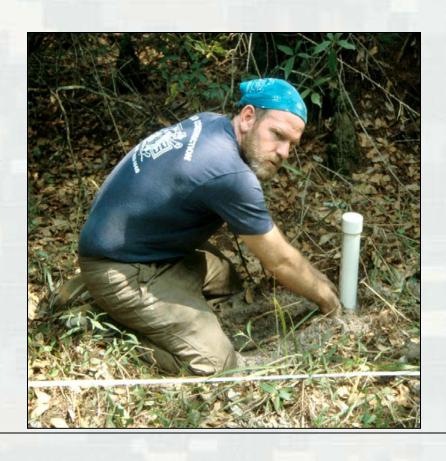
Dat Le Property 1937 Aerial N 1" = 1000'

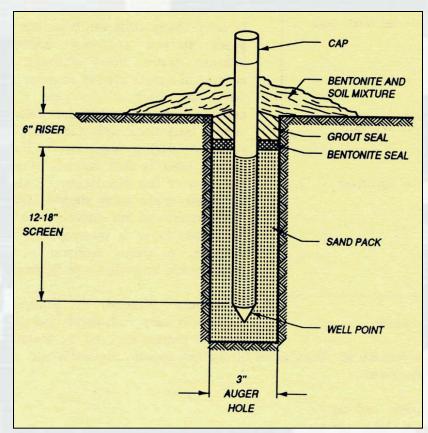


Dat Le Property 1957 Aerial N 1" = 1000'

Kinds of Hydrologic Data

Groundwater wells







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OHWM

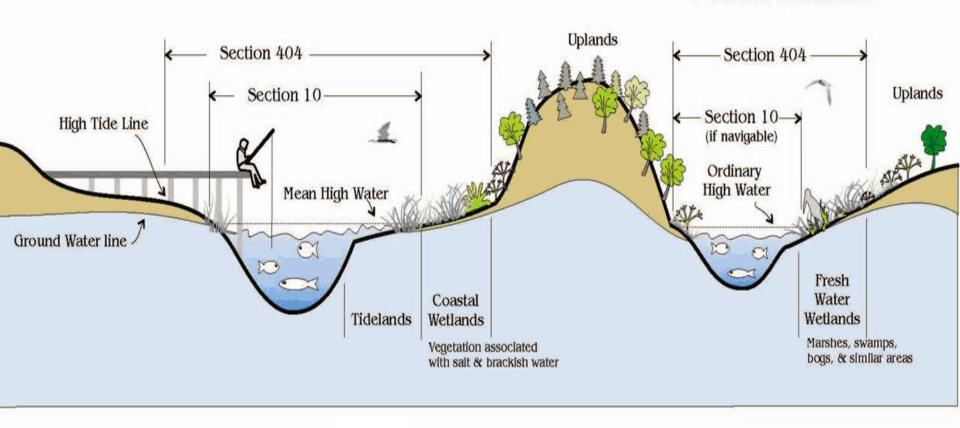
Corps regulations define the term "ordinary high water mark" for purposes of the CWA lateral jurisdiction at 33 CFR 328.3(e), which states:

"The term *ordinary high water mark* means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas."

Corps of Engineers Regulatory Jurisdiction

Tidal Waters

Fresh Waters



Section 103

Ocean Disposal of Dredged Material

Ocean discharges of dredged material

Section 404

Discharge of Dredged or Fill Material (all waters of the U.S.)

All filling activities, utility lines, outfall structures, road crossings, beach nourishment, riprap, jetties, some excavation activities, etc.

Section 10

All Structures and Work (navigable waters)

Dreding, marinas, piers, wharves, floats, intake / outtake pipes, pilings, bulkheads, ramps, fills, overhead transmission lines, etc.

Typical examples of regulated activities

RGL 05-05

- a. Purpose. To provide guidance for identifying the ordinary high water mark.
- b. Applicability. This applies to jurisdictional determinations for non-tidal waters under Section 404 of the Clean Water Act and under Sections 9 and 10 of the Rivers and Harbors Act of 1899.



