

STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS

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GEOCHEMICAL ANALYSIS OF STREAM-SEDIMENT  
SAMPLES FROM THE SURVEY PASS C-6 QUADRANGLE,  
ALASKA

by  
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Area of report

ARCTIC OCEAN

PACIFIC OCEAN

GULF OF ALASKA

BERING SEA

17°N

17°N

17°N

## INTRODUCTION

In 1971, stream-sediment samples were collected in the Survey Pass C-6 quadrangle, Alaska, for geochemical analysis. Samples were collected by W.S. Roberts, J.T. Larson, and J.M. Zdepski. Atomic absorption and emission spectrographic analyses were performed by T.C. Tribble, Minerals Analysis and Research Laboratory.

Stream-sediment samples were taken to include the finer fractions of sand and silt in the active parts of the streams and small tributaries. Every effort was made to take samples from areas where the results would not be obscured by the presence of large amounts of glacial derived material, which is common throughout much of the area. Organic material was excluded where possible.

## KEY TO DATA SHEETS

1. The samples have been arranged into three classifications: stream-sediment, rock and soil samples.

2. Semiquantitative emission spectrographic values are reported in parts per million (ppm) except values for iron (Fe), magnesium (Mg), and calcium (Ca) which are reported in percent (%). Titanium (Ti) is reported in parts per million except that values in excess of 10,000 ppm are reported in percent.

The data is reported as geometric mid-points (1.0, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, .....etc.) of geometric intervals having limits (1.2, 0.83, 0.56, 0.38, 0.26, 0.18, 0.12, .....etc.). For example, a reported value of 1.0 is between the limits 0.83 and 1.2.

Under the columns Atomic Absorption Spectrophotometry and Semiquantitative Emission Spectrography, NA means not analyzed, and L means not detected at the specified limit of detection.

Backgrounds and thresholds are computed using standard techniques as discussed in Lepeltier, Claude, 1969, A simplified treatment of geochemical data by graphical representation: Econ. Geol., v. 64, no. 5, p. 538-550.

3. Abbreviations of rock types in sample vicinity, including bedrock and float:

CALC - calcareous  
MARB - marble  
SCH - schist  
SH - shale  
SLST - siltstone  
VQTZ - vein quartz