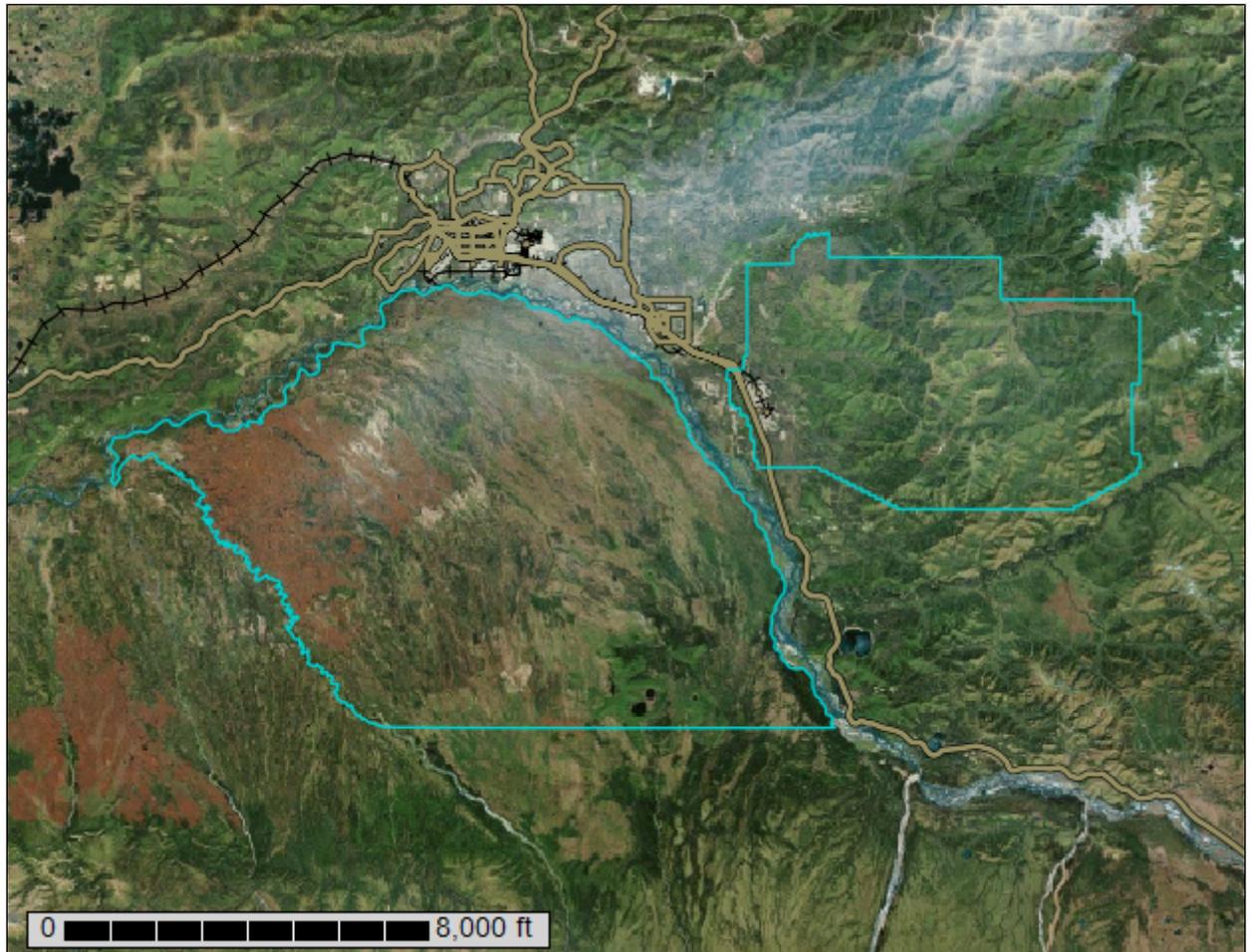


# Custom Soil Resource Report for **Fort Wainwright Area, Alaska**



# 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](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.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means

for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

# Contents

---

**Preface**.....2  
**Soil Information for All Uses**.....5  
    Soil Reports.....5  
    Land Classifications.....5  
    Hydric Soil List - All Components.....5

# **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

## Custom Soil Resource Report

(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;

## Custom Soil Resource Report

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.

