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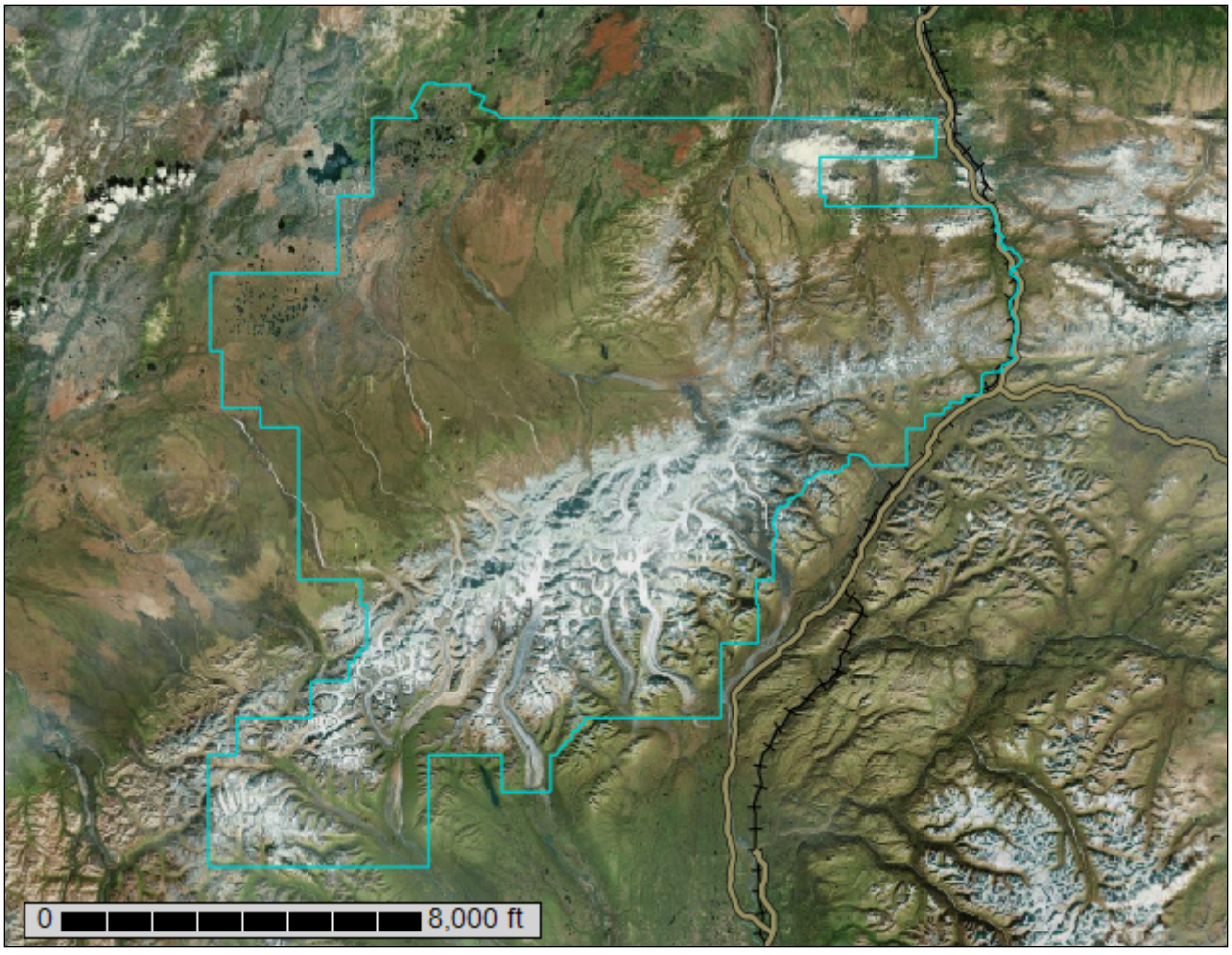
Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Denali National Park and Preserve Area, Alaska



October 24, 2014

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (http://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

Soil Information for All Uses

Soil Reports

The Soil Reports section includes various formatted tabular and narrative reports (tables) containing data for each selected soil map unit and each component of each unit. No aggregation of data has occurred as is done in reports in the Soil Properties and Qualities and Suitabilities and Limitations sections.

The reports contain soil interpretive information as well as basic soil properties and qualities. A description of each report (table) is included.

Land Classifications

This folder contains a collection of tabular reports that present a variety of soil groupings. The reports (tables) include all selected map units and components for each map unit. Land classifications are specified land use and management groupings that are assigned to soil areas because combinations of soil have similar behavior for specified practices. Most are based on soil properties and other factors that directly influence the specific use of the soil. Example classifications include ecological site classification, farmland classification, irrigated and nonirrigated land capability classification, and hydric rating.

Hydric Soil List - All Components

This table lists the map unit components and their hydric status in the survey area. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (National Research Council, 1995; Hurt and others, 2002).

The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; National Research Council, 1995; Tiner, 1985). Criteria for all of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part

(Federal Register, 1994). These soils, under natural conditions, are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

Map units that are dominantly made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units dominantly made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

The criteria for hydric soils are represented by codes in the table (for example, 2). Definitions for the codes are as follows:

1. All Histels except for Folistels, and Histosols except for Folists.
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
    A. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
    B. Show evidence that the soil meets the definition of a hydric soil;
3. Soils that are frequently ponded for long or very long duration during the growing season.
    A. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
    B. Show evidence that the soil meets the definition of a hydric soil;
4. Map unit components that are frequently flooded for long duration or very long duration during the growing season that:
    A. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
    B. Show evidence that the soil meets the definition of a hydric soil;

Hydric Condition: Food Security Act information regarding the ability to grow a commodity crop without removing woody vegetation or manipulating hydrology.

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. Doc. 2012-4733 Filed 2-28-12. February, 28, 2012. Hydric soils of the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Vasilas, L.M., G.W. Hurt, and C.V. Noble, editors. Version 7.0, 2010. Field indicators of hydric soils in the United States.

Report—Hydric Soil List - All Components

Hydric Soil List - All Components–AK651-Denali National Park and Preserve Area, Alaska					
Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
1FP: Boreal Flood Plains with Discontinuous Permafrost, Minchumina Basin	Boreal-riparian forested loamy wet flood plains-Frozen	40-65	Flood plains	Yes	2
	Boreal-riparian forested loamy flood plains-Moderately wet	15-35	Flood plains	No	—
	Boreal-riparian forested loamy flood plains-Yukon-kuskokwim	10-30	Flood plains	No	—
	Boreal-taiga loamy channels-Frozen	2-15	Channels on stream terraces	Yes	2
	Boreal-riparian wet meadow organic depressions	2-10	Cutoffs on flood plains	Yes	1,3
1FP2: Boreal Terraces and Flood Plains with Discontinuous Permafrost	Boreal-taiga deep loamy terraces-Frozen	25-50	Stream terraces	Yes	2
	Boreal-riparian forested loamy flood plains-Yukon-kuskokwim	15-30	Flood plains	No	—
	Boreal-riparian woodland loamy flood plains-Wet	10-20	Flood plains	Yes	2
	Boreal-taiga loamy channels-Frozen	2-15	Channels on stream terraces	Yes	2
	Boreal-riparian wet meadow organic depressions	5-10	Cutoffs on flood plains	Yes	1,3
	Boreal-riparian forested loamy flood plains-Frozen	5-20	Flood plains	No	—
1FP4: Boreal Flood Plains and Terraces with Discontinuous Permafrost, Wet	Boreal-riparian forested loamy wet flood plains-Frozen	20-40	Flood plains	Yes	2
	Boreal-riparian forested loamy flood plains-Frozen	10-40	Flood plains	No	—
	Boreal-riparian wet meadow organic depressions	10-30	Cutoffs on flood plains	Yes	1,3
	Boreal-riparian scrub silty flood plains-Wet	5-15	Flood plains	Yes	2,3,4

Hydric Soil List - All Components–AK651-Denali National Park and Preserve Area, Alaska					
Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Boreal-taiga deep loamy terraces-Frozen	10-30	Stream terraces	Yes	2
	Nonvegetated alluvium-Riverwash	1-5	Flood plains	Unranked	—
1FW1: Boreal Terraces with Continuous Permafrost	Boreal-taiga deep loamy terraces-Frozen	10-45	Stream terraces	Yes	2
	Boreal-taiga/tussock silty terraces-Frozen	15-45	Stream terraces	Yes	2,3
	Boreal-taiga loamy channels-Frozen	15-25	Channels on stream terraces	Yes	2
	Boreal-riparian forested loamy flood plains-Frozen	5-15	Flood plains	No	—
	Boreal-riparian wet meadow organic depressions	2-10	Cutoffs on flood plains	Yes	1,3
	Boreal-bog organic depressions	2-5	Bogs on peat plateaus	Yes	1,3
1ST: Boreal Plains with Discontinuous Permafrost	Boreal-taiga silty loess slopes-Frozen	20-50	Plains	Yes	2
	Boreal-riparian forested loamy flood plains-Frozen	20-35	Flood plains	No	—
	Boreal-riparian wet meadow organic depressions	10-20	Cutoffs on flood plains	Yes	1,3
	Boreal-bog organic depressions	10-20	Bogs on outwash plains	Yes	1,3
1ST1: Boreal Terraces with Discontinuous Permafrost, Minchumina Basin	Boreal-taiga deep loamy terraces-Frozen	25-60	Stream terraces	Yes	2
	Boreal-taiga/tussock silty terraces-Frozen	15-35	Stream terraces	Yes	2,3
	Boreal-riparian wet meadow organic depressions	5-20	Cutoffs on flood plains	Yes	1,3
	Boreal-taiga peat plateaus-Frozen	5-10	Peat plateaus on plains	No	—
	Boreal-bog organic depressions	5-10	Bogs on peat plateaus	Yes	1,3
	Boreal-riparian forested loamy wet flood plains-Frozen	5-20	Flood plains	Yes	2
1STW: Boreal Terraces with Continuous Permafrost, Wet	Boreal-taiga/tussock silty terraces-Frozen	25-65	Stream terraces	Yes	2,3
	Boreal-taiga loamy channels-Frozen	15-40	Channels on stream terraces	Yes	2

