

# Cook Inlet Lowland Wetlands

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## *Identification\_Information:*

*Citation:*

*Citation\_Information:*

*Originator:* Mike Gracz, Kenai Watershed Forum

*Publication\_Date:* December 2013

*Title:* Cook Inlet Wetlands

*Geospatial\_Data\_Presentation\_Form:* vector digital data (polygons)

*Online\_Linkage:* <<http://cookinletwetlands.info/Downloads/CookInletWetlands.zip>>

*Description:*

*Abstract:*

716,639 acres of wetlands have been mapped over 1,875,151 acres of the Cook Inlet Lowlands, Alaska into 38,691 polygons using a newly developed classification system intended to group wetlands that function similarly. The classification system is largely based on hydrologic and geomorphologic factors. A summary map poster (36"x44") that includes a description of the mapping units and the hydrogeologic setting is available [here](#) (3 mb 13 February 2013). The mapping was initially built on data collected during the the [Western Kenai Soil Survey](#) (4.5 mb .pdf, [Van Patten 2005](#)) then expanded to cover areas expected to receive the greatest wetland permit activity. A summary of the project, which ran from 2002-2013, is provided below. The map is served as a GoogleEarth .KMZ file, or an ESRI ArcGIS 10.0 shape- and layer files. 4617 of the wetland polygons in the file contain hyperlinks to photos taken at the polygon.

## **Kenai Peninsula:**

Beginning in 2002 the classification was developed and wetlands were mapped onto clearlay over 1996 black & white stereo-paired aerial photographs printed at a scale of 1:24,000. The linework was transferred with plastic pencil to mylars aligned with a registrar bar over orthorectified imagery of the same 1996 photography. The transferred lines were retraced onto clean mylars then scanned and vectorized by Resource Data, Inc (Anchorage, AK) into an ESRI shapefile. A representative sample of wetlands was visited, and data collected, especially plant cover, and later, pH and specific conductance of surface water. In 2002, when the classification was first developed, two small pilot areas were mapped (the polygons in the .dbf of the shapefile with the unique identifier in the field CODE = 1-911) and nearly every polygon was visited. The remaining project area was mapped and field verified in 2003-2004 (CODE 1000-10903 in 2003, and

10905-33612 in 2004). The map is served via the Kenai Peninsula Borough's <http://www.borough.kenai.ak.us/gisdept/> GIS department; so that all that is required to view the map is access to the World Wide Web and a current web browser. The wetland polygons are served along with many layers including high resolution satellite imagery, LiDAR elevation, and parcel lines linked to ownership information. The wetland polygons are linked to a web of descriptive documents incorporating plant, soils, and hydrology data, and photographs of the polygons that were visited. The polygons are also available in a.KMZ file for viewing in Google Earth and as an ESRI shapefile (<http://cookinletwetlands.info/Downloads/Downloads.html>).

**Homer:**

In 2004 the city of Homer and the Bridge Creek Watershed Protection District were mapped at a scale of 1:12,000 using similar methods of stereo interpretation then transfer to corrected imagery and digitization to shapefile followed by field visits of 395 of the 414 polygons (CODE 50001-50741). These polygons were merged with the Kenai Peninsula shapefile.

**Seward:**

In 2006 the area around Seward, including the Bear Creek Flood Service area were mapped at a scale of 1:24,000 using similar methods (CODE 60001-60600). A total of 210 of the polygons were visited in the field.

**Kenai Mountains:**

In 2007 the areas around Moose Pass, Hope, Cooper Landing and a few other areas in the Kenai Mountains were mapped at 1:24,000 using similar methods (CODE 61001-61509). Sixty-five of the polygons have been field checked, and much of the editing has been completed, although a final edit was never finished. Data are reasonably accurate, but provisional.

**Matanuska-Susitna Borough:**

**2007**

Mapping in the Matanuska-Susitna Borough began in spring 2007. For field use, sheets printed at 1:12,500 were created from Digital Orthorectified Quadrangle imagery (DOQs: USDA 2004) overlain with both National Wetlands Inventory (NWI) and hydric soils polygons (Hall, 2001; USF&WS, Anchorage, AK & Clark and Kautz, 2002; NRCS, Palmer, AK). During the summer of 2007 we visited 132 sites guided by the field sheets. During the autumn of 2007, wetland boundaries were delineated over 1:24,000 stereo-paired imagery using the soil survey, NWI and our field visits as guidance. The stereo pairs were loaned to us by NWI. The boundaries were transferred to mylars registered over corrected imagery and scanned and vectorized into an ESRI shapefile. The shapefile was attributed with map unit names.

**2008-2009**

In 2008 and 2009 wetlands were first delineated over 1:18,000 stereo-paired aerial photography flown in October 2005 and May 2006. Mapping was guided by experience, NWI, and NRCS soils maps as a guide. The wetland lines were transferred to mylars registered over orthorectified transparencies then scanned and digitized into an ESRI polygon shapefile by Resource Data, Inc. in Anchorage. The polygons were then assigned map units in ArcView. A total of 788 polygons were visited in the field over two seasons, where varying amounts of plant cover, soils and water chemistry data were collected and a photograph taken. The shapefile was edited to reflect field findings. All

polygons were combined with the shapefile from previous years. Adjoining polygon edges were edited and matched, heads-up in ArcView.

### **2011**

In 2011, most wetlands were delineated by Karyn Noyes over 9"x9" stereo-paired aerial photography flown at a nominal scale of 1:18,000 in October of 2005 and September of 2007. Experience, NWI and NRCS soils mapping guided the linework. The lines were transferred onto frosted mylar aligned over orthorectified transparencies using a register bar, then retraced onto clean mylars. The clean mylars were digitized into an ESRI polygon shapefile by Resource Data, Inc. in Anchorage. The polygons were then assigned map units in ArcView. Not all polygons were covered by the stereo-paired photography, however, so the remaining were delineated heads-up in ArcMap (10.0) using DOQs from 2004. Following field visits, additional polygons were delineated by Mike Gracz on 24" x 24" stereo pairs flown 21 September 1985 (flight line 5, photo 3, along the upper portion of the Zero Lake Road) at a nominal scale of 1" = 3000'. These lines were used to guide additional heads-up digitizing in ArcMap 10.0. Sixty-five polygons were visited in the field 1-7 August 2011, and the shapefile was edited based on field findings, then merged with the shapefile covering the entire area mapped to date.

### **2012**

In 2012, wetlands were first delineated by Karyn Noyes on Clearlay(r) over 17" x 17" true-color stereo-paired aerial photographs flown specifically for this project during July 2011. Stereo-pairs were printed at the nominal scale of 1:18,000. The wetland linework was guided by NWI, NRCS soils mapping, and experience. The lines were transferred with plastic pencil from the Clearlay onto frosted mylar aligned using a register bar over orthorectified transparencies of the identical aerial photography. The mylars were re-traced onto clean copies; the clean copies were digitized by Resource Data, Inc. in Anchorage into an ESRI polygon shapefile. A total of 291 polygons were visited in the field where at least map unit was recorded, but also photos were taken (n=260), plant cover data recorded (n=157), pH measured using a YSI 63 meter calibrated nearly every sample (218), and specific conductance (25 degrees C) measured using the same meter (n=227). Soil profiles were often described, and dissolved oxygen (n=144) and alkalinity (n=97) were frequently titrated for in the field using a Hach digital titrator. The polygons were assigned map units in ArcMap 10.0 following field visits. These polygons were merged with the previous mapping, including some heads-up editing along the mapping boundary, where needed .

### **Kenai Fjords**

#### **Exit Glacier Developed Area**

Wetlands were first delineated in spring 2012 by Mike Gracz on Clearlay(r) over 9" x 9" true-color stereo-paired aerial photographs flown on 16 August 2007 at a nominal scale of 1:12,000. The polygons were visited in the field where map unit was assigned, photos were taken, plant cover data recorded, pH measured using a YSI 63 meter calibrated before each sample, and specific conductance (25 degrees C) measured using the same meter. Soil profiles were occasionally described. The polygons were re-edited and assigned map units in ArcMap 10.0 following field visits. After final edits, the polygons were merged with the shapefile for described above.

## 2013

In 2013, wetlands were first delineated by Karyn Noyes on Clearlay(r) over 17" x 17" true-color stereo-paired aerial photographs flown at a nominal scale of 1:18,000 during July 2011 for this project. The linework was guided by NWI, NRCS soils mapping, and experience. The lines were transferred using plastic pencil from the Clearlay onto frosted mylar aligned with a register bar over orthorectified transparencies of the identical aerial photography. The mylars were re-traced onto clean copies; the clean copies were digitized by Resource Data, Inc. in Anchorage into an ESRI polygon shapefile. A total of 378 polygons were visited in the field where at least map unit was recorded, but also photos were taken (n=341), plant cover data recorded (n=207), pH measured using a YSI 63 meter calibrated nearly every sample (n=184), and specific conductance (25 degrees C) measured using the same meter (n=190). Soil profiles were often described, and alkalinity was frequently titrated for in the field using a Hach digital titrator (n=186). The polygons were assigned map units in ArcMap 10.0 following field visits. The polygons were merged along the mapping boundary, and edited heads-up where needed.

### *Purpose:*

A wetland classification and shapefile/Google Earth \*.kmz file for management and planning. The mapping classification is based on hydrology and locally relevant landforms in order to best predict wetland function.

### *Time\_Period\_of\_Content:*

### *Time\_Period\_Information:*

### *Range\_of\_Dates/Times:*

*Beginning\_Date:* 1996

*Ending\_Date:* 2013

*Currentness\_Reference:* publication date

### *Status:*

*Progress:* In work

*Maintenance\_and\_Update\_Frequency:* Intermittently

### *Spatial\_Domain:*

### *Bounding\_Coordinates:*

West Bounding Coordinate -151.869

East Bounding Coordinate -148.125

North Bounding Coordinate 62.553

South Bounding Coordinate 59.599

### *Keywords:*

### *Theme:*

*Theme\_Keyword\_Thesaurus:* USGS NLCD Land Cover classes

*Theme\_Keyword:* Wetlands

### *Place:*

*Place\_Keyword:* Alaska

*Place\_Keyword:* Kenai Peninsula

*Place\_Keyword:* Matanuska-Susitna Borough

*Place\_Keyword:* Seward

Place\_Keyword: Cook Inlet  
*Place\_Keyword:* Kenai Mountains  
*Place\_Keyword:* Homer  
*Place\_Keyword:* Kenai Fjords  
*Place\_Keyword:* Exit Glacier

*Access\_Constraints:* No access constraints

*Use\_Constraints:* User responsible for interpretation

*Point\_of\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Mike Gracz

*Contact\_Organization:* Kenai Watershed Forum

*Contact\_Position:* Wetland Program Manager

*Contact\_Voice\_Telephone:* 907-235-2218

*Contact\_Electronic\_Mail\_Address:* mike@kenaiwatershed.org

*Hours\_of\_Service:* 9-5 Alaska Time

*Contact\_Instructions:* email preferred

*Browse\_Graphic:*

*Browse\_Graphic\_File\_Name:*

[<http://cookinletwetlands.info/images/cookInletWetlandsLocations.pdf>](http://cookinletwetlands.info/images/cookInletWetlandsLocations.pdf)

*Browse\_Graphic\_File\_Description:* Map of South-Central Alaska showing areas mapped.