Custom Soil Resource Report

**Report—Hydric Soil List - All Components**

Hydric Soil List - All Components—AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
9: Histels	Histels	85-90	Depressions on terraces, flats on terraces	Yes	1,3
	Goldstream	10-15	Flood plains	Yes	2,3
13: Terric Cryofibrists-Liscum complex	Terric Cryofibrists	45-75	Depressions on flood plains	Yes	1,3
	Liscum	25-35	Alluvial flats	Yes	2,3
	Typic Cryaquents-Occasional long flooding	0-10	Flood plains	Yes	2,3
	Histels	0-10	Flats on terraces, depressions on terraces	Yes	1,3
14: Histels-Terric Cryofibrists complex	Histels	55-65	Flats on terraces, depressions on terraces	Yes	1,3
	Terric Cryofibrists	25-30	Depressions on flood plains	Yes	1,3
	Tanacross	5-15	Flood plains	Yes	2,3
	Water	2-5	Lakes	Unranked	—
20: Mosquito peat	Mosquito	70-90	Depressions on alluvial flats	Yes	2,3
	Bolio	0-10	Depressions on terraces	Yes	1,3
	Liscum	0-5	Alluvial flats	Yes	2,3
	Bradway-Frequent long ponding	0-10	Depressions	Yes	2,3
	Water	0-5	Lakes	Unranked	—
21A: Goldstream peat, 0 to 3 percent slopes	Goldstream	70-85	Flood plains	Yes	2,3
	Chatanika	5-15	Hills	Yes	2
	Histels	0-5	Flats on terraces, depressions on terraces	Yes	1,3
	Goldstream	0-5	Flood plains	Yes	2,3
	29-Typic Cryaquents-Frequent long ponding	0-5	Flood plains	Yes	2,3
21B: Goldstream peat, 3 to 7 percent slopes	Goldstream	80-85	Flood plains	Yes	2,3
	Chatanika	0-15	Hills	Yes	2

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Minto	0-5	Hills	No	—
	Histels	0-7	Flats on terraces, depressions on terraces	Yes	1,3
	29-Typic Cryaquents-Frequent long ponding	0-5	Flood plains	Yes	2,3
22: Tanacross peat	Tanacross	85-95	Flood plains	Yes	2,3
	Tanana-Rare brief flooding	5-15	Terraces	Yes	2,3
25: Tanana silt loam	Tanana-Rare brief flooding	60-85	Terraces	Yes	2,3
	Noonku	3-5	Flood plains	Yes	2,3
	Salchaket	5-10	Flood plains	No	—
	Tanacross	5-15	Flood plains	Yes	2,3
	Bolio	0-5	Depressions on terraces	Yes	1,3
	Jarvis	2-5	Flood plains	No	—
26: Histel and Mosquito soils	Histels	30-80	Flats on terraces, depressions on terraces	Yes	1,3
	Mosquito	20-50	Depressions on alluvial flats	Yes	2,3
	Terric Cryofibrists	0-15	Depressions on flood plains	Yes	1,3
	Salchaket	0-7	Flood plains	No	—
	Peede	0-10	Depressions on flood plains	Yes	2,3
31: Eielson-Piledriver complex, occasionally flooded	Eielson	50-70	Flood plains	No	—
	Piledriver	25-40	Flood plains	No	—
	Fubar	0-5	Flood plains	No	—
	Noonku	0-5	Flood plains	Yes	2,3
	Salchaket	0-5	Flood plains	No	—
32: Salchaket very fine sandy loam	29-Salchaket	80-90	Flood plains	No	—
	29-Jarvis	5-10	Flood plains	No	—
	29-Tanana	5-10	Flood plains	Yes	2,3
	29-Chena	0-2	Flood plains	No	—
35: North Pole very fine sandy loam	North Pole	75-90	Flood plains	Yes	2,3
	Tanana-Rare brief flooding	0-10	Terraces	Yes	2,3
	Mosquito	0-10	Depressions on alluvial flats	Yes	2,3
	Noonku	0-5	Flood plains	Yes	2,3