Hydric Soil List - All Components–AK651-Denali National Park and Preserve Area, Alaska					
Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Boreal-taiga deep loamy terraces-Frozen	15-25	Stream terraces	Yes	2
	Boreal-taiga scrub bog organic depressions	0-20	Bogs on alluvial flats	Yes	1
	Boreal-riparian wet meadow organic depressions	0-30	Cutoffs on flood plains	Yes	1,3
1STW2: Boreal Groundwater Discharge Plains with Discontinuous Permafrost	Boreal-taiga gravelly alluvial plains-Wet	15-40	Plains	Yes	2
	Boreal-riparian scrub silty drains-Frozen	15-25	Drainageways on plains	Yes	2,3,4
	Boreal-taiga deep loamy terraces-Frozen	15-25	Stream terraces	Yes	2
	Boreal-riparian fen organic depressions	15-25	Depressions on plains	Yes	1,3
2FG: Boreal Terraces with Continuous Permafrost, Very Wet	Boreal-taiga/tussock silty terraces-Frozen	60-85	Stream terraces	Yes	2,3
	Boreal-taiga peat plateaus-Frozen	5-35	Peat plateaus on plains	No	—
	Boreal-taiga loamy terraces-Frozen	5-35	Stream terraces	Yes	2
	Boreal-loamy wet meadows	0-10	Depressions on outwash plains	Yes	2
	Boreal-bog organic depressions	0-10	Bogs on peat plateaus	Yes	1,3
2FP2: Boreal Schist Flood Plains with Discontinuous Permafrost	Boreal-riparian forested loamy schist flood plains	45-60	Flood plains	No	—
	Boreal-riparian scrub loamy schist flood plains	20-35	Flood plains	No	—
	Boreal-riparian forested gravelly flood plains	5-30	Flood plains	No	—
	Nonvegetated alluvium-Riverwash	5-15	Flood plains	Unranked	—
2FP3: Boreal Flood Plains with Discontinuous Permafrost	Boreal-riparian forested loamy flood plains-Yukon-kuskokwim	15-50	Flood plains	No	—
	Boreal-riparian forested gravelly flood plains	5-30	Flood plains	No	—

Hydric Soil List - All Components–AK651-Denali National Park and Preserve Area, Alaska					
Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Boreal-riparian forested loamy flood plains-Moderately wet	10-30	Flood plains	No	—
	Boreal-taiga loamy terraces-Frozen	5-25	Stream terraces	Yes	2
	Boreal-riparian forested loamy wet flood plains-Frozen	10-30	Flood plains	Yes	2
	Nonvegetated alluvium-Riverwash	2-15	Flood plains	Unranked	—
2FW2: Boreal Terraces and High Flood Plains with Continuous Permafrost	Boreal-taiga deep loamy terraces-Frozen	20-55	Stream terraces	Yes	2
	Boreal-taiga loamy channels-Frozen	10-45	Channels on stream terraces	Yes	2
	Boreal-riparian forested loamy wet flood plains-Frozen	5-20	Flood plains	Yes	2
	Boreal-riparian forested loamy flood plains-Frozen, thick surface	5-15	Flood plains	No	—
	Boreal-riparian wet meadow organic depressions	3-5	Cutoffs on flood plains	Yes	1,3
	Boreal-riparian forested loamy flood plains-Frozen	0-10	Flood plains	No	—
	Boreal-taiga/tussock silty terraces-Frozen	0-15	Stream terraces	Yes	2,3
2P: Boreal Plains with Continuous Permafrost	Boreal-taiga silty outwash plains-Frozen	75-95	Outwash plains	Yes	2
	Boreal-loamy wet meadows	2-10	Depressions on outwash plains	Yes	2
	Boreal-riparian scrub silty drains-Frozen	2-5	Drainageways on outwash plains	Yes	2,3,4
	Boreal-bog organic depressions	2-5	Bogs on outwash plains	Yes	1,3
2ST: Boreal Terraces with Discontinuous Permafrost	Boreal-forested gravelly terraces	30-70	Stream terraces	No	—
	Boreal-taiga loamy terraces-Frozen	30-60	Stream terraces	Yes	2
	Boreal-taiga/tussock silty terraces-Frozen	0-10	Stream terraces	Yes	2,3
	Boreal-taiga loamy channels-Frozen	2-5	Channels on stream terraces	Yes	2
	Boreal-bog organic depressions	2-5	Bogs on outwash plains	Yes	1,3

Hydric Soil List - All Components–AK651-Denali National Park and Preserve Area, Alaska					
Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
2ST2: Boreal Mid to High Level Flood Plains	Boreal-riparian forested gravelly high flood plains-Yukon-kuskokwim	55-75	Flood plains	No	—
	Boreal-riparian forested gravelly flood plains	15-30	Flood plains	No	—
	Boreal-taiga loamy terraces-Frozen	2-10	Stream terraces	Yes	2
	Boreal-riparian forested loamy flood plains-Yukon-kuskokwim	2-10	Flood plains	No	—
3BG: Boreal Wet Meadows and Bogs	Boreal-loamy wet meadows	30-65	Depressions on plains	Yes	2
	Boreal-bog organic depressions	30-65	Bogs on hills,bogs on plains	Yes	1,3
	Boreal-taiga silty loess slopes-Frozen	2-10	Plains	Yes	2
	Boreal-taiga/tussock silty loess slopes-Frozen	2-10	Plains	Yes	2,3
3C: Boreal Colluvial Hill Footslopes with Continuous Permafrost	Boreal-taiga/tussock silty colluvial slopes-Frozen	20-75	Hills	Yes	2,3
	Boreal-taiga silty colluvial slopes-Frozen	20-75	Hills	Yes	2
	Boreal-riparian tall scrub silty frozen drains-Yukon-kuskokwim	2-10	Drainageways on hills	Yes	2,3,4
	Boreal-taiga silty loess hills-Frozen	2-10	Hills	No	—
3DH: Boreal Loess Footslopes and Gravelly Colluvial Hills With Continuous Permafrost	Boreal-taiga/tussock silty loess slopes-Frozen	30-55	Hills	Yes	2
	Boreal-taiga silty loess slopes-Frozen	20-40	Plains	Yes	2
	Boreal-taiga/tussock silty colluvial slopes-Frozen	5-20	Hills	Yes	2,3
	Boreal-forested gravelly colluvial slopes-Dissected	5-15	Escarpments on terraces	No	—
3FG: Boreal Loess Plains with Continuous Permafrost	Boreal-taiga/tussock silty loess slopes-Frozen	30-80	Plains	Yes	2,3
	Boreal-taiga silty loess slopes-Frozen	10-60	Plains	Yes	2

Hydric Soil List - All Components–AK651-Denali National Park and Preserve Area, Alaska					
Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Boreal-bog organic depressions	2-10	Bogs on peat plateaus	Yes	1,3
	Boreal-riparian scrub silty drains-Frozen	2-5	Drainageways on hills,drainageways on plains	Yes	2,3,4
	Boreal-taiga peat plateaus-Frozen	0-5	Peat plateaus on plains	No	—
3FG3: Boreal Loess Plains and Peat Plateaus with Continuous Permafrost	Boreal-taiga silty loess slopes-Frozen	30-55	Plains	Yes	2
	Boreal-taiga/tussock silty loess slopes-Frozen	20-55	Plains	Yes	2,3
	Boreal-taiga peat plateaus-Frozen	5-30	Peat plateaus on plains	No	—
	Boreal-bog organic depressions	2-10	Bogs on hills,bogs on plains	Yes	1,3
	Boreal-riparian scrub silty drains-Frozen	2-10	Drainageways on plains,drainageways on hills	Yes	2,3,4
3FP1: Boreal Flood Plains and Terraces with Discontinuous Permafrost	Boreal-riparian forested loamy flood plains-Yukon-kuskokwim	10-35	Flood plains	No	—
	Boreal-taiga loamy terraces-Frozen	20-55	Stream terraces	Yes	2
	Boreal-riparian forested loamy flood plains-Moderately wet	10-25	Flood plains	No	—
	Boreal-taiga/tussock silty terraces-Frozen	5-25	Stream terraces	Yes	2,3
	Nonvegetated alluvium-Riverwash	2-10	Flood plains	Unranked	—
3FP3: Boreal Mica-Rich Terraces and Flood Plains with Discontinuous Permafrost	Boreal-taiga/tussock mica rich silty terraces-Frozen	15-50	Stream terraces	Yes	2,3
	Boreal-riparian forested mica-rich loamy flood plains-Frozen	15-40	Flood plains	No	—
	Boreal-taiga mica rich loamy terraces-Frozen	15-25	Stream terraces	Yes	2
	Boreal-taiga mica rich loamy channels-Frozen	15-30	Channels on stream terraces	Yes	2
	Boreal-riparian wet meadow organic depressions	0-5	Cutoffs on flood plains	Yes	1,3

Hydric Soil List - All Components–AK651-Denali National Park and Preserve Area, Alaska					
Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
3FU: Boreal Loess Plains and Hills with Continuous Permafrost	Boreal-taiga silty loess slopes-Frozen	40-70	Plains	Yes	2
	Boreal-taiga/tussock silty loess slopes-Frozen	20-50	Plains	Yes	2,3
	Boreal-bog organic depressions	2-10	Bogs on peat plateaus	Yes	1,3
	Boreal-taiga peat slopes-Frozen	2-10	Plains	Yes	1
	Boreal-taiga silty loess hills-Frozen	2-10	Hills	No	—
3FU2: Boreal Peat Plateaus and Loess Plains with Continuous Permafrost	Boreal-taiga peat plateaus-Frozen	25-45	Peat plateaus on plains	No	—
	Boreal-taiga/tussock silty loess slopes-Frozen	30-50	Plains	Yes	2,3
	Boreal-taiga silty loess slopes-Frozen	15-30	Plains	Yes	2
	Boreal-bog organic depressions	2-10	Bogs on peat plateaus	Yes	1,3
3FU3: Boreal Eolian Plains and Dunes with Discontinuous Permafrost	Boreal-taiga/tussock loamy eolian slopes-Frozen	20-40	Plains	Yes	2,3
	Boreal-taiga loamy eolian slopes-Frozen	20-40	Plains	Yes	2
	Boreal-forested sandy hills	10-25	Hills	No	—
	Boreal-taiga peat plateaus-Frozen	5-15	Peat plateaus on plains	No	—
	Boreal-loamy wet meadows	2-10	Depressions on outwash plains	Yes	2
	Boreal-bog organic depressions	5-10	Bogs on plains,bogs on hills	Yes	1,3
3FU4: Boreal Loess Plains, Hills, and Drains with Continuous Permafrost	Boreal-taiga silty loess slopes-Frozen	40-75	Hills,plains	Yes	2
	Boreal-taiga silty loess hills-Frozen	5-20	Hills	No	—
	Boreal-bog organic depressions	2-10	Bogs on plains	Yes	1,3
	Boreal-riparian tall scrub silty frozen drains-Yukon-kuskokwim	2-10	Drainageways on plains,drainageways on hills	Yes	2,3,4
	Boreal-riparian scrub silty drains-Frozen	2-10	Drainageways on hills,drainageways on plains	Yes	2,3,4