In making OHWM determinations, Corps districts generally rely on physical evidence to ascertain the lateral limits of jurisdiction, to whatever extent physical evidence can be found and such evidence is deemed reasonably reliable.

Physical indicators include the features listed in the definitions at 33 CFR Sections 328.3(e) and 329.11(a)(1) and other appropriate means that consider the characteristics of the surrounding areas.

The following physical characteristics should be considered when making an OHWM determination, to the extent that they can be identified and are deemed reasonably reliable:

- Natural line impressed on the bank
- Shelving
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris



- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Bed and banks
- Water staining
- Change in plant community





Benches

- Formed by the removal of previously aggraded sediment
- Located near the below/at OHW boundary and potentially near the at/above boundary (Fig. 13)



Drift (organic debris larger than twigs)

- Tends to be oriented in the direction of flow (Lichvar et al. 2006)
- Often collects behind/in obstructions or is simply deposited by receding flow



Exposed root hairs below intact soil layer

- Exposed by erosion of sediment
- Tend to be located along the above/at OHW boundary or where benches have formed



Change in particle size distribution

- Transition from coarser to finer sediment common.
- Likely to occur near the at/below OHW boundary (Fig. 13)

At OHW	- Germination of seedlings after drawdown of recent event - May be either wetland or upland species			
	 Intermittently active inside meander bar above bankfull Zonation of vegetation varies from devoid at bottom, where it's most active, to sparse on the intermittently active bar and fully vegetated outside active area 			
	 Most active area is barren in foreground Above OHW is a thick shrub zone in background lacking physical removal from higher discharge events 			
Above OHW	 Vegetation thickens above OHW zone due to lack of disturbance from moderate events 			
	 Old incised channel with active and bankfull zones Light green shrubs located on upper active zone Upper active zone maintained as evidenced by exposed soil surfaces Majority of all events sizes retained within the incised channel walls 			

- In some cases, the physical characteristics may be misleading and would not be reliable for determining the OHWM. For example, water levels or flows may be manipulated by human intervention for power generation or water supply.
- For such cases, districts should consider using other appropriate means to determine the OHWM.



- Such other reliable methods that may be indicative of the OHWM include, but are not limited to:
- lake and stream gage data
- elevation data
- spillway height
- flood predictions
- historic records of water flow
- statistical evidence.



To the maximum extent practicable, districts generally **use more than one** physical indicator or other means for determining the OHWM.





SPECIAL PUBLIC NOTICE

Final Map and Drawing Standards for the South Pacific Division Regulatory Program

August 6, 2012

Corps contacts:

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Introduction: This notice establishes final standards and guidelines for maps and drawings submitted as part of delineations and applications for U.S. Army permits and jurisdictional determinations. The intent of these standards is to improve the quality and consistency of maps and drawings and simplify and improve review and processing by Corps Regulatory project managers. We estimate that at least 70-80% of maps and drawings submitted to the Corps Regulatory Program in South Pacific Division (comprised of Albuquerque, San Francisco, Sacramento, and Los Angeles districts) already meet the majority of these standards. By adhering to a single standard for maps and drawings, applicants and consultants should have a clear and concise product, and project managers should be able to provide permit decisions and jurisdictional determinations in a more consistent and timely manner. In addition, electronic mapping of permit-related maps and

5) Delineations of waters of the U.S.:

- Plan view maps must be provided.
- b. Cross-sectional view drawings must be provided at the Corps project manager's discretion. Examples of when cross-sectional view drawings would be appropriate include stream or wetland restorations, stream crossings, proposed structures, and delineations of tidal areas.
- c. Clearly show location and extent of all areas potentially meeting the criteria for waters of the U.S., including special aquatic sites (e.g., wetlands, sanctuaries and refuges, mudflats, vegetated shallows, and riffle and pool complexes), and/or navigable waters. Each type of boundary (for example, ordinary high water mark, mean high water, wetlands or other special aquatic sites, and high tide line) must be clearly annotated and/or symbolized to ensure they are differentiable on the map..
- d. The survey area boundary must be clearly annotated and/or symbolized and must include all potential waters of the U.S. The survey area boundary encloses the spatial area for which a Corps jurisdictional determination is being requested. Show locations of any wetland delineation or ordinary high water mark data points, labeled according to the number of the corresponding wetland delineation form or ordinary high water mark data sheet. Generally, a wetland boundary must be based on sets of at least two wetland delineation data points, one within the proposed wetland boundary and one outside it.
- e. Include representative ordinary high water mark (OHWM) widths where measured in the field (averages may be acceptable for uniform channel reaches). OHWM widths must be shown with a transect/profile line (e.g., A-A') labeled with the corresponding width measurement in feet. In some cases, a corresponding cross section may be required, in which case the cross section must include the corresponding OHWM elevations.
- Include information not directly related to a delineation of waters of the U.S. on a separate map(s).
- g. If there are tidal areas within the survey area, identify the location and elevation of Mean High Water and the High Tide Line on all maps and cross-section drawings.
- h. Each line or polygon representing a water of the U.S. must be labeled with a unique name (for example, WL1, WL2, VP1, VP2, STR1, STR2, etc.). The delineation report must be accompanied by the attached <u>Aquatic Resources.xlsx</u> table (Excel file format).
- If impact areas within waters of the U.S. are shown, those must also be labeled with a unique name (for example,). In this case, the delineation report must also be accompanied by the attached <u>Impacts.xlsx</u> table (Excel file format).
- j. If submitted, delineation-related GIS data must use the unique names as described above and conform to the Aquatic Resources.xlsx and Impacts.xlsx data tables and must include a text file of metadata, including datum, projection, and mapper contact information.