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Eielson	0-5	Flood plains	No	—
	Liscum	0-5	Alluvial flats	Yes	2,3
36: Jarvis very fine sandy loam	29-Jarvis	70-80	Flood plains	No	—
	29-Salchaket	0-15	Flood plains	No	—
	29-Noonku	0-10	Flood plains	Yes	2,3
	29-Tanana	0-5	Flood plains	Yes	2,3
	29-Chena	0-5	Flood plains	No	—
37: Chena very fine sandy loam	29-Chena	80-95	Flood plains	No	—
	29-Noonku	0-10	Flood plains	Yes	2,3
	29-Jarvis	0-10	Flood plains	No	—
39A: Nenana silt loam, 0 to 3 percent slopes	Nenana	85-95	Stream terraces	No	—
	Richardson	0-5	Stream terraces	No	—
	Salchaket	0-10	Flood plains	No	—
40A: Chatanika silt loam, 0 to 3 percent slopes	Chatanika	70-80	Hills	Yes	2
	Goldstream	5-15	Flood plains	Yes	2,3
	Chatanika	5-10	Hills	Yes	2
	Minto	3-7	Hills	No	—
	Saulich	0-5	Valley sides	Yes	2
	Histels	0-5	Flats on terraces, depressions on terraces	Yes	1,3
	Water	0-5	Lakes	Unranked	—
40B: Chatanika silt loam, 3 to 7 percent slopes	Chatanika	70-80	Hills	Yes	2
	Chatanika	0-5	Hills	Yes	2
	Goldstream	0-10	Flood plains	Yes	2,3
	Minto	0-5	Hills	No	—
	Saulich	0-5	Valley sides	Yes	2
	Chatanika	0-5	Hills	Yes	2
40C: Chatanika silt loam, 7 to 12 percent slopes	Chatanika	75-85	Hills	Yes	2
	Chatanika	0-5	Hills	Yes	2
	Goldstream	0-10	Flood plains	Yes	2,3
	Minto	0-10	Hills	No	—
	Chatanika	0-5	Hills	Yes	2
40D: Chatanika silt loam, 12 to 20 percent slopes	Chatanika	75-85	Hills	Yes	2
	Chatanika	0-10	Hills	Yes	2

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Goldstream	0-10	Flood plains	Yes	2,3
	Minto	0-10	Hills	No	—
41A: Minto silt loam, 0 to 3 percent slopes	Minto	75-85	Hills	No	—
	Chatanika	5-10	Hills	Yes	2
	Minto	2-10	Hills	No	—
	Fairbanks	0-10	Hills	No	—
41B: Minto silt loam, 3 to 7 percent slopes	Minto	60-80	Hills	No	—
	Chatanika	10-15	Hills	Yes	2
	Minto	5-10	Hills	No	—
	Minto	0-5	Hills	No	—
	Fairbanks	0-10	Hills	No	—
41C: Minto silt loam, 7 to 12 percent slopes	Minto	50-70	Hills	No	—
	Chatanika	5-15	Hills	Yes	2
	Minto	5-15	Hills	No	—
	Minto	5-15	Hills	No	—
	Saulich	0-5	Valley sides	Yes	2
	Fairbanks	5-15	Hills	No	—
41D: Minto silt loam, 12 to 20 percent slopes	Minto	80-90	Hills	No	—
	Fairbanks	0-10	Hills	No	—
	Chatanika	0-15	Hills	Yes	2
	Minto	0-5	Hills	No	—
	Minto	0-5	Hills	No	—
42B: Fairbanks silt loam, 3 to 7 percent slopes	Fairbanks	75-85	Hills	No	—
	Minto	5-12	Hills	No	—
	Fairbanks	2-10	Hills	No	—
	Fairbanks	2-10	Hills	No	—
42C: Fairbanks silt loam, 7 to 12 percent slopes	Fairbanks	75-90	Hills	No	—
	Fairbanks	0-15	Hills	No	—
	Fairbanks	0-5	Hills	No	—
	Minto	0-10	Hills	No	—
42CG: Fairbanks silt loams, strongly sloping and steep	Fairbanks	55-65	Hills	No	—
	Fairbanks	25-65	Hills	No	—
	Steese	0-10	Hills	No	—
	Minto	0-10	Hills	No	—