Hydric Soil List - All Components–AK651-Denali National Park and Preserve Area, Alaska					
Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
3Y: Boreal Ice Cored Loess Hills and Plains with Continuous Permafrost	Boreal-taiga silty loess slopes-Frozen	25-40	Plains,hills	Yes	2
	Boreal-taiga/tussock silty loess slopes-Frozen	20-40	Plains	Yes	2
	Boreal-taiga silty loess hills-Frozen	20-30	Hills	No	—
	Water	5-10	Lakes	—	—
	Boreal-bog organic depressions	2-5	Bogs on hills,bogs on plains	Yes	1,3
4BS: Boreal Schist Mountain Backslopes with Discontinuous Permafrost	Boreal-taiga silty schist slopes-Frozen	25-50	Mountains	Yes	2
	Boreal-taiga mica rich silt loess slopes	25-50	Mountains	No	—
	Alpine-scrub-sedge gravelly schist hummocks-Frozen	5-20	Mountains	Yes	2
4BSS: Boreal Mica-Rich Low Mountains	Boreal-forested mica-rich silty loess slopes	80-95	Mountains	No	—
	Boreal-taiga mica rich silt loess slopes	0-5	Mountains	No	—
	Boreal-taiga mica-rich silty frozen colluvial slopes-Kuskokwim mountains	2-10	Mountains	Yes	2
	Boreal-riparian scrub mica rich silty drains-Frozen	0-5	Drainageways on mountain slopes	Yes	2,3,4
	Boreal-taiga silty schist slopes-Frozen	0-5	Mountain slopes	Yes	2
4FS: Boreal Mica-Rich Low Mountain Footslopes with Continuous Permafrost	Boreal-taiga mica-rich silty frozen colluvial slopes-Kuskokwim mountains	75-90	Mountains	Yes	2
	Boreal-riparian scrub mica rich silty drains-Frozen	2-10	Drainageways on mountain slopes	Yes	2,3,4
	Boreal-taiga mica rich silt loess slopes	2-5	Mountains	No	—
4S1: Alpine Low Schist Mountain Summits with Continuous Permafrost	Alpine-scrub gravelly schist circles-Kuskokwim mountains	20-65	Mountains	No	—
	Alpine-tussock-scrub mica rich silty slopes-Kuskokwim mountains	15-35	Mountains	Yes	2

Hydric Soil List - All Components–AK651-Denali National Park and Preserve Area, Alaska					
Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Alpine-scrub-sedge gravelly schist hummocks-Frozen	15-30	Mountain slopes	Yes	2
4TS: Boreal Mica-Rich Mountain Toeslopes with Continuous Permafrost	Boreal-tussock-scrub mica rich silty loess slopes-Frozen	30-70	Mountains	Yes	2,3
	Boreal-taiga mica-rich silty frozen colluvial slopes-Kuskokwim mountains	20-50	Mountains	Yes	2
	Boreal-riparian scrub mica rich silty drains-Frozen	2-10	Drainageways on mountain slopes	Yes	2,3,4
5MS21: Boreal and Subalpine Schist Mountains with Discontinuous Permafrost	Boreal-forested silty schist slopes-Wet	20-35	Mountains	Yes	2
	Subalpine-scrub gravelly schist colluvial slopes	20-30	Mountains	No	—
	Boreal-taiga gravelly schist slopes-Frozen	15-40	Mountain slopes	Yes	2
	Boreal-forested gravelly schist colluvial slopes	15-25	Mountains	No	—
5P1: Alpine Schist Mountain Summits with Discontinuous Permafrost	Alpine-scrub gravelly schist circles-Frozen	30-50	Mountains	No	—
	Alpine-dwarf scrub gravelly schist steps and lobes	15-55	Mountains	No	—
	Alpine-sedge-dwarf scrub gravelly schist lobes and stripes-Frozen	15-35	Mountains	Yes	2
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	5-15	Mountains	Unranked	—
	Subalpine-scrub-meadow mosaic gravelly schist swales	0-15	Swales on mountains	No	—
5SA1: Alpine Schist Mountains	Alpine-dwarf scrub gravelly schist colluvial slopes	20-45	Ridges on mountains	No	—
	Alpine-dwarf scrub gravelly schist steps and lobes	20-40	Ridges on mountains	No	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Alpine-sedge-dwarf scrub gravelly schist lobes and stripes-Frozen	10-20	Mountains	Yes	2
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	10-25	Mountains	Unranked	—
	Subalpine-scrub-meadow mosaic gravelly schist swales	5-15	Swales on mountains	No	—
5SA2: Alpine and Subalpine Schist Lower Mountain Slopes with Discontinuous Permafrost, Cool	Alpine-scrub gravelly schist circles-Frozen	35-55	Mountains	No	—
	Subalpine-scrub-meadow mosaic gravelly schist swales	15-35	Swales on mountains	No	—
	Alpine-scrub-sedge-gravelly schist hummocks-Frozen	10-20	Mountains	Yes	2
	Alpine-riparian scrub loamy schist flood plains	2-10	Flood plains	No	—
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	2-10	Mountains	Unranked	—
5SA11: Alpine and Subalpine Schist Mountains	Alpine-scrub mosaic gravelly colluvial schist slopes	20-40	Ridges on mountains	No	—
	Subalpine-scrub-meadow mosaic gravelly schist swales	10-25	Swales on mountains	No	—
	Alpine-scrub gravelly schist colluvial slopes-Thick surface	10-25	Mountains	No	—
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	10-20	Mountains	Unranked	—
	Subalpine-scrub gravelly schist colluvial slopes	5-25	Mountains	No	—
5TS1: Alpine Schist Lower Mountain Slopes with Discontinuous Permafrost, Warm	Alpine-scrub gravelly schist circles-Frozen	40-60	Mountains	No	—
	Alpine-scrub gravelly schist colluvial slopes-Thick surface	20-45	Mountains	No	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Alpine-scrub-sedge-gravelly schist hummocks-Frozen	15-25	Mountains	Yes	2
	Alpine-scrub gravelly schist terraces	0-15	Fan terraces on alluvial fans on mountains	No	—
	Alpine-riparian scrub gravelly schist flood plains	0-15	Flood plains on alluvial fans on mountains	No	—
5V1: Alpine Schist Alluvial Fans with Discontinuous Permafrost	Alpine-scrub gravelly schist terraces	30-65	Fan terraces on alluvial fans on mountains	No	—
	Alpine-scrub gravelly schist colluvial toeslopes-Frozen	15-45	Fans on mountains	Yes	2
	Alpine-riparian scrub gravelly schist flood plains	10-35	Flood plains on alluvial fans on mountains	No	—
	Alpine-riparian scrub loamy schist flood plains	5-10	Flood plains	No	—
	Nonvegetated alluvium-Riverwash	2-10	Flood plains	Unranked	—
5V2: Boreal Schist Alluvial Fans	Boreal-forested gravelly schist terraces	50-80	Fan terraces on alluvial fans on mountains	No	—
	Boreal-riparian forested gravelly schist flood plains	15-30	Flood plains on alluvial fans on mountains	No	—
	Nonvegetated alluvium-Riverwash	2-10	Flood plains	Unranked	—
	Boreal-riparian scrub loamy flood plains	2-10	Flood plains	No	—
7AF: Alpine Alluvial Fans	Alpine-scrub silty fan terraces	50-80	Fan terraces on alluvial fans on mountains	No	—
	Alpine-scrub gravelly terraces	15-40	Fan terraces on alluvial fans	No	—
	Nonvegetated alluvium-Riverwash	0-3	Flood plains	Unranked	—
7AF2: Alpine and Boreal Alluvial Fans	Alpine-scrub gravelly terraces	40-65	Fan terraces on alluvial fans	No	—
	Subalpine-riparian scrub gravelly fan terraces	25-45	Flood plains on alluvial fans	No	—
	Nonvegetated alluvium-Riverwash	2-10	Flood plains	Unranked	—
7AFF: Boreal Outwash Plains and Fans with Discontinuous Permafrost	Boreal-woodland gravelly terraces	20-45	Fan terraces on alluvial fans,outwash plains	No	—
	Boreal-riparian forested loamy flood plains-Very wet	10-30	Flood plains on alluvial fans	Yes	2

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Boreal-taiga high elevation loamy terraces-Frozen	20-30	Fan terraces on alluvial fans,outwash plains	Yes	2
	Boreal-riparian scrub gravelly diorite flood plains-Moderately wet	10-20	Flood plains on alluvial fans on mountains	Yes	4
	Nonvegetated alluvium-Riverwash	2-10	Flood plains	Unranked	—
7CE: Alpine Recent Moraines	Alpine-scrub gravelly moraines-Calcareous	50-75	Moraines	No	—
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	15-40	Moraines	Unranked	—
	Alpine-dwarf scrub gravelly diorite fans-Cool	5-20	Depressions on moraines	No	—
	Water	2-5	Lakes	—	—
7CEF: Alpine Recent Moraines, Diorite	Alpine-dwarf scrub gravelly diorite moraines	55-70	Moraines	No	—
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	15-40	Moraines	Unranked	—
	Alpine-dwarf scrub-meadow mosaic gravelly depressions	5-20	Depressions on moraines	No	—
	Water	5-10	Lakes	—	—
7ES: Boreal and Alpine Escarpments	Boreal-forested gravelly colluvial slopes-Dissected	45-70	Escarpments on terraces	No	—
	Alpine-scrub gravelly till slopes	15-30	Escarpments,hills	No	—
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	10-25	Mountains	Unranked	—
7FGA: Alpine Plains and Hills with Continuous Permafrost, Nenana Gravels	Alpine-tussock-scrub silty loess slopes-Frozen	30-60	Alluvial flats on basin floors	Yes	2
	Alpine-scrub-sedge gravelly slopes-Frozen	30-60	Mountains	Yes	2
	Subalpine-riparian scrub loamy drains	2-10	Drainageways on mountains	No	—
7FP1: Boreal Flood Plains and Terraces	Boreal-riparian forested loamy high flood plains	20-60	Flood plains	No	—
	Boreal-riparian scrub gravelly flood plains-Moderately wet	10-50	Channels on flood plains	Yes	4

