**PHILIP SMITH MTS**

**GENERALIZED DESCRIPTION OF MAP UNIT IN THE PHILIP SMITH MOUNTAINS SQUARE AND, ALASKA**

**Important Note:** 1. This portion of the proposed trans-Alaska pipeline route is considered to be subject to a maximum probable earthquake with a Richter magnitude of 7.

2. Bedrock in the central part of the Brooks Range has been highly folded and faulted in numerous places. Many of these faults are thrust faults, the sides of the faults and the traces of the faults generally trend east-west. Seismic faulting during February has not been recognized.

3. Temperature of precipitation plus plus the base of seasonal vegetation is extremely variable.

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### Map Unit Description

**Location:** Active flood plain

- **Description:** Steep, rapidly drained and cold with minor amounts of sill, breccia clasts admixed to the surface. Local bedrock exposures consist of sandstone and sandstone with local bed and lenses of sand.

**Geology:**
- **Distribution and Topography:** Generally along the spillway and alluvial rivers in the vicinity of their junction and adjacent to the main channel of the Middle Phillip Smith Mountain Quadrangle. High in the basin of the Phillip Smith Mountain Quadrangle.

**Sedimentology:**
- **Surface:** High along alpine and alluvial rivers. High in the basin of the Phillip Smith Mountain Quadrangle.
- **Vegetation:** Generally present along alluvial rivers. High in the basin of the Phillip Smith Mountain Quadrangle.

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### References

- **Construction Data:**
  - **Surface and Course:** Generally available, especially if disturbed by construction.
  - **Vegetation:** Generally available, except for areas covered by ice.

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**APPENDIX:**

- **Bedrock:**
  - **Surface:** Generally available, except for areas covered by ice.
  - **Vegetation:** Generally available, except for areas covered by ice.

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**USGS Geology Map Scale:** 1:250,000

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**This map is preliminary and has not been reviewed by the U.S. Geological Survey Standards and Procedures Division.**