UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Semiquantitative emission spectrographic analyses of stream-sediment samples collected in the Livengood and western one-third of the Circle 1° x 3° quadrangles, Alaska

By

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Open-File Report 87-264

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

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1987

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STUDIES RELATED TO BLM

Bureau of Land Management Recreation Areas

The Federal Land Policy and Management Act (Public Law 94-579, October 21, 1976) requires the U.S. Geological Survey to assess certain areas to determine their mineral resource potential, if any. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a geochemical survey of the Livengood and western 1/3 of the Circle quadrangles, Alaska.

INTRODUCTION

From 1974-1979, the U.S. Atomic Energy Commission (subsequently the Energy Resource Development Administration and the Department of Energy) funded the "Hydrogeochemical and Stream Sediment Reconnaissance" project as part of the National Uranium Resource Evaluation (NURE) program to assess uranium resources in the United States (Weaver and others, 1983). In anticipation of mineral resource studies of the Livengood 1° x 3° quadrangle and the White Mountains National Recreation Area in the Livengood and Circle quadrangles, the U.S. Geological Survey reanalyzed the samples collected in the Livengood and western 1/3 of the Circle 1° x 3° quadrangles, a total area of about 7,800 mi^2 (20,200 km^2). The purpose of reanalyzing the NURE samples was to establish a consistent analytical base for integrating the results of more recent sampling, and thereby provide a greater sampling density than would otherwise be available.

The Livengood 1° x 3° quadrangle is in the east-central part of Alaska from 65° to 66° north latitude, and from 147° to 150° west longitude. The Circle quadrangle lies due east of the Livengood quadrangle, and the western 1/3 of the quadrangle (146°-147°) is included in this report. The Elliot and Dalton Highways traverse the Livengood quadrangle from southeast to northwest. The Steese Highway crosses the southeastern Livengood quadrangle and continues northeasterly across the Circle quadrangle (fig. 1).

The area comprises a northeasterly trending sequence of Precambrian, Paleozoic, and Mesozoic sedimentary and metasedimentary rocks in the northwestern part of the Yukon-Tanana Upland. These rocks consist mostly of Cambrian and Ordovician quartzite, argillite, slate, and minor limestone; Ordovician, Silurian, and Devonian limestone, dolostone and chert; Jurassic-Cretaceous conglomerate, graywacke, and quartzite (Chapman and others, 1971). Cretaceous-Tertiary age granitic to granodioritic intrusions and some syenite form topographic highs at Cache Mountain and Victoria Mountain (Weber and others, 1985). Quaternary loess blankets much of the southern 1/3 of the area, and alluvial deposits fill the major drainage courses. Outcrops are scarce throughout most of the area, except where relief is high. The study area lies within a structurally deformed block between the Tintina fault system to the north and the Denali fault system to the south. The Paleozoic and Mesozoic rocks of the area generally strike northeast and dip northwest or are overturned and dipping steeply southwest (Weber, written commun., 1986).

The topographic relief in the area of this report is about 5,000 ft (1525 m), with a maximum elevation of 5,286 ft (1611 m) at Mt. Prindle. The White Mountains form a topographic high on the east and are drained by Beaver Creek on the south, west, and north. The remainder of the Livengood quadrangle lies within the drainages of the Yukon and Tolovana Rivers, separated by the Sawtooth Mountains on the west side of the Livengood quadrangle. The climate of the area is arid to semiarid. The high-latitude tundra prohibits ground-water seepage and enhances surface runoff.

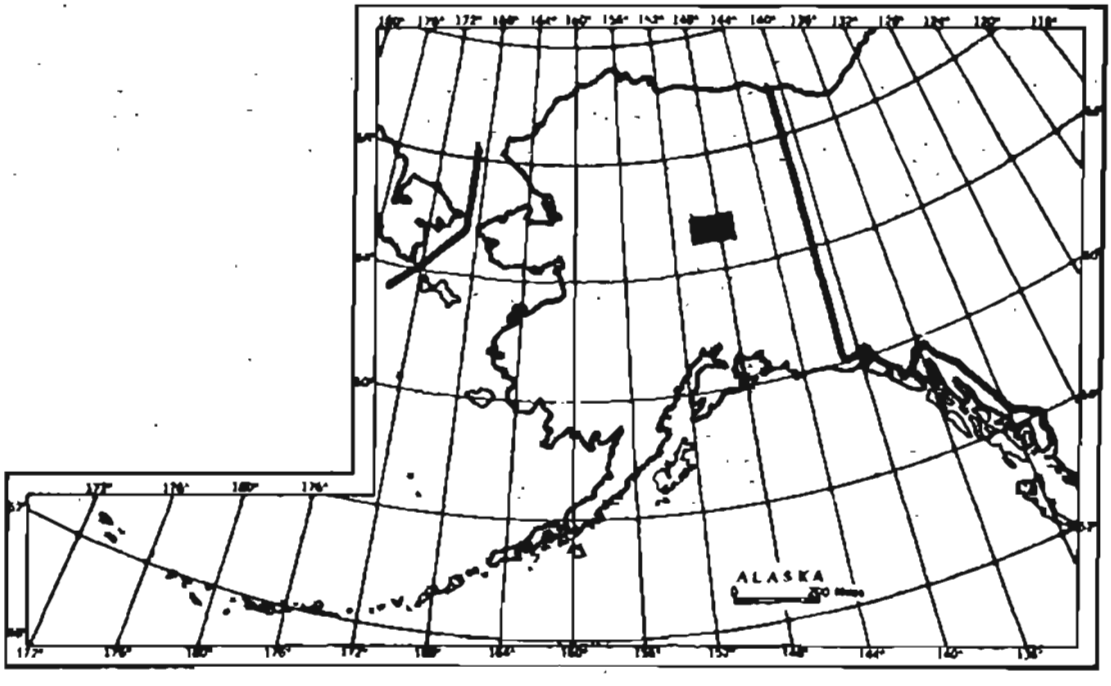

Figure 1. Index map showing the location of the Livengood and western one-third of the Circle quadrangles, Alaska (shaded).

METHODS OF STUDY

Sample Media

Analyses of the stream-sediment samples represent the chemistry of the rock material eroded from the drainage basin upstream from each sample site. Such information is useful in identifying those basins which contain concentrations of elements that may be related to mineral deposits.

Sample Collection and Analysis

Samples from 1,010 sites were reanalyzed for this report (plate 1). These samples represent fine-grained sediment collected from the active portion of small-order stream drainages. The average sample density for this group of samples is one sample per 7.7 mi^2 (19.9 km^2). Of the original NURE sample set, 5 samples did not have sufficient material remaining for analysis and are not included here.

The minus-100-mesh (0.15-mm) fraction of the stream-sediment samples that remained after analysis by Los Alamos Scientific Laboratory was retained in archival storage. The archived portion of these samples was analyzed for 31 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their lower limits of determination are listed in table 1. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Analytical data for samples from the Livengood and western 1/3 of the Circle quadrangles are listed in table 2.

ROCK ANALYSIS STORAGE SYSTEM

Upon completion of all analytical work, the analytical results were entered into a computer-based file called Rock Analysis Storage System (RASS). This data base contains both descriptive geological information and analytical data. Any or all of this information may be retrieved and converted to a binary form (STATPAC) for computerized statistical analysis or publication (VanTrump and Miesch, 1977).

DESCRIPTION OF DATA TABLES

Table 2 lists the results of analyses for the samples of stream sediment. The data are arranged so that column 1 contains the NURE-assigned sample numbers. These numbers correspond to the numbers shown on the site location map (plate 1). Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic analyses. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination shown for that element in table 1. If an element was observed but was below the lowest reporting value, a "less than" symbol (<) was entered in the tables in front of the lower limit

of determination. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the tables in front of the upper limit of determination. Because of the formatting used in the computer program that produced table 2, some of the elements listed in these tables (Fe, Mg, Ca, Ti, Ag, and Be) carry one or more nonsignificant zeros to the right of the significant digits. The analysts did not determine these elements to the accuracy suggested by the extra zeros.

The spectrographic determinations for Au, Cd, and Sb were all below the lower limits of determinations shown in table 1; consequently, the columns for these elements have been deleted from table 2.

REFERENCES CITED

Chapman, R. M., Weber, F. R., and Taber, Bond, 1971, Preliminary geologic map of the Livengood quadrangle, Alaska: U.S. Geological Survey Open-File Report 71-66, 2 sheets, scale 1:250,000.

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TABLE 1.--Limits of determination for the spectrographic analysis of rocks and stream sediments, based on a 10-mg sample

Elements	Lower determination limit	Upper determination limit
	Percent	
Iron (Fe)	0.05	20
Magnesium (Mg)	.02	10
Calcium (Ca)	.05	20
Titanium (Ti)	.002	1
	Parts per million	
Manganese (Mn)	10	5,000
Silver (Ag)	0.5	5,000
Arsenic (As)	200	10,000
Gold (Au)	10	500
Boron (B)	10	2,000
Barium (Ba)	20	5,000
Beryllium (Be)	1	1,000
Bismuth (Bi)	10	1,000
Cadmium (Cd)	20	500
Cobalt (Co)	5	2,000
Chromium (Cr)	10	5,000
Copper (Cu)	5	20,000
Lanthanum (La)	20	1,000
Molybdenum (Mo)	5	2,000
Niobium (Nb)	20	2,000
Nickel (Ni)	5	5,000
Lead (Pb)	10	20,000
Antimony (Sb)	100	10,000
Scandium (Sc)	5	100
Tin (Sn)	10	1,000
Strontium (Sr)	100	5,000
Vanadium (V)	10	10,000
Tungsten (W)	50	10,000
Yttrium (Y)	10	2,000
Zinc (Zn)	200	10,000
Zirconium (Zr)	10	1,000
Thorium (Th)	100	2,000