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Boreal-riparian scrub loamy flood plains	15-30	Flood plains	No	—
	Boreal-riparian scrub gravelly flood plains-Wet	5-15	Channels on flood plains	Yes	2,4
	Boreal-riparian scrub loamy wet flood plains	5-20	Flood plains	Yes	2,4
	Nonvegetated alluvium-Riverwash	2-30	Flood plains	Unranked	—
7FP2: Alpine Flood Plains	Alpine-riparian scrub gravelly flood plains-Moderately wet	15-40	Channels on flood plains	No	—
	Alpine-riparian scrub gravelly flood plains	15-45	Flood plains	No	—
	Nonvegetated alluvium-Riverwash	10-30	Flood plains	Unranked	—
	Alpine-scrub gravelly terraces	5-25	Stream terraces	No	—
	Alpine-riparian scrub loamy flood plains-Wet	5-20	Flood plains	Yes	2
	Alpine-riparian scrub loamy flood plains	5-25	Flood plains	No	—
7FP11: Boreal Diorite Flood Plains	Boreal-riparian forested loamy flood plains-Very wet	25-55	Flood plains on alluvial fans	Yes	2
	Boreal-riparian forested gravelly high flood plains	25-40	Flood plains	No	—
	Boreal-riparian scrub gravelly diorite flood plains-Moderately wet	10-25	Channels on flood plains	Yes	4
	Boreal-riparian scrub loamy wet flood plains	10-15	Flood plains	Yes	2,4
	Nonvegetated alluvium-Riverwash	2-10	Flood plains	Unranked	—
7FP21: Alpine Diorite Terraces and Flood Plains	Alpine-scrub mosaic gravelly diorite terraces	30-60	Stream terraces	No	—
	Alpine-riparian scrub gravelly diorite flood plains-Moderately wet	15-45	Channels on flood plains	No	—
	Alpine-scrub loamy terraces	10-40	Stream terraces	No	—
	Alpine-riparian scrub loamy wet diorite low flood plains-Cool	5-15	Flood plains	Yes	2,3,4

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Nonvegetated alluvium-Riverwash	2-10	Flood plains	Unranked	—
7MFA: Alpine Schist Lower Mountain Slopes with Discontinuous Permafrost	Alpine-sedge-dwarf scrub gravelly schist slopes-Frozen	15-40	Saddles on mountains,mountains	Yes	2
	Alpine-scrub-meadow mosaic gravelly schist swales	20-45	Swales on mountains	No	—
	Alpine-dwarf scrub gravelly schist steps and lobes	15-30	Mountains	No	—
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	2-20	Mountains	Unranked	—
7MS1D: Alpine Dark Sedimentary Mountains	Alpine-dwarf scrub dark gravelly colluvial slopes	25-45	Mountains	No	—
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	10-35	Mountains	Unranked	—
	Alpine-scrub gravelly colluvial slopes	20-35	Mountains	No	—
	Subalpine-scrub-meadow mosaic dark gravelly swales	5-15	Swales on mountains	No	—
	Alpine-dwarf scrub dark gravelly colluvial slopes-Moist	5-15	Mountains	No	—
	Alpine-sedge-dwarf scrub gravelly swales-Frozen	0-5	Saddles on mountains	Yes	2
7MS1L: Alpine Mixed Lithology Mountains	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	20-35	Mountains	Unranked	—
	Alpine-dwarf scrub gravelly colluvial slopes	20-30	Mountains	No	—
	Alpine-scrub gravelly colluvial slopes	15-35	Mountains	No	—
	Alpine-dwarf scrub gravelly colluvial slopes-Moist	5-20	Mountains	No	—
	Subalpine-scrub gravelly colluvial slopes	2-10	Mountains	No	—
	Alpine-sedge-dwarf scrub gravelly swales-Frozen	0-5	Saddles on mountains	Yes	2

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
7MS2: Boreal Glaciated Lower Mountain Slopes	Boreal-forested gravelly till slopes-Moderately wet	30-70	Mountains	No	—
	Boreal-forested gravelly warm till slopes	15-40	Mountains	No	—
	Alpine-scrub gravelly till slopes-Frozen	5-15	Mountains	No	—
	Alpine-scrub gravelly till slopes	5-15	Mountains	No	—
7MS3: Alpine Glaciated Mountains with Discontinuous Permafrost	Alpine-scrub-sedge gravelly till slopes-Frozen	35-60	Mountains	Yes	2
	Alpine-scrub gravelly till circles-Frozen	10-30	Mountains	No	—
	Subalpine-scrub-meadow mosaic gravelly till swales	10-25	Swales on mountains	No	—
	Alpine-dwarf scrub gravelly till slopes	2-10	Mountains	No	—
7MS4: Boreal Lower Mountain Slopes with Continuous Permafrost	Boreal-taiga loamy drift slopes-Frozen	70-90	Mountains	Yes	2
	Boreal-forested gravelly till slopes-Moderately wet	2-10	Mountains	No	—
	Alpine-scrub gravelly till slopes-Frozen	2-10	Mountains	No	—
	Alpine-scrub gravelly till slopes	5-15	Mountains	No	—
7MS31: Alpine Glaciated Mountain Summits and Benches with Discontinuous Permafrost	Alpine-dwarf scrub gravelly till slopes	35-55	Mountains	No	—
	Alpine-scrub-sedge gravelly till slopes-Frozen	25-45	Mountains	Yes	2
	Alpine-scrub-meadow mosaic gravelly till swales	10-25	Swales on hills	No	—
	Alpine-scrub gravelly till circles-Frozen	5-20	Mountains	No	—
	Alpine-dwarf scrub gravelly till slopes-Moist	2-10	Mountains	No	—
7MSA: Alpine Diorite Mountains, Interior	Alpine-dwarf scrub gravelly diorite colluvial slopes	25-60	Mountains	No	—
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	20-50	Mountains	Unranked	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Alpine-dwarf scrub gravelly diorite colluvial slopes-Moist	10-25	Mountains	No	—
	Alpine-dwarf scrub-meadow mosaic gravelly depressions	5-15	Moraines	No	—
7MSC: Alpine Mountain Fans	Alpine-dwarf scrub-meadow mosaic gravelly fan swales	25-50	Flood plains on alluvial fans on mountains	No	—
	Alpine-dwarf scrub gravelly fan terraces	20-45	Fan terraces on alluvial fans on mountains	No	—
	Alpine-dwarf scrub gravelly colluvial slopes	20-40	Mountains	No	—
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	2-10	Mountains	Unranked	—
	Alpine-scrub gravelly colluvial slopes	2-10	Mountains	No	—
	Alpine-dwarf scrub gravelly fan terraces-Moist	2-10	Fan terraces on alluvial fans on mountains	No	—
7MSHD: Alpine Dark Sedimentary Mountains, High Elevation	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	25-60	Mountains	Unranked	—
	Alpine-dwarf scrub dark gravelly colluvial slopes	15-40	Mountains	No	—
	Alpine-dwarf scrub dark gravelly colluvial slopes-Moist	15-30	Mountains	No	—
	Alpine-scrub-meadow mosaic gravelly swales	5-15	Mountains	No	—
	Alpine-sedge-dwarf scrub gravelly swales-Frozen	0-5	Saddles on mountains	Yes	2
7MSHL: Alpine Mixed Lithology Mountains, High Elevation	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	25-55	Mountains	Unranked	—
	Alpine-dwarf scrub gravelly colluvial slopes	20-45	Mountains	No	—
	Alpine-dwarf scrub gravelly colluvial slopes-Moist	20-45	Mountains	No	—
	Alpine-sedge-dwarf scrub gravelly swales-Frozen	0-5	Saddles on mountains	Yes	2

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Alpine-scrub-meadow mosaic gravelly swales	5-10	Mountains	No	—
7MSHS: Alpine Schist Mountains, High Elevation	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	20-45	Mountains	Unranked	—
	Alpine-dwarf scrub gravelly schist colluvial slopes	20-40	Ridges on mountains	No	—
	Alpine-dwarf scrub gravelly schist steps and lobes	15-35	Mountains	No	—
	Alpine-sedge-dwarf scrub gravelly schist slopes-Frozen	5-15	Saddles on mountains	Yes	2
	Alpine-dwarf scrub gravelly schist colluvial slopes-Moist	2-10	Ridges on mountains	No	—
7NG: Alpine Plains and Hills with Discontinuous Permafrost, Nenana Gravels	Alpine-scrub mosaic gravelly slopes	40-60	Hills	No	—
	Alpine-scrub-sedge gravelly slopes-Frozen	15-40	Mountains	Yes	2
	Alpine-scrub gravelly circles-Frozen	5-25	Plains,hills	No	—
	Alpine-scrub-meadow mosaic gravelly till swales	2-10	Swales on hills	No	—
	Alpine-scrub gravelly slopes	2-10	Hills	No	—
7NG2: Alpine Backslopes on Hills, Nenana Gravels	Alpine-scrub gravelly slopes	50-80	Hills	No	—
	Alpine-scrub-meadow mosaic gravelly till swales	10-25	Swales on hills	No	—
	Subalpine-scrub-meadow mosaic gravelly swales-Nenana gravels	15-20	Swales on hills	No	—
	Alpine-dwarf scrub gravelly till slopes	2-10	Hills	No	—
7P1: Alpine Glaciated Plains and Hills with Discontinuous Permafrost	Alpine-scrub gravelly outwash slopes	45-65	Hills,pitted outwash plains	No	—
	Alpine-scrub-sedge loamy terraces-Frozen	15-30	Fan terraces on outwash plains on mountains	Yes	2