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
42D: Fairbanks silt loam, 12 to 20 percent slopes	Fairbanks	65-80	Hills	No	—
	Fairbanks	0-15	Hills	No	—
	Fairbanks	0-15	Hills	No	—
	Steese	0-10	Hills	No	—
	Minto	0-5	Hills	No	—
42E: Fairbanks silt loam, 20 to 30 percent slopes	Fairbanks	75-90	Hills	No	—
	Fairbanks	0-15	Hills	No	—
	Fairbanks	0-5	Hills	No	—
	Steese	0-10	Hills	No	—
44B: Steese silt loam, 3 to 7 percent slopes	Steese	75-85	Hills	No	—
	Steese	2-10	Hills	No	—
	Gilmore	2-10	Hills	No	—
	Fairbanks	2-10	Hills	No	—
44C: Steese silt loam, 7 to 12 percent slopes	Steese	70-80	Hills	No	—
	Steese	2-10	Hills	No	—
	Fairbanks	2-10	Hills	No	—
	Gilmore	2-10	Hills	No	—
44D: Steese silt loam, 12 to 20 percent slopes	Steese	60-75	Hills	No	—
	Steese	2-10	Hills	No	—
	Fairbanks	2-10	Hills	No	—
	Gilmore	2-10	Hills	No	—
	Steese	2-10	Hills	No	—
44E: Steese silt loam, 20 to 30 percent slopes	Steese	70-85	Hills	No	—
	Steese	2-10	Hills	No	—
	Steese	2-10	Hills	No	—
	Gilmore	2-10	Hills	No	—
	Fairbanks	2-10	Hills	No	—
	Ester	0-5	Hills	Yes	2
44F: Steese silt loam, 30 to 45 percent slopes	Steese	80-95	Hills	No	—
	Steese	5-15	Hills	No	—
	Gilmore	0-10	Hills	No	—
45C: Gilmore silt loam, 7 to 12 percent slopes	Gilmore	65-75	Hills	No	—
	Gilmore	10-15	Hills	No	—

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Gilmore	5-10	Hills	No	—
	Steese	5-10	Hills	No	—
45D: Gilmore silt loam, 12 to 20 percent slopes	Gilmore	70-80	Hills	No	—
	Gilmore	10-15	Hills	No	—
	Gilmore	5-12	Hills	No	—
	Steese	5-10	Hills	No	—
45E: Gilmore silt loam, 20 to 30 percent slopes	Gilmore	65-80	Hills	No	—
	Gilmore	5-15	Hills	No	—
	Steese	5-15	Hills	No	—
	Gilmore	0-5	Hills	No	—
	Ester	0-5	Hills	Yes	2
45F: Gilmore silt loam, 30 to 45 percent slopes	Gilmore	80-90	Hills	No	—
	Gilmore	5-10	Hills	No	—
	Steese	0-10	Hills	No	—
	Rock outcrop	0-5	Hills	Unranked	—
45G: Gilmore silt loam, 45 to 70 percent slopes	Gilmore	80-90	Hills	No	—
	Ester	0-10	Hills	Yes	2
	Gilmore	0-10	Hills	No	—
	Steese	0-10	Hills	No	—
	Rock outcrop	0-5	Hills	Unranked	—
46C: Eutrocryepts, 7 to 12 percent slopes	Eutrocryepts-Hills	85-95	Hills	No	—
	Eutrocryepts-Hills	5-15	Hills	No	—
46D: Eutrocryepts, 12 to 20 percent slopes	Eutrocryepts-Hills	85-95	Hills	No	—
	Eutrocryepts-Hills	5-15	Hills	No	—
48D: McCloud silt loam, 12 to 20 percent slopes	31-McCloud	75-95	Hills	No	—
	31-Angel	5-15	Hills	No	—
	31-McCloud-Greater than 20 percent slopes	0-5	Hills	No	—
	31-McCloud-Less than 7 percent slopes	0-5	Hills	No	—
48E: McCloud silt loam, 20 to 30 percent slopes	31-McCloud	75-95	Hills	No	—
	31-Angel	5-15	Hills	No	—