*Browse\_Graphic\_File\_Type:* JPEG

*Data\_Set\_Credit:* Mike Gracz, Kenai Watershed Forum; USEPA, US F&WS.

*Native\_Data\_Set\_Environment:*

Microsoft Windows 8; ESRI ArcView 10.1/10.0 Beware that the legend of the layer file will display in ArcMap 10.1, but .mxds using this layer file in that version will not save. The current work-around is to Save A copy... (ArcMap 10.0 document [\* .mxd]).

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*Data\_Quality\_Information:*

*Logical\_Consistency\_Report:*

Logically consistent: In 2012 topology errors were discovered (especially along the mapping boundary on the Southern Kenai Peninsula) and fixed. The polygon geometry is now believed to be clean. "Area" field indicates no sliver polygons. No formal report generated.

*Completeness\_Report:*

Exact wetland boundaries are perhaps impossible to delineate. The definition of a wetland can change, and is somewhat open to interpretation. This file represents an attempt to map every polygon that could be considered a wetland using the criteria outlined in the 2007 supplement to the 1987 Army Corps Delineation Manual (Environmental Laboratory. (1987). "Corps of Engineers Wetland Delineation Manual", Technical Report Y-87-1, US Army Engineer Waterways Experiment Station. Vicksburg, MS). Before 2008, only the 1987 manual was used. To generate the file, stereo paired

aerial photos and relatively quick field visits, along with National Wetland Inventory maps and soils data were used. Wetlands that may be non-jurisdictional are also included, such as Depressions, inclusions along rivers and in braided river valleys.

*Positional\_Accuracy:*

*Horizontal\_Positional\_Accuracy:*

*Horizontal\_Positional\_Accuracy\_Report:*

Exact boundaries of wetlands cannot always be delineated, even with extensive fieldwork. The file was generated using stereo-paired photographs flown at a nominal scale of: 1:24,000 (Kenai Lowlands & Seward); 1:12,000 (Homer); 1:24,000 and 1:18,000 (Matanuska-Sustina Borough, 2007 and 2008-2013 respectively); and 1:12,000 (Kenai Fjords- Exit Glacier Developed Area). Linework was transferred, using a plastic pencil, to frosted mylar registered over pre-punched ortho-rectified film positives of aerial imagery.

*Vertical\_Positional\_Accuracy:*

*Vertical\_Positional\_Accuracy\_Report:* Not Applicable

*Lineage:*

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* US Department Agriculture (Kenai Lowlands-1996, Mountains-1997, Seward-1997). AeroMetric (Homer-2004, Matanuska-Susitna Borough- 2004-2005; 2011; KEFJ 2007)

*Publication\_Date:* 1996-2011

*Title:*

Two primary sources: Kenai Peninsula (CODE = 1-33612; 60001-61509), USDA 17"x 17" B&W aerial photos (1996-1997). Matanuska-Susitna Borough (CODE = 70001-73500; 74369-97895) and Homer (CODE=50001-50741): AeroMetric (1985, 2004-2005, 2007, 2008-2013), or borrowed from Alaska NWI (CODE = 73501-74368). The 2011 photos were printed at 17" x 17" in true color (for CODE >80000 but < 100 000).

*Source\_Scale\_Denominator:*

1:24,000: Kenai Lowlands, Seward, Kenai Mountains (CODE = 1-33612; 60001-61509). Matanuska-Susitna Borough (CODE = 73501-74368), borrowed from US Fish and Wildlife Service National Wetlands Inventory

1:18,000: Matanuska-Susitna Borough (CODE = >70001 & < 100 000, but not 73501-74368- see above).

1:12,000: Kenai Fjords National Park (CODE = 10001-10020). Homer (CODE = 50001-50741)

*Type\_of\_Source\_Media:* Aerial Photographs

*Source\_Contribution:*

Basis for evaluation of wetland locations on the landscape. Initial line work drawn on plastic overlays on stereo-paired photographs. Approximately 20% of the wetlands with values in the field CODE in the range between 78000-80354, that are located near Willow and along the Willow-Fishhook Road and were not covered by stereo-paired aerial

photography, thus were digitized heads-up using lines drawn on 24"x 24" stereo-paired aerial photos flown in 1985 as a guide.

*Cloud\_Cover*: <1%

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*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method*: Vector

*Point\_and\_Vector\_Object\_Information:*

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type*: G-polygon

*Point\_and\_Vector\_Object\_Count*: 38691

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*Spatial\_Reference\_Information:*

*Horizontal\_Coordinate\_System\_Definition:*

*Planar:*

*Grid\_Coordinate\_System:*

*Grid\_Coordinate\_System\_Name*: State Plane Coordinate System 1983

*State\_Plane\_Coordinate\_System:*

*SPCS\_Zone\_Identifier*: 5004

*Transverse\_Mercator:*

*Scale\_Factor\_at\_Central\_Meridian*: 0.999900

*Longitude\_of\_Central\_Meridian*: -150.000000

*Latitude\_of\_Projection\_Origin*: 54.000000

*False\_Easting*: 1640416.666667

*False\_Northing*: 0.000000

*Planar\_Coordinate\_Information:*

*Planar\_Coordinate\_Encoding\_Method*: coordinate pair

*Coordinate\_Representation:*

*Abscissa\_Resolution*: 0.000000

*Ordinate\_Resolution*: 0.000000

*Planar\_Distance\_Units*: survey feet

*Geodetic\_Model:*

*Horizontal\_Datum\_Name*: North American Datum of 1983

*Ellipsoid\_Name*: Geodetic Reference System 80

*Semi-major\_Axis*: 6378137.000000

*Denominator\_of\_Flattening\_Ratio*: 298.257222

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*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

*Entity\_Type\_Label*: Wetlands13

*Entity\_Type\_Definition*: Cook Inlet Lowland Wetlands mapped through 2013

*Attribute:*

*Attribute\_Label*: FID

*Attribute\_Definition*: Internal feature number.

*Attribute\_Definition\_Source*: ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* Shape

*Attribute\_Definition:* Feature geometry.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Coordinates defining the features.

*Attribute:*

*Attribute\_Label:* ACRES

*Attribute\_Definition:* Area divided by 43,560

*Attribute:*

*Attribute\_Label:* CODE

*Attribute\_Definition:*

Unique Polygon Identifier. Please use when referencing a wetland polygon(s) in correspondence:

1-33612 = Kenai Lowlands

50001-50741 = Homer

60001-60600 = Seward

61002-61509 = Kenai Mountains

>70001, but <99999 = Matanuska - Susitna Borough

> 100,000 = Kenai Fjords, Exit Glacier Developed Area

*Attribute:*

*Attribute\_Label:* MapUnit

*Attribute\_Definition:* Name of Wetland Map Unit

*Attribute\_Definition\_Source:* This project

*Attribute\_Domain\_Values:* Visit: <http://cookinletwetlands.info> for updated information

See especially the Map Sheet 1: Wetlands and Climate available at:

<http://cookinletwetlands.info/Downloads/Downloads.html>

*Enumerated\_Domain:* Note: suffix "c" indicates a created wetland; "d" indicates a significantly disturbed wetland.

*Enumerated\_Domain\_Value:* AMT

*Enumerated\_Domain\_Value\_Definition:* Abandoned Meander Terrace, formed when riverbed elevation was much higher than modern

**Depression Map Units:**

*Enumerated\_Domain\_Value:* D1

*Enumerated\_Domain\_Value\_Definition:* Depression dominated by ponded water

*Enumerated\_domain\_value:* D1-3

*Enumerated\_domain\_value\_definition:* Depression with mixture of: ponded water, sedges, and shrubs

*Enumerated\_domain\_value:* D1-3c

*Enumerated\_domain\_value\_definition:* Created Depression with mixture of: ponded water, sedges, and shrubs

*Enumerated\_domain\_value:* D1-4



*Enumerated \_domain\_value\_definition:* Depression with mixture of: ponded water, sedges, shrubs, and forest  
*Enumerated \_domain\_value:* D12  
*Enumerated \_domain\_value\_definition:* Depression with mixture of ponded water and sedges  
*Enumerated \_domain\_value:* D14  
*Enumerated \_domain\_value\_definition:* Depression with mixture of ponded water and forest  
*Enumerated \_domain\_value:* D1d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Depression dominated by ponded water  
*Enumerated \_domain\_value:* D2  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Depression  
*Enumerated \_domain\_value:* D2-4  
*Enumerated \_domain\_value\_definition:* Depression with mixture of sedges, shrubs, and forest  
*Enumerated \_domain\_value:* D21  
*Enumerated \_domain\_value\_definition:* Depression with mixture of sedges and ponded water, dominated by sedges  
*Enumerated \_domain\_value:* D21c  
*Enumerated \_domain\_value\_definition:* Created Depression with mixture of sedges and ponded water, dominated by sedges  
*Enumerated \_domain\_value:* D23  
*Enumerated \_domain\_value\_definition:* Depression with mixture of sedges and shrubs  
*Enumerated \_domain\_value:* D23c  
*Enumerated \_domain\_value\_definition:* Created Depression with mixture of sedges and shrubs  
*Enumerated \_domain\_value:* D23d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Depression with mixture of sedges and shrubs  
*Enumerated \_domain\_value:* D24  
*Enumerated \_domain\_value\_definition:* Depression with mixture of sedges and forest  
*Enumerated \_domain\_value:* D2d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Sedge-dominated Depression  
*Enumerated \_domain\_value:* D3  
*Enumerated \_domain\_value\_definition:* Shrubby Depression  
*Enumerated \_domain\_value:* D31  
*Enumerated \_domain\_value\_definition:* Shrubby Depression with areas of ponded water  
*Enumerated \_domain\_value:* D32  
*Enumerated \_domain\_value\_definition:* Shrubby Depression with sedge-dominated areas  
*Enumerated \_domain\_value:* D32c  
*Enumerated \_domain\_value\_definition:* Created Shrubby Depression with sedge-dominated areas  
*Enumerated \_domain\_value:* D32d