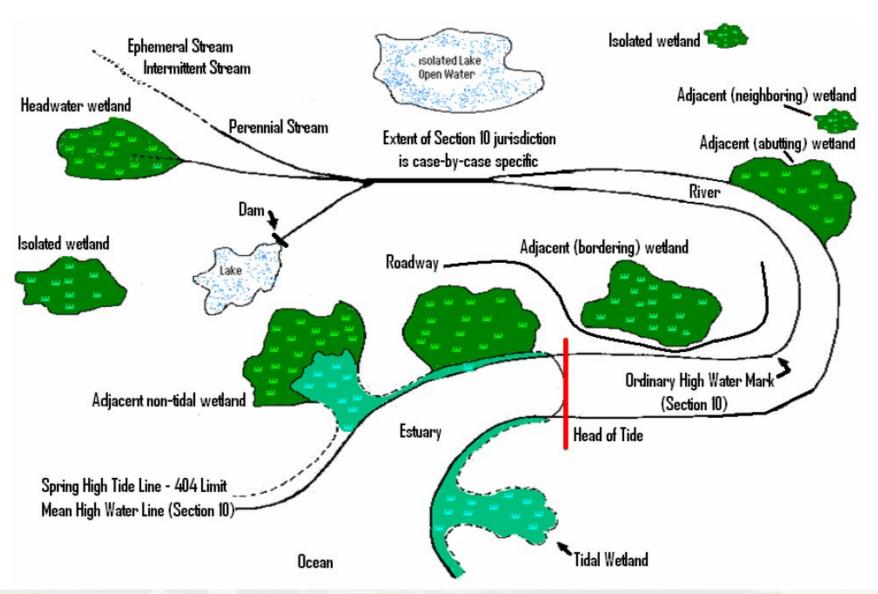


Aquatic-Resources-SPK-190109804-Delta Wetlands.xlsx

A	В	С	D	Е	F	G	Н	1	
1 Waters_Name	Cowadin_Code	HGM_Code	Measurement_Type	: Amount	Units	Waters_Types	Latitude	Longitude	Local_Waterway
2 Bacon - Drainage Ditch	R4SB	RIVERINE	Linear	3.71	FOOT	RPW	37.996265	-121.560381	Middle River
3 Bacon - Canal/Ditch	R4SB	RIVERINE	Linear	23.51	FOOT	RPW	37.956247	-121.556070	Middle River
4 Bacon - Tidal Channel	E2US	RIVERINE	Area	3.14	ACRE	TNW	37.996711	-121.529226	Middle River
5 Bacon - Farmed Wetland	PEM	DEPRESS	Area	406.47	ACRE	RPWWN	37.953724	-121.535231	Middle River
6 Bacon - Forested Wetland	PFO1	DEPRESS	Area	17.99	ACRE	RPWWN	37.998476	-121.546447	Middle River
7 Bacon - Freshwater Marsh	PEM	DEPRESS	Area	116.91	ACRE	RPWWN	38.000184	-121.566410	Middle River
8 Bacon - Open Water/Pond	L2EM	DEPRESS	Area	0.2	ACRE	RPWWN	37.967539	-121.571718	Middle River
9 Bacon - Tidal Marsh	E2EM	ESTUARINEF	Area	0.76	ACRE	TNWW	37.996711	-121.529226	Middle River
10 Webb - Drainage Ditch	R4SB	RIVERINE	Linear	3.38	FOOT	RPW	38.065367	-121.631908	San Joaquin River
11 Webb - Canal/Ditch	R4SB	RIVERINE	Linear	30.19	FOOT	RPW	38.077479	-121.586598	San Joaquin River
12 Webb - Tidal Channel	E2US	RIVERINE	Area	3.24	ACRE	TNW	38.064658	-121.597148	San Joaquin River
13 Webb - Farmed Wetland	PEM	DEPRESS	Area	1100.46	ACRE	RPWWN	38.081673	-121.614515	San Joaquin River
14 Webb - Forested Wetland	PFO1	DEPRESS	Area	203.92	ACRE	RPWWN	38.053165	-121.629587	San Joaquin River
15 Webb - Freshwater Marsh	PEM	DEPRESS	Area	158.97	ACRE	RPWWN	38.053547	-121.629913	San Joaquin River
16 Webb - Open Water/Pond	L2EM	DEPRESS	Area	83.3	ACRE	RPWWD	38.084232	-121.584928	San Joaquin River
17 Webb - Tidal Marsh	E2EM	ESTUARINEF	Area	0.15	ACRE	TNWW	38.064658	-121.597148	San Joaquin River
18 Bouldin - Drainage Ditch	R4SB	RIVERINE	Linear	14.97	FOOT	RPW	38.116884	-121.559659	South Fork Mokelun
19 Bouldin - Canal/Ditch	R4SB	RIVERINE	Linear	30.7	FOOT	RPW	38.102839	-121.530677	South Fork Mokelun
20 Bouldin - Farmed Wetland	PEM	DEPRESS	Area	494.99	ACRE	RPWWN	38.093642	-121.517204	South Fork Mokelun
21 Bouldin - Forested Wetland	PFO	DEPRESS	Area	12.67	ACRE	RPWWN	38.093477	-121.570063	South Fork Mokelun
22 Bouldin - Freshwater Marsh	PEM	DEPRESS	Area	144.75	ACRE	RPWWN	38.112051	-121.579375	South Fork Mokelun
23 Bouldin - Open Water/Pond	L2EM	DEPRESS	Area	1.04	ACRE	RPWWN	38.108001	-121.550471	South Fork Mokelun
24 Holland - Drainage Ditch	R4SB	RIVERINE	Linear	2.89	FOOT	RPW	37.995136	-121.595796	Holland Cut
25 Holland - Canal/Ditch	R4SB	RIVERINE	Linear	15.39	FOOT	RPW	37.999544	-121.599213	Holland Cut
26 Holland - Farmed Wetland	PEM	DEPRESS	Area		ACRE	RPWWN	38.011262	-121.597151	Holland Cut
27 Holland - Forested Wetland	PFO	DEPRESS	Area		ACRE	RPWWN	38.024097	-121.588974	Holland Cut
28 Holland - Freshwater Marsh	PEM	DEPRESS	Area		ACRE	RPWWN	38.006213	-121.618740	Holland Cut
29 Holland - Open Water/Pond	L2EM	DEPRESS	Area	74.96	ACRE	RPWWD	38.014838	-121.593999	Holland Cut