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Subalpine-scrub-meadow mosaic gravelly till swales	5-15	Depressions on hills,swales on outwash plains	No	—
7P2: Boreal Glaciated Plains and Hills	Boreal-forested gravelly outwash slopes	60-85	Hills,pitted outwash plains	No	—
	Boreal-meadow loamy outwash slope depressions	10-25	Kettles on outwash plains,kettles on hills	No	—
	Water	2-5	Lakes	—	—
	Alpine-wet meadow gravelly pond margins	2-5	Kettles	Yes	2
7P4: Boreal Glaciated Plains and Hills with Discontinuous Permafrost	Boreal-forested gravelly till slopes	25-45	Hills,till plains	No	—
	Boreal-taiga loamy drift slopes-Frozen	25-45	Outwash plains	Yes	2
	Boreal-forested gravelly outwash slopes	15-40	Hills,pitted outwash plains	No	—
	Boreal-taiga/tussock silty frozen loess slopes-Alaska mountains	5-15	Plateaus	Yes	2
	Water	2-5	Lakes	—	—
	Alpine-wet meadow gravelly pond margins	2-3	Kettles	Yes	2
7P6: Boreal Outwash Plains with Continuous Permafrost	Boreal-taiga high elevation loamy terraces-Frozen	55-85	Fan terraces on alluvial fans,outwash plains	Yes	2
	Boreal-woodland gravelly terraces	10-25	Outwash plains	No	—
	Boreal-riparian tall scrub silty frozen drains	5-10	Drainageways on outwash plains	Yes	2,3,4
7SA1: Alpine and Subalpine Mountains	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	15-40	Mountains	Unranked	—
	Alpine-dwarf scrub dark gravelly colluvial slopes	20-35	Mountains	No	—
	Alpine-scrub gravelly colluvial slopes	10-20	Mountains	No	—
	Subalpine-scrub gravelly colluvial slopes-Dry	10-20	Mountains	No	—
	Subalpine-scrub-meadow mosaic dark gravelly swales	5-15	Swales on mountains	No	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
7SA3: Alpine and Subalpine Glaciated Mountains with Discontinuous Permafrost	Subalpine-scrub-meadow mosaic gravelly till swales	30-60	Swales on mountains	No	—
	Alpine-scrub gravelly till slopes-Frozen	20-45	Benches on mountains	No	—
	Alpine-scrub gravelly till slopes	15-30	Mountains	No	—
7SA31: Subalpine Mountains	Subalpine-scrub gravelly colluvial slopes	30-55	Mountains	No	—
	Subalpine-scrub-meadow mosaic gravelly till swales	10-25	Swales on mountains	No	—
	Alpine-scrub gravelly till slopes	15-30	Mountains	No	—
	Alpine-scrub mosaic gravelly till slopes	10-20	Ridges,mountains	No	—
	Alpine-sedge-dwarf scrub gravelly swales-Frozen	0-10	Saddles on mountains	Yes	2
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	2-10	Mountains	Unranked	—
7ST: Alpine Terraces	Alpine-scrub gravelly terraces	55-75	Stream terraces	No	—
	Alpine-scrub loamy terraces	15-30	Stream terraces	No	—
	Alpine-riparian scrub gravelly flood plains	2-15	Flood plains	No	—
7STF: Alpine Terraces and Outwash Plains with Continuous Permafrost	Boreal-taiga/tussock silty frozen terraces-Alaska mountains	20-75	Outwash plains,stream terraces	Yes	2,3
	Boreal-taiga high elevation loamy terraces-Frozen	15-50	Stream terraces,outwash plains	Yes	2
	Boreal-forested gravelly till slopes	2-10	Till plains	No	—
7TM: Alpine Glaciated Low Mountains with Discontinuous Permafrost	Alpine-dwarf scrub gravelly till slopes	20-50	Mountains	No	—
	Alpine-scrub gravelly till circles-Frozen	15-35	Mountains	No	—
	Alpine-scrub-sedge gravelly till slopes-Frozen	15-35	Mountains	Yes	2
	Alpine-scrub-meadow mosaic gravelly till swales	10-20	Swales on hills,swales on till plains	No	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Alpine-dwarf scrub gravelly till slopes-Moist	5-20	Mountains	No	—
7TM1: Alpine Glaciated Mountains with Discontinuous Permafrost, High Elevation	Alpine-dwarf scrub gravelly till steps and lobes	20-50	Mountains	No	—
	Alpine-scrub-sedge gravelly till slopes-Frozen	15-30	Mountains	Yes	2
	Alpine-scrub-meadow mosaic gravelly till swales	10-25	Swales on hills	No	—
	Alpine-dwarf scrub gravelly till slopes-Moist	5-20	Mountains	No	—
	Subalpine-scrub-meadow mosaic gravelly till swales	2-10	Swales on mountains	No	—
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	5-15	Mountains	Unranked	—
7TM2: Alpine Glaciated Mountains with Discontinuous Permafrost, Cool	Alpine-scrub gravelly till slopes-Frozen	30-60	Benches on mountains	No	—
	Alpine-dwarf scrub gravelly till slopes	15-30	Mountains	No	—
	Subalpine-scrub-meadow mosaic gravelly till swales	10-20	Swales on mountains	No	—
	Alpine-scrub gravelly till slopes	10-20	Mountains	No	—
	Alpine-dwarf scrub gravelly till slopes-Moist	3-10	Mountains	No	—
	Alpine-scrub-meadow mosaic gravelly till swales	0-5	Swales on hills,swales on till plains	No	—
7TM21: Alpine Glaciated Low Diorite Mountains with Discontinuous Permafrost	Alpine-dwarf scrub gravelly diorite till slopes	25-40	Mountains	No	—
	Alpine-dwarf scrub gravelly diorite till hummocks and lobes	20-35	Mountains	No	—
	Alpine-scrub gravelly diorite till slopes	10-25	Mountains	No	—
	Alpine-scrub-meadow mosaic gravelly diorite swales	10-25	Mountains	No	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
7TM24: Alpine Diorite Mountains with Discontinuous Permafrost	Alpine-dwarf scrub gravelly diorite colluvial slopes	25-45	Mountains	No	—
	Alpine-dwarf scrub gravelly diorite fans	20-35	Fan terraces on alluvial fans on mountains	No	—
	Alpine-scrub gravelly diorite till slopes-Frozen	10-30	Mountains	No	—
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	5-20	Mountains	Unranked	—
	Alpine-scrub-meadow mosaic gravelly diorite swales	5-15	Mountains	No	—
	Subalpine-scrub-meadow mosaic gravelly till swales	2-10	Swales on mountains	No	—
7TMS: Alpine Glaciated Low Mountain Summits	Alpine-dwarf scrub gravelly till slopes	35-70	Mountains	No	—
	Alpine-dwarf scrub gravelly till steps and lobes	20-50	Mountains,cirque floors	No	—
	Alpine-dwarf scrub gravelly till slopes-Moist	10-20	Mountains	No	—
	Alpine-dwarf scrub gravelly diorite fans-Cool	5-20	Depressions on cirque floors,depressions on mountains	No	—
7TP: Alpine Till Plains with Discontinuous Permafrost	Alpine-scrub-sedge gravelly till slopes-Frozen	40-70	Hills,till plains	Yes	2
	Alpine-scrub-meadow mosaic gravelly till swales	5-25	Swales on hills,swales on till plains	No	—
	Alpine-scrub gravelly till circles-Frozen	5-20	Hills,till plains	No	—
	Alpine-sedge wet meadow organic depressions-Frozen	5-15	Fens on till plains	Yes	1,3
	Water	2-5	Lakes	—	—
	Alpine-wet meadow gravelly pond margins	2-5	Kettles	Yes	2
7TP2: Alpine Till Plains and Hills with Discontinuous Permafrost	Alpine-scrub gravelly till slopes	25-50	Hills	No	—
	Alpine-scrub-sedge gravelly till slopes-Frozen	15-30	Hills,till plains	Yes	2

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Alpine-scrub mosaic gravelly till slopes	20-35	Ridges on hills	No	—
	Subalpine-scrub-meadow mosaic gravelly till swales	10-25	Swales on hills,swales on till plains	No	—
	Water	2-5	Lakes	—	—
	Alpine-wet meadow gravelly pond margins	2-5	Kettles	Yes	2
7TP3: Boreal and Alpine Hills with Discontinuous Permafrost	Alpine-scrub gravelly till slopes	15-40	Hills	No	—
	Boreal-taiga gravelly till slopes-Frozen	20-35	Hills,till plains	Yes	2
	Boreal-forested gravelly till slopes-Moderately wet	20-40	Hills	No	—
	Alpine-scrub-sedge gravelly till slopes-Frozen	10-20	Till plains,hills	Yes	2
	Water	2-5	Lakes	—	—
	Alpine-wet meadow gravelly pond margins	2-5	Kettles	Yes	2
7TP4: Boreal and Alpine Till Plains with Continuous Permafrost	Alpine-scrub-sedge gravelly till slopes-Frozen	35-50	Till plains	Yes	2
	Boreal-taiga gravelly till slopes-Frozen	35-60	Hills,till plains	Yes	2
	Boreal-sedge/ sphagnum bog organic depressions	2-5	Bogs on hills,bogs on till plains	Yes	1,3
	Boreal-riparian tall scrub silty frozen drains	1-5	Drainageways on hills,drainageways on till plains	Yes	2,3,4
	Water	2-5	Lakes	—	—
7TP5: Boreal and Alpine Till Plains and Hills with Discontinuous Permafrost	Boreal-taiga gravelly till slopes-Frozen	55-75	Hills,till plains	Yes	2
	Alpine-scrub gravelly till slopes	15-35	Hills	No	—
	Boreal-riparian tall scrub silty frozen drains	2-10	Drainageways on till plains,drainageways on hills	Yes	2,3,4
	Boreal-sedge/ sphagnum bog organic depressions	1-5	Bogs on hills,bogs on till plains	Yes	1,3
	Water	1-5	Lakes	—	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
7TP8: Alpine Glaciated Diorite Plains and Hills	Alpine-scrub gravelly diorite till slopes	25-45	Hills,till plains	No	—
	Alpine-dwarf scrub gravelly diorite till slopes	25-40	Hills	No	—
	Alpine-scrub-meadow mosaic gravelly diorite swales	5-20	Hills,till plains	No	—
	Water	2-5	Lakes	—	—
	Alpine-wet meadow gravelly pond margins	2-5	Kettles	Yes	2
	Boreal-sedge/ sphagnum bog organic depressions	1-5	Bogs on till plains,bogs on hills	Yes	1,3
7V1: Alpine Lower Mountain Slopes and Fans with Discontinuous Permafrost	Alpine-scrub gravelly terraces	20-50	Fan terraces on alluvial fans on mountains	No	—
	Alpine-scrub-sedge loamy terraces-Frozen	15-30	Fan terraces on alluvial fans on mountains	Yes	2
	Alpine-scrub-sedge gravelly till slopes-Frozen	10-20	Mountains	Yes	2
	Alpine-riparian scrub gravelly flood plains	5-15	Flood plains	No	—
	Nonvegetated alluvium-Riverwash	2-10	Flood plains	Unranked	—
	Alpine-scrub silty fan terraces	2-10	Fan terraces on alluvial fans on mountains	No	—
7V1A: Alpine Diorite Fans	Alpine-dwarf scrub gravelly diorite fans	40-70	Fan terraces on alluvial fans on mountains	No	—
	Alpine-scrub mosaic gravelly diorite terraces	20-40	Stream terraces	No	—
	Nonvegetated alluvium-Riverwash	2-10	Flood plains	Unranked	—
	Alpine-scrub loamy diorite terraces-Frozen	5-10	Fan terraces on alluvial fans on mountains	Yes	2
7V1B: Alpine and Subalpine Diorite Fans and Flood Plains with Discontinuous Permafrost	Alpine-scrub mosaic gravelly diorite terraces	30-45	Fan terraces on alluvial fans on mountains	No	—
	Alpine-scrub loamy diorite terraces-Frozen	25-45	Fan terraces on alluvial fans on mountains	Yes	2