*Enumerated \_domain\_value\_definition:* Significantly disturbed Shrubby Depression with sedge-dominated areas

*Enumerated \_domain\_value:* D34

*Enumerated \_domain\_value\_definition:* Shrubby Depression with forested areas

*Enumerated \_domain\_value:* D34d

*Enumerated \_domain\_value\_definition:* Significantly disturbed shrubby Depression with forested areas

*Enumerated \_domain\_value:* D3d

*Enumerated \_domain\_value\_definition:* Created Shrubby Depression

*Enumerated \_domain\_value:* D4

*Enumerated \_domain\_value\_definition:* Forested Depression

*Enumerated \_domain\_value:* D41

*Enumerated \_domain\_value\_definition:* Forested Depression with areas of ponded water

*Enumerated \_domain\_value:* D42

*Enumerated \_domain\_value\_definition:* Forested Depression with sedge areas

*Enumerated \_domain\_value:* D43

*Enumerated \_domain\_value\_definition:* Forested Depression with shrubby areas

*Enumerated \_domain\_value:* D4d

*Enumerated \_domain\_value\_definition:* Significantly disturbed forested Depression

*Enumerated \_domain\_value:* DISTURB

*Enumerated \_domain\_value\_definition:* Disturbed wetland such that original map unit is unidentifiable

#### **Relict Glacial Drainageway Map Units:**

*Enumerated \_domain\_value:* DW1

*Enumerated \_domain\_value\_definition:* Drainageway dominated by ponded water

*Enumerated \_domain\_value:* DW1-3

*Enumerated \_domain\_value\_definition:* Drainageway with areas of open water, sedges, and shrubs

*Enumerated \_domain\_value:* DW1-3d

*Enumerated \_domain\_value\_definition:* Significantly disturbed Drainageway with areas of open water, sedges, and shrubs

*Enumerated \_domain\_value:* DW1-4

*Enumerated \_domain\_value\_definition:* Drainageway with areas of open water, sedges, shrubs, and bluejoint reedgrass

*Enumerated \_domain\_value:* DW1-5

*Enumerated \_domain\_value\_definition:* Drainageway with areas of open water, sedges, shrubs, bluejoint reedgrass and bog

*Enumerated \_domain\_value:* DW1-5A

*Enumerated \_domain\_value\_definition:* Drainageway with areas of open water, sedges, shrubs, bluejoint reedgrass, bog, and forest

*Enumerated \_domain\_value:* DW12

*Enumerated \_domain\_value\_definition:* Drainageway with open water and sedges

*Enumerated \_domain\_value:* DW13

*Enumerated \_domain\_value\_definition:* Drainageway with areas of open water and shrubs

*Enumerated \_domain\_value:* DW12c  
*Enumerated \_domain\_value\_definition:* Created Drainageway with open water and sedges

*Enumerated \_domain\_value:* DW1c  
*Enumerated \_domain\_value\_definition:* Created Drainageway with open water

*Enumerated \_domain\_value:* DW2  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Drainageway

*Enumerated \_domain\_value:* DW2-4  
*Enumerated \_domain\_value\_definition:* Drainageway with sedges, shrubs and bluejoint reedgrass

*Enumerated \_domain\_value:* DW2-5A  
*Enumerated \_domain\_value\_definition:* Drainageway with sedges, shrubs, bluejoint reedgrass, and forest

*Enumerated \_domain\_value:* DW21  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Drainageway with areas of open water

*Enumerated \_domain\_value:* DW23  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Drainageway with shrubby areas

*Enumerated \_domain\_value:* DW23d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Sedge-dominated Drainageway with shrubby areas

*Enumerated \_domain\_value:* DW24  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Drainageway with areas of bluejoint reedgrass

*Enumerated \_domain\_value:* DW25  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Drainageway with bog areas

*Enumerated \_domain\_value:* DW25A  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Drainageway with forested areas

*Enumerated \_domain\_value:* DW2d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Sedge-dominated Drainageway

*Enumerated \_domain\_value:* DW3  
*Enumerated \_domain\_value\_definition:* Shrubby Drainageway

*Enumerated \_domain\_value:* DW31  
*Enumerated \_domain\_value\_definition:* Shrubby Drainageway with areas of ponded water

*Enumerated \_domain\_value:* DW32  
*Enumerated \_domain\_value\_definition:* Shrubby Drainageway with sedge-dominated areas

*Enumerated \_domain\_value:* DW3-5  
*Enumerated \_domain\_value\_definition:* Shrubby Drainageway with bluejoint reedgrass and bog areas

*Enumerated \_domain\_value:* DW35  
*Enumerated \_domain\_value\_definition:* Shrubby Drainageway with bog areas

*Enumerated \_domain\_value:* DW35A  
*Enumerated \_domain\_value\_definition:* Shrubby Drainageway with forested areas

*Enumerated \_domain\_value:* DW3-5A  
*Enumerated \_domain\_value\_definition:* Shrubby Drainageway with forested, bluejoint reed grass-dominated, and bog areas

*Enumerated \_domain\_value:* DW3T6  
*Enumerated \_domain\_value\_definition:* Shrubby Drainageway and Tidally influenced area dominated by Lyngbyeii sedge.

*Enumerated \_domain\_value:* DW3d  
*Enumerated \_domain\_value\_definition:* Created shrubby Drainageway

*Enumerated \_domain\_value:* DW4  
*Enumerated \_domain\_value\_definition:* Bluejoint Reedgrass Drainageway

  

*Enumerated \_domain\_value:* DW42  
*Enumerated \_domain\_value\_definition:* Bluejoint Reedgrass-dominated Drainageway with sedge-dominated areas

*Enumerated \_domain\_value:* DW43  
*Enumerated \_domain\_value\_definition:* Bluejoint Reedgrass-dominated Drainageway with shrubby areas

*Enumerated \_domain\_value:* DW45  
*Enumerated \_domain\_value\_definition:* Bluejoint Reedgrass-dominated Drainageway with areas of bog

*Enumerated \_domain\_value:* DW45A  
*Enumerated \_domain\_value\_definition:* Bluejoint Reedgrass-dominated Drainageway with forested areas

*Enumerated \_domain\_value:* DW4-5A  
*Enumerated \_domain\_value\_definition:* Bluejoint Reedgrass-dominated Drainageway with areas of bog and forest

*Enumerated \_domain\_value:* DW5  
*Enumerated \_domain\_value\_definition:* Bog margin Drainageway

*Enumerated \_domain\_value:* DW5d  
*Enumerated \_domain\_value\_definition:* disturbed Bog margin Drainageway

*Enumerated \_domain\_value:* DW52  
*Enumerated \_domain\_value\_definition:* Bog margin Drainageway with areas dominated by sedges

*Enumerated \_domain\_value:* DW53  
*Enumerated \_domain\_value\_definition:* Bog margin Drainageway with shrubby areas

*Enumerated \_domain\_value:* DW54  
*Enumerated \_domain\_value\_definition:* Bog margin Drainageway with areas dominated by forest

*Enumerated \_domain\_value:* DW55A  
*Enumerated \_domain\_value\_definition:* Bog margin Drainageway with forested areas

*Enumerated \_domain\_value:* DW5A  
*Enumerated \_domain\_value\_definition:* Forested Drainageway

*Enumerated \_domain\_value:* DW5A2

*Enumerated \_domain\_value\_definition:* Forested Drainageway with areas dominated by sedges

*Enumerated \_domain\_value:* DW5A3

*Enumerated \_domain\_value\_definition:* Forested Drainageway with shrubby areas

*Enumerated \_domain\_value:* DW5A3d

*Enumerated \_domain\_value\_definition:* Significantly disturbed Forested Drainageway with shrubby areas

*Enumerated \_domain\_value:* DW5A4

*Enumerated \_domain\_value\_definition:* Forested Drainageway with areas dominated by bluejoint reedgrass

*Enumerated \_domain\_value:* DW5A5

*Enumerated \_domain\_value\_definition:* Forested Drainageway with bog margin

*Enumerated \_domain\_value:* DW5Ad

*Enumerated \_domain\_value\_definition:* Significantly disturbed Forested Drainageway

*Enumerated \_domain\_value:* DWR

*Enumerated \_domain\_value\_definition:* Complex Drainageway

*Enumerated \_domain\_value:* DWRd

*Enumerated \_domain\_value\_definition:* Significantly disturbed complex Drainageway

**Tidally-Influenced Drainageway Map Units:** (see below for TDW units, where tidal influence dominates freshwater)

*Enumerated \_domain\_value:* DWT1

*Enumerated \_domain\_value\_definition:* Drainageway with tidal influence dominated by ponded water

*Enumerated \_domain\_value:* DWT1-3

*Enumerated \_domain\_value\_definition:* Drainageway with tidal influence with areas of ponded water, sedges, and shrubs

*Enumerated \_domain\_value:* DWT12

*Enumerated \_domain\_value\_definition:* Drainageway with tidal influence dominated by ponded water and sedges

*Enumerated \_domain\_value:* DWT2

*Enumerated \_domain\_value\_definition:* Sedge-dominated Drainageway with tidal influence

*Enumerated \_domain\_value:* DWT2-5A

*Enumerated \_domain\_value\_definition:* Sedge-dominated Drainageway with tidal influence with sedge, shrubby, bluejoint reedgrass and forested areas

*Enumerated \_domain\_value:* DWT21

*Enumerated \_domain\_value\_definition:* Sedge-dominated Drainageway with tidal influence with areas of ponded water

*Enumerated \_domain\_value:* DWT23

*Enumerated \_domain\_value\_definition:* Sedge-dominated Drainageway with tidal influence with shrubby areas

*Enumerated \_domain\_value:* DWT23c

*Enumerated \_domain\_value\_definition:* Created sedge-dominated Drainageway with tidal influence with shrubby areas

*Enumerated \_domain\_value:* DWT25A

*Enumerated \_domain\_value\_definition:* Sedge-dominated Drainageway with tidal influence with forested areas

*Enumerated \_domain\_value:* DWT2d

*Enumerated \_domain\_value\_definition:* Significantly disturbed sedge-dominated Drainageway with tidal influence

*Enumerated \_domain\_value:* DWT3

*Enumerated \_domain\_value\_definition:* Shrubby Drainageway with tidal influence

*Enumerated \_domain\_value:* DWT32

*Enumerated \_domain\_value\_definition:* Shrubby Drainageway with tidal influence with sedge-dominated areas

*Enumerated \_domain\_value:* DWT35A

*Enumerated \_domain\_value\_definition:* Shrubby Drainageway with tidal influence with forested areas

