

INTRODUCTION

This map is derived electronically from the surficial-geologic map of the Alaska Highway corridor (this report) using Geographic Information System (GIS) software. Units were mapped by interpreting falsecolor infrared ~1:65,000-scale aerial photographs taken between July 1978 and July 1983, and locally verified by field checking in 2006-2010. The map shows the distribution of surficial-geologic and bedrock units grouped genetically with common properties that are typically significant for

engineering applications: ALLUVIAL DEPOSITS MANMADE DEPOSITS COLLUVIAL DEPOSITS LAKE DEPOSITS **EOLIAN DEPOSITS** PALUDAL PEAT DEPOSITS FLOOD DEPOSITS

GLACIAL DEPOSITS

BEDROCK AND RESIDUAL

The accompanying table lists generalized properties of these groups, including surface drainage, effects of seasonal freezing, the presence of perennially-frozen ground, and the consequences of thawing, stability of slopes, suitabilities and limitations of material for construction purposes, and potential constraints. Physical properties of map units are interpretive, based on extrapolation from verified localities and from previously published reports and data. Potential geologic hazards are inferred from the typical physical properties of map units, including sediment texture and ground-ice content, and their typical topographic settings. Except for a few test pits, no subsurface investigations or significant laboratory analyses were performed for this publication. The reader is cautioned that this map is intended only as a general guide, and that unevaluated geologic resources and hazards may be present.

MAP SYMBOLS

NOTE: Map symbols below might not all appear on this sheet

PHOTOINTERPRETED BOUNDARY—All boundaries are inferred or approximately lo-WATER

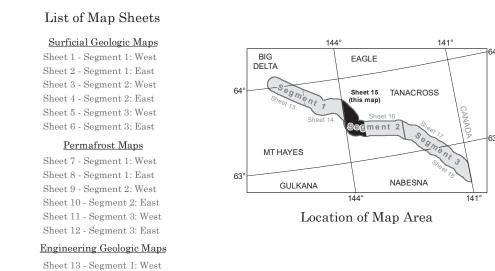
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Sheet 14 - Segment 1: East

Sheet 16 - Segment 2: East

Sheet 17 - Segment 3: West Sheet 18 - Segment 3: East

Sheet 15 - Segment 2: West (this map)

Geologic field investigations by: R.D. Reger¹ (2006-2012), D.S.P. Stevens² (2006-2008), D.N. Solie³ (2006-2008), T.D. Hubbard² (2008-2012) Geologic interpretation by: R.D. Reger¹ (2006-2014), T.D. Hubbard² (2008-2014)

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R.A. Combellick⁴ (2016)

ENGINEERING-GEOLOGIC MAP, ALASKA HIGHWAY CORRIDOR, DELTA JUNCTION, ALASKA, TO THE CANADA BORDER: SEGMENT 2 WEST

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Topographic base map from:

Tanacross B-6 (1949)

North American Datum of 1927

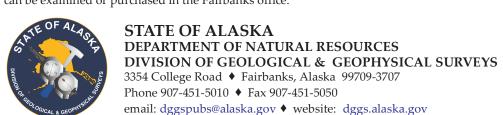
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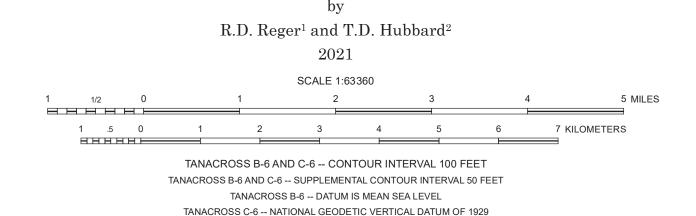
U.S. Geological Survey topographic maps

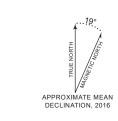
Tanacross C-6 (1955 - minor revisions 1982)

Universal Transverse Mercator Zone 7 North

ALASKA DIVISION OF GEOLOGICAL &









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