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Are these Features Waters of the United States?



Significant Nexus Evaluation

- Assessment of:
 - ► Flow characteristics and functions of the tributary
 - Functions performed by all wetlands adjacent to the tributary
 - Tributary is defined as a stream reach of the same order
- Determine if the tributary and any adjacent wetlands significantly affect the chemical, physical and biological integrity of downstream traditional navigable waters
- Relates to the goal of the Clean Water Act
 - "Restore and maintain the chemical, physical, and biological integrity of the Nation's waters."



Significant Nexus Evaluation 7+ page data form with all supporting information for every aquatic resource feature

- Hydrologic factors:
 - ► Volume, duration, and frequency of flow
 - ► Proximity to the traditional navigable water
 - ► Size of the watershed
 - ► Average annual rainfall
 - ► Average annual winter snow pack

Physical Factors: Landscape Position, Sediment, Bedload (e.g., hydraulic mining issues)

Significant Nexus Evaluation

- Ecological factors:
 - ► Potential of tributaries to carry nutrients, pollutants, and flood waters to traditional navigable waters
 - ► Potential of adjacent wetlands to:
 - Trap and filter nutrients and pollutants
 - Trap sediments
 - Store flood waters
 - ► Maintain water quality in traditional navigable waters (e.g.,303 d list tributaries; 2-way street)
 - ► Tributaries and their adjacent wetlands that provide habitat (e.g., places for feeding, nesting, spawning, or rearing young) for many aquatic species that also live in traditional navigable waters

Rapanos-Carabell Guidance

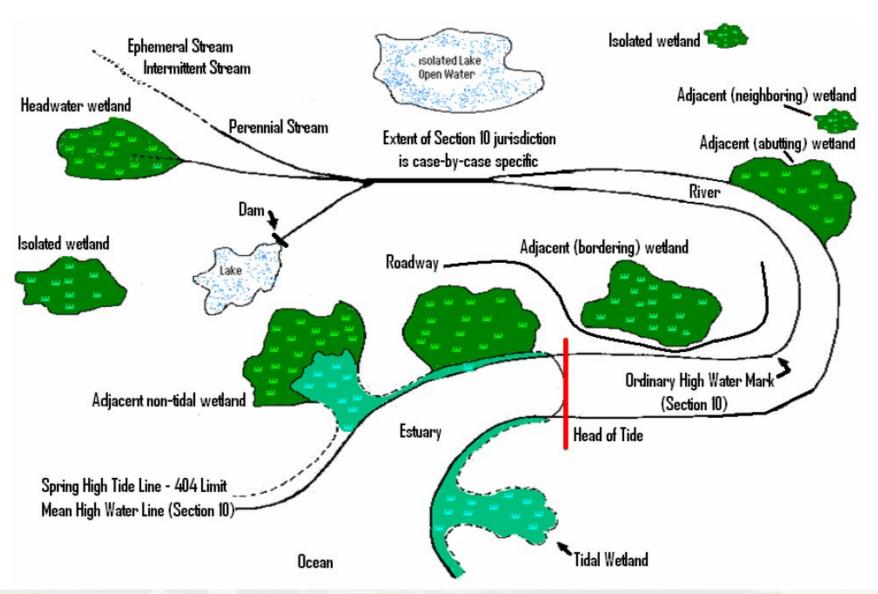
- These features are generally not jurisdictional
 - ▶ Upland swales or gullies
 - ▶ Ditches (including roadside ditches) excavated in and draining only uplands and that do not carry a relatively permanent flow of water
 - ► HOWEVER on P.12 "Certain ephemeral waters in the arid west are distinguishable from the geographic features described above where they HAVE a significant nexus to downstream traditional navigable waters."
- This guidance does not provide authority to assert jurisdiction over waters deemed non-jurisdictional by SWANCC