*Enumerated \_domain\_value:* DWT45A

*Enumerated \_domain\_value\_definition:* Forested Drainageway with tidal influence dominated by bluejoint reedgrass and forest

*Enumerated \_domain\_value:* DWT5A

*Enumerated \_domain\_value\_definition:* Forested Drainageway with tidal influence

*Enumerated \_domain\_value:* DWT5A3

*Enumerated \_domain\_value\_definition:* Forested Drainageway with tidal influence with shrubby areas

*Enumerated \_domain\_value:* DWT5Ad

*Enumerated \_domain\_value\_definition:* Significantly disturbed Forested Drainageway with tidal influence

*Enumerated \_domain\_value:* DWTR

*Enumerated \_domain\_value\_definition:* Complex Drainageway with tidal influence

**Floating Island Map Unit:**

*Enumerated \_domain\_value:* FI

*Enumerated \_domain\_value\_definition:* Floating Island

**Headwater Fen Map Units:**

*Enumerated \_domain\_value:* H1

*Enumerated \_domain\_value\_definition:* Headwater fen pond

*Enumerated \_domain\_value:* H12

*Enumerated \_domain\_value\_definition:* Headwater fen with ponded water and sedges

*Enumerated \_domain\_value:* H1-3

*Enumerated \_domain\_value\_definition:* Headwater fen with ponded water, sedges and shrubs

*Enumerated \_domain\_value:* H13

*Enumerated \_domain\_value\_definition:* Headwater fen with ponded water and shrubs

*Enumerated \_domain\_value:* H2

*Enumerated \_domain\_value\_definition:* Headwater fen dominated by sedges

*Enumerated \_domain\_value:* H21

*Enumerated \_domain\_value\_definition:* Headwater fen dominated by sedges with areas of ponded water

*Enumerated \_domain\_value:* H23

*Enumerated \_domain\_value\_definition:* Headwater fen dominated by sedges with shrubby areas

*Enumerated \_domain\_value:* H2-4

*Enumerated \_domain\_value\_definition:* Headwater fen with sedges, shrubs, and forest

*Enumerated \_domain\_value:* H3

*Enumerated \_domain\_value\_definition:* Shrubby Headwater fen

*Enumerated \_domain\_value:* H31

*Enumerated \_domain\_value\_definition:* Shrubby Headwater fen with areas of ponded water

*Enumerated \_domain\_value:* H32

*Enumerated \_domain\_value\_definition:* Shrubby Headwater fen with sedges

*Enumerated \_domain\_value:* H34

*Enumerated \_domain\_value\_definition:* Shrubby Headwater fen with forested areas

*Enumerated \_domain\_value:* H4

*Enumerated \_domain\_value\_definition:* Forested Headwater fen

*Enumerated \_domain\_value:* H42

*Enumerated \_domain\_value\_definition:* Forested Headwater fen with areas dominated by sedges

*Enumerated \_domain\_value:* H43

*Enumerated \_domain\_value\_definition:* Forested Headwater fen with shrubby areas

#### **Kettle Map Units:**

*Enumerated \_domain\_value:* K1

*Enumerated \_domain\_value\_definition:* Kettle pond

*Enumerated \_domain\_value:* K1-3

*Enumerated \_domain\_value\_definition:* Kettle with ponded water, sedges and shrubs

*Enumerated \_domain\_value:* K1-4

*Enumerated \_domain\_value\_definition:* Kettle with ponded water, sedges, shrubs and forest

*Enumerated \_domain\_value:* K12

*Enumerated \_domain\_value\_definition:* Kettle pond with sedge-dominated areas

*Enumerated \_domain\_value:* K12c

*Enumerated \_domain\_value\_definition:* Created Kettle pond with sedge-dominated areas

*Enumerated \_domain\_value:* K13

*Enumerated \_domain\_value\_definition:* Kettle pond with shrub-dominated areas

*Enumerated \_domain\_value:* K14

*Enumerated \_domain\_value\_definition:* Kettle pond with forested areas

*Enumerated \_domain\_value:* K14d

*Enumerated \_domain\_value\_definition:* Significantly disturbed Kettle pond with forested areas

*Enumerated \_domain\_value:* K1c

*Enumerated \_domain\_value\_definition:* Created Kettle pond

*Enumerated \_domain\_value:* K1d

*Enumerated \_domain\_value\_definition:* Significantly disturbed Kettle pond

*Enumerated \_domain\_value:* K2

*Enumerated \_domain\_value\_definition:* Sedge-dominated Kettle

*Enumerated \_domain\_value:* K2c

*Enumerated \_domain\_value\_definition:* Created sedge-dominated Kettle  
*Enumerated \_domain\_value:* K2-4  
*Enumerated \_domain\_value\_definition:* Kettle with sedges, shrubs and forest  
*Enumerated \_domain\_value:* K2-4c  
*Enumerated \_domain\_value\_definition:* Created Kettle with sedges, shrubs and forest  
*Enumerated \_domain\_value:* K2-4d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Kettle with sedges, shrubs and forest  
*Enumerated \_domain\_value:* K21  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Kettle with areas of ponded water  
*Enumerated \_domain\_value:* K21c  
*Enumerated \_domain\_value\_definition:* Created sedge-dominated Kettle with areas of ponded water  
*Enumerated \_domain\_value:* K21d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed sedge-dominated Kettle with areas of ponded water  
*Enumerated \_domain\_value:* K23  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Kettle with shrubby areas  
*Enumerated \_domain\_value:* K23c  
*Enumerated \_domain\_value\_definition:* Created sedge-dominated Kettle with shrubby areas  
*Enumerated \_domain\_value:* K23d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed sedge-dominated Kettle with shrubby areas  
*Enumerated \_domain\_value:* K24  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Kettle with forested areas  
*Enumerated \_domain\_value:* K3  
*Enumerated \_domain\_value\_definition:* Shrubby Kettle  
*Enumerated \_domain\_value:* K31  
*Enumerated \_domain\_value\_definition:* Shrubby Kettle with areas of ponded water  
*Enumerated \_domain\_value:* K31d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Shrubby Kettle with areas of ponded water  
*Enumerated \_domain\_value:* K32  
*Enumerated \_domain\_value\_definition:* Shrubby Kettle with sedge-dominated areas  
*Enumerated \_domain\_value:* K32d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Shrubby Kettle with sedge-dominated areas  
*Enumerated \_domain\_value:* K34  
*Enumerated \_domain\_value\_definition:* Shrubby Kettle with forested areas  
*Enumerated \_domain\_value:* K34d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed shrubby Kettle with forested areas  
*Enumerated \_domain\_value:* K3d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Shrubby Kettle



*Enumerated \_domain\_value:* K4  
*Enumerated \_domain\_value\_definition:* Forested Kettle  
*Enumerated \_domain\_value:* K41  
*Enumerated \_domain\_value\_definition:* Forested Kettle with areas of ponded water  
*Enumerated \_domain\_value:* K42  
*Enumerated \_domain\_value\_definition:* Forested Kettle with sedge-dominated areas  
*Enumerated \_domain\_value:* K43  
*Enumerated \_domain\_value\_definition:* Forested Kettle with shrubby areas  
*Enumerated \_domain\_value:* K43d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed forested Kettle with shrubby areas  
*Enumerated \_domain\_value:* K4d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed forested Kettle  
*Enumerated \_domain\_value:* LAKE  
*Enumerated \_domain\_value\_definition:* Open water greater than 20 acres (and deeper than 6 feet)

**Relict Glacial Lakebed Map Units:**

*Enumerated \_domain\_value:* LB1  
*Enumerated \_domain\_value\_definition:* Relict Glacial Lakebed pond  
*Enumerated \_domain\_value:* LB1-3  
*Enumerated \_domain\_value\_definition:* Relict Glacial Lakebed with areas of ponded water, sedges, and sphagnum lawn  
*Enumerated \_domain\_value:* LB1-4  
*Enumerated \_domain\_value\_definition:* Relict Glacial Lakebed with areas of ponded water, sedges, sphagnum lawn, and shrubs  
*Enumerated \_domain\_value:* LB1-5  
*Enumerated \_domain\_value\_definition:* Relict Glacial Lakebed with areas of ponded water, sedges, sphagnum lawn, shrubs, and bluejoint reedgrass  
*Enumerated \_domain\_value:* LB12  
*Enumerated \_domain\_value\_definition:* Relict Glacial Lakebed pond with areas of sedges  
*Enumerated \_domain\_value:* LB13  
*Enumerated \_domain\_value\_definition:* Relict Glacial Lakebed pond with sphagnum lawn areas  
*Enumerated \_domain\_value:* LB14  
*Enumerated \_domain\_value\_definition:* Relict Glacial Lakebed pond with shrubby areas  
*Enumerated \_domain\_value:* LB2  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Relict Glacial Lakebed  
*Enumerated \_domain\_value:* LB2d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed sedge-dominated Relict Glacial Lakebed  
*Enumerated \_domain\_value:* LB2-4  
*Enumerated \_domain\_value\_definition:* Relict Glacial Lakebed with areas of sedges, sphagnum lawn, and shrubs  
*Enumerated \_domain\_value:* LB2-4d

*Enumerated \_domain\_value\_definition:* Significantly disturbed Relict Glacial Lakebed with areas of sedges, sphagnum lawn, and shrubs

*Enumerated \_domain\_value:* LB2-5

*Enumerated \_domain\_value\_definition:* Relict Glacial Lakebed with areas of sedges, sphagnum lawn, shrubs, and bluejoint reedgrass

*Enumerated \_domain\_value:* LB2-6

*Enumerated \_domain\_value\_definition:* Relict Glacial Lakebed with areas of sedges, sphagnum lawn, shrubs, bluejoint reedgrass, and forest

*Enumerated \_domain\_value:* LB21

*Enumerated \_domain\_value\_definition:* Sedge dominated Relict Glacial Lakebed with areas of ponded water

*Enumerated \_domain\_value:* LB23

*Enumerated \_domain\_value\_definition:* Sedge dominated Relict Glacial Lakebed with areas of sphagnum lawn

*Enumerated \_domain\_value:* LB23d

*Enumerated \_domain\_value\_definition:* Significantly disturbed Sedge dominated Relict Glacial Lakebed with areas of sphagnum lawn

*Enumerated \_domain\_value:* LB24

*Enumerated \_domain\_value\_definition:* Sedge dominated Relict Glacial Lakebed with shrubby areas

*Enumerated \_domain\_value:* LB25

*Enumerated \_domain\_value\_definition:* Sedge dominated Relict Glacial Lakebed with areas dominated by bluejoint reedgrass

*Enumerated \_domain\_value:* LB26

*Enumerated \_domain\_value\_definition:* Sedge dominated Relict Glacial Lakebed with areas of forest