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA

[t detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 32 52	148 26 17	5.00	1.00	3.0	1.000	500	N	N
65 32 52	148 10 6	7.00	1.50	3.0	1.000	700	N	N
65 32 53	148 5 12	7.00	2.00	5.0	1.000	1,000	N	N
65 26 39	147 14 16	5.00	2.00	3.0	.700	1,500	N	N
65 26 45	147 12 2	7.00	1.50	3.0	.700	700	N	N
65 26 39	147 6 10	7.00	1.50	3.0	1.000	500	N	N
65 23 30	147 5 15	5.00	1.50	3.0	.700	300	N	N
65 21 32	147 5 3	7.00	1.50	3.0	1.000	700	N	N
65 18 24	147 3 36	5.00	1.50	2.0	1.000	500	N	N
65 17 17	147 6 10	7.00	1.50	3.0	1.000	700	N	N
65 14 58	147 2 44	10.00	1.50	1.5	1.000	1,000	N	N
65 11 44	147 3 12	7.00	1.50	2.0	1.000	1,000	N	N
65 11 8	147 2 48	7.00	1.50	1.5	1.000	700	N	N
65 11 32	147 54 15	7.00	1.50	2.0	1.000	500	N	N
65 16 0	147 55 18	5.00	1.50	2.0	1.000	500	N	N
65 19 24	147 51 42	7.00	1.50	2.0	1.000	1,000	N	N
65 29 43	147 55 59	5.00	1.50	2.0	1.000	500	N	N
65 29 34	147 50 13	10.00	2.00	2.0	1.000	3,000	N	N
65 30 17	147 49 18	7.00	2.00	3.0	1.000	1,500	N	N
65 30 11	147 25 2	5.00	1.50	2.0	1.000	500	N	N
65 29 34	147 24 18	7.00	1.50	2.0	1.000	700	N	N
65 28 59	147 14 39	5.00	1.50	2.0	.700	500	N	N
65 28 46	147 8 49	7.00	1.50	2.0	.700	500	N	N
65 29 12	147 3 2	7.00	1.50	3.0	.700	700	N	N
65 31 46	147 1 5	7.00	2.00	3.0	1.000	1,000	N	N
65 32 14	147 4 10	5.00	2.00	3.0	.700	700	N	N
65 32 14	147 5 35	5.00	1.50	2.0	.700	500	N	N
65 32 30	147 12 18	7.00	2.00	5.0	1.000	1,000	N	N
65 32 22	147 15 0	7.00	2.00	5.0	1.000	1,500	N	N
65 31 54	147 28 40	7.00	1.50	2.0	.700	1,000	.5	N
65 31 59	147 36 56	3.00	1.00	1.5	.700	500	N	N
65 32 7	147 56 9	3.00	1.50	2.0	1.000	300	N	N
65 31 27	147 59 49	5.00	1.50	1.0	.700	300	N	N
65 30 1	148 30 2	7.00	2.00	2.0	1.000	1,000	N	N
65 28 35	148 20 35	7.00	1.50	2.0	1.000	1,500	N	N
65 29 8	148 15 47	5.00	1.50	2.0	.700	500	N	N
65 28 28	148 13 55	5.00	1.50	1.5	.700	300	<.5	N
65 29 52	148 9 3	7.00	1.50	1.0	1.000	700	N	N
65 23 35	147 55 37	7.00	2.00	3.0	1.000	700	N	N
65 23 36	147 31 49	7.00	1.50	2.0	1.000	700	N	N
65 24 35	148 8 39	5.00	1.50	5.0	.700	1,000	5.0	N
65 24 35	148 10 36	10.00	5.00	7.0	>1.000	1,500	N	N
65 29 34	148 28 11	7.00	1.50	3.0	.700	1,000	N	N
65 1 5	147 29 17	5.00	1.50	3.0	.700	500	.7	N
65 0 54	147 28 8	5.00	1.50	1.5	.700	1,000	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
70	1,000	<1.0	N	15	200	30	30	N	<20
70	2,000	<1.0	N	15	200	30	50	N	<20
50	1,500	<1.0	N	20	150	30	20	N	N
50	1,500	1.0	N	15	1,000	30	30	N	N
70	1,500	<1.0	N	15	200	50	30	N	N
70	1,500	<1.0	N	20	300	50	30	N	<20
50	1,500	<1.0	N	15	150	30	50	N	<20
70	2,000	<1.0	N	15	300	50	50	N	<20
70	1,500	1.5	N	10	200	20	70	N	<20
70	2,000	<1.0	N	15	200	20	50	N	<20
100	2,000	1.5	N	15	200	20	70	N	N
70	2,000	<1.0	N	15	200	15	70	N	<20
100	1,000	1.0	N	15	200	30	70	N	<20
70	1,500	<1.0	N	15	200	20	50	N	<20
50	200	<1.0	N	10	200	15	50	N	<20
100	2,000	1.0	N	15	200	20	70	N	<20
100	700	<1.0	N	15	300	20	50	N	<20
100	1,500	<1.0	N	20	200	30	30	N	<20
100	1,500	1.0	N	20	200	20	50	N	<20
50	1,000	<1.0	N	15	200	15	50	N	N
100	1,500	1.0	N	20	200	30	50	N	<20
70	1,500	1.0	N	15	150	20	50	N	N
50	1,500	<1.0	N	15	200	20	30	N	N
70	2,000	1.0	N	15	200	30	30	N	N
100	1,500	<1.0	N	15	300	30	50	N	<20
70	2,000	1.0	N	15	200	20	50	N	<20
50	1,000	<1.0	N	10	200	20	50	N	N
70	2,000	1.0	N	20	300	30	50	N	N
50	1,500	1.0	N	20	200	20	50	N	N
100	1,500	2.0	N	20	200	30	50	N	<20
70	700	2.0	N	15	100	15	50	N	N
70	1,000	3.0	N	10	100	15	70	N	<20
50	700	2.0	N	10	150	15	70	<5	<20
70	1,500	1.0	N	20	200	20	70	N	<20
70	1,500	1.0	<10	20	150	30	100	N	<20
70	1,500	1.0	N	15	200	20	50	N	<20
50	1,000	1.0	N	15	150	20	70	N	<20
70	1,500	<1.0	N	20	300	20	70	<5	<20
70	2,000	<1.0	N	20	200	20	50	N	<20
100	2,000	1.0	N	15	200	20	50	N	<20
20	2,000	<1.0	N	15	100	20	30	N	N
20	3,000	<1.0	N	20	500	30	50	N	<20
50	1,500	1.0	N	15	200	20	50	N	<20
50	1,500	<1.0	N	10	200	30	30	N	N
70	1,500	<1.0	N	15	150	20	50	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
50	15	10	N	200	200	N	30	N	300	N
30	20	20	N	300	150	N	50	N	500	N
30	20	30	N	500	150	N	50	N	300	N
70	15	20	N	200	150	N	30	<200	300	N
30	30	20	N	300	150	N	30	N	200	N
50	30	20	N	300	150	N	30	N	300	N
30	30	15	N	200	150	N	30	N	300	N
30	30	20	N	300	200	N	30	N	300	N
20	50	20	<10	200	100	N	70	N	500	N
20	20	20	<10	300	150	N	50	N	500	N
30	30	20	10	150	150	N	50	N	500	N
30	30	20	N	300	150	N	50	N	700	N
30	30	20	N	150	100	N	50	N	300	N
30	20	20	N	200	100	N	50	N	500	N
30	20	20	N	300	150	N	30	N	300	N
30	30	20	N	200	100	N	50	N	300	N
30	20	20	N	150	100	N	50	N	300	N
50	30	20	N	200	150	N	50	N	500	N
50	30	20	N	200	150	N	50	N	500	N
30	20	15	N	200	100	N	30	N	200	N
30	30	20	N	200	200	N	50	N	300	N
30	20	15	N	200	150	N	30	N	500	N
30	30	20	N	150	200	N	30	N	200	N
30	20	20	N	200	200	N	30	N	500	N
50	30	20	N	300	200	N	50	N	500	N
30	20	20	N	300	200	N	30	N	300	N
30	20	15	N	200	150	N	30	N	500	N
30	20	20	N	300	150	N	50	N	500	N
30	20	20	N	300	150	N	30	N	500	N
50	50	20	<10	200	150	N	50	200	300	N
20	20	15	15	150	100	N	50	N	200	N
20	30	15	10	150	150	N	50	<200	300	N
20	50	15	15	100	150	N	50	N	300	N
30	50	20	10	200	200	N	70	N	500	N
30	50	20	70	200	150	N	70	N	700	N
30	20	20	N	300	200	N	30	N	300	N
30	30	20	N	200	150	N	30	N	200	N
30	30	20	N	150	150	N	30	N	300	N
30	20	20	N	300	150	N	50	N	300	N
30	20	15	N	200	150	N	50	N	500	N
50	10	10	N	200	150	N	20	<200	150	N
50	10	30	N	700	300	N	50	N	150	N
30	20	15	N	300	150	N	30	N	300	N
30	15	15	N	300	150	N	30	<200	300	N
30	15	15	N	200	150	N	30	N	300	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 0 39	147 12 45	5.00	2.00	5.0	1.000	1,000	N	N
65 1 6	147 16 1	10.00	1.50	.7	1.000	1,000	<.5	200
65 3 18	147 30 35	10.00	2.00	1.5	.700	1,500	N	N
65 4 14	147 24 53	5.00	2.00	3.0	1.000	700	N	N
65 5 57	147 24 37	7.00	2.00	5.0	1.000	1,500	N	N
65 6 25	147 28 54	10.00	3.00	5.0	1.000	2,000	N	N
65 8 17	147 28 50	7.00	2.00	3.0	1.000	500	N	N
65 0 24	147 38 51	7.00	1.50	3.0	1.000	700	N	N
65 2 11	147 35 38	7.00	1.50	3.0	1.000	700	N	N
65 3 56	147 39 55	5.00	1.50	5.0	1.000	700	N	N
65 7 0	147 46 23	5.00	1.50	2.0	.700	500	N	N
65 9 37	147 57 11	5.00	2.00	2.0	1.000	500	N	N
65 11 21	147 58 29	1.50	.20	.3	.150	200	<.5	N
65 11 54	148 4 20	2.00	1.50	.7	.300	200	N	N
65 14 45	148 8 31	5.00	1.50	.7	.700	300	N	N
65 14 52	148 7 41	7.00	2.00	2.0	1.000	700	N	N
65 16 4	148 6 33	2.00	1.00	.7	.500	300	N	N
65 20 39	148 17 45	10.00	2.00	2.0	1.000	700	N	N
65 22 22	148 16 15	5.00	1.00	2.0	.300	200	N	N
65 24 42	148 14 27	7.00	2.00	3.0	1.000	700	N	N
65 1 0	147 37 31	2.00	1.00	2.0	.300	1,500	N	N
65 2 56	147 39 32	15.00	3.00	1.5	1.000	2,000	N	N
65 4 54	147 42 43	7.00	1.50	3.0	1.000	1,000	10.0	N
65 6 9	147 44 43	7.00	2.00	1.5	1.000	1,000	N	N
65 7 56	147 50 48	10.00	2.00	5.0	>1.000	1,500	.5	N
65 9 6	147 51 23	5.00	1.50	2.0	.700	700	N	N
65 11 12	147 59 49	10.00	2.00	3.0	1.000	2,000	N	N
65 11 4	148 2 44	7.00	1.50	3.0	1.000	1,000	.7	<200
65 11 12	148 4 54	20.00	1.50	3.0	.500	5,000	N	3,000
65 33 18	148 19 32	10.00	2.00	5.0	1.000	2,000	N	N
65 29 12	148 0 14	7.00	1.50	2.0	1.000	700	N	N
65 27 14	147 45 56	5.00	1.50	3.0	1.000	1,000	N	N
65 27 11	147 39 48	5.00	2.00	5.0	1.000	700	N	N
65 27 45	147 34 8	5.00	2.00	3.0	1.000	700	N	N
65 26 29	147 27 12	5.00	2.00	5.0	1.000	700	N	N
65 9 38	147 54 38	5.00	2.00	3.0	1.000	1,000	N	N
65 14 48	147 52 41	7.00	1.50	2.0	1.000	1,000	N	N
65 21 6	147 51 15	7.00	2.00	5.0	1.000	1,000	N	N
65 29 48	147 53 27	7.00	1.50	3.0	1.000	1,000	N	N
65 29 44	147 40 5	10.00	2.00	3.0	1.000	1,500	N	N
65 32 22	147 43 40	7.00	1.50	2.0	1.000	1,000	N	N
65 31 58	147 49 19	7.00	1.50	5.0	1.000	1,500	N	N
65 26 52	148 13 32	10.00	2.00	1.5	1.000	1,500	N	N
65 26 58	148 2 17	10.00	2.00	2.0	1.000	2,000	N	N
65 22 45	147 54 5	7.00	1.50	2.0	1.000	1,000	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
50	1,500	<1.0	N	15	200	20	30	N	<20
100	1,500	1.0	N	20	300	30	50	7	20
100	1,500	<1.0	N	20	300	50	70	N	N
50	1,000	N	N	15	500	20	50	N	N
70	2,000	<1.0	N	20	200	20	50	N	<20
50	1,500	N	N	15	200	20	N	N	<20
70	1,500	<1.0	N	20	200	30	50	N	<20
70	1,500	<1.0	N	15	200	20	50	N	<20
50	1,000	<1.0	N	15	200	15	30	N	N
70	1,500	<1.0	N	15	200	15	50	N	<20
70	1,000	<1.0	N	15	200	20	30	N	N
50	1,000	<1.0	N	15	200	20	50	N	<20
<10	500	1.5	N	N	10	20	N	N	N
50	500	1.0	N	N	100	10	N	N	N
50	700	<1.0	N	15	150	20	30	N	N
70	1,500	1.0	N	20	200	70	30	N	<20
30	700	1.0	N	N	30	10	N	N	N
100	1,500	<1.0	N	15	200	30	30	N	<20
10	700	1.0	N	10	20	10	N	N	N
50	1,000	<1.0	N	15	200	30	20	N	N
10	700	1.0	N	10	30	15	N	N	N
100	1,500	1.5	N	30	300	50	50	5	<20
100	1,500	<1.0	N	15	100	15	30	7	<20
100	1,000	1.0	N	15	150	20	50	N	<20
100	1,000	<1.0	N	20	200	20	50	N	<20
70	700	N	N	15	200	15	30	N	N
70	1,000	1.0	N	20	200	50	50	N	<20
70	700	1.0	N	15	150	15	50	N	<20
20	1,000	<1.0	N	20	50	50	20	N	N
100	2,000	<1.0	N	20	200	50	50	N	20
50	700	<1.0	N	15	200	30	30	N	N
70	1,000	<1.0	N	15	200	15	50	N	N
50	1,000	<1.0	N	15	200	20	50	N	<20
50	1,500	<1.0	N	15	200	20	50	N	<20
70	1,000	1.0	N	15	200	20	30	N	<20
70	1,000	1.0	N	15	200	20	50	N	<20
100	1,000	1.0	N	15	200	30	50	N	<20
70	1,000	<1.0	N	10	200	20	50	N	N
50	1,500	<1.0	N	15	200	15	50	N	<20
70	2,000	1.0	N	15	200	20	50	N	<20
70	1,500	1.0	N	15	150	20	50	N	<20
70	1,000	N	N	15	200	20	50	N	<20
100	1,000	<1.0	N	15	200	50	30	<5	N
70	1,000	<1.0	N	15	200	30	30	N	N
100	1,000	1.0	N	10	200	20	50	<5	<20

