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 B-3 QUAD-
RANGLE, ALASKA
by
R.E. Garland, G.R. Eakins, and T.C. Trible

Area of report

INTRODUCTION

During 1971, stream-sediment samples were collected in the Survey
Pass B-3 quadrangle, Alaska, for geochemical analysis. The samples were
collected by R.E. Garland and J.M. Zdepski. Atomic absorption and emission
spectrographic analyses were performed by T.C. Trible, Minerals Analysis
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:

GNSC - greenschist
GR   - granite
MARB - marble
SCH   - schist
VQTZ - vein quartz