*Enumerated \_domain\_value:* LB26d

*Enumerated \_domain\_value\_definition:* Disturbed Sedge dominated Relict Glacial Lakebed with areas of forest

*Enumerated \_domain\_value:* LB3

*Enumerated \_domain\_value\_definition:* Sphagnum lawn on a Relict Glacial Lakebed

*Enumerated \_domain\_value:* LB31

*Enumerated \_domain\_value\_definition:* Sphagnum lawn on a Relict Glacial Lakebed with areas of ponded water

*Enumerated \_domain\_value:* LB32

*Enumerated \_domain\_value\_definition:* Sphagnum lawn on a Relict Glacial Lakebed with areas of sedges

*Enumerated \_domain\_value:* LB34

*Enumerated \_domain\_value\_definition:* Sphagnum lawn on a Relict Glacial Lakebed with shrubby areas

*Enumerated \_domain\_value:* LB34d

*Enumerated \_domain\_value\_definition:* Significantly disturbed Sphagnum lawn on a Relict Glacial Lakebed with shrubby areas

*Enumerated \_domain\_value:* LB36

*Enumerated \_domain\_value\_definition:* Sphagnum lawn on a Relict Glacial Lakebed with forested areas

*Enumerated \_domain\_value:* LB3d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Sphagnum lawn on a Relict Glacial Lakebed

*Enumerated \_domain\_value:*LB3-6  
*Enumerated \_domain\_value\_definition:* Relict Glacial Lakebed with areas of Sphagnum lawn, shrubs and forest

*Enumerated \_domain\_value:* LB4  
*Enumerated \_domain\_value\_definition:* Shrubby Relict Glacial Lakebed

*Enumerated \_domain\_value:* LB4d  
*Enumerated \_domain\_value\_definition:* disturbed Shrubby Relict Glacial Lakebed

*Enumerated \_domain\_value:* LB41  
*Enumerated \_domain\_value\_definition:* Shrubby Relict Glacial Lakebed with areas o ponded water

*Enumerated \_domain\_value:* LB42  
*Enumerated \_domain\_value\_definition:* Shrubby Relict Glacial Lakebed with sedge-dominated areas

*Enumerated \_domain\_value:* LB43  
*Enumerated \_domain\_value\_definition:* Shrubby Relict Glacial Lakebed with areas of sphagnum lawn

*Enumerated \_domain\_value:* LB45  
*Enumerated \_domain\_value\_definition:* Shrubby Relict Glacial Lakebed with areas dominated by bluejoint reedgrass

*Enumerated \_domain\_value:* LB46  
*Enumerated \_domain\_value\_definition:* Shrubby Relict Glacial Lakebed with forested areas

*Enumerated \_domain\_value:* LB4-6  
*Enumerated \_domain\_value\_definition:* Relict Glacial Lakebed with shrub-dominated, bluejoint reedgrass-dominated, and forested areas

*Enumerated \_domain\_value:* LB5  
*Enumerated \_domain\_value\_definition:* Bluejoint reedgrass-dominated Relict Glacial Lakebed

*Enumerated \_domain\_value:* LB54  
*Enumerated \_domain\_value\_definition:* Bluejoint reedgrass-dominated Relict Glacial Lakebed with shrubby areas

*Enumerated \_domain\_value:* LB6  
*Enumerated \_domain\_value\_definition:* Forested Relict Glacial Lakebed

*Enumerated \_domain\_value:* LB62  
*Enumerated \_domain\_value\_definition:* Forested Relict Glacial Lakebed with areas of sedges

*Enumerated \_domain\_value:* LB63  
*Enumerated \_domain\_value\_definition:* Forested Relict Glacial Lakebed with sphagnum lawn areas

*Enumerated \_domain\_value:* LB63d  
*Enumerated \_domain\_value\_definition:* disturbed Forested Relict Glacial Lakebed with sphagnum lawn areas

*Enumerated \_domain\_value:* LB64

*Enumerated \_domain\_value\_definition:* Forested Relict Glacial Lakebed with shrubby areas

*Enumerated \_domain\_value:* LB64d

*Enumerated \_domain\_value\_definition:* Significantly disturbed forested Relict Glacial Lakebed with shrubby areas

*Enumerated \_domain\_value:* LB6d

*Enumerated \_domain\_value\_definition:* Significantly disturbed Forested Relict Glacial Lakebed

*Enumerated \_domain\_value:* LB65

*Enumerated \_domain\_value\_definition:* Forested Relict Glacial Lakebed with areas dominated by bluejoint reedgrass

*Enumerated \_domain\_value:* LBSF

*Enumerated \_domain\_value\_definition:* Complex Relict Glacial Lakebed, often with patterned fen features

**Late Snow Plateau Map Unit:**

*Enumerated \_domain\_value:* LSP

*Enumerated \_domain\_value\_definition:* Late Snow Plateau

**Riverine Map Units:**

*Enumerated \_domain\_value:* RAA

*Enumerated \_domain\_value\_definition:* AA Stream (waterfall)

*Enumerated \_domain\_value:* RA

*Enumerated \_domain\_value\_definition:* A Stream (cascade)

*Enumerated \_domain\_value:* RB

*Enumerated \_domain\_value\_definition:* B Stream (riffle dominated)

*Enumerated \_domain\_value:* RC

*Enumerated \_domain\_value\_definition:* C Stream (point bars, floodplain development)

*Enumerated \_domain\_value:* RD3C

*Enumerated \_domain\_value\_definition:* D3 Stream channel (braided glacial)

*Enumerated \_domain\_value:* RD4C

*Enumerated \_domain\_value\_definition:* D4 Stream channel (braided glacial)

*Enumerated \_domain\_value:* RD4SC

*Enumerated \_domain\_value\_definition:* D4 Stream side channel (braided glacial)

*Enumerated \_domain\_value:* RD4F1

*Enumerated \_domain\_value\_definition:* D4 Stream open water floodplain wetland (braided glacial)

*Enumerated \_domain\_value:* RD4F12

*Enumerated \_domain\_value\_definition:* D4 Stream open water floodplain wetland with sedge-dominated areas (braided glacial)

*Enumerated \_domain\_value:* RD4F1-3

*Enumerated \_domain\_value\_definition:* D4 Stream floodplain wetland with areas of open water, sedges and shrubs (braided glacial)

*Enumerated \_domain\_value:* RD4F1-4

*Enumerated \_domain\_value\_definition:* D4 Stream floodplain wetland with areas of open water, sedges, shrubs and forest (braided glacial)

*Enumerated \_domain\_value:* RD4F1c

*Enumerated \_domain\_value\_definition:* D4 Stream created open-water floodplain-wetland (braided glacial)  
*Enumerated \_domain\_value:* RD4F2  
*Enumerated \_domain\_value\_definition:* D4 Stream sedge-dominated floodplain wetland (braided glacial)  
*Enumerated \_domain\_value:* RD4F21  
*Enumerated \_domain\_value\_definition:* D4 Stream sedge-dominate floodplain wetland with open water areas (braided glacial)  
*Enumerated \_domain\_value:* RD4F23  
*Enumerated \_domain\_value\_definition:* D4 Stream sedge-dominate floodplain wetland with shrubby areas (braided glacial)  
*Enumerated \_domain\_value:* RD4F2-4  
*Enumerated \_domain\_value\_definition:* D4 Stream floodplain wetland with sedge, shrub and forested areas(braided glacial)  
*Enumerated \_domain\_value:* RD4F2c  
*Enumerated \_domain\_value\_definition:* Created D4 Stream sedge-dominated floodplain wetland (braided glacial)  
*Enumerated \_domain\_value:* RD4F3  
*Enumerated \_domain\_value\_definition:* D4 Stream shrubby floodplain wetland (braided glacial)  
*Enumerated \_domain\_value:* RD4F32  
*Enumerated \_domain\_value\_definition:* D4 Stream shrubby floodplain wetland with sedge-dominated areas(braided glacial)  
*Enumerated \_domain\_value:* RD4F34  
*Enumerated \_domain\_value\_definition:* D4 Stream shrubby floodplain wetland with forested areas(braided glacial)  
*Enumerated \_domain\_value:* RD4F4  
*Enumerated \_domain\_value\_definition:* D4 Stream forested floodplain wetland (braided glacial)  
*Enumerated \_domain\_value:* RD4F43  
*Enumerated \_domain\_value\_definition:* D4 Stream forested floodplain wetland with shrubby areas(braided glacial)  
*Enumerated \_domain\_value:* RD4F4d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed D4 Stream forested floodplain wetland (braided glacial)  
*Enumerated \_domain\_value:* RD4T1  
*Enumerated \_domain\_value\_definition:* D4 Stream lower terrace (braided glacial)  
*Enumerated \_domain\_value:* RD4T1d  
*Enumerated \_domain\_value\_definition:* Disturbed D4 stream lower terrace (braided glacial)  
*Enumerated \_domain\_value:* RD4T12  
*Enumerated \_domain\_value\_definition:* D4 Stream lower and upper terraces (braided glacial)  
*Enumerated \_domain\_value:* RD4T2  
*Enumerated \_domain\_value\_definition:* D4 Stream upper terrace (braided glacial)  
*Enumerated \_domain\_value:* RD4T21

*Enumerated \_domain\_value\_definition:* D4 Stream upper and lower terraces (braided glacial)

*Enumerated \_domain\_value:* RD4x

*Enumerated \_domain\_value\_definition:* D4 Stream complex of units (braided glacial)

*Enumerated \_domain\_value:* RDA

*Enumerated \_domain\_value\_definition:* Braided Stream channel on a peatland

*Enumerated \_domain\_value:* Rea

*Enumerated \_domain\_value\_definition:* E Stream not discernable on 1:24,000 aerial photography (pool-dominated)

*Enumerated \_domain\_value:* Rea

*Enumerated \_domain\_value\_definition:* Created E Stream not discernable on 1:24,000 aerial photography (pool-dominated)

*Enumerated \_domain\_value:* Reb

*Enumerated \_domain\_value\_definition:* Bankfull E Stream (pool-dominated)

*Enumerated \_domain\_value:* Rel

*Enumerated \_domain\_value\_definition:* Linear E Stream (pool-dominated)

*Enumerated \_domain\_value:* Reld

*Enumerated \_domain\_value\_definition:* Significantly disturbed Linear E Stream (pool-dominated)

*Enumerated \_domain\_value:* Res

*Enumerated \_domain\_value\_definition:* Sinuous E Stream (pool-dominated)