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENBOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
50	20	20	N	300	150	N	30	N	300	N
70	30	20	N	200	300	N	50	<200	500	N
50	20	20	N	100	200	N	30	N	150	N
30	15	15	N	300	150	N	30	N	500	N
30	20	20	N	500	200	N	50	N	300	N
20	15	20	N	N	300	N	30	N	500	N
50	20	20	N	300	150	N	30	N	200	N
30	20	20	N	300	200	N	30	N	200	N
20	20	15	N	200	100	N	30	N	500	N
30	15	20	N	300	150	N	30	N	300	N
30	20	15	N	200	150	N	30	N	200	N
30	20	20	N	200	150	N	30	N	200	N
15	<10	7	N	N	50	N	20	N	70	N
20	20	10	N	100	100	N	20	N	100	N
30	20	15	N	150	150	N	20	N	150	N
50	30	20	N	200	200	N	30	N	200	N
20	10	10	N	150	100	N	15	N	150	N
30	20	30	N	200	200	N	50	N	200	N
10	10	7	N	150	100	N	15	N	100	N
30	20	20	N	200	150	N	20	N	200	N
30	<10	7	N	100	100	N	15	N	150	N
100	300	30	N	150	300	N	50	N	300	N
20	30	20	N	300	150	N	30	N	700	N
20	30	15	N	150	100	N	30	N	700	N
30	20	30	N	300	150	N	50	N	500	N
20	20	15	N	200	100	N	20	N	500	N
30	30	20	N	200	200	N	50	N	300	N
20	100	15	N	150	150	N	30	200	500	N
30	50	<5	N	300	100	N	30	N	200	N
50	20	20	N	300	200	N	50	N	500	N
30	15	20	N	150	150	N	20	N	300	N
30	20	20	N	300	150	N	30	N	700	N
30	20	20	N	300	150	N	30	N	500	N
30	20	20	N	300	150	N	30	N	500	N
30	20	20	N	300	150	N	30	N	700	N
30	20	20	N	300	150	N	50	N	700	N
30	30	20	N	200	150	N	30	N	500	N
30	20	20	N	200	200	N	50	N	500	N
30	20	20	N	200	150	N	30	N	700	N
30	20	20	N	300	150	N	50	N	500	N
50	20	15	N	200	150	N	30	N	700	N
30	20	20	N	300	200	N	30	N	300	N
50	20	20	N	150	200	N	30	N	200	N
50	15	30	N	150	300	N	30	N	300	N
20	30	20	N	200	100	N	50	N	700	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 24 15	147 50 30	10.00	2.00	5.0	1.000	1,500	N	N
65 23 32	147 44 22	7.00	2.00	5.0	>1.000	1,500	N	N
65 23 35	147 24 37	10.00	2.00	1.5	1.000	1,000	N	N
65 22 40	147 25 4	7.00	2.00	2.0	1.000	1,000	N	N
65 22 51	147 34 32	3.00	1.00	.5	1.000	500	N	N
65 22 37	147 42 52	1.50	.50	.3	.500	500	N	N
65 25 18	148 16 36	2.00	.50	.3	.500	500	N	N
65 27 47	148 20 6	10.00	.70	.1	.700	2,000	N	N
65 12 42	148 5 56	5.00	1.50	2.0	1.000	1,000	N	N
65 13 29	148 7 47	7.00	2.00	3.0	1.000	1,000	N	N
65 16 36	148 7 1	5.00	2.00	3.0	1.000	1,000	N	N
65 17 12	148 8 17	2.00	1.50	.7	.500	700	N	N
65 23 17	148 14 58	5.00	2.00	.7	.700	1,000	<.5	N
65 26 34	148 14 36	10.00	3.00	2.0	1.000	2,000	<.5	N
65 29 7	148 22 5	15.00	3.00	2.0	1.000	>5,000	<.5	N
65 28 22	148 31 9	7.00	1.50	.5	.700	2,000	1.5	N
65 25 38	148 24 3	5.00	1.50	2.0	1.000	700	<.5	N
65 24 15	148 28 18	7.00	2.00	3.0	1.000	700	N	N
65 20 44	148 1 0	5.00	2.00	2.0	.700	1,000	N	N
65 19 11	147 57 7	5.00	1.50	1.5	.700	500	N	N
65 19 18	147 29 53	5.00	1.50	2.0	1.000	1,000	N	N
65 21 59	147 18 55	7.00	1.50	2.0	1.000	1,500	N	N
65 19 27	147 10 30	10.00	3.00	2.0	1.000	1,000	N	N
65 19 50	147 19 24	5.00	1.50	2.0	1.000	700	N	N
65 12 1	147 49 36	5.00	1.50	2.0	.700	500	N	N
65 12 29	147 41 44	5.00	1.50	2.0	1.000	700	N	N
65 12 24	147 37 8	5.00	1.50	1.5	1.000	500	N	N
65 12 38	147 29 16	7.00	1.50	3.0	1.000	700	N	N
65 11 53	147 24 51	7.00	1.50	1.5	.700	500	<.5	N
65 13 4	147 14 3	5.00	1.50	2.0	1.000	500	N	N
65 10 49	147 13 22	3.00	1.50	2.0	.700	500	N	N
65 15 42	147 10 36	10.00	2.00	3.0	>1.000	3,000	N	N
65 14 48	147 18 55	7.00	1.50	1.5	1.000	700	N	N
65 17 36	147 16 5	10.00	2.00	3.0	1.000	1,000	N	N
65 17 42	147 14 47	7.00	1.50	2.0	1.000	700	N	N
65 17 48	147 27 6	5.00	1.50	1.5	>1.000	1,500	N	N
65 15 20	147 31 54	10.00	2.00	2.0	1.000	1,000	N	N
65 14 58	147 33 6	10.00	2.00	2.0	>1.000	1,000	N	N
65 27 6	148 42 5	7.00	2.00	1.5	1.000	1,000	N	N
65 26 35	148 48 2	7.00	2.00	3.0	.700	1,000	N	N
65 25 26	148 54 5	7.00	2.00	1.5	1.000	700	N	N
65 22 22	148 57 6	5.00	1.50	.5	>1.000	700	N	N
65 17 26	149 15 43	5.00	2.00	1.0	1.000	1,000	N	N
65 16 26	149 20 58	10.00	1.50	2.0	1.000	1,000	N	N
65 14 51	149 27 38	10.00	1.50	2.0	1.000	700	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
70	2,000	<1.0	N	20	300	50	30	N	20
70	2,000	<1.0	N	20	200	30	70	N	20
100	700	<1.0	N	20	150	70	N	N	N
70	1,000	<1.0	N	15	150	30	50	N	<20
50	500	N	N	10	150	15	30	<5	N
70	300	1.0	N	5	30	10	N	<5	N
70	500	<1.0	N	7	50	15	30	N	N
100	1,000	1.0	N	20	150	50	100	N	<20
100	1,000	1.0	N	15	100	20	50	<5	<20
100	1,500	1.0	N	20	100	20	50	N	<20
100	1,000	<1.0	N	15	150	15	70	N	<20
70	1,000	1.5	N	10	30	10	N	N	N
100	700	<1.0	N	20	100	20	30	N	N
100	1,500	<1.0	N	20	150	70	30	N	N
70	2,000	<1.0	N	20	150	100	N	<5	N
70	1,000	<1.0	<10	30	200	100	50	7	N
70	1,500	1.0	N	15	100	20	50	N	<20
100	1,500	<1.0	N	15	200	20	50	N	<20
70	1,000	<1.0	N	20	150	20	50	N	N
70	1,000	<1.0	N	15	150	30	30	N	N
100	1,500	1.0	N	15	150	20	50	N	<20
100	1,500	1.0	N	20	150	20	50	N	<20
50	1,500	N	N	15	150	20	50	N	N
70	1,500	1.0	N	15	150	15	50	N	20
70	1,500	1.0	N	15	100	15	50	N	<20
100	1,000	<1.0	N	15	150	15	70	N	<20
70	1,000	<1.0	N	20	150	20	50	N	<20
70	1,000	N	N	15	150	15	70	N	<20
100	1,500	1.0	N	20	150	30	70	N	<20
100	1,000	1.0	N	15	150	15	70	N	<20
70	700	<1.0	N	15	150	15	50	N	<20
70	1,000	<1.0	N	15	300	15	70	N	<20
50	700	N	N	15	15	15	50	N	N
70	1,000	1.0	N	20	150	20	50	N	<20
50	700	<1.0	N	10	10	10	30	N	<20
100	700	1.0	N	15	70	15	30	N	<20
70	1,000	1.0	N	20	150	30	50	N	N
50	700	N	N	15	150	30	20	N	<20
100	1,000	1.0	N	20	150	30	50	N	<20
70	1,500	<1.0	N	15	150	15	50	N	N
70	1,000	1.0	N	30	150	30	70	N	N
100	500	<1.0	N	15	150	15	50	N	20
70	700	1.0	N	20	150	20	50	N	<20
70	1,000	1.0	N	20	150	15	70	N	<20
100	1,000	<1.0	N	15	100	10	50	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
50	30	20	N	300	200	N	30	N	300	N
50	20	20	N	300	200	N	50	N	500	N
50	30	20	N	100	200	N	30	N	300	N
30	20	20	N	200	200	N	50	N	500	N
20	15	10	N	100	100	N	20	N	700	N
10	15	5	N	<100	50	N	10	N	200	N
20	15	7	N	<100	70	N	20	N	200	N
50	50	20	N	200	100	N	30	N	500	N
50	30	15	N	200	150	N	50	N	500	N
50	20	20	N	200	150	N	50	N	300	N
50	20	20	N	200	100	N	50	N	500	N
30	10	7	N	<100	100	N	10	N	150	N
50	20	15	N	100	150	N	30	N	150	N
50	30	20	N	200	150	N	50	N	150	N
50	20	30	N	N	200	N	50	N	200	N
50	100	20	N	150	150	N	30	300	150	N
70	50	20	N	300	150	N	50	N	200	N
50	20	20	N	300	150	N	50	N	300	N
50	20	20	N	200	150	N	30	N	200	N
50	30	20	N	150	150	N	30	N	150	N
50	20	30	N	100	150	N	50	N	300	N
50	30	30	N	200	150	N	50	N	300	N
50	30	20	N	300	300	N	30	N	200	N
30	20	20	N	200	100	N	50	N	200	N
50	20	20	N	200	150	N	50	N	200	N
30	30	20	N	200	150	N	50	N	200	N
30	20	20	N	150	150	N	50	N	200	N
30	20	15	N	300	200	N	50	N	700	N
50	50	30	N	200	150	N	50	N	150	N
30	30	20	N	200	150	N	50	N	200	N
30	20	20	N	200	100	N	30	N	200	N
50	20	20	N	300	150	N	50	N	>1,000	N
30	20	15	N	100	100	N	20	N	700	N
50	20	20	N	200	150	N	50	N	500	N
30	10	10	N	<100	100	N	30	N	700	N
30	30	15	N	150	100	N	30	N	300	N
50	30	20	N	200	150	N	50	N	300	N
50	20	20	N	300	150	N	30	N	200	N
50	30	20	N	200	150	N	30	N	500	N
30	30	20	N	300	100	N	50	N	300	N
50	30	20	N	150	150	N	50	N	200	N
30	30	10	N	100	70	N	30	N	300	N
50	30	15	N	150	100	N	30	N	300	N
30	30	20	N	200	100	N	50	N	300	N
20	30	15	N	200	150	N	30	N	300	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 13 59	149 32 21	10.00	2.00	3.0	1.000	1,500	N	N
65 13 5	149 38 22	10.00	2.00	3.0	1.000	1,000	N	N
65 12 2	149 49 36	7.00	2.00	3.0	1.000	700	N	N
65 10 49	149 55 41	7.00	2.00	3.0	1.000	700	N	N
65 9 29	149 24 5	10.00	5.00	1.5	.700	3,000	N	N
65 16 54	147 38 52	7.00	5.00	1.0	.700	500	N	N
65 16 14	147 41 3	10.00	2.00	2.0	1.000	2,000	N	N
65 19 41	148 29 58	7.00	2.00	.7	.700	700	N	N
65 18 38	148 23 13	7.00	2.00	.5	1.000	1,000	N	N
65 16 53	148 10 46	10.00	1.50	2.0	1.000	2,000	<.5	N
65 14 36	148 10 14	10.00	2.00	.5	1.000	1,000	N	N
65 10 59	148 10 57	10.00	1.50	2.0	1.000	1,000	N	N
65 8 54	148 14 53	10.00	3.00	2.0	1.000	1,500	.5	N
65 7 49	148 5 11	10.00	2.00	3.0	1.000	1,000	<.5	N
65 9 59	147 49 5	10.00	2.00	3.0	1.000	1,000	N	N
65 9 25	147 47 30	7.00	2.00	3.0	1.000	1,000	N	N
65 9 39	147 36 19	10.00	2.00	2.0	1.000	1,500	N	N
65 9 16	147 37 14	10.00	2.00	5.0	1.000	1,500	N	N
65 9 25	147 15 51	7.00	2.00	2.0	1.000	1,000	<.5	N
65 9 0	147 12 39	7.00	2.00	5.0	1.000	1,000	N	N
65 8 12	147 6 47	10.00	2.00	3.0	.700	1,000	N	N
65 6 19	147 35 6	7.00	2.00	3.0	>1.000	700	N	N
65 6 21	147 17 58	7.00	1.50	3.0	1.000	1,000	N	N
65 6 46	147 17 9	15.00	2.00	3.0	>1.000	3,000	N	N
65 6 57	147 8 2	7.00	2.00	3.0	1.000	1,000	N	N
65 5 49	147 2 8	15.00	3.00	5.0	1.000	2,000	N	N
65 1 40	147 5 8	7.00	2.00	3.0	1.000	700	N	N
65 4 13	147 10 41	10.00	2.00	3.0	1.000	2,000	N	N
65 1 8	147 23 44	10.00	2.00	3.0	1.000	2,000	N	N
65 3 18	147 35 18	10.00	2.00	3.0	>1.000	1,500	N	N
65 28 4	148 24 39	7.00	2.00	3.0	1.000	1,500	N	N
65 22 54	148 12 10	10.00	2.00	2.0	1.000	1,500	N	N
65 19 39	147 46 56	15.00	2.00	2.0	1.000	1,500	1.0	N
65 20 22	147 44 20	15.00	2.00	3.0	1.000	2,000	N	N
65 20 30	147 34 5	10.00	1.50	2.0	.700	500	N	N
65 20 17	147 24 30	15.00	1.50	.5	>1.000	2,000	N	N
65 23 53	147 12 21	10.00	2.00	.7	>1.000	2,000	N	N
65 22 23	147 11 27	15.00	2.00	5.0	>1.000	700	N	N
65 10 28	147 17 53	15.00	2.00	5.0	>1.000	1,000	N	N
65 12 51	147 10 9	15.00	2.00	5.0	1.000	1,500	N	N
65 21 3	149 0 32	10.00	2.00	5.0	1.000	2,000	N	N
65 16 28	147 47 16	2.00	.70	1.0	.200	500	N	N
65 15 8	147 49 57	20.00	2.00	5.0	1.000	2,000	N	N
65 19 33	148 19 45	15.00	2.00	5.0	>1.000	2,000	N	N
65 16 19	148 20 13	15.00	2.00	5.0	>1.000	2,000	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
70	1,500	<1.0	N	20	150	15	50	N	<20
70	1,500	<1.0	N	15	200	20	50	N	<20
70	1,500	<1.0	N	20	150	15	50	N	N
70	1,500	<1.0	N	15	200	20	50	N	<20
100	1,000	1.0	N	20	500	30	N	<5	N
50	700	N	N	15	300	20	30	N	N
70	1,500	<1.0	N	20	300	30	50	<5	20
100	1,500	1.0	N	15	150	50	50	<5	<20
50	700	N	N	20	200	50	30	N	N
200	1,500	N	N	20	200	70	70	10	N
200	1,500	1.0	N	15	200	20	50	<5	20
100	2,000	N	N	15	150	50	30	N	N
50	2,000	N	N	20	300	70	N	N	N
70	2,000	<1.0	N	20	200	30	50	N	N
70	1,500	N	N	20	150	30	50	N	<20
70	2,000	<1.0	N	15	150	30	50	N	<20
70	2,000	N	N	20	200	30	30	N	N
100	2,000	1.0	N	20	200	30	50	N	<20
70	1,500	<1.0	N	20	200	30	N	N	N
50	1,500	N	N	15	150	20	50	N	<20
70	1,500	N	N	15	150	20	N	N	N
50	1,500	<1.0	N	15	150	20	50	N	N
30	1,500	N	N	15	100	20	30	N	N
100	2,000	1.0	N	30	100	50	50	N	<20
50	1,500	1.0	N	20	100	30	50	N	N
50	2,000	<1.0	N	20	200	70	50	N	N
70	2,000	<1.0	N	15	150	30	50	N	N
100	2,000	1.0	N	20	200	30	70	N	<20
70	1,500	<1.0	N	30	150	50	50	N	<20
70	1,000	N	N	20	200	20	70	N	<20
70	1,000	N	N	20	200	30	50	N	N
100	1,000	1.0	N	20	200	30	70	N	20
30	700	N	N	15	150	20	50	N	N
50	1,000	<1.0	N	15	150	15	50	N	N
50	1,000	<1.0	N	15	150	20	50	N	N
100	700	<1.0	N	15	70	50	N	N	<20
100	700	1.0	N	20	100	30	30	N	20
100	2,000	1.5	N	15	200	50	70	N	20
70	1,500	1.5	N	15	150	30	70	N	<20
100	1,500	1.0	N	20	200	50	50	<5	<20
150	1,000	1.0	N	15	200	20	50	N	<20
<10	700	1.0	N	N	20	10	N	N	N
100	1,500	<1.0	N	20	200	50	50	<5	<20
150	1,000	<1.0	N	15	200	50	50	N	30
150	1,500	1.0	N	15	200	30	50	N	20