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	31-McCloud-Less than 20 percent slopes	0-5	Hills	No	—
	31-McCloud-Greater than 30 percent slopes	0-5	Hills	No	—
48F: McCloud silt loam, 30 to 45 percent slopes	McCloud	75-95	Hills	No	—
	Angel	5-15	Hills	No	—
	McCloud	0-5	Hills	No	—
	McCloud	0-5	Hills	No	—
49D: Angel silt loam, 12 to 20 percent slopes	Angel	70-85	Hills	No	—
	McCloud	12-15	Hills	No	—
	Angel	5-10	Hills	No	—
	Angel	0-5	Hills	No	—
49E: Angel silt loam, 20 to 30 percent slopes	Angel	65-95	Hills	No	—
	McCloud	5-15	Hills	No	—
	Angel	0-10	Hills	No	—
	Angel	0-10	Hills	No	—
49F: Angel silt loam, 30 to 45 percent slopes	Angel	65-95	Hills	No	—
	McCloud	5-15	Hills	No	—
	Angel	0-10	Hills	No	—
	Angel	0-10	Hills	No	—
50G: Ester peat, 45 to 70 percent slopes	Ester	70-80	Hills	Yes	2
	Brigadier	5-10	Hills	No	—
	Ester	5-10	Hills	Yes	2
	Gilmore	0-10	Hills	No	—
50X: Ester peat, 20 to 45 percent slopes	Ester	65-75	Hills	Yes	2
	Brigadier	0-5	Hills	No	—
	Ester	0-5	Hills	Yes	2
	Ester	0-10	Hills	Yes	2
	Saulich	0-5	Valley sides	Yes	2
	Steese	0-5	Hills	No	—
51B: Saulich peat, 3 to 7 percent slopes	Saulich	70-85	Valley sides	Yes	2
	Saulich	3-10	Valley sides	Yes	2
	Saulich	3-10	Valley sides	Yes	2
	Goldstream	3-10	Flood plains	Yes	2,3

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Chatanika	0-5	Hills	Yes	2
	Minto	0-5	Hills	No	—
51C: Saulich peat, 7 to 12 percent slopes	Saulich	75-85	Valley sides	Yes	2
	Saulich	3-5	Valley sides	Yes	2
	Saulich	3-5	Valley sides	Yes	2
	Goldstream	3-10	Flood plains	Yes	2,3
	Chatanika	0-5	Hills	Yes	2
	Minto	0-5	Hills	No	—
61: Piledriver very fine sandy loam	Piledriver	70-90	Flood plains	No	—
	Eielson	5-15	Flood plains	No	—
	Fubar	5-10	Flood plains	No	—
	Tanana-Rare brief flooding	0-5	Terraces	Yes	2,3
	North Pole	0-5	Flood plains	Yes	2,3
62: Peede-Mosquito complex	Peede	60-80	Depressions on flood plains	Yes	2,3
	Mosquito	20-30	Depressions on alluvial flats	Yes	2,3
	Liscum	0-10	Alluvial flats	Yes	2,3
63: Typic Cryaquents-Tanana complex	Typic Cryaquents-Occasional long flooding	40-50	Flood plains	Yes	2,3
	Tanana-Rare brief flooding	30-40	Terraces	Yes	2,3
	Histels	5-15	Flats on terraces, depressions on terraces	Yes	1,3
	Eielson	5-15	Flood plains	No	—
64: Eielson-Tanana complex	Eielson	30-60	Flood plains	No	—
	Tanana-Rare brief flooding	20-50	Terraces	Yes	2,3
	Peede	10-15	Depressions on flood plains	Yes	2,3
	Tanacross	0-5	Flood plains	Yes	2,3
65: Typic Cryaquent and Fluvaquentic Aquorthel soils	Fluvaquentic aquorthels	15-85	Flood plains	Yes	2,3
	Typic Cryaquents-Occasional long flooding	15-85	Flood plains	Yes	2,3
	Eielson	5-10	Flood plains	No	—
	Terric Cryofibrists	5-10	Thermokarst depressions	Yes	1,3

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
66: Eielson fine sandy loam	Eielson	70-90	Flood plains	No	—
	Tanana-Rare brief flooding	0-15	Terraces	Yes	2,3
	Peede	10-15	Depressions on flood plains	Yes	2,3
69: Typic Cryaquents-Eielson complex	Typic Cryaquents-Occasional long flooding	0-50	Flood plains	Yes	2,3
	Eielson	0-35	Flood plains	No	—
	Jarvis	0-10	Flood plains	No	—
	Tanana-Rare brief flooding	0-5	Terraces	Yes	2,3
	Riverwash	5-10	Flood plains	Unranked	—
70A: Volkmar-Richardson complex, 0 to 3 percent slopes	Volkmar	20-60	Stream terraces	No	—
	Richardson	35-50	Stream terraces	No	—
	Mosquito	0-10	Depressions on alluvial flats	Yes	2,3
	Tanacross	0-10	Flood plains	Yes	2,3
	Tanana-Rare brief flooding	0-10	Terraces	Yes	2,3
70B: Volkmar-Richardson complex, 3 to 7 percent slopes	Richardson	30-45	Stream terraces	No	—
	Volkmar	30-60	Stream terraces	No	—
	Eutrocrypts-Escarpments	5-15	Escarpments on terraces	No	—
	Tanana-Rare brief flooding	0-15	Terraces	Yes	2,3
	Typic Cryaquents-Occasional brief ponding	5-15	Flood plains	Yes	2,3
71: North Pole-Mosquito-Liscum complex	North Pole	20-55	Flood plains	Yes	2,3
	Mosquito	20-40	Depressions on alluvial flats	Yes	2,3
	Liscum	15-25	Alluvial flats	Yes	2,3
	Typic Cryaquents-Occasional long flooding	0-10	Flood plains	Yes	2,3
	Histels	0-10	Flats on terraces, depressions on terraces	Yes	1,3
72F: Eutrocrypts, 7 to 45 percent slopes	Eutrocrypts-Escarpments	85-95	Escarpments on terraces	No	—
	Ester	0-15	Hills	Yes	2