*Enumerated \_domain\_value:* Rib

*Enumerated \_domain\_value\_definition:* River islands and bars

*Enumerated \_domain\_value:* Rt

*Enumerated \_domain\_value\_definition:* Stream with tidal influence

**VLD Trough Map Units:**

*Enumerated \_domain\_value:* RT1

*Enumerated \_domain\_value\_definition:* Ripple Trough pond

*Enumerated \_domain\_value:* RT1d

*Enumerated \_domain\_value\_definition:* Significantly disturbed Ripple Trough pond

*Enumerated \_domain\_value:* RT1-3

*Enumerated \_domain\_value\_definition:* Ripple Trough with ponded water, sedges and shrubs

*Enumerated \_domain\_value:* RT1-4

*Enumerated \_domain\_value\_definition:* Ripple Trough with ponded water, sedges, shrubs and forest

*Enumerated \_domain\_value:* RT12

*Enumerated \_domain\_value\_definition:* Ripple Trough with ponded water and sedges

*Enumerated \_domain\_value:* RT2

*Enumerated \_domain\_value\_definition:* Sedge-dominated Ripple Trough

*Enumerated \_domain\_value:* RT2d

*Enumerated \_domain\_value\_definition:* Disturbed sedge-dominated Ripple Trough

*Enumerated \_domain\_value:* RT2-4

*Enumerated \_domain\_value\_definition:* Ripple Trough with sedges, shrubs, and forest

*Enumerated \_domain\_value:* RT21  
*Enumerated \_domain\_value\_definition:* Ripple Trough with ponded water and sedges  
*Enumerated \_domain\_value:* RT23  
*Enumerated \_domain\_value\_definition:* Ripple Trough with sedges and shrubs  
*Enumerated \_domain\_value:* RT23d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Ripple Trough with sedges and shrubs  
*Enumerated \_domain\_value:* RT24  
*Enumerated \_domain\_value\_definition:* Ripple Trough with sedges and forest  
*Enumerated \_domain\_value:* RT3  
*Enumerated \_domain\_value\_definition:* Shrubby Ripple Trough  
*Enumerated \_domain\_value:* RT32  
*Enumerated \_domain\_value\_definition:* Shrubby Ripple Trough with sedge-dominated areas  
*Enumerated \_domain\_value:* RT32d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Shrubby Ripple Trough with sedges  
*Enumerated \_domain\_value:* RT34  
*Enumerated \_domain\_value\_definition:* Shrubby Ripple Trough with forested areas  
*Enumerated \_domain\_value:* RT3d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Shrubby Ripple Trough  
*Enumerated \_domain\_value:* RT4  
*Enumerated \_domain\_value\_definition:* Forested Ripple Trough  
*Enumerated \_domain\_value:* RT42  
*Enumerated \_domain\_value\_definition:* Forested Ripple Trough with sedge-dominated areas  
*Enumerated \_domain\_value:* RT43  
*Enumerated \_domain\_value\_definition:* Forested Ripple Trough with shrubby areas  
*Enumerated \_domain\_value:* RT43d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Forested Ripple Trough with shrubby areas  
*Enumerated \_domain\_value:* RT4d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Forested Ripple Trough  
*Enumerated \_domain\_value:* RTd  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Ripple Trough

**Discharge Slope Map Units (in two parts, broken by Spring Fens, to preserve alphabetical order):**

*Enumerated \_domain\_value:* SA  
*Enumerated \_domain\_value\_definition:* Alder-dominated Discharge Slope  
*Enumerated \_domain\_value:* SAB  
*Enumerated \_domain\_value\_definition:* Alder and Birch-dominated Discharge Slope  
*Enumerated \_domain\_value:* SAC  
*Enumerated \_domain\_value\_definition:* Alder and bluejoint-dominated Discharge Slope  
*Enumerated \_domain\_value:* SAG  
*Enumerated \_domain\_value\_definition:* Alder and white spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SAL  
*Enumerated \_domain\_value\_definition:* Alder and Lutz spruce-dominated Discharge Slope  
*Enumerated \_domain\_value:* SAM  
*Enumerated \_domain\_value\_definition:* Alder and black spruce-dominated Discharge Slope  
*Enumerated \_domain\_value:* SAS  
*Enumerated \_domain\_value\_definition:* Alder and willow-dominated Discharge Slope  
*Enumerated \_domain\_value:* SB  
*Enumerated \_domain\_value\_definition:* Birch-dominated Discharge Slope  
*Enumerated \_domain\_value:* SBA  
*Enumerated \_domain\_value\_definition:* Birch and alder-dominated Discharge Slope  
*Enumerated \_domain\_value:* SBd  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Birch-dominated Discharge Slope  
*Enumerated \_domain\_value:* SBG  
*Enumerated \_domain\_value\_definition:* Birch and White spruce-dominated Discharge Slope  
*Enumerated \_domain\_value:* SBM  
*Enumerated \_domain\_value\_definition:* Birch and black spruce-dominated Discharge Slope  
*Enumerated \_domain\_value:* SC  
*Enumerated \_domain\_value\_definition:* Bluejoint-dominated Discharge Slope  
*Enumerated \_domain\_value:* SCA  
*Enumerated \_domain\_value\_definition:* Bluejoint and alder-dominated Discharge Slope  
*Enumerated \_domain\_value:* SCG  
*Enumerated \_domain\_value\_definition:* Bluejoint and white spruce-dominated Discharge Slope

(more Discharge Slope Units below Spring Fen Units)

**Spring Fen Map Units:**

*Enumerated \_domain\_value:* SF1  
*Enumerated \_domain\_value\_definition:* Spring Fen pond/lake  
*Enumerated \_domain\_value:* SF1-3  
*Enumerated \_domain\_value\_definition:* Spring Fen with pond, sedges, and shrubs  
*Enumerated \_domain\_value:* SF1-4  
*Enumerated \_domain\_value\_definition:* Spring Fen with pond, sedges, shrubs, and forest  
*Enumerated \_domain\_value:* SF12  
*Enumerated \_domain\_value\_definition:* Spring Fen with pond and sedges  
*Enumerated \_domain\_value:* SF12d  
*Enumerated \_domain\_value\_definition:* Disturbed Spring Fen with pond and sedges  
*Enumerated \_domain\_value:* SF1c  
*Enumerated \_domain\_value\_definition:* Created Spring Fen pond  
*Enumerated \_domain\_value:* SF2  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Spring Fen  
*Enumerated \_domain\_value:* SF2-4  
*Enumerated \_domain\_value\_definition:* Spring Fen with sedges, shrubs, and forest



*Enumerated \_domain\_value:* SF2-4d  
*Enumerated \_domain\_value\_definition:* Disturbed Spring Fen with sedges, shrubs, and forest

*Enumerated \_domain\_value:* SF21  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Spring Fen with areas of ponded water

*Enumerated \_domain\_value:* SF21d  
*Enumerated \_domain\_value\_definition:* Disturbed Sedge-dominated Spring Fen with areas of ponded water

*Enumerated \_domain\_value:* SF23  
*Enumerated \_domain\_value\_definition:* Sedge-dominated Spring Fen with shrubby areas

*Enumerated \_domain\_value:* SF23d  
*Enumerated \_domain\_value\_definition:* Disturbed Sedge-dominated Spring Fen with shrubby areas

*Enumerated \_domain\_value:* SF24d  
*Enumerated \_domain\_value\_definition:* Disturbed Sedge-dominated Spring Fen with forested areas

*Enumerated \_domain\_value:* SF2c  
*Enumerated \_domain\_value\_definition:* Created sedge-dominated Spring Fen

*Enumerated \_domain\_value:* SF2d  
*Enumerated \_domain\_value\_definition:* Disturbed sedge-dominated Spring Fen

*Enumerated \_domain\_value:* SF3  
*Enumerated \_domain\_value\_definition:* Shrubby Spring Fen

*Enumerated \_domain\_value:* SF31  
*Enumerated \_domain\_value\_definition:* Shrubby Spring Fen with areas of open water

*Enumerated \_domain\_value:* SF32  
*Enumerated \_domain\_value\_definition:* Shrubby Spring Fen with sedge-dominated areas

*Enumerated \_domain\_value:* SF34  
*Enumerated \_domain\_value\_definition:* Shrubby Spring Fen with forested areas

*Enumerated \_domain\_value:* SF3d  
*Enumerated \_domain\_value\_definition:* Disturbed Shrubby Spring Fen

*Enumerated \_domain\_value:* SF4  
*Enumerated \_domain\_value\_definition:* Forested Spring Fen

*Enumerated \_domain\_value:* SF42  
*Enumerated \_domain\_value\_definition:* Forested Spring Fen with sedge-dominated areas

*Enumerated \_domain\_value:* SF43  
*Enumerated \_domain\_value\_definition:* Forested Spring Fen with shrubby areas

**Discharge Slope Map Units (con't):**

*Enumerated \_domain\_value:* SG  
*Enumerated \_domain\_value\_definition:* White spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SGA  
*Enumerated \_domain\_value\_definition:* White spruce and alder-dominated Discharge Slope

*Enumerated \_domain\_value:* SGB  
*Enumerated \_domain\_value\_definition:* White spruce and birch-dominated Discharge Slope

*Enumerated \_domain\_value:* SGC  
*Enumerated \_domain\_value\_definition:* White spruce and bluejoint-dominated Discharge Slope

*Enumerated \_domain\_value:* SGM  
*Enumerated \_domain\_value\_definition:* White and black spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SGS  
*Enumerated \_domain\_value\_definition:* White spruce and willow-dominated Discharge Slope

*Enumerated \_domain\_value:* SL  
*Enumerated \_domain\_value\_definition:* Lutz spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SLd  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Lutz spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SLA  
*Enumerated \_domain\_value\_definition:* Lutz spruce and alder-dominated Discharge Slope

*Enumerated \_domain\_value:* SLC  
*Enumerated \_domain\_value\_definition:* Lutz spruce and bluejoint reedgrass-dominated Discharge Slope

*Enumerated \_domain\_value:* SLCd  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Lutz spruce and bluejoint reedgrass-dominated Discharge Slope

*Enumerated \_domain\_value:* SLM  
*Enumerated \_domain\_value\_definition:* Lutz and black spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SLMd  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Lutz and black spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SLS  
*Enumerated \_domain\_value\_definition:* Lutz spruce and willow-dominated Discharge Slope

*Enumerated \_domain\_value:* SLSd  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Lutz spruce and willow-dominated Discharge Slope

*Enumerated \_domain\_value:* SM  
*Enumerated \_domain\_value\_definition:* Black spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SMB  
*Enumerated \_domain\_value\_definition:* Black spruce and birch-dominated Discharge Slope

*Enumerated \_domain\_value:* SMBd  
*Enumerated \_domain\_value\_definition:* disturbed Black spruce and birch-dominated Discharge Slope