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
30	30	15	N	300	200	N	50	N	300	N
30	30	20	N	300	200	N	50	N	300	N
30	30	20	N	300	150	N	50	N	300	N
70	20	20	N	300	300	N	50	N	300	N
200	20	20	N	150	200	N	30	N	150	N
150	20	15	N	200	200	N	20	N	150	N
70	20	20	N	200	300	N	50	N	300	N
70	30	20	N	150	300	N	30	N	200	N
50	20	20	N	<100	200	N	30	N	150	N
50	30	20	N	200	500	N	50	N	300	N
50	30	20	N	100	300	N	50	200	300	N
50	10	20	N	200	200	N	30	N	300	N
50	30	20	N	<100	500	N	30	N	200	N
50	20	20	N	200	500	N	30	N	500	N
30	20	20	N	200	200	N	50	N	500	N
50	20	15	N	300	200	N	50	N	500	N
50	20	20	N	<100	500	N	30	N	500	N
50	30	20	N	300	300	N	50	<200	500	N
50	30	15	N	200	200	N	30	N	300	N
20	20	20	N	300	200	N	50	N	500	N
30	20	15	N	200	300	N	30	N	500	N
20	20	20	N	200	300	N	50	N	500	N
20	20	20	N	200	300	N	30	N	300	N
50	50	20	N	200	500	N	50	N	300	N
30	30	20	N	200	300	N	50	N	500	N
30	20	20	N	<100	500	N	50	N	500	N
30	20	20	N	200	300	N	50	N	500	N
50	20	15	N	200	300	N	50	N	700	N
50	30	20	N	200	200	N	50	N	300	N
30	20	15	N	200	200	N	70	N	>1,000	N
30	20	15	N	200	150	N	50	N	1,000	N
50	30	15	N	200	150	N	50	N	500	N
20	20	10	N	200	300	N	20	N	700	N
20	20	20	N	300	300	N	30	N	700	N
30	20	15	N	150	150	N	30	N	200	N
30	15	10	N	<100	100	N	20	N	500	N
30	20	15	N	100	100	N	30	N	500	N
50	30	30	N	300	200	N	50	N	500	N
50	30	20	N	200	200	N	50	N	700	N
50	30	20	N	200	200	N	50	N	700	N
30	20	20	N	300	150	N	50	N	1,000	N
15	10	10	N	<100	100	N	15	N	150	N
50	20	20	N	300	200	N	50	N	500	N
30	30	30	N	300	200	N	50	N	1,000	N
50	20	20	N	200	150	N	50	N	700	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 9 18	147 42 33	1.50	2.00	5.0	>1.000	2,000	N	N
65 8 22	147 23 47	10.00	2.00	5.0	>1.000	2,000	N	N
65 7 9	147 52 42	10.00	2.00	5.0	>1.000	1,500	N	N
65 5 9	147 40 23	15.00	2.00	5.0	1.000	1,500	N	N
65 3 11	147 4 33	15.00	2.00	3.0	1.000	2,000	N	N
65 1 54	147 49 19	10.00	2.00	5.0	1.000	2,000	N	N
65 4 0	147 48 24	15.00	2.00	5.0	1.000	1,500	N	N
65 3 21	147 53 44	7.00	1.50	3.0	1.000	1,000	1.0	N
65 1 59	147 53 22	15.00	3.00	5.0	>1.000	1,500	N	N
65 1 40	148 0 5	10.00	2.00	3.0	1.000	1,500	N	N
65 2 52	148 0 30	2.00	1.50	.3	.200	200	N	N
65 6 56	148 0 47	1.50	1.00	.3	.200	200	N	N
65 30 6	148 34 58	2.00	1.50	.3	.200	200	N	N
65 26 57	148 37 0	2.00	1.00	.2	.200	200	N	N
65 23 24	148 39 34	1.50	1.00	.2	.150	200	N	N
65 20 8	149 2 48	1.50	1.00	.5	.200	300	N	N
65 18 33	149 5 57	2.00	1.00	.2	.200	200	N	N
65 12 16	149 32 20	1.50	.50	.2	.150	200	N	N
65 4 36	148 25 45	7.00	2.00	2.0	1.000	700	<.5	N
65 2 35	148 9 39	5.00	2.00	3.0	1.000	700	N	N
65 1 40	148 22 36	5.00	2.00	3.0	1.000	500	N	N
65 16 11	148 50 47	7.00	2.00	5.0	>1.000	1,000	N	N
65 20 21	148 44 48	5.00	1.50	2.0	.700	1,000	N	N
65 29 3	148 43 45	10.00	2.00	3.0	>1.000	1,000	N	N
65 34 32	148 22 27	7.00	2.00	2.0	1.000	700	N	N
65 34 32	148 9 57	5.00	1.50	3.0	1.000	700	N	N
65 34 10	148 10 4	10.00	3.00	3.0	>1.000	1,000	N	N
65 34 47	148 2 30	10.00	2.00	5.0	>1.000	1,500	N	N
65 34 41	147 55 44	7.00	2.00	5.0	>1.000	1,000	N	N
65 34 18	147 48 33	7.00	2.00	5.0	>1.000	1,000	N	N
65 34 51	147 42 37	7.00	1.50	3.0	1.000	700	N	N
65 34 5	147 36 11	7.00	2.00	5.0	>1.000	1,000	N	N
65 34 56	147 25 11	10.00	2.00	5.0	1.000	1,000	N	N
65 34 30	147 24 46	7.00	2.00	5.0	>1.000	1,500	N	N
65 35 24	147 20 59	7.00	2.00	5.0	1.000	1,000	N	N
65 37 15	147 12 48	.70	1.00	5.0	.150	500	N	N
65 37 33	147 10 36	5.00	2.00	5.0	1.000	700	N	N
65 41 34	147 8 5	10.00	2.00	2.0	1.000	1,000	N	N
65 39 54	147 30 17	7.00	2.00	3.0	1.000	500	N	N
65 37 8	147 39 10	5.00	1.50	2.0	.700	500	N	N
65 37 42	147 56 48	7.00	1.50	3.0	1.000	700	N	N
65 37 50	147 8 26	7.00	2.00	3.0	1.000	700	N	N
65 38 8	147 10 59	7.00	2.00	5.0	1.000	1,500	N	N
65 28 10	148 36 21	7.00	2.00	5.0	1.000	1,000	N	N
65 46 4	149 24 5	10.00	2.00	3.0	1.000	1,000	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF MURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
100	1,500	1.0	N	20	150	30	50	<5	20
150	1,000	1.0	N	20	200	30	70	N	<20
150	1,500	1.0	N	20	200	50	70	N	20
50	1,500	<1.0	N	20	200	50	50	N	N
100	2,000	1.5	N	30	150	50	50	N	N
100	1,500	1.0	N	20	200	30	50	N	20
100	2,000	1.0	N	20	200	50	70	N	<20
100	1,500	1.0	N	15	100	20	50	7	<20
100	1,500	<1.0	N	20	200	70	70	N	20
100	1,000	1.0	N	20	200	50	70	N	N
50	300	<1.0	N	15	100	20	30	N	N
50	500	1.0	N	15	70	15	30	N	N
50	500	<1.0	N	15	70	20	30	N	N
50	500	1.0	N	20	70	30	50	N	N
50	500	1.0	N	20	50	30	50	N	N
50	500	1.0	N	15	70	20	20	N	N
50	700	1.0	N	15	100	15	30	N	N
50	500	<1.0	N	15	50	20	30	N	N
70	2,000	<1.0	N	20	200	50	30	<5	N
70	1,500	<1.0	N	15	500	50	30	N	N
70	2,000	<1.0	N	15	300	70	50	<5	N
70	2,000	<1.0	N	15	500	50	50	N	<20
50	1,500	<1.0	N	10	100	30	N	N	N
100	2,000	1.0	N	20	500	70	30	N	<20
70	2,000	<1.0	N	20	300	70	30	N	N
50	2,000	1.0	N	10	70	50	N	<5	N
100	3,000	1.0	N	20	200	70	50	N	<20
100	3,000	1.0	N	20	300	70	50	N	<20
70	2,000	<1.0	N	15	300	50	50	N	<20
70	3,000	1.0	N	20	300	70	50	N	<20
70	2,000	<1.0	N	20	300	50	30	N	N
100	3,000	<1.0	N	20	500	50	50	N	<20
70	3,000	<1.0	N	20	500	100	50	5	<20
100	3,000	<1.0	N	20	300	50	50	N	<20
100	3,000	<1.0	N	20	300	50	50	N	N
<10	500	<1.0	N	5	20	20	N	N	N
100	2,000	1.0	N	20	300	50	50	<5	<20
150	2,000	1.0	N	20	300	30	70	<5	<20
70	1,000	<1.0	N	20	200	20	50	N	<20
70	1,500	<1.0	N	15	150	15	50	N	<20
70	1,500	1.0	N	10	200	20	50	N	<20
70	1,500	<1.0	N	15	200	30	50	<5	<20
70	1,500	<1.0	N	15	200	15	50	N	<20
70	1,500	1.0	N	15	200	50	30	N	N
70	1,500	<1.0	N	20	200	70	30	N	<20

