

## **Section II - Soil and Site Information**

### **Hydric Soil Interpretations For**

---

#### **Definition of Hydric Soil**

A hydric soil is a soil that is saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part. The following criteria reflect those soils that meet this definition.

Wetlands represent the collection of aquatic or semi aquatic habitats commonly referred to as marshes, swamps, and bogs. The U.S. Natural Resources Conservation Service, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers and the U.S. Environmental Protection Agency define wetlands by the presence of wetland vegetation (hydrophytes) and hydrology (degree of flooding and/or soil saturation) and by reference to wet soils (hydric soils). The prevalence of hydrophytes and the presence of wet soil reflect the long-term hydrology and therefore, are useful indicators of wetland. Some of the benefits of wetlands include, waterfowl breeding, habitat for waterfowl and other birds, flood control, water quality, shoreline stabilization and others.

If wetlands are identified as a critical resource, then a good first step would be to inventory the extent of hydric soils that were mapped in a soil survey.

It is important to remember that because of map scale very small areas of hydric soils are often not shown on the soil survey. The soil survey provides a general location of hydric soils; however, it is necessary that the exact wetland boundary be located in the field. When the boundary is not clear, consult with technical experts. The publications Hydric soils of New England and Federal Manual for Identifying and Delineating Jurisdictional Wetlands provide a more detailed discussion on hydric soils as well as on-site identification of wetland boundaries. Other sources of wetland information are the U.S. Fish and Wildlife Service, National Wetland Inventory Maps and the Maine Department of Environmental Protection Inland Wetland Maps.

#### **Hydric Soil List**

Hydric soils are developed under conditions sufficiently wet to support the growth and regeneration of hydrophytic vegetation. The listing available below includes phases of soil series that may or may not have been drained. Some soil series, designated as hydric, have phases that are not hydric depending on water table, flooding, and ponding characteristics.

The list will have a number of agricultural and nonagricultural applications. These include assistance in land-use planning, conservation planning, and assessment of potential wildlife habitat. An area that meets the hydric soil criteria must also meet the hydrophytic vegetation and wetland hydrology criteria in order for it to be classified as a jurisdictional wetland (See the "Corps of Engineers Wetlands Delineation Manual", 1987).

## Hydric Soils List

Penobscot County, Maine

The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
AaB: Adams loamy sand, 0 to 8 percent slopes	Adams	No	---	---	---	---	---
AaC: Adams loamy sand, 8 to 15 percent slopes	Adams	No	---	---	---	---	---
AaE: Adams loamy sand, 15 to 45 percent slopes	Adams	No	---	---	---	---	---
AgA: Allagash fine sandy loam, 0 to 2 percent slopes	Allagash	No	---	---	---	---	---
AgB: Allagash fine sandy loam, 2 to 8 percent slopes	Allagash	No	---	---	---	---	---
AgC: Allagash fine sandy loam, 8 to 15 percent slopes	Allagash	No	---	---	---	---	---
AgD: Allagash fine sandy loam, 15 to 25 percent slopes	Allagash	No	---	---	---	---	---
BaA: Bangor silt loam, 0 to 2 percent slopes	Bangor	No	---	---	---	---	---
BaB: Bangor silt loam, 2 to 8 percent slopes	Bangor	No	---	---	---	---	---
BaC: Bangor silt loam, 8 to 15 percent slopes	Bangor	No	---	---	---	---	---
BaD: Bangor silt loam, 15 to 25 percent slopes	Bangor	No	---	---	---	---	---
BmB: Bangor silt loam, moderately deep, 2 to 8	Bangor	No	---	---	---	---	---
BmC: Bangor silt loam, moderately deep, 8 to 15	Bangor	No	---	---	---	---	---
BmD: Bangor silt loam, moderately deep, 15 to 35 percent slopes	Bangor	No	---	---	---	---	---
BnB: Bangor very stony silt loam, 0 to 8 percent slopes	Bangor	No	---	---	---	---	---