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Subalpine-riparian scrub gravelly diorite flood plains	15-25	Flood plains on alluvial fans on mountains	No	—
	Alpine-riparian scrub gravelly diorite flood plains-Moderately wet	2-25	Channels on flood plains	No	—
	Nonvegetated alluvium-Riverwash	2-5	Flood plains	Unranked	—
7V2: Boreal Fans and Mountain Footslopes	Boreal-forested loamy fan terraces	40-60	Fan terraces on alluvial fans on mountains	No	—
	Boreal-woodland gravelly terraces	15-30	Outwash plains,fan terraces on alluvial fans	No	—
	Alpine-scrub gravelly terraces	10-20	Fan terraces on alluvial fans on mountains	No	—
	Boreal-riparian forested gravelly fans	5-15	Flood plains on alluvial fans on mountains	No	—
	Boreal-riparian scrub gravelly flood plains-Moderately wet	2-10	Channels on flood plains	Yes	4
7V5: Alpine Fans with Discontinuous Permafrost	Alpine-dwarf scrub gravelly fan terraces	45-65	Fan terraces on alluvial fans on mountains	No	—
	Alpine-scrub-sedge loamy terraces-Frozen	15-30	Fan terraces on alluvial fans on mountains	Yes	2
	Alpine-riparian scrub gravelly flood plains-Cool	10-20	Flood plains on alluvial fans on mountains	No	—
	Alpine-scrub gravelly terraces	5-20	Fan terraces on alluvial fans on mountains	No	—
	Nonvegetated alluvium-Riverwash	2-10	Flood plains	Unranked	—
7V11: Alpine Fans	Alpine-riparian scrub gravelly flood plains	20-55	Flood plains	No	—
	Nonvegetated alluvium-Riverwash	10-40	Flood plains	Unranked	—
	Alpine-scrub gravelly terraces	15-40	Fan terraces on alluvial fans on mountains	No	—
	Alpine-riparian scrub gravelly flood plains-Moderately wet	10-35	Channels on flood plains	No	—
	Alpine-riparian scrub loamy flood plains	5-15	Flood plains	No	—
	Alpine-dwarf scrub gravelly fan terraces	5-15	Fan terraces on alluvial fans on mountains	No	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
8FP1: Alpine Schist Flood Plains and Terraces	Alpine-riparian scrub gravelly schist flood plains-Moderately wet	15-60	Channels on flood plains	No	—
	Alpine-riparian scrub gravelly schist flood plains	20-60	Flood plains	No	—
	Alpine-riparian scrub loamy schist flood plains-Wet	10-30	Flood plains	Yes	2,3,4
	Nonvegetated alluvium-Riverwash	2-10	Flood plains	Unranked	—
8FP2: Boreal Schist Flood Plains and Terraces	Boreal-riparian scrub gravelly schist flood plains-Moderately wet	20-40	Channels on flood plains	Yes	4
	Boreal-riparian forested gravelly schist flood plains	20-40	Flood plains	No	—
	Alpine-scrub gravelly schist terraces	15-30	Stream terraces	No	—
	Boreal-riparian scrub loamy schist flood plains-Wet	10-20	Flood plains	Yes	2,3,4
	Nonvegetated alluvium-Riverwash	2-10	Flood plains	Unranked	—
8LM: Alpine Low Loess Mountains with Discontinuous Permafrost	Alpine-scrub-sedge silty hummocks-Frozen	30-45	Mountains	Yes	2
	Alpine-tussock-scrub mica rich silty slopes-Frozen	20-45	Mountains	Yes	2,3
	Alpine-scrub gravelly schist circles-Frozen	5-25	Mountains	No	—
	Subalpine-scrub-meadow mosaic gravelly schist swales	5-15	Swales on mountains	No	—
	Boreal-taiga gravelly schist slopes-Frozen	2-15	Mountain slopes	Yes	2
8LM1: Alpine Low Schist Mountains with Discontinuous Permafrost	Alpine-scrub-sedge-gravelly schist hummocks-Frozen	35-50	Mountains	Yes	2
	Alpine-scrub gravelly schist circles-Frozen	10-25	Mountains	No	—
	Alpine-tussock-scrub gravelly schist slopes-Frozen	15-35	Mountains	Yes	2,3
	Alpine-dwarf scrub gravelly schist colluvial slopes	5-30	Ridges on mountains	No	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Subalpine-scrub-meadow mosaic gravelly schist swales	5-15	Swales on mountains	No	—
8LMF: Boreal Lower Mountain Slopes, Thermokarsted	Boreal-taiga high elevation silty mica-rich loess hills-Frozen	50-75	Mountains	No	—
	Boreal-taiga/tussock mica rich silty loess slopes-Frozen	10-30	Mountains	Yes	2,3
	Boreal-riparian tall scrub silty frozen drains	2-5	Drainageways on mountains	Yes	2,3,4
8LMV: Alpine and Subalpine Schist Mountain Valleys	Alpine-dwarf scrub gravelly schist colluvial slopes	20-50	Ridges on mountains	No	—
	Alpine-scrub gravelly schist colluvial slopes-Thick surface	20-35	Mountains	No	—
	Subalpine-scrub gravelly schist colluvial slopes	15-30	Mountains	No	—
	Subalpine-scrub-meadow mosaic gravelly schist swales	10-20	Swales on mountains	No	—
	Alpine-scrub gravelly schist colluvial toeslopes-Frozen	2-5	Mountains	Yes	2
8MBS: Alpine Schist Mountains with Discontinuous Permafrost	Alpine-scrub gravelly schist colluvial slopes	25-45	Mountains	No	—
	Alpine-sedge-dwarf scrub gravelly schist slopes-Frozen	15-40	Saddles on mountains,mountains	Yes	2
	Alpine-scrub mosaic gravelly colluvial schist slopes	20-35	Ridges on mountains	No	—
	Subalpine-scrub-meadow mosaic gravelly schist swales	10-20	Swales on mountains	No	—
	Alpine-scrub-meadow mosaic gravelly schist swales	5-20	Swales on mountains	No	—
	Alpine-riparian scrub gravelly schist flood plains-Moderately wet	2-5	Channels on flood plains	Yes	4

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
8MFS: Alpine and Subalpine Schist Lower Mountain Slopes with Discontinuous Permafrost	Alpine-scrub gravelly schist colluvial toeslopes-Frozen	25-50	Mountains	Yes	2
	Alpine-scrub gravelly schist colluvial slopes	25-55	Mountains	No	—
	Subalpine-scrub-meadow mosaic gravelly schist swales	15-40	Swales on mountains	No	—
8MFS1: Boreal Schist Lower Mountain Slopes with Continuous Permafrost	Boreal-taiga gravelly schist slopes-Frozen	55-70	Mountain slopes	Yes	2
	Alpine-scrub gravelly schist colluvial toeslopes-Frozen	10-35	Mountains	Yes	2
	Alpine-tussock-scrub gravelly schist slopes-Frozen	10-35	Mountains	Yes	2,3
	Boreal-riparian scrub loamy schist flood plains-Wet	2-5	Flood plains	Yes	2,3,4
	Alpine-scrub gravelly schist colluvial slopes-Thick surface	2-10	Mountains	No	—
8MS: Alpine Schist Mountain Ridges with Discontinuous Permafrost	Alpine-dwarf scrub gravelly schist colluvial slopes	20-60	Ridges on mountains	No	—
	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	10-30	Mountains	Unranked	—
	Alpine-sedge-dwarf scrub gravelly schist lobes and stripes-Frozen	10-25	Mountains	Yes	2
	Alpine-sedge-dwarf scrub gravelly schist slopes-Frozen	10-20	Saddles on mountains	Yes	2
	Alpine-scrub gravelly schist colluvial slopes-Thick surface	2-10	Mountains	No	—
	Alpine-scrub gravelly schist circles-Frozen	5-15	Mountains	No	—
8MVF: Boreal and Subalpine Schist Mountain Valleys	Boreal-forested silty schist slopes-Wet	35-60	Valleys on mountains	Yes	2
	Boreal-forested gravelly schist colluvial slopes	10-40	Valleys on mountains	No	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Subalpine-scrub-meadow mosaic gravelly schist swales	10-25	Swales on mountains	No	—
	Subalpine-scrub gravelly schist colluvial slopes	10-20	Mountains	No	—
	Alpine-scrub gravelly schist colluvial slopes	5-20	Mountains	No	—
8ST1: Alpine Schist Terraces and Mountain Toeslopes with Discontinuous Permafrost	Alpine-tussock-scrub gravelly schist slopes-Frozen	25-50	Fans on mountains	Yes	2,3
	Alpine-scrub gravelly schist colluvial toeslopes-Frozen	15-45	Fans on mountains	Yes	2
	Alpine-scrub gravelly schist terraces	15-30	Stream terraces	No	—
	Boreal-taiga/tussock mica rich silty loess slopes-Frozen	5-20	Mountains	Yes	2,3
9AF: Subalpine Fans	Subalpine-scrub gravelly fan terraces	70-90	Fan terraces on alluvial fans on mountains	No	—
	Boreal-riparian forested gravelly high flood plains-Cook inlet	2-10	Channels on flood plains	No	—
	Nonvegetated alluvium-Riverwash	2-10	Flood plains on alluvial fans on mountains	Unranked	—
	Alpine-scrub gravelly wet till swales	2-10	Depressions on alluvial fans on mountains	Yes	2
9AF2: Boreal Fans	Boreal-riparian forested gravelly high flood plains-Cook inlet	30-75	Flood plains on alluvial fans on mountains	No	—
	Boreal-forested gravelly fan terraces	20-60	Fan terraces on alluvial fans on mountains	No	—
	Nonvegetated alluvium-Riverwash	2-10	Flood plains on alluvial fans on mountains	Unranked	—
	Boreal-riparian forested hardwood gravelly flood plains	2-10	Flood plains on alluvial fans	No	—
9CE: Alpine, Subalpine, and Boreal Recent Moraines	Subalpine-scrub gravelly moraines	30-60	Moraines	No	—
	South Central-nonvegetated rock outcrop-Ice, talus, and/or drift	20-50	Moraines	Unranked	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Boreal-woodland gravelly moraines	20-40	Moraines	No	—
	Nonvegetated alluvium-Riverwash	0-10	Flood plains on alluvial fans on mountains	Unranked	—
9MSA: Alpine Diorite Mountains	Alpine-dwarf scrub gravelly diorite colluvial slopes-Warm	20-40	Mountains	No	—
	South Central-nonvegetated rock outcrop-Ice, talus, and/or drift	20-40	Mountains	Unranked	—
	Alpine-dwarf scrub gravelly diorite colluvial slopes-Cool	15-30	Mountains	No	—
	Alpine-dwarf scrub-meadow mosaic gravelly diorite swales	5-20	Mountains	No	—
	Alpine-dwarf scrub silty hummocks	0-10	Mountains	No	—
9MSH: Alpine Mountains	South Central-nonvegetated rock outcrop-Ice, talus, and/or drift	25-40	Mountains	Unranked	—
	Alpine-dwarf scrub gravelly colluvial slopes-Warm	10-35	Mountains	No	—
	Alpine-scrub-meadow mosaic gravelly colluvial slopes	10-25	Mountains	No	—
	Alpine-dwarf scrub gravelly colluvial slopes-Cool	10-30	Mountains	No	—
	Alpine-dwarf scrub-meadow mosaic gravelly colluvial slopes	5-20	Mountains	No	—
	Alpine-dwarf scrub silty hummocks	0-10	Mountains	No	—
9MSH1: Alpine Low Mountains	Alpine-dwarf scrub silty hummocks	20-40	Mountains	No	—
	South Central-nonvegetated rock outcrop-Ice, talus, and/or drift	10-30	Mountains	Unranked	—
	Alpine-dwarf scrub gravelly colluvial slopes-Warm	15-30	Mountains	No	—
	Alpine-scrub-meadow mosaic gravelly colluvial slopes	10-30	Mountains	No	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Alpine-dwarf scrub gravelly colluvial slopes-Cool	5-20	Mountains	No	—
	Alpine-scrub gravelly colluvial slopes-Warm	5-10	Mountains	No	—
9SA4: Alpine Lower Mountain Colluvial Slopes	Alpine-scrub-meadow mosaic gravelly colluvial slopes	50-80	Mountains	No	—
	South Central-nonvegetated rock outcrop-Ice, talus, and/or drift	10-30	Mountains	Unranked	—
	Alpine-scrub gravelly colluvial slopes-Warm	5-20	Mountains	No	—
	Alpine-dwarf scrub gravelly colluvial slopes-Cool	3-10	Mountains	No	—
	Alpine-dwarf scrub gravelly colluvial slopes-Warm	2-10	Mountains	No	—
9SA5: Subalpine Mountain Colluvial Slopes	Subalpine-scrub-meadow mosaic gravelly colluvial slopes	45-80	Mountains	No	—
	Alpine-scrub gravelly colluvial slopes-Warm	10-20	Mountains	No	—
	South Central-nonvegetated rock outcrop-Ice, talus, and/or drift	5-25	Mountains	Unranked	—
	Alpine-dwarf scrub silty till hummocks	5-15	Mountains	No	—
9SA6: Subalpine Glaciated Mountains	Subalpine-scrub-meadow mosaic silty till slopes	65-85	Mountains	No	—
	Alpine-scrub-meadow mosaic silty till slopes	5-15	Mountains	No	—
	Alpine-scrub gravelly till slopes-Warm	5-10	Mountains	No	—
	Alpine-dwarf scrub silty till hummocks	2-5	Mountains	No	—
	Alpine-sedge wet meadow organic depressions	0-5	Fens on benches on mountains	Yes	1