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
50	30	20	N	200	200	N	50	N	500	N
50	20	30	N	300	150	N	50	N	700	N
50	20	30	N	300	200	N	50	N	1,000	N
50	50	20	N	200	200	N	50	N	500	N
70	50	20	N	200	200	N	50	N	300	N
50	30	20	N	300	200	N	50	N	700	N
70	30	20	N	200	300	N	50	N	500	N
30	20	15	N	200	150	N	50	N	1,000	N
70	30	20	N	200	300	N	50	N	500	N
70	50	20	N	200	300	N	50	N	300	N
50	15	15	N	100	70	N	20	N	150	N
30	10	7	N	100	70	N	15	N	150	N
50	15	10	N	150	70	N	20	N	100	N
50	20	10	N	100	100	N	20	N	150	N
50	15	10	N	100	70	N	20	N	100	N
70	10	7	N	150	70	N	15	N	100	N
50	15	10	N	100	100	N	20	N	100	N
50	15	7	N	<100	70	N	20	N	100	N
50	50	20	N	200	200	N	20	<200	200	N
50	20	20	N	200	150	N	20	<200	500	N
50	20	20	N	200	200	N	30	N	300	N
50	20	20	N	200	200	N	30	N	500	N
50	15	10	N	100	150	N	20	N	150	N
50	30	20	N	200	300	N	50	N	500	N
50	20	20	N	200	200	N	30	N	300	N
50	15	15	N	150	150	N	20	N	150	N
50	30	30	N	300	200	N	50	<200	300	N
50	50	30	N	300	300	N	50	N	300	N
30	20	20	N	300	200	N	50	N	700	N
50	30	30	N	300	200	N	50	N	300	N
50	20	20	N	200	150	N	30	N	500	N
30	20	30	N	300	300	N	50	N	700	N
50	30	30	N	300	300	N	50	N	300	N
50	20	20	N	300	300	N	50	N	500	N
50	30	20	N	300	300	N	50	N	300	N
30	<10	7	N	N	70	N	10	N	50	N
50	20	20	N	300	200	N	50	N	700	N
50	30	30	N	200	150	N	50	N	500	N
30	20	20	N	300	150	N	30	N	200	N
30	20	20	N	300	150	N	30	N	300	N
30	20	30	N	300	200	N	30	N	300	N
30	20	20	N	300	150	N	30	N	300	N
30	15	20	N	300	150	N	50	N	300	N
30	20	20	N	300	100	N	20	N	300	N
50	20	20	N	200	200	N	50	N	300	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 51 43	149 35 20	5.00	2.00	5.0	1.000	1,000	N	N
65 48 8	149 25 53	5.00	1.50	3.0	>1.000	1,000	N	N
65 45 36	149 21 20	5.00	2.00	3.0	1.000	1,000	N	N
65 44 56	149 20 8	.50	.50	3.0	.150	150	N	N
65 44 22	149 17 26	5.00	1.50	1.0	.700	300	N	N
65 43 45	149 12 45	7.00	2.00	3.0	1.000	700	N	N
65 38 21	149 3 11	7.00	2.00	3.0	.700	700	N	N
65 34 4	148 55 57	5.00	1.50	3.0	.700	700	N	N
65 34 1	148 56 29	7.00	2.00	3.0	1.000	1,000	N	N
65 30 51	148 49 50	3.00	1.50	1.5	.700	300	N	N
65 31 9	148 47 31	7.00	2.00	3.0	1.000	700	N	N
65 53 9	149 26 56	7.00	2.00	3.0	1.000	700	N	N
65 22 32	148 39 15	7.00	2.00	3.0	1.000	1,000	N	N
65 19 46	148 39 56	10.00	3.00	3.0	1.000	1,500	N	N
65 17 26	148 41 15	10.00	2.00	5.0	1.000	1,000	N	N
65 14 8	148 42 15	15.00	2.00	3.0	1.000	2,000	N	N
65 11 57	148 43 29	10.00	2.00	3.0	1.000	1,000	N	N
65 12 28	148 35 59	15.00	2.00	5.0	1.000	2,000	N	N
65 13 53	148 28 41	10.00	2.00	5.0	1.000	5,000	N	N
65 16 14	148 29 12	1.50	1.00	3.0	.300	500	N	N
65 15 52	148 23 14	15.00	3.00	5.0	1.000	1,500	N	N
65 15 1	148 20 59	7.00	1.50	5.0	.700	1,000	N	N
65 13 36	148 26 6	7.00	2.00	7.0	1.000	1,500	N	N
65 11 25	148 26 12	7.00	1.50	3.0	1.000	700	N	N
65 10 50	148 31 3	7.00	2.00	3.0	1.000	700	N	N
65 8 12	148 28 54	7.00	1.50	3.0	1.000	700	N	N
65 8 38	148 35 18	10.00	2.00	5.0	.700	1,500	N	N
65 7 12	148 44 49	10.00	2.00	5.0	1.000	1,500	N	N
65 6 33	148 37 50	10.00	2.00	5.0	1.000	1,500	N	N
65 7 3	148 31 56	7.00	2.00	5.0	1.000	1,000	N	N
65 4 42	148 30 47	7.00	1.50	3.0	1.000	1,000	N	N
65 5 20	148 26 45	7.00	3.00	7.0	.700	1,500	N	N
65 7 5	148 18 16	7.00	2.00	2.0	1.000	1,500	N	N
65 3 15	148 6 15	7.00	1.50	2.0	1.000	1,000	N	N
65 1 56	148 6 20	5.00	1.50	3.0	1.000	1,000	N	N
65 2 8	148 11 43	5.00	1.50	2.0	1.000	1,000	N	N
65 1 32	148 19 19	7.00	2.00	5.0	1.000	1,000	N	N
65 1 28	148 24 1	7.00	3.00	7.0	1.000	1,500	N	N
65 1 17	148 29 12	7.00	2.00	5.0	.700	1,500	N	N
65 1 59	148 38 44	7.00	2.00	3.0	1.000	1,500	N	N
65 2 49	148 38 20	5.00	1.50	5.0	1.000	1,000	N	N
65 0 41	148 42 10	15.00	2.00	.2	1.000	1,000	N	N
65 1 58	148 48 53	10.00	3.00	7.0	1.000	1,000	N	N
65 1 50	148 53 9	7.00	1.50	2.0	1.000	500	N	N
65 3 47	148 55 28	7.00	2.00	7.0	1.000	700	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENSOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
50	1,000	<1.0	N	10	150	15	30	N	N
70	700	<1.0	N	10	200	50	30	<5	<20
70	1,000	1.0	N	15	200	20	30	N	N
<10	300	1.0	N	N	10	20	N	N	N
50	700	<1.0	N	15	200	30	30	N	N
70	1,500	1.0	N	10	150	30	50	N	<20
70	1,500	1.0	N	20	200	50	50	N	<20
50	1,500	<1.0	N	15	200	70	30	N	N
70	1,500	<1.0	N	20	200	50	50	N	N
50	700	<1.0	N	10	70	15	30	N	N
70	2,000	1.0	N	15	200	50	50	N	N
70	2,000	1.0	N	20	200	50	50	N	<20
70	2,000	1.0	N	20	150	30	50	<5	N
70	1,500	<1.0	N	15	300	50	50	N	<20
70	2,000	<1.0	N	15	200	50	70	N	N
70	2,000	<1.0	N	15	300	100	30	<5	N
70	2,000	<1.0	N	20	200	50	70	N	<20
70	1,500	N	N	10	300	30	50	N	N
100	2,000	1.5	N	15	300	50	70	N	<20
20	700	1.0	N	7	20	20	N	N	N
70	2,000	N	N	15	200	70	20	N	<20
100	2,000	<1.0	N	15	200	20	50	N	<20
70	2,000	<1.0	N	15	200	30	50	N	<20
70	1,500	<1.0	N	10	300	20	50	<5	<20
100	2,000	<1.0	N	15	200	50	50	N	N
70	2,000	<1.0	N	10	150	30	50	N	<20
100	2,000	<1.0	N	20	200	100	30	<5	N
70	2,000	<1.0	N	15	200	30	50	N	<20
70	2,000	<1.0	N	20	200	50	30	<5	<20
70	2,000	<1.0	N	15	300	20	50	<5	<20
100	2,000	<1.0	N	15	150	20	50	N	<20
100	2,000	<1.0	N	20	500	50	50	N	<20
100	2,000	1.0	N	15	200	20	50	N	<20
70	1,500	<1.0	N	20	200	15	20	N	<20
70	2,000	<1.0	N	15	150	20	30	N	<20
70	1,000	<1.0	N	15	200	15	20	N	<20
70	1,500	<1.0	N	15	200	30	30	N	N
70	2,000	1.0	N	20	300	50	70	N	<20
50	2,000	<1.0	N	20	200	30	50	N	<20
70	2,000	1.0	N	20	200	50	50	N	<20
70	2,000	<1.0	N	15	200	30	50	N	<20
50	2,000	<1.0	N	20	300	50	20	<5	<20
70	2,000	<1.0	N	20	300	30	70	<5	<20
70	1,500	<1.0	N	15	300	30	50	N	<20
70	2,000	<1.0	N	15	200	30	50	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF MORE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