*Enumerated \_domain\_value:* SMC  
*Enumerated \_domain\_value\_definition:* Black spruce and Bluejoint reedgrass-dominated Discharge Slope

*Enumerated \_domain\_value:* SMd  
*Enumerated \_domain\_value\_definition:* Disturbed Black spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SMG  
*Enumerated \_domain\_value\_definition:* Black and white spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SML  
*Enumerated \_domain\_value\_definition:* Black and Lutz spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SMLd  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Black and Lutz spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SMS  
*Enumerated \_domain\_value\_definition:* Black and Lutz spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SS  
*Enumerated \_domain\_value\_definition:* Willow-dominated Discharge Slope

*Enumerated \_domain\_value:* SSA  
*Enumerated \_domain\_value\_definition:* Willow and alder-dominated Discharge Slope

*Enumerated \_domain\_value:* SSG  
*Enumerated \_domain\_value\_definition:* Willow and white spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SSL  
*Enumerated \_domain\_value\_definition:* Willow and Lutz spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SSM  
*Enumerated \_domain\_value\_definition:* Willow and black spruce-dominated Discharge Slope

*Enumerated \_domain\_value:* SZ  
*Enumerated \_domain\_value\_definition:* High elevation Discharge Slope

*Enumerated \_domain\_value:* Spring  
*Enumerated \_domain\_value\_definition:* Spring

**Tidal Map Units:**

*Enumerated \_domain\_value:* T0  
*Enumerated \_domain\_value\_definition:* Tidal mud

*Enumerated \_domain\_value:* T04  
*Enumerated \_domain\_value\_definition:* Tidal mud with areas of alkalaigrass

*Enumerated \_domain\_value:* T05  
*Enumerated \_domain\_value\_definition:* Tidal mud with areas of Ramensk sedge

*Enumerated \_domain\_value:* T07  
*Enumerated \_domain\_value\_definition:* Tidal mud with areas of beachrye

*Enumerated \_domain\_value:* T0-4  
*Enumerated \_domain\_value\_definition:* Tidal mud, salt panne, creeping alkaligrass, arrowgrass-goosetongue, and alkalaigrass

*Enumerated \_domain\_value:* T1  
*Enumerated \_domain\_value\_definition:* Salt panne

*Enumerated \_domain\_value:* T1c  
*Enumerated \_domain\_value\_definition:* Created Salt panne  
*Enumerated \_domain\_value:* T13  
*Enumerated \_domain\_value\_definition:* Salt panne, arrowgrass-goosetongue Tidal  
*Enumerated \_domain\_value:* T14  
*Enumerated \_domain\_value\_definition:* Salt panne, alkalaigrass Tidal  
*Enumerated \_domain\_value:* T17  
*Enumerated \_domain\_value\_definition:* Salt panne, beachrye Tidal  
*Enumerated \_domain\_value:* T1-4  
*Enumerated \_domain\_value\_definition:* Salt panne, creeping alkaligrass, arrowgrass-goosetongue, alkalaigrass Tidal  
*Enumerated \_domain\_value:* T2  
*Enumerated \_domain\_value\_definition:* Creeping alkaligrass Tidal  
*Enumerated \_domain\_value:* T23  
*Enumerated \_domain\_value\_definition:* Creeping alkaligrass, arrowgrass-goosetongue Tidal  
*Enumerated \_domain\_value:* T2-4  
*Enumerated \_domain\_value\_definition:* Creeping alkaligrass, arrowgrass-goosetongue, alkalaigrass Tidal  
*Enumerated \_domain\_value:* T3  
*Enumerated \_domain\_value\_definition:* Arrowgrass-goosetongue Tidal  
*Enumerated \_domain\_value:* T32  
*Enumerated \_domain\_value\_definition:* Arrowgrass-goosetongue, creeping alkaligrass Tidal  
*Enumerated \_domain\_value:* T34  
*Enumerated \_domain\_value\_definition:* Arrowgrass-goosetongue, alkalaigrass Tidal  
*Enumerated \_domain\_value:* T35  
*Enumerated \_domain\_value\_definition:* Arrowgrass-goosetongue, Ramensk sedge Tidal  
*Enumerated \_domain\_value:* T3-5  
*Enumerated \_domain\_value\_definition:* Arrowgrass-goosetongue, alkalaigrass, Ramensk sedge Tidal  
*Enumerated \_domain\_value:* T36  
*Enumerated \_domain\_value\_definition:* Goosetongue, Lyngbye's sedge Tidal  
*Enumerated \_domain\_value:* T37  
*Enumerated \_domain\_value\_definition:* Goosetongue, beachrye Tidal  
*Enumerated \_domain\_value:* T38  
*Enumerated \_domain\_value\_definition:* Arrowgrass-goosetongue, Pacific silverweed-speargrass Tidal  
*Enumerated \_domain\_value:* T4  
*Enumerated \_domain\_value\_definition:* Alkalaigrass Tidal  
*Enumerated \_domain\_value:* T4-6  
*Enumerated \_domain\_value\_definition:* Alkaligrass, Ramensk sedge, Lyngbye's sedge Tidal  
*Enumerated \_domain\_value:* T41  
*Enumerated \_domain\_value\_definition:* Alkalaigrass, salt panne Tidal  
*Enumerated \_domain\_value:* T42

*Enumerated \_domain\_value\_definition:* Alkalagrass, creeping alkalagrass Tidal  
*Enumerated \_domain\_value:* T43  
*Enumerated \_domain\_value\_definition:* Alkalagrass, arrowgrass-goosetongue Tidal  
*Enumerated \_domain\_value:* T45  
*Enumerated \_domain\_value\_definition:* Alkalagrass, Ramensk sedge Tidal  
*Enumerated \_domain\_value:* T46  
*Enumerated \_domain\_value\_definition:* Alkalagrass, Lyngbye's sedge Tidal  
*Enumerated \_domain\_value:* T5  
*Enumerated \_domain\_value\_definition:* Ramensk sedge Tidal  
*Enumerated \_domain\_value:* T51  
*Enumerated \_domain\_value\_definition:* Ramensk sedge, saltpanne Tidal  
*Enumerated \_domain\_value:* T53  
*Enumerated \_domain\_value\_definition:* Ramensk sedge, arrowgrass-goosetongue Tidal  
*Enumerated \_domain\_value:* T54  
*Enumerated \_domain\_value\_definition:* Ramensk sedge, alkalagrass  
*Enumerated \_domain\_value:* T56  
*Enumerated \_domain\_value\_definition:* Ramensk sedge, Lyngbye's sedge Tidal  
*Enumerated \_domain\_value:* T5-7  
*Enumerated \_domain\_value\_definition:* Ramensk sedge, Lyngbye's sedge, beachrye  
Tidal  
*Enumerated \_domain\_value:* T58  
*Enumerated \_domain\_value\_definition:* Ramensk sedge, Pacific silverweed-speargrass  
Tidal  
*Enumerated \_domain\_value:* T6  
*Enumerated \_domain\_value\_definition:* Lyngbye sedge Tidal  
*Enumerated \_domain\_value:* T6d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Lyngbye sedge Tidal  
*Enumerated \_domain\_value:* T6-8  
*Enumerated \_domain\_value\_definition:* Lyngbye sedge, Beachrye, Pacific silverweed  
Tidal  
*Enumerated \_domain\_value:* T64  
*Enumerated \_domain\_value\_definition:* Lyngbye sedge, alkalagrass Tidal  
*Enumerated \_domain\_value:* T65  
*Enumerated \_domain\_value\_definition:* Lyngbye sedge, Ramensk's sedge Tidal  
*Enumerated \_domain\_value:* T67  
*Enumerated \_domain\_value\_definition:* Lyngbye sedge, beachrye Tidal  
*Enumerated \_domain\_value:* T69  
*Enumerated \_domain\_value\_definition:* Lyngbye sedge Tidal with upper Tidal  
*Enumerated \_domain\_value:* T6A  
*Enumerated \_domain\_value\_definition:* Lyngbye sedge Tidal with alders  
*Enumerated \_domain\_value:* T6DW3  
*Enumerated \_domain\_value\_definition:* Lyngbye sedge Tidal with Shrubby Relict  
Glacial Drainageway (precursor to TDW32 in Knik Arm)  
*Enumerated \_domain\_value:* T7  
*Enumerated \_domain\_value\_definition:* Beachrye Tidal  
*Enumerated \_domain\_value:* T7c

*Enumerated \_domain\_value\_definition:* Created beachrye Tidal  
*Enumerated \_domain\_value:* T73  
*Enumerated \_domain\_value\_definition:* Beachrye, arrowgrass-goosetongue Tidal  
*Enumerated \_domain\_value:* T74  
*Enumerated \_domain\_value\_definition:* Beachrye, alkalaigrass Tidal  
*Enumerated \_domain\_value:* T74d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed beachrye, alkalaigrass Tidal  
*Enumerated \_domain\_value:* T75  
*Enumerated \_domain\_value\_definition:* Beachrye - Ramensk's sedge Tidal  
*Enumerated \_domain\_value:* T76  
*Enumerated \_domain\_value\_definition:* Beachrye, Lyngbye's sedge Tidal  
*Enumerated \_domain\_value:* T78  
*Enumerated \_domain\_value\_definition:* Beachrye, Pacific silverweed-speargrass Tidal  
*Enumerated \_domain\_value:* T78d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed beachrye, Pacific silverweed-speargrass Tidal  
*Enumerated \_domain\_value:* T8  
*Enumerated \_domain\_value\_definition:* Pacific silverweed-speargrass Tidal  
*Enumerated \_domain\_value:* T86  
*Enumerated \_domain\_value\_definition:* Pacific silverweed-speargrass, Lyngbye sedge Tidal  
*Enumerated \_domain\_value:* T8d  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Pacific silverweed Tidal  
*Enumerated \_domain\_value:* T9  
*Enumerated \_domain\_value\_definition:* Upper Tidal  
*Enumerated \_domain\_value:* T96  
*Enumerated \_domain\_value\_definition:* Upper Tidal with Lyngbye sedge  
*Enumerated \_domain\_value:* T98  
*Enumerated \_domain\_value\_definition:* Upper Tidal with Pacific silverweed-speargrass  
*Enumerated \_domain\_value:* T9K3  
*Enumerated \_domain\_value\_definition:* Upper Tidal with shrubby Kettle  
*Enumerated \_domain\_value:* T9LB3  
*Enumerated \_domain\_value\_definition:* Upper Tidal with Sphagnum-dominated Relict Glacial Lakebed  
*Enumerated \_domain\_value:* T9SA  
*Enumerated \_domain\_value\_definition:* Upper Tidal with Alder Discharge Slope  
*Enumerated \_domain\_value:* T9SC  
*Enumerated \_domain\_value\_definition:* Upper Tidal with bluejoint reedgrass Discharge Slope  
*Enumerated \_domain\_value:* Tcs  
*Enumerated \_domain\_value\_definition:* Tidal coastal strip: sand/gravel/cobbles  
*Enumerated \_domain\_value:* Tcsd  
*Enumerated \_domain\_value\_definition:* Significantly disturbed Tidal coastal strip  
*Enumerated \_domain\_value:* TL  
*Enumerated \_domain\_value\_definition:* Tidal Lagoon