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
81V: Saulich and Chatanika soils, 3 to 15 percent slopes	Chatanika	0-95	Hills	Yes	2
	Saulich	0-95	Valley sides	Yes	2
	Saulich	0-2	Valley sides	Yes	2
	Minto	0-2	Hills	No	—
81X: Saulich and Chatanika soils, 15 to 20 percent slopes	Chatanika	0-95	Hills	Yes	2
	Saulich	0-95	Valley sides	Yes	2
	Chatanika	0-3	Hills	Yes	2
	Saulich	0-2	Valley sides	Yes	2
82V: Gilmore and Steese silt loams, 3 to 15 percent slopes	Gilmore	0-90	Hills	No	—
	Steese	0-95	Hills	No	—
	Gilmore	0-10	Hills	No	—
82X: Gilmore and Steese silt loams, 15 to 45 percent slopes	Gilmore	0-90	Hills	No	—
	Steese	15-75	Hills	No	—
	Angel	0-10	Hills	No	—
	Steese	0-5	Hills	No	—
85: Eutrocrypt and Minto silt loams, 3 to 20 percent slopes	Eutrocrypts-Hills	10-90	Hills	No	—
	Minto	10-90	Hills	No	—
	Aquic Cryofluvents	2-5	Flood plains	No	—
	Saulich	0-10	Valley sides	Yes	2
86G: Brigadier silt loam, 45 to 70 percent slopes	Brigadier	60-90	Hills	No	—
	Brigadier	0-15	Hills	No	—
	Gilmore	0-15	Hills	No	—
	Manchu	0-15	Hills	No	—
86V: Brigadier and Manchu silt loams, 3 to 15 percent slopes	31-Brigadier	10-90	Hills	No	—
	31-Manchu	10-90	Hills	No	—
	31-Gilmore	0-15	Hills	No	—
	31-Steese	0-10	Hills	No	—
86X: Brigadier and Manchu silt loams, 3 to 45 percent slopes	31-Brigadier	40-90	Hills	No	—
	31-Manchu	0-50	Hills	No	—
	31-Gilmore	0-15	Hills	No	—
	31-Steese	0-10	Hills	No	—

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
87V: Gilmore, subalpine and Manchu soils, 0 to 15 percent slopes	Gilmore	0-90	Hills	No	—
	Manchu	0-90	Hills	No	—
	Ester	0-5	Hills	Yes	2
87X: Gilmore silt loam, subalpine, 15 to 45 percent slopes	Gilmore	80-100	Hills	No	—
	Gilmore	0-5	Hills	No	—
	Manchu	0-5	Hills	No	—
88: Dystrogelepts-Turbels complex, 8 to 30 percent slopes	Dystrogelepts	50-70	Hills	No	—
	Turbels	25-50	Depressions on hills	Yes	2
	Rock outcrops	0-5	Hills	Unranked	—
89X: Fairbanks and Steese silt loams, 15 to 45 percent slopes	Steese	0-90	Hills	No	—
	Fairbanks	0-90	Hills	No	—
	Steese	0-10	Hills	No	—
90: Fubar-Tanana complex, 0 to 2 percent slopes	Fubar	35-60	Flood plains	No	—
	Tanana-Rare brief flooding	30-55	Terraces	Yes	2,3
	Mosquito	0-5	Depressions on alluvial flats	Yes	2,3
	Piledriver	0-5	Flood plains	No	—
91: Aquic Cryofluvents-Typic Cryaquents-Fluvaquentic Aquorthels complex, 2 to 10 percent slopes	Aquic Cryofluvents	20-40	Flood plains	No	—
	Fluvaquentic aquorthels	25-35	Flood plains	Yes	2,3
	Typic Cryaquents-Frequent flooding	25-35	Flood plains	Yes	2,3
	Chatanika	0-5	Hills	Yes	2
	Saulich	0-5	Valley sides	Yes	2
211: Chatanika-Goldstream complex, 0 to 5 percent slopes	Chatanika	50-60	Hills	Yes	2
	Goldstream	30-40	Flood plains	Yes	2,3
	Minto	0-5	Hills	No	—
	Chatanika	0-5	Hills	Yes	2
	Histels	0-5	Flats on terraces, depressions on terraces	Yes	1,3
	Water	0-5	Lakes	Unranked	—