20	15	20	N	300	100	N	20	N	300	N
30	15	20	N	200	150	N	30	N	500	N
30	20	20	N	200	150	N	30	N	500	N
15	<10	<5	N	N	70	N	15	N	70	N
30	20	10	N	150	100	N	20	N	150	N
30	20	20	N	200	200	N	30	N	300	N
30	20	20	N	300	200	N	30	<200	200	N
30	20	20	N	300	150	N	30	N	200	N
50	20	20	N	300	200	N	30	N	300	N
30	10	10	N	150	150	N	20	N	150	N
70	20	20	N	300	200	N	50	N	200	N
50	20	20	N	300	200	N	50	N	300	N
50	20	20	N	300	200	N	50	N	300	N
30	20	20	N	300	300	N	30	N	300	N
50	20	20	N	300	150	N	50	N	200	N
50	20	20	N	200	300	N	30	N	200	N
50	20	30	N	300	300	N	50	N	300	N
20	30	15	N	500	500	N	20	N	1,000	N
50	30	20	N	700	200	100	50	N	700	N
30	<10	10	N	<100	100	N	20	N	70	N
50	20	20	N	300	500	N	20	N	500	N
30	30	20	N	500	150	N	30	N	300	N
50	20	20	N	500	300	N	30	N	300	N
30	15	20	N	300	200	N	50	N	700	N
70	15	20	N	300	200	N	50	N	300	N
20	20	20	N	300	150	N	50	N	300	N
50	15	20	N	300	300	N	50	N	300	N
30	15	20	N	500	200	N	50	N	1,000	N
30	20	20	N	500	200	N	50	N	500	N
30	15	20	N	500	200	N	50	N	500	N
20	15	20	20	500	150	N	50	N	300	N
50	20	20	N	500	150	N	50	N	300	N
30	20	20	N	200	200	N	50	N	300	N
30	20	20	N	200	150	N	30	N	500	N
30	20	20	N	300	150	N	30	N	300	N
30	20	10	N	200	150	N	30	N	300	N
50	20	20	N	300	150	N	30	N	200	N
50	20	30	N	500	200	N	30	N	500	N
50	20	20	N	300	200	N	50	N	300	N
50	50	20	N	200	150	N	50	N	300	N
50	20	20	N	300	200	N	50	N	500	N
30	50	15	N	<100	150	N	20	N	500	N
50	20	20	N	500	200	N	50	N	500	N
30	30	15	N	200	100	N	30	N	300	N
50	20	20	N	500	150	N	50	N	500	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 3 20	148 49 18	10.00	1.50	2.0	.700	5,000	N	N
65 4 42	148 44 31	7.00	1.50	2.0	1.000	2,000	N	N
65 6 19	148 47 51	15.00	3.00	5.0	>1.000	1,500	N	N
65 5 27	148 53 25	7.00	2.00	3.0	1.000	700	N	N
65 9 38	148 53 33	7.00	3.00	5.0	1.000	1,500	N	N
65 10 28	148 53 38	5.00	1.50	2.0	1.000	500	N	N
65 9 28	148 48 11	7.00	1.50	5.0	1.000	1,000	N	N
65 12 11	148 50 53	7.00	2.00	2.0	.700	1,000	N	N
65 13 0	148 51 29	7.00	2.00	5.0	1.000	1,500	N	N
65 18 15	148 45 41	7.00	2.00	5.0	1.000	1,000	N	N
65 21 24	148 44 54	5.00	2.00	5.0	1.000	1,000	N	N
65 21 56	148 50 8	10.00	2.00	5.0	1.000	1,500	N	N
65 23 26	148 48 42	7.00	2.00	5.0	1.000	1,000	N	N
65 26 8	148 43 38	5.00	2.00	5.0	1.000	700	<.5	N
65 29 54	148 49 36	7.00	2.00	5.0	>1.000	2,000	N	N
65 34 30	148 16 37	10.00	1.50	5.0	1.000	1,500	N	N
65 33 43	147 46 18	7.00	2.00	3.0	1.000	2,000	N	N
65 43 27	147 14 0	10.00	2.00	5.0	>1.000	1,500	N	N
65 43 46	147 17 30	10.00	2.00	5.0	>1.000	3,000	N	N
65 43 18	147 21 46	7.00	1.50	5.0	>1.000	2,000	N	N
65 42 52	147 26 35	5.00	2.00	3.0	1.000	500	.5	N
65 59 45	149 16 59	7.00	1.50	5.0	1.000	1,500	N	N
65 59 54	149 23 52	7.00	2.00	5.0	1.000	1,000	N	N
65 58 19	149 21 46	10.00	3.00	7.0	1.000	3,000	N	N
65 56 44	149 23 52	10.00	2.00	10.0	1.000	1,500	N	N
65 50 9	149 37 24	10.00	2.00	3.0	>1.000	1,500	N	N
65 52 3	149 41 21	7.00	3.00	10.0	1.000	1,000	N	N
65 52 44	149 34 32	7.00	2.00	7.0	1.000	2,000	N	N
65 36 55	148 11 9	5.00	1.50	3.0	1.000	500	<.5	N
65 40 27	148 15 47	5.00	1.50	3.0	1.000	1,000	N	N
65 44 7	148 11 52	5.00	1.50	3.0	.700	700	N	N
65 42 46	148 2 26	10.00	2.00	3.0	.700	1,000	N	N
65 42 15	147 58 6	5.00	1.50	2.0	.700	500	N	N
65 44 12	147 53 20	10.00	2.00	3.0	.700	1,000	<.5	N
65 44 44	147 50 20	3.00	1.50	2.0	.700	500	N	N
65 42 10	147 42 42	7.00	2.00	2.0	1.000	1,000	<.5	N
65 42 2	147 41 31	1.00	.50	1.5	.200	200	N	N
65 45 20	147 37 41	5.00	2.00	3.0	1.000	1,000	N	N
65 48 48	147 26 21	5.00	2.00	3.0	1.000	700	N	N
65 48 15	147 17 45	7.00	2.00	2.0	1.000	700	N	N
65 49 27	147 11 58	5.00	2.00	3.0	1.000	2,000	N	N
65 49 13	147 10 18	5.00	1.50	2.0	1.000	1,000	N	N
65 49 56	147 0 39	10.00	2.00	2.0	1.000	2,000	N	N
65 45 2	147 8 44	5.00	1.50	2.0	1.000	1,500	N	N
65 39 56	147 34 19	5.00	1.50	2.0	1.000	1,000	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF MURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
50	1,500	<1.0	N	50	200	20	50	N	N
70	1,500	<1.0	N	20	200	30	50	N	<20
50	2,000	N	N	10	200	15	30	N	<20
70	2,000	<1.0	N	10	150	15	50	N	<20
70	2,000	1.0	N	20	500	30	50	N	<20
50	1,500	<1.0	N	10	200	15	50	N	<20
70	2,000	<1.0	N	15	150	20	50	N	<20
70	1,000	<1.0	<10	20	500	50	20	5	<20
70	2,000	<1.0	N	15	200	30	50	N	<20
70	2,000	<1.0	N	15	200	30	30	N	<20
100	2,000	<1.0	N	15	200	20	50	N	<20
70	2,000	<1.0	N	20	300	30	50	N	<20
100	2,000	<1.0	N	15	200	30	50	N	<20
70	2,000	<1.0	N	10	150	20	30	N	N
100	3,000	<1.0	N	15	300	50	50	N	<20
100	2,000	1.0	N	15	200	30	30	N	N
70	2,000	<1.0	N	20	200	20	30	N	<20
100	2,000	1.0	N	15	300	20	50	N	<20
70	3,000	<1.0	N	20	200	50	50	N	N
100	2,000	<1.0	N	15	300	30	50	N	<20
100	2,000	1.0	N	20	200	50	50	<5	N
70	3,000	1.0	N	20	300	30	50	N	<20
70	2,000	<1.0	N	20	200	30	50	N	<20
100	3,000	<1.0	N	20	200	50	50	N	N
100	2,000	<1.0	N	20	200	50	30	N	N
100	2,000	<1.0	N	20	300	30	50	N	<20
50	2,000	<1.0	N	15	200	50	20	N	N
70	2,000	1.0	N	20	200	30	50	N	N
100	2,000	1.0	N	20	200	50	50	<5	<20
100	2,000	1.0	N	15	150	20	50	N	<20
70	1,500	1.0	N	15	100	20	50	N	N
50	1,500	<1.0	N	20	150	100	N	7	N
100	1,500	1.0	N	15	150	30	50	N	<20
70	2,000	1.0	N	20	150	50	50	N	N
100	2,000	1.0	N	15	100	20	50	N	<20
100	2,000	1.0	N	20	200	20	70	N	<20
30	700	1.0	<10	N	30	15	N	N	N
100	2,000	<1.0	N	15	150	20	50	N	<20
70	2,000	<1.0	N	15	150	20	50	N	<20
100	2,000	1.0	N	20	150	50	50	N	<20
100	2,000	1.0	N	20	100	30	50	N	<20
100	1,500	1.0	N	15	150	30	50	N	<20
100	2,000	1.0	N	30	150	50	50	N	20
100	1,500	1.0	N	20	150	20	70	N	<20
100	1,500	1.0	N	20	100	15	50	N	<20