*Enumerated \_domain\_value:* TR

*Enumerated \_domain\_value\_definition:* Tidal Gut

**Tidally-Influenced Drainageway Map Units:** (see above for DTW units, where freshwater influence dominates tidal)

*Enumerated \_domain\_value:* TDW1

*Enumerated \_domain\_value\_definition:* Tidal Drainageway pond

*Enumerated \_domain\_value:* TDW1-3

*Enumerated \_domain\_value\_definition:* Tidal Drainageway with pond, sedges, and shrubs

*Enumerated \_domain\_value:* TDW1-5A

*Enumerated \_domain\_value\_definition:* Tidal Drainageway with pond, sedges, shrubs, and forest

*Enumerated \_domain\_value:* TDW12

*Enumerated \_domain\_value\_definition:* Tidal Drainageway with pond and sedges

*Enumerated \_domain\_value:* TDW2

*Enumerated \_domain\_value\_definition:* Sedge-dominated Tidal Drainageway

*Enumerated \_domain\_value:* TDW2-5A

*Enumerated \_domain\_value\_definition:* Tidal Drainageway with sedges, shrubs, and forest

*Enumerated \_domain\_value:* TDW21

*Enumerated \_domain\_value\_definition:* Sedge-dominated Tidal Drainageway with areas of ponded water

*Enumerated \_domain\_value:* TDW23

*Enumerated \_domain\_value\_definition:* Sedge-dominated Tidal Drainageway with shrubby areas

*Enumerated \_domain\_value:* TDW3

*Enumerated \_domain\_value\_definition:* Shrubby Tidal Drainageway

*Enumerated \_domain\_value:* TDW32

*Enumerated \_domain\_value\_definition:* Shrubby Tidal Drainageway with sedge-dominated areas

*Enumerated \_domain\_value:* TDW35A

*Enumerated \_domain\_value\_definition:* Shrubby Tidal Drainageway with forested areas

*Enumerated \_domain\_value:* TDW3c

*Enumerated \_domain\_value\_definition:* Created Shrubby Tidal Drainageway

*Enumerated \_domain\_value:* TDW5A

*Enumerated \_domain\_value\_definition:* Forested Tidal Drainageway

*Enumerated \_domain\_value:* TDW5A3

*Enumerated \_domain\_value\_definition:* Forested Tidal Drainageway with shrubby areas

**Wetland / Upland complexes:**

*Enumerated \_domain\_value:* WU

*Enumerated \_domain\_value\_definition:* Wetland / Upland Complex

*Enumerated \_domain\_value:* WU40

*Enumerated \_domain\_value\_definition:* 40% Wetland / 60% Upland Complex

*Enumerated \_domain\_value:* WU50

*Enumerated \_domain\_value\_definition:* 50% Wetland / 50% Upland Complex

*Enumerated \_domain\_value:* WU60

*Enumerated\_domain\_value\_definition:* 60% Wetland / 40% Upland Complex

*Enumerated\_domain\_value:* WU70

*Enumerated\_domain\_value\_definition:* 70% Wetland / 30% Upland Complex

*Attribute\_Label:* legend

*Attribute\_Definition:* 1 = visited with photograph; 0 = not visited, or no photo. Used for \*.kmz legend definition

*Attribute:*

*Attribute\_Label:* Photo

*Attribute\_Definition:* Hyperlink to photo taken at wetland

*Attribute:*

*Attribute\_Label:* GeoComp

*Attribute\_Definition:*

Wetland geomorphic category, the highest level of the classification. There are 14 geomorphic categories defined in this classification

*Attribute\_Domain\_Values:*

*Enumerated\_Domain:*

*Enumerated\_Domain\_Value:* **Depression**

*Enumerated\_Domain\_Value\_Definition:* Wetland in an ice-block depression not discernably connected to navigable waterway

*Enumerated\_domain\_value:* **Drainageway**

*Enumerated\_domain\_value\_definition:* Wetland in a relict glacial drainageway feature

*Enumerated\_domain\_value:* **Drainageway / Tidal**

*Enumerated\_domain\_value\_definition:* Wetland along Knik arm at the upper reaches of the extreme high tides of the 18.6 year tidal cycle where freshwater influence appears greater than tidal

*Enumerated\_Domain\_Value:* **Floating Island**

*Enumerated\_Domain\_Value\_Definition:* Floating peat island on a lake

*Enumerated\_Domain\_Value:* **Headwater Fen**

*Enumerated\_Domain\_Value\_Definition:* Peatland at the headwaters of a low-order stream, at or near treeline

*Enumerated\_domain\_value:* **Kettle**

*Enumerated\_domain\_value\_definition:* Wetland in ice-block depression, discernably connected by other wetlands or surface water to a navigable waterbody

*Enumerated\_domain\_value:* **Lake**

*Enumerated\_domain\_value\_definition:* Open waterbody greater than 20 acres (and deeper than six feet)

*Enumerated\_domain\_value:* **Lakebed**

*Enumerated\_domain\_value\_definition:* Large peatland on relict glacial lake deposits

*Enumerated\_domain\_value:* **Late Snow Plateau**

*Enumerated\_domain\_value\_definition:* Higher elevation willow-dominated wetland in the Caribou Hills, underlain by relatively impervious till; wetness maintained by late-season snowpack

*Enumerated\_domain\_value:* **Riverine**

*Enumerated\_domain\_value\_definition:* Valley-bottom wetland adjacent to stream or river reach

*Enumerated\_domain\_value:* **VLD Trough**



*Enumerated\_domain\_value\_definition:* Peatland in the trough of the Very Large Dune features (Weidmer, et al. 2010, Quaternary Research 73:413-424) in the Meadow-Beaver Lakes area near Wasilla, Alaska.

*Enumerated\_domain\_value:* **Discharge Slope**

*Enumerated\_domain\_value\_definition:* Wetland over mineral soil on a slope, usually at a foot- or toeslope break where shallow groundwater discharges to near the surface

*Enumerated\_domain\_value:* **Spring Fen**

*Enumerated\_domain\_value\_definition:* Wetland in an ice-block depression maintained by a steady supply of shallow groundwater. Confined to the area between about Wasilla and Palmer in the Matanuska Valley where potential evapotranspiration exceeds precipitation.

*Enumerated\_domain\_value:* **Tidal / Drainageway**

*Enumerated\_domain\_value\_definition:* Wetland along Knik arm near the upper reaches of the extreme high tides of the 18.6 year tidal cycle where tidal influence appears greater than freshwater.

*Enumerated\_domain\_value:* **Wetland / Upland**

*Enumerated\_domain\_value\_definition:* Wetland area greater than 30% in an area where wetlands mixed with uplands on a scale too small to delineate separately (values in MatSu map unit names indicate percentages of wetland to the nearest 10, estimated from imagery). These map units can be composed of wetlands in any geomorphic category, but Discharge Slope and Depression wetlands are the most common.

*Enumerated\_domain\_value:* **Tidal**

*Enumerated\_domain\_value\_definition:* Wetland influenced by annual tidal cycle

*Attribute:*

*Attribute\_Label:* DescLink

*Attribute\_Definition:* URL for a description of the wetland type

*Attribute:*

*Attribute\_Label:* FAQ

*Attribute\_Definition:* [Link](#) to project Frequently Asked Questions page

*Overview\_Description:*

*Entity\_and\_Attribute\_Overview:*

Attributes include basic spatial information, such as area and perimeter, links to more information and photographs, and mapping unit designations.

*Entity\_and\_Attribute\_Detail\_Citation:* see: <http://cookinletwetlands.info/>

---

*Distribution\_Information:*

*Distributor:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Mike Gracz

*Contact\_Organization:* Kenai Watershed Forum

*Contact\_Position:* Wetland Program Manager

*Contact\_Address:*

*Address\_Type:* mailing address

*Address:* PO Box 15301

*City:* Fritz Creek

*State\_or\_Province:* AK  
*Postal\_Code:* 99603  
*Country:* USA  
*Contact\_Voice\_Telephone:* 907-235-3788  
*Contact\_Electronic\_Mail\_Address:* [mike@kenaiwatershed.org](mailto:mike@kenaiwatershed.org)  
*Hours\_of\_Service:* 9-5 Alaska Time  
*Contact\_Instructions:* email preferred  
*Resource\_Description:* Downloadable Data  
*Distribution\_Liability:* User assumes responsibility for interpretation  
*Standard\_Order\_Process:*  
*Digital\_Form:*  
*Digital\_Transfer\_Information:*  
*Format\_Name:* ARCG  
*Format\_Version\_Number:* 10,x  
*Transfer\_Size:* 26.936  
*Digital\_Transfer\_Option:*  
*Online\_Option:*  
*Computer\_Contact\_Information:*  
*Network\_Address:*  
*Network\_Resource\_Name:* <http://cookinletwetlands.info/Downloads/Downloads.html>  
*Online\_Computer\_and\_Operating\_System:* Windows  
*Ordering\_Instructions:* download from website: <http://cookinletwetlands.info/>  
*Custom\_Order\_Process:* Contact: [mike@kenaiwatershed.org](mailto:mike@kenaiwatershed.org)  
*Technical\_Prerequisites:* ArcView 10.x

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*Metadata\_Reference\_Information:*  
*Metadata\_Date:* 20100315  
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Keani Watershed Forum  
*Contact\_Person:* Mike Gracz  
*Contact\_Address:*  
*Address\_Type:*  
Mailing address: PO Box 15301  
City: Fritz Creek  
*State\_or\_Province:* AK  
*Postal\_Code:* 99603  
*Contact\_Voice\_Telephone:*  
907-235-2218  
*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial Metadata  
*Metadata\_Standard\_Version:* FGDC-STD-001-1998  
*Metadata\_Time\_Convention:* local time  
*Metadata\_Access\_Constraints:* None  
*Metadata\_Use\_Constraints:* User assumes responsibility for interpretation

*Metadata\_Extensions:*

*Online\_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>

*Profile\_Name:* ESRI Metadata Profile

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11:48