## Hydric Soils List - Continued

Penobscot County, Maine

The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
BnC: Bangor very stony silt loam, 8 to 15 percent slopes	Bangor	No	---	---	---	---	---
BnD: Bangor very stony silt loam, 15 to 25 percent	Bangor	No	---	---	---	---	---
BoA: Biddeford silt loam, 0 to 3 percent slopes	Biddeford	Yes	Marine Terrace	2B3,3	Yes	No	Yes
BrA: Burnham silt loam, 0 to 3 percent slopes	Burnham	Yes	Ground Moraine	2B3,3	Yes	No	Yes
BuA: Buxton silt loam, 0 to 2 percent slopes	Buxton	No	---	---	---	---	---
BuB: Buxton silt loam, 2 to 8 percent slopes	Buxton	No	---	---	---	---	---
BuC: Buxton silt loam, 8 to 15 percent slopes	Buxton	No	---	---	---	---	---
BxB: Buxton, scantic, and biddeford stony silt loams, 0 to 8 percent slopes	Biddeford	Yes	Marine Terrace	2B3,3	Yes	No	Yes
	Buxton	No	---	---	---	---	---
	Scantic	Yes	Marine Terrace	2B3	Yes	No	No
CaC: Canaan extremely rocky sandy loam, 5 to 15 percent slopes	Canaan	No	---	---	---	---	---
	Rock Outcrop	No	---	---	---	---	---
CaE: Canaan extremely rocky sandy loam, 15 to 45 percent slopes	Canaan	No	---	---	---	---	---
	Rock Outcrop	No	---	---	---	---	---
CcB: Colton cobbly sandy loam, dark materials, 0 to 8 percent slopes	Colton	No	---	---	---	---	---

## Hydric Soils List - Continued

Penobscot County, Maine

The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
CcC: Colton cobbly sandy loam, dark materials, 8 to 15 percent slopes	Colton	No	---	---	---	---	---
CcD: Colton cobbly sandy loam, dark materials, 15 to 25 percent slopes	Colton	No	---	---	---	---	---
CcE: Colton cobbly sandy loam, dark materials, 25 to 45 percent slopes	Colton	No	---	---	---	---	---
CnA: Colton gravelly sandy loam, dark materials, 0 to 2 per cent slopes	Colton	No	---	---	---	---	---
CnB: Colton gravelly sandy loam, dark materials, 2 to 8 per cent slopes	Colton	No	---	---	---	---	---
CnC: Colton gravelly sandy loam, dark materials, 8 to 15 per cent slopes	Colton	No	---	---	---	---	---
CnD: Colton gravelly sandy loam, dark materials 15 to 25 per cent slopes	Colton	No	---	---	---	---	---
CnE: Colton gravelly sandy loam, dark materials, 25 to 45 pe rcent slopes	Colton	No	---	---	---	---	---
CsA: Colton loamy fine sand, dark materials, 0 to 2 percent slopes	Colton	No	---	---	---	---	---
CsB: Colton loamy fine sand, dark materials, 2 to 8 percent slopes	Colton	No	---	---	---	---	---
CsC: Colton loamy fine sand, dark materials, 8 to 15 percent slopes	Colton	No	---	---	---	---	---
CsD: Colton loamy fine sand, dark materials, 15 to 25 percent slopes	Colton	No	---	---	---	---	---

