

This map was based primarily upon original photointerpretation of color infrared aerial photography and LANDSAT imagery. Published and unpublished geologic maps and reports were used as supplementary sources of information. Minimum mapping unit resolution is usually 40 acres; important features that could be located with accuracy on the topographic basemaps were mapped to a minimum of 10 acres.

Terrain units consist of landform types and their constituent geologic materials occurring from the ground surface to a depth of 25 feet. A single terrain unit consists of a single landform type; layered, mosaic, and complex terrain units consist of 2 or more landform types. The terrain unit classification is based on the hierarchical catalog of landform types developed for Alaska by Brown and Lau (1980) and Kreig and Reger (1976, 1980). Landform types are identified by letter codes; uppercase letters indicate the origin of the deposit while lower case letters indicate the specific landform type within a group. See the User's Guide to the Upper Level Area Resource Mapping Project for detailed descriptions of mapped units and documentation of mapping methods and sources.

UNCONSOLIDATED (SEDIMENTS) TERRAIN UNITS

- | | |
|-----|--|
| C | Colluvium (gravity) Deposits |
| Ca | Calvananche Deposits |
| Cg | Rock Glacier |
| Cl | Landslide Deposits |
| Ct | Talus Deposits |
| El | Loess (wind deposited silt) |
| Es | Sand Dune |
| Fd | Fluvial (stream) Delta Deposits |
| Fda | Abandoned Fluvial (stream) Delta Deposits |
| Ff | Alluvial (stream) Fan Deposits |
| Ffg | Granular Alluvial (stream) Fan Deposits |
| Ffs | Silt Alluvial (stream) Fan Deposits |
| Fm | Flood Volcano |
| Fp | Floodplain (stream) Deposits |
| Fpb | Braided Floodplain (stream) Deposits |
| Fpm | Meander Floodplain (stream) Deposits |
| Fpa | Abandoned Floodplain (stream) Deposits |
| Fs | Retransported (slopewash) Deposits |
| Ft | Fluvial (stream) Terrace Deposits |
| Fto | Old Fluvial (stream) Terrace Deposits |
| Gg | Glacier (ice) |
| GL | Glacial Lacustrine (glacial lake) Deposits |
| Gm | Glacial Moraine (hilly) Deposits |
| Gt | Glacial Till (nearly level) Deposits |
| Gtd | Glacial Drumlin Till Deposits |
| Gtf | Glacial Fluted Till Deposits |
| Gto | Older Glacial Till Deposits |
| Gty | Younger Glacial Till Deposits |
| Guf | Glacioclufuvial (meltwater) Deposits, Undifferentiated |
| GPe | Glacioclufuvial (meltwater) Esker Deposits |
| GFK | Glacioclufuvial (meltwater) Kame Deposits |
| GPl | Lowland Glacioclufuvial (meltwater) Deposits |
| Gfo | Glacioclufuvial (meltwater) Outwash Deposits |
| L | Lacustrine (lake) Deposits |
| Lb | Lacustrine (lake) Beach Deposits |
| Lt | Lacustrine Thaw Basin/Lake Deposits |
| Mb | Marine Beach Deposits |
| Mt | Marine Tidal (mud flat) Deposits |
| O | Organic Deposits |
| Wb | Water Body: Bay |
| Wf | Water Body: Fjord |
| Wg | Water Body: Lagoon |
| Wl | Water Body: Lake |
| Wt | Water Body: Strait |

CONSOLIDATED (BEDROCK) TERRAIN UNITS

- | | |
|-----|---|
| 10a | Extrusive Acidic Bedrock (lava flows) |
| 10b | Extrusive Basic Bedrock (lava flows) |
| 11 | Intrusive Igneous Bedrock |
| 12a | Intrusive Acidic Bedrock (granitic rocks) |
| 12b | Intrusive Basic Bedrock (gabbroic rocks) |
| 13 | Intrusive Ultrabasic Bedrock |
| 14 | Pyroclastic Deposits (ash, cinder) |

- | | |
|----|---------------------------------------|
| Nm | Marble |
| Np | Serpentine |
| Nq | Quartzite |
| Ns | Schist |
| S | Sedimentary Bedrock, Undifferentiated |
| Sc | Conglomerate |
| Sh | Shale, Siltstone |
| Sl | Limestone |
| St | Sandstone |

CONNECTIVES

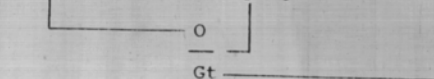
- Layered terrain unit; one landform type overlying another.

Mosaic terrain unit; dominant component listed first. A mosaic terrain unit is composed of 2 discrete components, each of which comprises greater than 25% of the area of the polygon and which are too small and intricately mixed to separate.

EXAMPLES

Layered terrain unit:

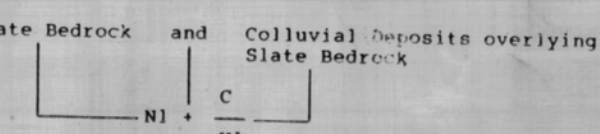
Organic Deposits overlying Glacial Till Deposits



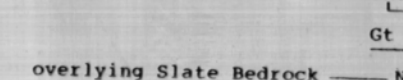
Mosaic terrain unit, dominant component listed first.

Floodplain Deposits and Fluvial Terrace Deposits

Complex terrain units:



A mosaic of Glacial Till and Colluvial Deposits



This document is intended only for general land management and planning purposes. There has been no field verification of the interpretation other than recourse to published and unpublished maps and reports. Projects which require site-specific data will require additional on-site investigation to verify terrain units, their characteristics, and their geotechnical properties.

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ENGINEERING GEOLOGY



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