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
50	15	20	N	150	150	N	30	N	200	N
50	20	20	N	200	150	N	50	N	500	N
20	20	20	N	500	150	N	20	N	500	N
30	20	20	N	300	100	N	50	N	500	N
70	20	20	N	300	200	N	50	N	300	N
20	15	15	N	200	150	N	30	N	200	N
30	20	20	N	300	150	N	50	N	200	N
70	30	20	N	150	150	N	20	N	150	N
30	20	20	N	500	200	N	50	N	500	N
30	20	20	N	500	200	N	30	N	500	N
30	20	20	N	500	150	N	50	N	700	N
50	20	20	N	300	200	N	50	N	700	N
50	20	20	N	500	200	N	50	N	500	N
30	20	15	N	300	150	N	20	N	300	N
30	20	30	N	500	200	N	50	N	1,000	N
50	20	20	N	500	200	N	50	N	500	N
50	20	20	N	300	200	N	50	N	1,000	N
30	20	30	N	300	200	N	50	N	1,000	N
30	15	20	N	500	200	N	50	N	1,000	N
50	15	20	N	500	200	N	50	N	1,000	N
50	30	20	N	200	300	N	30	N	200	N
50	20	20	<10	500	200	N	50	N	700	N
50	30	20	N	500	200	N	50	N	300	N
50	20	20	N	500	200	N	50	N	300	N
50	20	20	N	500	200	N	50	N	300	N
50	20	30	N	500	200	N	50	N	700	N
30	10	20	N	500	200	N	30	N	200	N
50	15	30	<10	500	200	N	50	N	300	N
50	20	20	N	300	150	N	50	N	150	N
50	20	20	N	300	150	N	30	N	300	N
30	15	15	N	300	150	N	30	N	200	N
50	20	20	N	300	150	N	30	N	150	N
50	20	20	N	200	150	N	30	N	200	N
30	20	20	N	300	200	N	50	N	300	N
30	15	15	N	300	100	N	50	N	200	N
50	50	20	N	300	150	N	50	N	200	N
10	10	7	N	<100	70	N	15	N	70	N
30	20	20	N	300	150	N	70	N	300	N
30	30	20	N	300	150	N	50	N	300	N
50	30	20	N	200	200	N	50	N	200	N
50	20	20	N	300	150	N	50	N	300	N
50	50	20	N	300	150	N	50	N	300	N
70	50	30	N	200	200	N	50	N	200	N
30	20	20	N	300	150	N	50	N	300	N
30	20	20	N	300	150	N	50	N	300	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF MORE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 38 49	147 49 10	5.00	1.50	2.0	1.000	1,000	N	N
65 39 46	147 55 26	5.00	2.00	3.0	1.000	1,000	N	N
65 35 33	148 19 51	5.00	1.50	2.0	.700	1,000	N	N
65 37 45	148 25 33	7.00	2.00	3.0	1.000	1,000	5.0	N
65 39 33	148 26 7	7.00	2.00	3.0	.700	2,000	<.5	N
65 51 33	148 24 55	5.00	1.50	3.0	1.000	700	N	N
65 47 52	148 31 41	5.00	2.00	3.0	1.000	700	N	N
65 45 48	148 33 38	5.00	1.50	2.0	1.000	500	N	N
65 39 24	148 32 30	7.00	1.50	3.0	1.000	1,500	N	N
65 39 33	148 22 27	5.00	1.50	2.0	1.000	500	30.0	N
65 46 54	148 7 49	10.00	2.00	2.0	1.000	3,000	N	N
65 48 11	148 4 18	5.00	1.50	2.0	.700	700	N	N
65 50 8	148 2 8	5.00	2.00	2.0	1.000	500	N	N
65 50 41	148 4 35	5.00	1.50	1.0	.700	1,500	N	N
65 52 56	148 2 45	7.00	1.50	2.0	1.000	1,000	N	N
65 34 37	148 33 51	1.50	1.00	20.0	.070	3,000	N	N
65 43 36	148 28 0	5.00	1.50	2.0	.500	500	<.5	N
65 47 2	148 15 35	10.00	2.00	3.0	1.000	2,000	N	N
65 47 3	148 14 18	7.00	2.00	2.0	1.000	1,000	N	N
65 53 48	148 38 20	10.00	2.00	2.0	1.000	2,000	N	N
65 44 7	147 59 9	7.00	2.00	3.0	1.000	2,000	N	N
65 45 42	147 53 52	5.00	1.50	2.0	1.000	1,500	N	N
65 47 53	147 50 31	5.00	1.50	3.0	.700	700	N	N
65 52 15	147 42 29	5.00	1.00	1.0	.500	300	N	N
65 56 35	147 49 6	5.00	1.50	3.0	1.000	700	N	N
66 0 0	147 49 44	5.00	1.50	3.0	.700	1,000	N	N
65 55 0	149 30 6	5.00	1.50	3.0	.700	1,000	N	N
65 58 11	149 29 30	5.00	1.50	3.0	1.000	500	<.5	N
65 59 52	149 29 48	3.00	1.50	3.0	.500	300	N	N
65 59 13	149 33 33	3.00	1.50	3.0	1.000	500	N	N
65 59 53	149 36 1	7.00	2.00	5.0	1.000	500	<.5	N
65 56 12	149 42 28	3.00	1.50	2.0	.700	300	N	N
65 56 31	149 38 48	3.00	1.50	3.0	.500	700	N	N
65 54 41	149 40 0	3.00	1.50	3.0	.700	300	<.5	N
65 53 8	149 43 44	7.00	2.00	5.0	1.000	1,000	N	N
65 42 50	148 20 54	5.00	1.50	3.0	1.000	500	<.5	N
65 44 43	148 7 18	5.00	1.00	3.0	.500	300	N	N
65 44 12	148 4 44	5.00	1.50	3.0	1.000	500	N	N
65 43 14	147 41 9	10.00	2.00	5.0	1.000	1,000	N	N
65 47 36	147 32 34	7.00	1.50	3.0	1.000	700	N	N
65 47 31	147 30 29	7.00	1.50	2.0	1.000	500	N	N
65 48 29	147 23 26	7.00	1.50	2.0	.700	500	N	N
65 48 30	147 14 2	5.00	1.50	2.0	1.000	700	N	N
65 44 8	147 1 39	5.00	1.50	3.0	1.000	1,000	N	N
65 44 43	147 5 8	5.00	1.50	3.0	.700	700	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
100	1,500	1.0	N	20	100	20	50	N	<20
70	2,000	1.0	N	15	150	20	50	N	<20
70	1,500	1.0	N	20	100	20	50	N	<20
100	2,000	1.0	N	20	150	20	50	N	20
70	1,500	1.0	N	30	150	30	30	N	N
70	2,000	1.0	N	15	100	15	30	N	<20
100	2,000	<1.0	N	20	200	20	50	N	20
70	1,000	1.0	N	15	100	15	30	N	N
100	1,500	1.0	N	15	150	20	50	N	<20
100	1,500	1.0	N	15	100	20	50	N	<20
70	2,000	1.0	N	15	100	20	50	N	N
70	1,500	1.0	N	15	100	20	50	N	N
100	2,000	1.0	N	20	150	30	70	N	30
100	1,500	1.5	N	15	100	20	30	<5	20
100	1,500	1.0	N	20	150	50	50	7	20
20	500	<1.0	N	7	30	15	N	N	N
100	1,000	1.0	N	15	70	30	30	<5	N
100	2,000	1.0	N	20	100	50	50	<5	30
100	2,000	1.0	N	30	200	50	50	N	<20
100	2,000	1.0	N	30	200	30	30	5	<20
70	1,000	<1.0	N	20	1,000	50	50	N	N
100	1,500	<1.0	N	20	100	30	50	N	<20
70	1,500	<1.0	N	15	100	20	30	N	N
50	1,000	1.0	N	10	50	20	30	<5	N
70	1,500	1.0	N	15	100	15	50	N	<20
50	1,500	<1.0	N	15	100	50	30	N	<20
70	2,000	1.0	N	10	150	15	50	N	N
70	2,000	1.0	N	15	150	30	30	N	<20
50	1,000	1.0	N	10	70	15	N	<5	N
70	2,000	1.0	N	10	150	20	50	N	<20
70	2,000	1.0	N	15	150	50	50	<5	<20
70	700	1.0	N	10	70	15	30	N	N
50	700	1.0	N	10	50	15	N	N	N
70	2,000	1.0	N	10	100	50	50	N	N
70	2,000	1.0	N	20	150	50	50	N	N
70	2,000	1.0	N	15	150	50	50	7	N
30	700	1.0	N	10	50	15	N	<5	N
70	1,500	1.0	N	15	100	30	50	<5	N
100	2,000	<1.0	N	20	200	50	70	N	N
70	2,000	1.0	N	15	150	20	50	N	N
100	2,000	1.0	N	20	150	50	50	N	<20
70	2,000	1.0	N	15	150	20	50	N	<20
70	1,500	1.0	N	15	100	20	30	N	<20
70	1,500	1.0	N	15	150	20	50	N	N
70	1,500	<1.0	N	10	150	15	20	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
50	20	20	N	200	150	N	50	N	300	N
30	20	20	N	300	200	N	50	N	500	N
50	20	20	N	300	150	N	50	N	200	N
30	50	20	N	500	200	N	50	N	300	N
50	30	20	N	300	150	N	30	N	150	N
30	20	20	N	300	150	N	30	N	500	N
30	20	20	N	300	200	N	50	N	700	N
30	15	20	N	200	150	N	50	N	200	N
30	30	20	N	300	150	N	50	N	500	N
30	20	15	N	200	150	N	50	N	300	N
50	20	20	N	<100	200	N	30	N	150	N
30	15	20	N	200	150	N	50	N	200	N
30	30	20	N	200	200	N	70	N	700	N
50	20	15	30	100	150	N	50	N	500	N
50	70	20	50	200	150	N	70	N	500	N
10	10	10	N	300	30	N	10	N	50	N
30	20	15	N	100	150	N	30	N	200	N
50	30	30	<10	200	200	N	70	N	500	N
50	50	20	N	200	200	N	50	N	500	N
50	30	30	20	200	300	N	50	N	300	N
100	30	30	N	200	200	N	50	N	300	N
30	20	20	N	200	150	N	50	N	300	N
30	15	15	N	200	150	N	30	N	200	N
30	20	15	N	150	150	N	30	N	200	N
30	20	20	N	300	150	N	50	N	300	N
50	15	20	N	300	200	N	50	N	200	N
30	15	20	N	300	100	N	50	N	300	N
50	20	20	20	500	150	N	50	N	200	N
30	10	15	N	200	100	N	30	N	150	N
30	20	20	N	300	150	N	50	N	500	N
50	20	20	<10	300	200	N	50	N	200	N
30	10	15	N	150	150	N	30	N	150	N
30	10	15	N	200	100	N	20	N	100	N
30	20	20	N	300	150	N	30	N	200	N
30	20	20	N	300	200	N	50	N	200	N
50	20	20	100	300	200	N	50	N	200	N
30	15	10	N	100	100	N	30	N	150	N
30	20	20	N	300	150	N	50	N	300	N
50	20	20	<10	500	200	N	70	N	200	N
50	20	20	N	500	150	N	50	N	300	N
50	20	20	N	300	150	N	30	N	200	N
30	15	20	N	300	200	N	30	N	200	N
30	20	15	N	300	150	N	50	N	300	N
30	20	15	N	300	150	N	50	N	300	N
30	15	15	N	300	100	N	30	N	300	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF MORE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 43 44	147 22 49	5.00	1.50	3.0	.700	1,000	N	N
65 35 26	148 23 51	7.00	2.00	3.0	>1.000	1,000	N	N
65 43 49	148 26 15	5.00	1.50	3.0	1.000	1,000	N	N
65 56 57	148 23 33	5.00	1.50	3.0	1.000	1,000	N	N
65 58 5	148 24 15	.20	.15	2.0	.050	300	N	N
65 59 35	148 22 41	7.00	2.00	3.0	1.000	700	N	N
65 59 49	148 30 46	5.00	1.50	3.0	1.000	500	N	N
65 58 51	148 32 31	7.00	2.00	3.0	1.000	1,000	N	N
65 57 33	148 32 3	1.00	.50	3.0	.300	300	N	N
65 55 59	148 30 24	7.00	1.50	3.0	1.000	2,000	<.5	N
65 54 1	148 31 12	10.00	2.00	1.0	.700	2,000	N	N
65 51 29	148 31 59	10.00	2.00	3.0	1.000	2,000	N	N
65 43 48	148 30 33	5.00	1.50	3.0	.700	500	N	N
65 39 34	148 20 39	10.00	1.50	3.0	.700	700	N	N
65 54 56	148 8 30	7.00	1.50	3.0	1.000	500	N	N
65 57 47	148 4 50	5.00	1.50	2.0	.700	500	<.5	N
65 59 13	148 2 52	5.00	1.50	3.0	1.000	500	N	N
65 58 0	147 56 40	10.00	3.00	3.0	1.000	2,000	N	N
65 37 30	148 33 45	1.00	.20	3.0	.100	500	N	N
65 50 45	148 21 29	7.00	1.50	2.0	.700	700	N	N
65 52 3	148 27 5	10.00	1.50	3.0	.700	700	<.5	N
65 56 16	148 17 32	5.00	1.50	3.0	1.000	500	N	N
65 55 41	148 14 35	7.00	1.50	2.0	1.000	1,000	N	N
65 58 40	148 20 25	10.00	1.50	2.0	1.000	1,500	N	N
65 58 17	148 36 47	10.00	2.00	3.0	1.000	1,500	N	N
65 49 18	148 40 44	7.00	1.50	3.0	1.000	700	N	N
65 48 8	148 38 20	7.00	1.50	2.0	.700	1,000	N	N
65 45 2	148 36 55	7.00	1.50	3.0	1.000	1,000	N	N
65 35 41	148 36 56	5.00	1.50	3.0	.700	500	N	N
65 58 18	148 50 13	5.00	2.00	3.0	1.000	700	N	N
65 59 8	147 49 58	3.00	1.50	2.0	.700	500	N	N
65 59 29	147 50 26	7.00	1.50	1.5	.700	1,500	N	N
65 59 51	147 43 18	5.00	1.50	5.0	.700	500	N	N
65 59 56	147 39 38	3.00	1.50	3.0	.500	500	N	N
65 56 21	147 19 46	1.00	.20	.7	.100	150	N	N
65 46 24	147 43 36	2.00	.70	1.0	.200	200	<.5	N
65 33 50	148 41 57	3.00	1.50	2.0	.700	300	N	N
65 34 23	148 41 36	3.00	1.50	1.5	.500	200	N	N
65 36 55	148 53 57	5.00	2.00	2.0	.700	700	N	N