## Hydric Soils List - Continued

Penobscot County, Maine

The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
DaA: Daigle silt loam, 0 to 2 percent slopes	Daigle	No	---	---	---	---	---
DaB: Daigle silt loam, 2 to 8 percent slopes	Daigle	No	---	---	---	---	---
DaC: Daigle silt loam, 8 to 15 percent slopes	Daigle	No	---	---	---	---	---
DgA: Daigle stony silt loam, 0 to 2 percent slopes	Daigle	No	---	---	---	---	---
DgB: Daigle stony silt loam, 2 to 8 percent slopes	Daigle	No	---	---	---	---	---
DgC: Daigle stony silt loam, 8 to 15 percent slopes	Daigle	No	---	---	---	---	---
DxA: Dixmont silt loam, 0 to 2 percent slopes	Dixmont	No	---	---	---	---	---
DxB: Dixmont silt loam, 2 to 8 percent slopes	Dixmont	No	---	---	---	---	---
DxC: Dixmont silt loam, 8 to 15 percent slopes	Dixmont	No	---	---	---	---	---
DyA: Dixmont very stony silt loam, 0 to 2 percent slopes	Dixmont	No	---	---	---	---	---
DyB: Dixmont very stony silt loam, 2 to 8 percent slopes	Dixmont	No	---	---	---	---	---
DyC: Dixmont very stony silt loam, 8 to 15 percent slopes	Dixmont	No	---	---	---	---	---
EwB: Elmwood fine sandy loam, 0 to 8 percent slopes	Elmwood	No	---	---	---	---	---
Ha: Hadley silt loam	Hadley	No	---	---	---	---	---
HbB: Hermon sandy loam, 2 to 8 percent slopes	Hermon	No	---	---	---	---	---

## Hydric Soils List - Continued

Penobscot County, Maine

The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
HbC: Hermon sandy loam, 8 to 15 percent slopes	Hermon	No	---	---	---	---	---
HdB: Hermon sandy loam, moderately deep, 2 to 8 percent slopes	Hermon	No	---	---	---	---	---
HdC: Hermon sandy loam, moderately deep, 8 to 15 percent slopes	Hermon	No	---	---	---	---	---
HeB: Hermon very stony sandy loam, 2 to 8 percent slopes	Hermon	No	---	---	---	---	---
HeC: Hermon very stony sandy loam, 8 to 15 percent slopes	Hermon	No	---	---	---	---	---
HeE: Hermon very stony sandy loam, 15 to 45 percent	Hermon	No	---	---	---	---	---
HhC: Hermon extremely stony sandy loam, 5 to 15 percent slopes	Hermon	No	---	---	---	---	---
HoB: Howland gravelly loam, 0 to 8 percent slopes	Howland	No	---	---	---	---	---
HoC: Howland gravelly loam, 8 to 15 percent slopes	Howland	No	---	---	---	---	---
HvB: Howland very stony loam, 0 to 8 percent slopes	Howland	No	---	---	---	---	---
HvC: Howland very stony loam, 8 to 15 percent slopes	Howland	No	---	---	---	---	---
HvD: Howland very stony loam, 15 to 25 percent slopes	Howland	No	---	---	---	---	---
Lk: Limerick silt loam	Limerick	Yes	Flood Plain	2B3	Yes	No	No
MaB: Machias fine sandy loam, 0 to 8 percent slopes	Machias	No	---	---	---	---	---

## Hydric Soils List – Continued

Penobscot County, Maine

The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
MbB: Madawaska very fine sandy loam, 0 to 8 percent slopes	Madawaska	No	---	---	---	---	---
Md: Made land	Made Land	No	---	---	---	---	---
	Urban Land	No	---	---	---	---	---
MeA: Melrose fine sandy loam, 0 to 2 percent slopes	Melrose	No	---	---	---	---	---
MeB: Melrose fine sandy loam, 2 to 8 percent slopes	Melrose	No	---	---	---	---	---
MeC: Melrose fine sandy loam, 8 to 15 percent slopes	Melrose	No	---	---	---	---	---
Mn: Mixed alluvial land	Mixed Alluvial Land Pd	Yes	Flood Plain	2B3	Yes	No	No
	Mixed Alluvial Land Mwd	No	---	---	---	---	---
MoB: Monarda silt loam, 0 to 8 percent slopes	Monarda	Yes	Ground Moraine	2B3	Yes	No	No
MrB: Monarda and burnham very stony silt loams, 0 to 8 percent slopes	Monarda	Yes	Ground Moraine	2B3	Yes	No	No
	Burnham	Yes	Ground Moraine	2B3,3	Yes	No	Yes
MsC: Monarda and burnham extremely stony silt loams, 0 to 15 percent slopes	Burnham	Yes	Ground Moraine	2B3,3	Yes	No	Yes
	Monarda	Yes	Ground Moraine	2B3	Yes	No	No
Mu: Muck	Muck	Yes	Swamp	1,3	No	No	Yes
On: Ondawa fine sandy loam	Ondawa	No	---	---	---	---	---
Pa: Peat and muck	Peat	Yes	Swamp	1,3	No	No	Yes
	Muck	Yes	Swamp	1,3	No	No	Yes
Pc: Peat, coarsely fibrous	Peat	Yes	Swamp	1,3	No	No	Yes