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
212: Goldstream-Histels complex, 0 to 3 percent slopes	Goldstream	40-60	Flood plains	Yes	2,3
	Histels	45-50	Depressions on terraces, flats on terraces	Yes	1,3
	Terric Cryofibrists	0-10	Thermokarst depressions	Yes	1,3
251: Tanana-Mosquito complex	Tanana-Rare brief flooding	50-70	Terraces	Yes	2,3
	Mosquito	20-25	Depressions on alluvial flats	Yes	2,3
	Jarvis	5-15	Flood plains	No	—
	Liscum	0-5	Alluvial flats	Yes	2,3
361: Jarvis-Chena complex	Noonku	0-5	Flood plains	Yes	2,3
	Jarvis	50-60	Flood plains	No	—
	Chena	30-40	Stream terraces	No	—
	Noonku	0-10	Flood plains	Yes	2,3
362: Piledriver-Fubar complex	Salchaket	0-10	Flood plains	No	—
	Piledriver	40-50	Flood plains	No	—
	Fubar	40-50	Flood plains	No	—
	Eielson	0-10	Flood plains	No	—
363: Jarvis-Salchaket complex	Noonku	0-5	Flood plains	Yes	2,3
	29-Jarvis	40-50	Flood plains	No	—
	29-Salchaket	40-50	Flood plains	No	—
	29-Tanana	0-5	Flood plains	Yes	2,3
	29-Noonku	0-5	Flood plains	Yes	2,3
	29-Chena	0-2	Flood plains	No	—
411A: Minto-Chatanika complex, 0 to 3 percent slopes	29-North Pole	0-5	Flood plains	Yes	2,3
	29-Riverwash	0-5	Flood plains	Unranked	—
	Minto	35-50	Hills	No	—
	Chatanika	35-50	Hills	Yes	2
	Chatanika	2-10	Hills	Yes	2
	Goldstream	2-10	Flood plains	Yes	2,3
	Minto	2-10	Hills	No	—
411B: Minto-Chatanika complex, 3 to 7 percent slopes	Minto	30-40	Hills	No	—
	Chatanika	30-40	Hills	Yes	2
	Minto	5-10	Hills	No	—
	Minto	5-10	Hills	No	—

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Saulich	0-10	Valley sides	Yes	2
	Chatanika	0-5	Hills	Yes	2
	Goldstream	0-5	Flood plains	Yes	2,3
	Chatanika	0-5	Hills	Yes	2
411C: Minto-Chatanika complex, 7 to 12 percent slopes	Minto	40-50	Hills	No	—
	Chatanika	40-50	Hills	Yes	2
	Minto	5-15	Hills	No	—
	Chatanika	2-10	Hills	Yes	2
	29-Typic Cryaquents-Frequent long ponding	0-5	Flood plains	Yes	2,3
411D: Minto-Chatanika complex, 12 to 20 percent slopes	Minto	40-50	Hills	No	—
	Chatanika	40-50	Hills	Yes	2
	Minto	5-15	Hills	No	—
	Chatanika	2-10	Hills	Yes	2
	Saulich	0-5	Valley sides	Yes	2
421D: Fairbanks-Steese complex, 12 to 20 percent slopes	Fairbanks	50-60	Hills	No	—
	Steese	25-40	Hills	No	—
	Fairbanks	2-7	Hills	No	—
	Fairbanks	2-7	Hills	No	—
	Steese	2-5	Hills	No	—
	Gilmore	0-5	Hills	No	—
	Steese	2-5	Hills	No	—
441D: Steese-Gilmore complex, 12 to 20 percent slopes	Steese	30-60	Hills	No	—
	Gilmore	20-40	Hills	No	—
	Gilmore	5-15	Hills	No	—
	Steese	5-15	Hills	No	—
441E: Steese-Gilmore complex, 20 to 30 percent slopes	Steese	30-60	Hills	No	—
	Gilmore	30-50	Hills	No	—
	Steese	2-12	Hills	No	—
	Gilmore	2-15	Hills	No	—
441F: Steese-Gilmore complex, 30 to 45 percent slopes	Steese	30-50	Hills	No	—
	Gilmore	0-50	Hills	No	—
	Steese	5-15	Hills	No	—
	Gilmore	5-15	Hills	No	—