JD Coordination Processes

- Applies only to approved jurisdictional determinations
- If significant nexus determination, draft JDs emailed to EPA Regional Office
 - ► EPA Region has 15 days to make special case recommendation to EPA HQ (1989 JD MOA)
 - ► EPA HQ has 10 working days to decide if it is a special case
- If isolated waters determination, coordination process continues with 21-day time frame
- 7+ page data form with all supporting information for each aquatic feature!



Landward Limits of Waters of the United States



Helps relieve JD log jam for permitting

- When to do a Preliminary JD
 - ► Landowner, permit applicant, or other affected party voluntarily wants to set aside questions of jurisdiction to expedite obtaining permit authorization
 - ► Enforcement situations where site access is impractical or unauthorized, or if approved JD cannot be completed in a timely manner
 - ▶ Delineation/mapping of potential waters, including wetlands, remains the same for preliminary JDs as for approved JDs



Preliminary JDs

- For permit decisions, include all potential waters, including wetlands, when determining impacts and compensatory mitigation
- Corps is not making a legally-binding determination whether CWA/RHA jurisdiction exists
- Affected party can later request an approved JD
 - ► Transmittal letter should advise affected party not to start work in waters if he or she intends to request an approved JD at a later time
 - ▶ No expiration date



- Approved Jurisdictional Determinations
 - ▶ Official Corps determination that jurisdictional waters are present or absent on a site
 - ► Valid for 5 years (RGL 05-02), unless new information or changing environmental conditions warrant a revision
 - May also identify the limits of jurisdictional waters
 - ► Can be appealed
 - ▶ Districts continue to post on their web pages

- When to do an Approved JD
 - ► Landowner, permit applicant, or other affected party requests an approved JD
 - ► Landowner, permit applicant, or other affected party contests jurisdiction over a particular waterbody or wetland (and allows property access to provide an approved JD)
 - Corps determines that jurisdiction does not exist over a particular waterbody or wetland
 - ► Enforcement actions, where practicable
 - At district engineer's discretion, when it is warranted in a particular case

- When <u>not</u> to do an Approved or Preliminary JD
 - ► When the person is seeking a JD for another purpose, such as:
 - Section 402 of the Clean Water Act (NPDES)
 - Section 311 of the Clean Water Act (oil and hazardous substances spills)



References

Corps of Engineers Wetland Delineation Manual, January 1987
Regional Supplement to the Corps of Engineers Delineation Manual: Arid
West Region (Version 2.0)

Regional Supplement to the Corps of Engineers Wetland Delineation

Manual: Western Mountains, Valleys and Coast Region (Version 2.0)

Regional Supplement to the Corps of Engineers Wetland Delineation

Manual: Great Plains Region (Version 2.0)

Regulatory Guidance Letter (RGL) 90-7, 26 Sep 90

<u>Clarification of the Phrase "Normal Circumstances" as it Pertains to Cropped Wetlands;</u>

National Food Security Act Manual, Fifth Edition

"Joint Guidance from the Natural Resources Conservation Service (NRCS) and the Army Corps of Engineers (COE) ConcerningWetland Determinations for the Clean Water Act and the Food Security Act of 1985",dated 25 February 2005.

Corps Technical Standard for Water-Table Monitoring of Potential Wetland Sites, June 2005 (Technical Standard)

WETS Tables

Questions?