## Hydric Soils List - Continued

Penobscot County, Maine

The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
Pf: Peat, moderately fibrous	Peat	Yes	Swamp	1,3	No	No	Yes
PgB: Plaisted gravelly loam, 2 to 8 percent slopes	Plaisted	No	---	---	---	---	---
PgC: Plaisted gravelly loam, 8 to 15 percent slopes	Plaisted	No	---	---	---	---	---
PgD: Plaisted gravelly loam, 15 to 25 percent slopes	Plaisted	No	---	---	---	---	---
PgE: Plaisted gravelly loam, 25 to 45 percent slopes	Plaisted	No	---	---	---	---	---
PhB: Perham silt loam, 0 to 8 percent slopes	Perham	No	---	---	---	---	---
PhC: Perham silt loam, 8 to 15 percent slopes	Perham	No	---	---	---	---	---
PmB: Perham stony silt loam, 0 to 8 percent slopes	Perham	No	---	---	---	---	---
PmC: Perham stony silt loam, 8 to 15 percent slopes	Perham	No	---	---	---	---	---
PrC: Plaisted very stony loam, 5 to 15 percent slopes	Plaisted	No	---	---	---	---	---
PrE: Plaisted very stony loam, 15 to 45 percent slopes	Plaisted	No	---	---	---	---	---
Ps: Peat, sphagnum	Peat	Yes	Swamp	1	No	No	No
PxC: Plaisted extremely stony loam, 5 to 15 percent slopes	Plaisted	No	---	---	---	---	---
Py: Podunk fine sandy loam	Podunk	No	---	---	---	---	---
RaB: Red hook and atherton silt loams, 0 to 8 percent slopes	Red Hook	Yes	Outwash Plain	2B3	Yes	No	No
	Atherton	Yes	Outwash Plain	2B3,3	Yes	No	Yes

## Hydric Soils List – Continued

Penobscot County, Maine

The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
RdB: Red hook and atherton fine sandy loams, 0 to 8 percent slopes	Red Hook	Yes	Outwash Plain	2B3	Yes	No	No
	Atherton	Yes	Outwash Plain	2B3,3	Yes	No	Yes
Re: Riverwash	Riverwash	Yes	Flood Plain	4	No	Yes	No
RkC: Rockland, canaan material, sloping	Rockland	No	---	---	---	---	---
	Canaan	No	---	---	---	---	---
RkD: Rockland, canaan material, strongly sloping	Rockland	No	---	---	---	---	---
	Canaan	No	---	---	---	---	---
RmC: Rockland, thorndike material, sloping	Rockland	No	---	---	---	---	---
	Thorndike	No	---	---	---	---	---
RmD: Rockland, thorndike material, strongly sloping	Rockland	No	---	---	---	---	---
	Thorndike	No	---	---	---	---	---
Ro: Rock outcrop	Rock Outcrop	No	---	---	---	---	---
Sa: Saco silt loam	Saco	Yes	Flood Plain	2B3,4	Yes	Yes	No
ScB: Scantic silt loam, 0 to 8 percent slopes	Scantic	Yes	Marine Terrace	2B3	Yes	No	No
SeA: Stetson fine sandy loam, 0 to 2 percent slopes	Stetson	No	---	---	---	---	---
SeB: Stetson fine sandy loam, 2 to 8 percent slopes	Stetson	No	---	---	---	---	---
SeC: Stetson fine sandy loam, 8 to 15 percent slopes	Stetson	No	---	---	---	---	---
SeD: Stetson fine sandy loam, 15 to 25 percent slopes	Stetson	No	---	---	---	---	---