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
441G: Steese-Gilmore complex, 45 to 70 percent slopes	Steese	40-60	Hills	No	—
	Gilmore	40-60	Hills	No	—
	Steese	2-10	Hills	No	—
	Gilmore	2-10	Hills	No	—
451G: Brigadier-Ester Complex, 45 to 70 percent slopes	Brigadier	30-50	Hills	No	—
	Ester	25-35	Hills	Yes	2
	Ester	5-15	Hills	Yes	2
	Gilmore	10-15	Hills	No	—
	Steese	5-15	Hills	No	—
451X: Brigadier-Ester complex, 15 to 45 percent slopes	Brigadier	40-55	Hills	No	—
	Ester	30-45	Hills	Yes	2
	Ester	0-10	Hills	Yes	2
	Gilmore	0-10	Hills	No	—
	Steese	0-10	Hills	No	—
452: Gilmore-Steese complex, 3 to 15 percent slopes	Gilmore	60-70	Hills	No	—
	Steese	30-40	Hills	No	—
	Steese	0-5	Hills	No	—
492: Angel-McCloud complex, 3 to 15 percent slopes	31-Angel	40-60	Hills	No	—
	31-McCloud	30-50	Hills	No	—
	31-Angel-Greater than 15 percent slopes	0-5	Hills	No	—
	31-McCloud-Greater than 15 percent slopes	0-5	Hills	No	—
611: Piledriver-Eielson complex	Piledriver	45-60	Flood plains	No	—
	Eielson	30-40	Flood plains	No	—
	Fubar	0-10	Flood plains	No	—
	Noonku	0-10	Flood plains	Yes	2,3
	Riverwash	0-5	Flood plains	Unranked	—
CL: Typic Cryorthents, pit spoil	Typic Cryorthents	3-95	Flood plains,terraces	No	—
	Salchaket	0-10	Flood plains	No	—
	Fubar	0-10	Flood plains	No	—
	Jarvis	0-10	Flood plains	No	—
	Piledriver	0-10	Flood plains	No	—
Gv: Pits, gravel	Pits-Gravel	100-100	—	Unranked	—
Lf: Dumps, landfill	Dumps-Landfill	100-100	—	Unranked	—

Custom Soil Resource Report

Hydric Soil List - All Components--AK650-Fort Wainwright Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
ME: Dumps, mine	Dumps-Mine	100-100	—	Unranked	—
NOTCOM: No Digital Data Available	NOTCOM	100	—	—	—
Qu: Pits, quarry	Pits-Quarry	100-100	—	Unranked	—
Rv: Riverwash	Riverwash	100-100	Flood plains	Unranked	—
UC: Urban land-Typic Cryorthents complex, 0 to 2 percent slopes	Typic Cryorthents-Fill	40-60	Terraces,flood plains	No	—
	Urban land	30-60	—	Unranked	—
	Salchaket	0-15	Flood plains	No	—
	Jarvis	0-10	Flood plains	No	—
	Fubar	0-10	Flood plains	No	—
W: Water	Water	100-100	Lakes	Unranked	—
WAH: Typic Cryaquent, Terric Cryofibrists, and Histic Cryaquept soils	Typic Cryaquents-Frequent long ponding	0-90	Flood plains	Yes	2,3
	Histic Cryaquepts	20-50	Depressions on terraces	Yes	2,3
	Terric Cryofibrists	0-80	Thermokarst depressions	Yes	1,3
	Histels	0-50	Flats on terraces,depressions on terraces	Yes	1,3
	Water	0-20	Lakes	Unranked	—