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
9SA44: Alpine Glaciated Lower Mountain Slopes	Alpine-scrub-meadow mosaic silty till slopes	30-70	Mountains	No	—
	Alpine-scrub gravelly till slopes-Warm	15-25	Mountains	No	—
	Alpine-dwarf scrub gravelly till hummocks	10-20	Mountains	No	—
	Alpine-scrub gravelly wet till swales	5-15	Depressions on mountains	Yes	2
	Alpine-dwarf scrub silty till hummocks	2-15	Mountains	No	—
	South Central-nonvegetated rock outcrop-Ice, talus, and/or drift	2-10	Mountains	Unranked	—
9SA61: Subalpine Glaciated Benches on Lower Mountain Slopes	Subalpine-scrub-meadow mosaic silty till slopes	50-70	Benches on mountains	No	—
	Alpine-scrub gravelly wet till swales	10-20	Depressions on benches on mountains	Yes	2
	Alpine-sedge wet meadow organic depressions	10-20	Fens on benches on mountains	Yes	1
	Alpine-scrub-meadow mosaic silty till slopes	2-20	Mountains	No	—
9SA62: Subalpine and Alpine Glaciated Benches on Lower Mountain Slopes	Subalpine-scrub-meadow mosaic silty till slopes	65-80	Mountains	No	—
	Alpine-scrub gravelly wet till swales	10-20	Depressions on mountains,drainage ways on mountains	Yes	2
	Alpine-scrub gravelly till slopes-Warm	0-15	—	No	—
	Alpine-sedge wet meadow organic depressions	2-10	Fens on benches on mountains	Yes	1
9SA66: Subalpine Glaciated Lower Mountain Backslopes	Subalpine-scrub-meadow mosaic gravelly colluvial slopes	20-45	Mountains	No	—
	Subalpine-scrub-meadow mosaic silty till slopes	20-30	Mountains	No	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
	Alpine-scrub gravelly colluvial slopes-Warm	10-20	Mountains	No	—
	South Central-nonvegetated rock outcrop-Ice, talus, and/or drift	5-15	Mountains	Unranked	—
	Alpine-dwarf scrub silty till hummocks	5-15	Mountains	No	—
	Alpine-scrub gravelly wet till swales	2-10	Drainageways on mountains,depressions on mountains	Yes	2
9TM: Alpine and Subalpine Glaciated Mountain Backslopes	Alpine-scrub-meadow mosaic silty till slopes	20-50	Mountains	No	—
	Subalpine-scrub-meadow mosaic silty till slopes	10-30	Mountains	No	—
	Alpine-scrub gravelly till slopes-Warm	10-30	—	No	—
	Alpine-scrub-meadow mosaic gravelly colluvial slopes	5-20	Mountains	No	—
	South Central-nonvegetated rock outcrop-Ice, talus, and/or drift	2-10	Mountains	Unranked	—
	Alpine-scrub gravelly wet till swales	2-20	Depressions,mountains	Yes	2
9TM3: Alpine Cirque Valleys	Alpine-dwarf scrub silty till hummocks	20-45	Mountains	No	—
	Alpine-dwarf scrub gravelly till hummocks	15-45	Mountains	No	—
	Alpine-scrub mosaic gravelly till drains	5-25	Drainageways on mountains	Yes	2
	South Central-nonvegetated rock outcrop-Ice, talus, and/or drift	5-15	Mountains	Unranked	—
	Alpine-scrub-meadow mosaic silty till slopes	5-25	—	No	—
	Alpine-dwarf scrub-meadow mosaic gravelly colluvial slopes	2-10	Mountains	No	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
9TM4: Alpine Diorite Cirque Valleys	Alpine-dwarf scrub silty till hummocks	25-50	Mountains	No	—
	Alpine-dwarf scrub gravelly diorite till slopes-Warm	15-50	Mountains	No	—
	Alpine-scrub-meadow mosaic gravelly diorite colluvial slopes	10-25	Mountains	No	—
	South Central-nonvegetated rock outcrop-Ice, talus, and/or drift	5-20	Mountains	Unranked	—
9TMF: Boreal and Subalpine Lower Mountain Slopes	Boreal-forested silty till slopes-Ash influenced, warm	35-60	Mountains	No	—
	Subalpine-scrub-meadow mosaic silty till slopes	20-40	Mountains	No	—
	Boreal-forested silty wet till slopes-Ash influenced	5-20	Depressions on mountains	Yes	2
	Boreal-sedge bog organic depressions	2-15	Bogs	Yes	1,3
9TP: Alpine Till Plains and Hills	Alpine-scrub-meadow mosaic silty till slopes	30-50	Hills,till plains	No	—
	Alpine-dwarf scrub silty till hummocks	20-40	Hills,till plains	No	—
	Alpine-scrub gravelly wet till swales	10-25	Depressions on hills,depressions on till plains	Yes	2
	Alpine-sedge wet meadow organic depressions	10-20	Fens	Yes	1
	Alpine-scrub gravelly till hummocks	5-25	Till plains	No	—
9V12: Alpine Fans and Flood Plains, High Elevation	Alpine-dwarf scrub gravelly fan terraces-Warm	20-55	Fan terraces on alluvial fans on mountains	No	—
	Nonvegetated alluvium-Riverwash	10-50	Flood plains	Unranked	—
	Alpine-dwarf scrub gravelly fan terraces	10-35	Fan terraces on alluvial fans on mountains	No	—
	Alpine-riparian scrub gravelly flood plains-Warm	5-20	Channels on flood plains	No	—
	Alpine-riparian scrub loamy flood plains-Warm	2-15	Flood plains	No	—

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Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
10ES: Subalpine and Alpine Plateau Escarpments with Discontinuous Permafrost	Boreal-forested gravelly colluvial slopes-Dissected	20-35	Escarpments on plateaus	No	—
	Alpine-scrub-sedge gravelly slopes-Frozen	15-30	Escarpments on plateaus,escarpments on mountains	Yes	2
	Subalpine-forested hardwood gravelly colluvial slopes	15-40	Escarpments on plateaus	No	—
	Subalpine-scrub-meadow mosaic gravelly swales-Nenana gravels	15-20	Swales on escarpments,swales on mountains	No	—
	Alpine-scrub gravelly slopes	5-15	Mountains	No	—
10ES1: Boreal Terrace Escarpments with Discontinuous Permafrost	Boreal-forested gravelly colluvial slopes-Dissected	50-70	Escarpments on plateaus	No	—
	Alpine-scrub-sedge gravelly slopes-Frozen	10-30	Escarpments on plateaus,mountains	Yes	2
	Boreal-taiga high elevation silty loess slopes-Frozen	15-20	Escarpments on plateaus	Yes	2
	Subalpine-riparian scrub loamy drains	5-15	Drainageways on mountains,drainage ways on plateaus	No	—
10LM: Alpine Low Mountains with Discontinuous Permafrost, Nenana Gravels	Alpine-scrub-sedge gravelly slopes-Frozen	45-70	Mountains	Yes	2
	Alpine-scrub mosaic gravelly slopes	10-25	Mountains	No	—
	Subalpine-scrub-meadow mosaic gravelly swales-Nenana gravels	5-10	Swales on mountains	No	—
	Subalpine-riparian scrub loamy drains	5-10	Drainageways on mountains	No	—
	Alpine-scrub gravelly slopes	2-10	Mountains	No	—
10P1: Alpine Plateaus and Mountain Summits with Discontinuous Permafrost, Nenana Gravels	Alpine-scrub gravelly circles-Frozen	35-60	Hills,till plains	No	—
	Alpine-scrub-sedge gravelly slopes-Frozen	25-50	Mountains	Yes	2
	Subalpine-scrub-meadow mosaic gravelly swales-Nenana gravels	2-10	Swales on mountains	No	—