## Hydric Soils List – Continued

Penobscot County, Maine

The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
SfC: Stetson-suffield complex, 0 to 15 percent slopes	Stetson	No	---	---	---	---	---
	Suffield	No	---	---	---	---	---
SfE: Stetson-suffield complex, 15 to 45 percent slopes	Stetson	No	---	---	---	---	---
	Suffield	No	---	---	---	---	---
ShD: Stony land, hermon material, strongly sloping	Hermon	No	---	---	---	---	---
SpD: Stony land, plaisted material, strongly sloping	Plaisted	No	---	---	---	---	---
SuA: Suffield silt loam, 0 to 2 percent slopes	Suffield	No	---	---	---	---	---
SuB: Suffield silt loam, 2 to 8 percent slopes	Suffield	No	---	---	---	---	---
SuC: Suffield silt loam, 8 to 15 percent slopes	Suffield	No	---	---	---	---	---
SuC2: Suffield silt loam, 8 to 15 percent slopes, eroded	Suffield	No	---	---	---	---	---
SuD: Suffield silt loam, 15 to 25 percent slopes	Suffield	No	---	---	---	---	---
SuD2: Suffield silt loam, 15 to 25 percent slopes, eroded	Suffield	No	---	---	---	---	---
SuE: Suffield silt loam, 25 to 45 percent slopes	Suffield	No	---	---	---	---	---
SvA: Suffield very fine sandy loam, 0 to 2 percent	Suffield	No	---	---	---	---	---
SvB: Suffield very fine sandy loam, 2 to 8 percent slopes	Suffield	No	---	---	---	---	---
SvC: Suffield very fine sandy loam, 8 to 15 percent slopes	Suffield	No	---	---	---	---	---

## Hydric Soils List - Continued

Penobscot County, Maine

The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
SvD: Suffield very fine sandy loam, 15 to 25 percent	Suffield	No	---	---	---	---	---
ThB: Thorndike shaly silt loam, 2 to 8 percent slopes	Thorndike	No	---	---	---	---	---
ThC: Thorndike shaly silt loam, 8 to 15 percent slopes	Thorndike	No	---	---	---	---	---
ThD: Thorndike shaly silt loam, 15 to 25 percent slopes	Thorndike	No	---	---	---	---	---
ThE: Thorndike shaly silt loam, 25 to 45 percent slopes	Thorndike	No	---	---	---	---	---
TkB: Thorndike very rocky silt loam, 2 to 8 percent slopes	Thorndike	No	---	---	---	---	---
TkC: Thorndike very rocky silt loam, 8 to 15 percent slopes	Thorndike	No	---	---	---	---	---
TvB: Thorndike very stony silt loam, 2 to 8 percent slopes	Thorndike	No	---	---	---	---	---
TvC: Thorndike very stony silt loam, 8 to 15 percent slopes	Thorndike	No	---	---	---	---	---
TvD: Thorndike very stony silt loam, 15 to 35 percent	Thorndike	No	---	---	---	---	---
w: Small bodies of water ordinarily included with land are accounted for.	Small Bodies Of Water Ordinar	Yes	Lake	---	---	---	---
WAT: Water bodies greater than 40 acres in size	Water Bodies Greater Than 40	Yes	Lake	---	---	---	---
Wn: Winooski silt loam	Winooski	No	---	---	---	---	---