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10P3: Boreal Dissected Plateaus with Discontinuous Permafrost	Boreal-taiga high elevation silty loess slopes-Frozen	30-55	Plateaus,mountains	Yes	2
	Boreal-taiga/tussock silty frozen loess slopes-Alaska mountains	20-45	Plateaus	Yes	2,3
	Boreal-taiga high elevation silty mica-rich loess hills-Frozen	10-30	Mountains	No	—
	Boreal-forested gravelly colluvial slopes-Dissected	5-15	Escarpments on terraces	No	—
10P4: Alpine and Subalpine Plateau Summits	Alpine-scrub mosaic gravelly slopes	30-45	Hills on plateaus	No	—
	Alpine-scrub gravelly circles-Frozen	30-45	Hills,plateaus	No	—
	Alpine-scrub-sedge gravelly slopes-Frozen	20-40	Mountains	Yes	2
10SU: Boreal Plateaus with Continuous Permafrost, Wet	Alpine-tussock-scrub silty loess slopes-Frozen	65-90	Mountains,plateaus	Yes	2,3
	Alpine-scrub-sedge gravelly slopes-Frozen	10-30	Plateaus,mountains	Yes	2
	Boreal-taiga gravelly slopes-Frozen	0-10	Mountains	Yes	2
10TS: Boreal Plateaus with Continuous Permafrost	Boreal-taiga high elevation silty loess slopes-Frozen	45-65	Plateaus	Yes	2
	Boreal-taiga/tussock silty frozen loess slopes-Alaska mountains	25-50	Plateaus	Yes	2,3
	Alpine-scrub organic mounds-Frozen	5-15	Basin floors	No	—
10TS1: Boreal Mountain Toeslopes with Discontinuous Permafrost, Nenana Gravels	Boreal-taiga gravelly slopes-Frozen	40-70	Mountains	Yes	2
	Boreal-taiga/tussock silty frozen loess slopes-Alaska mountains	15-30	Plateaus	Yes	2,3
	Boreal-taiga loamy drift slopes-Frozen	5-15	Mountains	Yes	2
	Subalpine-riparian scrub loamy drains	5-15	Drainageways on mountains	No	—

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10V2: Boreal Terraces and Plateau Toeslopes with Continuous Permafrost	Boreal-taiga/tussock silty frozen terraces-Alaska mountains	65-85	Stream terraces	Yes	2,3
	Boreal-taiga high elevation loamy terraces-Frozen	20-40	Stream terraces	Yes	2
	Boreal-riparian scrub gravelly flood plains	2-10	Flood plains	No	—
11FP: Boreal Flood Plains, High Elevation	Boreal-riparian forested loamy high flood plains	20-45	Flood plains	No	—
	Boreal-riparian scrub gravelly flood plains-Moderately wet	15-30	Channels on flood plains	Yes	4
	Boreal-riparian scrub gravelly flood plains	15-30	Flood plains	No	—
	Boreal-riparian scrub loamy wet flood plains	5-20	Flood plains	Yes	2,4
	Nonvegetated alluvium-Riverwash	5-15	Flood plains	Unranked	—
	Boreal-riparian scrub gravelly flood plains-Wet	2-10	Channels on flood plains	Yes	2,4
11P: Alpine Plains with Continuous Permafrost	Alpine-tussock-scrub silty loess slopes-Frozen	70-90	Alluvial flats on basin floors	Yes	2,3
	Alpine-scrub organic mounds-Frozen	5-10	Basin floors	No	—
	Subalpine-riparian scrub loamy drains	2-5	Drainageways on plains on basin floors	No	—
	Alpine-sedge bog organic depressions-Frozen	2-5	Drainageways on plains	Yes	1,3
11P1: Alpine Plains and Drainages with Continuous Permafrost	Alpine-tussock-scrub silty loess slopes-Frozen	45-70	Alluvial flats on basin floors	Yes	2,3
	Alpine-scrub organic mounds-Frozen	15-35	Basin floors	No	—
	Alpine-sedge bog organic depressions-Frozen	10-20	Drainageways on plains	Yes	1,3
11ST: Boreal Terraces and High Flood Plains with Discontinuous Permafrost	Boreal-riparian forested loamy high flood plains	25-55	Flood plains	No	—
	Boreal-taiga high elevation loamy terraces-Frozen	25-50	Stream terraces	Yes	2
	Boreal-taiga/tussock silty frozen terraces-Alaska mountains	20-35	Stream terraces	Yes	2,3

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12B: Boreal Bogs	Boreal-sedge bog organic depressions	55-75	Bogs on till plains	Yes	1,3
	Boreal-woodland bog organic depressions	25-55	Bogs on till plains	Yes	1
	Boreal-forested silty wet till slopes-Ash influenced	5-10	Swales on hills,swales on till plains	Yes	2
12HS2: Boreal Glaciated Hills and Plains	Boreal-forested silty till slopes-Ash influenced, warm	45-65	Hills,till plains	No	—
	Boreal-forested silty wet till slopes-Ash influenced	20-40	Depressions on hills,depressions on till plains	Yes	2
	Boreal-sedge bog organic depressions	10-20	Bogs on hills,bogs on till plains	Yes	1,3
13F21: Subalpine and Alpine Diorite Flood Plains	Subalpine-riparian scrub gravelly diorite flood plains-Moderately wet	30-55	Channels on flood plains	Yes	4
	Alpine-riparian scrub loamy diorite low flood plains-Wet	15-30	Flood plains	Yes	2
	Subalpine-riparian wet meadow organic depressions	10-20	Cutoffs on flood plains,meander scrolls on flood plains	Yes	1,3
	Nonvegetated alluvium-Riverwash	5-15	Flood plains	Unranked	—
13F22: Alpine Diorite Flood Plains and Wet Mountain Toeslopes	Alpine-riparian scrub gravelly diorite flood plains	25-45	Channels on flood plains	No	—
	Nonvegetated alluvium-Riverwash	15-35	Flood plains	Unranked	—
	Alpine-riparian scrub loamy diorite low flood plains-Wet	20-35	Flood plains	Yes	2
	Subalpine-riparian scrub loamy diorite flood plains	10-20	Flood plains	No	—
13FP: Boreal Flood Plains	Boreal-riparian forested gravelly high flood plains-Cook inlet	15-60	Flood plains	No	—
	Boreal-riparian scrub gravelly flood plains-Moderately wet and warm	15-60	Channels on flood plains	Yes	4

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	Nonvegetated alluvium-Riverwash	5-20	Flood plains	Unranked	—
	Boreal-riparian scrub loamy wet flood plains-Cook inlet	5-20	Flood plains	Yes	2,3
	Subalpine-riparian wet meadow organic depressions	2-10	Cutoffs on flood plains,meander scrolls on flood plains	Yes	1,3
13FP2: Boreal Flood Plains, Dry	Boreal-riparian forested hardwood gravelly flood plains	20-60	Channels on flood plains	No	—
	Nonvegetated alluvium-Riverwash	10-30	Flood plains	Unranked	—
	Boreal-riparian scrub gravelly flood plains-Moderately wet and warm	15-40	Channels on flood plains	Yes	4
	Boreal-riparian forested gravelly high flood plains-Cook inlet	10-30	Flood plains	No	—
	Subalpine-riparian wet meadow organic depressions	0-10	Meander scrolls on flood plains,cutoffs on flood plains	Yes	1,3
	Alpine-riparian scrub loamy wet flood plains-Warm	5-10	Flood plains	Yes	2
13FPW: Boreal Flood Plains and Terraces, Wet	Boreal-riparian scrub loamy wet flood plains-Cook inlet	40-50	Flood plains	Yes	2,3
	Boreal-riparian forested loamy wet flood plains-Cook inlet	20-35	Flood plains	No	—
	Subalpine-riparian wet meadow organic depressions	15-25	Cutoffs on flood plains,meander scrolls on flood plains	Yes	1,3
	Nonvegetated alluvium-Riverwash	5-15	Flood plains	Unranked	—
13FWW: Boreal Flood Plains, Very Wet	Boreal-riparian scrub organic flood plains-Wet	25-60	Cutoffs on flood plains,meander scrolls on flood plains	Yes	1,3
	Boreal-riparian wet meadow organic flood plains-Cook inlet	20-55	Cutoffs on flood plains,meander scrolls on flood plains	Yes	1,3
	Boreal-riparian forested loamy wet flood plains-Cook inlet	15-35	Flood plains	No	—

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G: Nonvegetated Alluvium, Alaska Mountains, Boreal	Nonvegetated alluvium-Riverwash	85-100	Flood plains	Unranked	—
	Boreal-riparian scrub gravelly diorite flood plains-Moderately wet	0-5	Channels on flood plains	Yes	4
	Boreal-riparian forested gravelly high flood plains	0-5	Flood plains	No	—
	Alpine-riparian scrub gravelly flood plains-Moderately wet	0-5	Channels on flood plains	Yes	4
	Boreal-riparian scrub loamy wet flood plains	0-5	Flood plains	Yes	2,4
G1: Nonvegetated Alluvium, Yukon-Kuskokwim Bottomlands	Nonvegetated alluvium-Riverwash	80-95	Flood plains	Unranked	—
	Boreal-riparian forested gravelly flood plains	2-10	Flood plains	No	—
	Boreal-riparian forested loamy flood plains-Moderately wet	2-10	Flood plains	No	—
G2: Nonvegetated Alluvium, Cook Inlet Lowlands	Nonvegetated alluvium-Riverwash	75-95	Flood plains	Unranked	—
	Boreal-riparian forested hardwood gravelly flood plains	2-10	Channels on flood plains	No	—
	Boreal-riparian scrub gravelly flood plains-Moderately wet and warm	2-10	Channels on flood plains	Yes	4
GA: Nonvegetated Alluvium, Alaska Mountains, Alpine	Nonvegetated alluvium-Riverwash	90-100	Flood plains	Unranked	—
	Alpine-riparian scrub gravelly flood plains	0-5	Flood plains	No	—
	Alpine-riparian scrub gravelly flood plains-Moderately wet	0-5	Channels on flood plains	Yes	4
NV1: Nonvegetated Mountains, Alaska Mountains	Interior-nonvegetated rock outcrop-Ice, talus, and/or drift	80-95	Mountains	Unranked	—
	Alpine-dwarf scrub gravelly colluvial slopes	0-10	Mountains	No	—

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	Alpine-dwarf scrub gravelly schist colluvial slopes	0-10	Ridges on mountains	No	—
	Alpine-dwarf scrub dark gravelly colluvial slopes	0-10	Mountains	No	—
NV2: Nonvegetated Mountains, South Central Mountains	South Central-nonvegetated rock outcrop-Ice, talus, and/or drift	85-95	Mountains	Unranked	—
	Alpine-dwarf scrub gravelly colluvial slopes-Warm	0-10	Mountains	No	—
	Alpine-dwarf scrub gravelly colluvial slopes-Cool	0-10	Mountains	No	—
W: Water	Water	100-100	Lakes	—	—