65 36 12	148 53 53	3.00	1.50	1.5	.500	500	N	N
65 39 51	148 59 22	2.00	.70	1.0	.500	200	N	N
65 44 35	148 48 0	7.00	2.00	1.5	.500	700	N	N
65 51 35	149 46 17	7.00	2.00	2.0	.500	1,000	<.5	N
65 50 54	149 54 23	2.00	.70	.7	.300	200	N	N
65 59 56	147 36 37	3.00	1.50	1.0	.700	300	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
70	1,500	1.0	N	10	100	15	N	N	N
100	2,000	<1.0	N	15	200	30	70	N	<20
100	1,500	<1.0	N	15	200	20	50	N	<20
100	2,000	1.0	N	15	200	20	70	N	<20
<10	200	<1.0	<10	N	N	<5	N	N	N
100	2,000	1.0	N	15	200	50	30	<5	N
70	1,500	1.0	N	15	150	50	50	N	N
100	1,500	<1.0	N	20	200	30	50	N	<20
20	1,000	1.5	N	N	30	100	N	N	N
100	2,000	<1.0	N	20	200	30	50	N	N
150	2,000	1.0	N	30	300	30	20	<5	N
100	2,000	1.0	N	20	200	50	50	N	N
70	2,000	1.0	N	15	150	30	50	<5	N
70	2,000	1.0	N	15	200	50	30	N	N
100	2,000	1.0	N	15	200	30	70	N	<20
70	1,500	1.0	N	20	150	50	30	N	<20
70	2,000	<1.0	N	10	200	20	50	N	<20
50	2,000	<1.0	N	20	300	50	20	N	N
<10	500	1.0	N	7	20	15	N	N	N
70	2,000	1.0	N	15	150	30	50	N	N
100	2,000	1.0	N	20	150	50	50	N	N
70	1,500	1.0	N	10	200	30	50	N	<20
100	1,500	<1.0	N	15	150	20	50	N	20
100	2,000	1.0	N	20	300	20	50	7	20
100	2,000	1.0	N	20	300	30	50	N	30
100	2,000	1.0	N	15	150	20	50	N	<20
100	1,500	1.0	N	15	150	20	50	5	<20
100	2,000	<1.0	N	15	200	15	50	N	<20
50	1,500	1.0	N	15	100	50	30	7	N
70	2,000	<1.0	N	15	200	50	70	7	<20
50	1,500	1.0	N	15	100	20	N	10	N
100	3,000	1.0	N	15	150	20	70	7	N
70	1,500	1.0	N	15	100	30	50	<5	N
70	1,500	1.0	N	15	100	20	50	<5	N
20	300	1.0	N	N	10	15	N	N	N
50	700	<1.0	N	7	70	20	N	10	N
70	1,000	<1.0	N	10	100	20	50	<5	N
70	1,000	<1.0	N	10	100	20	50	N	N
50	1,000	N	N	10	100	50	N	<5	N
50	1,000	1.0	N	10	100	20	50	N	N
30	700	1.0	N	7	50	20	20	N	N
50	1,500	<1.0	N	10	100	50	20	N	N
70	1,000	<1.0	N	15	100	50	20	5	N
30	700	1.0	N	10	70	20	<20	7	N
50	1,000	<1.0	N	15	100	20	50	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
30	15	15	N	300	150	N	30	N	200	N
30	20	20	N	300	200	N	70	N	1,000	N
30	20	20	N	300	150	N	50	N	1,000	N
30	20	20	N	300	150	N	50	N	300	N
7	<10	N	N	N	20	N	10	N	20	N
50	20	20	N	300	200	N	50	N	300	N
50	15	20	N	200	150	N	30	N	300	N
30	30	20	N	200	200	N	50	N	700	N
20	20	15	N	<100	150	N	30	N	100	N
30	20	20	N	300	300	N	70	N	1,000	N
100	20	20	30	150	300	N	30	N	200	N
30	30	20	N	200	300	N	50	N	300	N
50	20	20	<10	200	200	N	50	N	300	N
50	30	20	N	200	200	N	50	N	200	N
50	30	20	N	300	200	N	50	N	200	N
50	30	20	N	200	150	N	30	N	150	N
30	20	15	N	300	150	N	30	N	300	N
50	20	20	10	200	150	N	30	<200	200	N
20	<10	5	N	100	50	N	20	N	50	N
30	20	20	<10	200	150	N	50	<200	300	N
50	20	20	15	200	150	N	50	<200	200	N
20	20	20	N	200	200	N	30	N	500	N
50	20	15	15	200	150	N	30	N	500	N
70	20	20	50	200	200	N	30	N	300	N
50	20	20	N	200	200	N	30	N	300	N
50	20	20	N	300	200	N	50	N	300	N
50	30	15	20	200	150	N	30	N	200	N
50	20	20	N	300	200	N	50	300	300	N
50	30	15	<10	200	200	N	30	<200	200	N
50	30	15	50	300	200	N	50	N	500	N
50	15	15	<10	200	150	N	30	N	200	N
50	30	15	20	150	200	N	30	200	200	N
50	20	15	50	200	150	N	50	N	300	N
30	20	15	N	300	150	N	30	N	200	N
10	10	5	N	<100	70	N	<10	N	100	N
50	20	10	20	150	100	N	20	N	150	N
30	15	15	<10	300	100	N	50	N	500	N
30	20	15	N	200	150	N	30	N	200	N
50	30	10	10	100	150	N	20	N	300	N
30	20	15	<10	300	150	N	30	N	200	N
20	10	10	N	150	100	N	20	N	150	N
30	15	10	N	200	150	N	20	200	200	N
50	20	10	N	200	100	N	20	N	200	N
30	15	10	10	200	100	N	20	N	100	N
30	20	15	<10	200	100	N	30	N	200	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENBOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 59 56	147 30 16	10.00	2.00	2.0	.700	700	<.5	N
65 59 14	147 27 47	5.00	1.00	.7	.500	500	N	N
65 56 54	147 24 21	5.00	1.00	1.5	.500	70	N	N
65 57 23	147 23 17	7.00	1.00	1.0	.700	1,000	N	N
65 59 44	147 20 25	5.00	1.50	2.0	.500	700	N	N
65 59 13	147 17 51	5.00	1.50	1.5	.500	500	N	N
65 59 40	147 15 33	5.00	1.50	2.0	.500	500	N	N
65 58 40	147 14 22	5.00	1.50	1.0	.300	500	N	N
65 58 36	147 10 8	5.00	1.50	1.5	.500	1,000	N	N
65 58 58	147 3 7	3.00	1.50	2.0	.700	500	N	N
65 34 56	148 41 43	5.00	1.50	3.0	.500	500	N	N
65 35 35	148 44 2	3.00	1.50	3.0	.500	700	N	N
65 35 24	148 49 0	5.00	1.50	3.0	.500	700	N	N
65 35 8	148 51 3	5.00	1.50	1.5	.500	500	N	N
65 37 37	148 56 9	7.00	1.50	.5	.500	500	<.5	N
65 39 29	148 58 14	2.00	1.50	1.5	.700	500	N	N
65 40 45	148 58 46	10.00	1.50	1.0	.500	500	N	N
65 41 18	148 58 22	2.00	1.50	1.5	.500	500	N	N
65 41 30	148 56 36	5.00	1.50	2.0	.300	700	N	N
65 41 23	148 54 11	5.00	1.50	1.0	.500	300	N	N
65 41 35	148 48 42	5.00	1.50	1.5	.500	500	N	N
65 41 41	148 46 50	5.00	1.50	1.0	.500	500	N	N
65 42 38	148 43 31	5.00	1.50	1.0	.300	300	N	N
65 42 56	148 41 36	5.00	1.50	3.0	.500	700	N	N
65 42 56	148 40 30	5.00	2.00	2.0	.700	500	N	N
65 44 56	148 37 5	3.00	1.50	1.5	.700	300	N	N
65 45 2	148 37 47	5.00	1.50	2.0	.500	500	N	N
65 40 14	149 3 56	5.00	2.00	5.0	.500	700	N	N
65 40 4	149 5 18	3.00	1.50	1.5	.500	500	N	N
65 40 33	149 10 10	2.00	1.50	2.0	.300	700	N	N
65 42 35	149 3 29	2.00	1.00	2.0	.300	500	N	N
65 43 27	149 1 32	3.00	1.50	2.0	.700	500	N	N
65 43 37	148 57 52	3.00	2.00	3.0	.700	1,000	N	N
65 43 54	148 55 15	5.00	1.50	3.0	.700	1,000	N	N
65 43 19	148 54 1	5.00	1.50	2.0	.700	700	N	N
65 46 1	148 44 44	5.00	1.50	3.0	.700	500	<.5	N
65 46 41	148 42 46	3.00	1.50	3.0	.700	500	N	N
65 47 44	148 41 47	3.00	1.50	2.0	.700	500	N	N
65 48 24	148 41 53	3.00	2.00	5.0	.500	700	N	N
65 48 57	149 21 46	5.00	2.00	5.0	.700	1,000	N	N
65 52 50	149 6 51	2.00	1.00	2.0	.700	500	N	N
65 56 12	149 7 6	5.00	1.50	3.0	.700	700	N	N
65 55 46	149 1 56	7.00	2.00	5.0	.500	1,000	N	N
65 56 29	148 58 24	3.00	1.50	3.0	.700	500	N	N
65 56 18	148 56 48	2.00	1.50	3.0	.700	500	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
100	1,000	<1.0	N	20	200	20	70	N	<20
100	1,000	1.0	N	15	100	10	70	N	N
50	1,000	<1.0	N	15	100	15	50	<5	N
50	1,000	1.0	N	20	150	30	50	N	N
50	1,500	<1.0	N	10	70	20	50	N	N
50	1,000	<1.0	N	15	100	20	50	N	N
70	1,500	1.0	N	15	100	20	70	N	N
50	1,000	<1.0	N	10	50	20	30	N	N
50	1,500	<1.0	N	15	70	15	50	N	N
70	1,000	1.0	N	15	150	15	50	<5	<20
70	1,000	1.0	N	15	150	20	30	<5	<20
50	1,000	1.0	N	15	100	20	50	N	N
70	1,000	1.0	N	15	150	20	50	N	N
70	1,000	1.0	N	20	150	20	50	<5	<20
70	1,000	<1.0	N	20	200	70	N	<5	N
70	1,500	1.0	N	15	100	30	50	N	<20
50	1,500	<1.0	N	10	100	30	50	N	N
70	1,500	<1.0	N	15	150	30	50	<5	<20
70	1,500	1.0	N	10	70	20	20	N	N
70	1,000	1.0	N	15	150	20	30	N	N
100	1,500	1.0	N	15	100	30	50	N	<20
70	1,000	1.0	N	15	150	30	N	N	N
70	1,500	1.0	N	15	150	20	30	N	N
100	1,500	1.0	N	10	100	20	30	N	N
100	1,500	1.0	N	15	100	30	50	N	<20
100	1,500	<1.0	N	7	150	20	30	N	N
70	1,500	1.0	N	15	70	30	50	N	N
70	1,000	<1.0	N	15	150	20	30	N	N
70	1,000	1.0	N	10	100	20	50	<5	<20
70	700	1.0	N	10	70	20	N	N	N
20	1,000	1.0	N	7	50	20	N	N	N
70	1,000	1.0	N	10	100	20	N	N	N
70	1,500	1.0	N	15	100	15	30	N	N
70	1,000	1.0	N	15	150	30	30	<5	N
70	1,500	1.0	N	15	150	30	50	N	<20
70	1,000	1.0	N	15	100	30	50	N	N
70	1,000	<1.0	N	15	100	20	30	N	N
70	1,500	1.0	N	10	70	30	30	N	N
50	1,000	<1.0	N	15	100	10	N	N	N
70	1,500	1.0	N	15	150	30	30	N	N
70	1,000	1.5	N	7	100	20	50	<5	N
70	1,500	1.0	N	15	100	20	30	N	N
100	1,500	1.0	N	20	100	50	50	N	N
70	1,000	<1.0	N	15	100	15	50	N	<20
70	1,500	1.0	N	15	70	20	50	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
70	50	15	N	300	200	N	50	300	500	N
30	<10	10	N	150	70	N	30	N	300	N
20	15	15	<10	200	150	N	30	N	500	N
50	20	20	20	200	150	N	50	N	200	N
20	20	20	10	200	100	N	30	N	200	N
30	20	15	<10	200	100	N	30	N	150	N
30	15	15	15	200	100	N	30	N	200	N
20	10	10	N	100	150	N	20	N	200	N
20	15	15	N	200	100	N	30	N	150	N
30	15	15	N	200	100	N	50	N	500	N
50	20	15	10	200	100	N	30	N	200	N
30	15	15	N	200	100	N	30	N	150	N
30	15	15	N	300	100	N	30	N	200	N
50	20	15	N	200	100	N	50	N	200	N
70	20	20	N	<100	150	N	20	200	150	N
30	20	20	N	200	150	N	20	N	200	N
20	15	10	N	200	100	N	15	N	100	N
30	20	15	N	200	100	N	30	N	200	N
30	10	10	N	200	70	N	30	N	150	N
50	20	10	<10	150	100	N	30	N	200	N
50	20	15	N	150	150	N	50	N	200	N
50	20	15	N	150	100	N	30	<200	150	N
50	20	15	N	150	100	N	30	N	100	N
50	20	15	N	200	100	N	30	N	150	N
50	20	15	N	200	150	N	50	N	200	N
50	20	20	15	200	100	N	30	N	200	N
30	20	20	N	200	100	N	30	N	200	N
30	15	15	N	300	100	N	30	N	150	N
30	15	15	N	200	100	N	30	N	200	N
30	10	7	N	200	100	N	15	N	150	N
20	<10	5	N	N	100	N	10	N	150	N
30	15	15	N	200	100	N	50	N	300	N
30	20	15	N	300	100	N	30	N	300	N
50	15	15	N	200	150	N	50	N	300	N
50	20	20	20	200	150	N	50	N	500	N
50	15	15	N	200	100	N	30	N	200	N
30	15	15	N	200	100	N	30	N	200	N
30	20	15	N	300	150	N	30	N	200	N
30	15	15	N	300	100	N	30	N	200	N
50	20	15	N	200	150	N	30	N	300	N
30	20	15	N	200	100	N	30	N	200	N
30	20	15	N	300	150	N	30	N	200	N
50	30	20	N	200	150	N	50	N	150	N
30	15	15	N	200	100	N	30	N	500	N
50	15	20	N	300	100	N	30	N	150	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 55 20	148 54 56	3.00	2.00	5.0	.700	700	N	N
65 55 6	148 53 25	5.00	2.00	2.0	.700	500	N	N
65 56 11	148 46 27	2.00	1.50	1.5	.500	300	N	N
65 59 57	148 43 24	.20	.10	2.0	.015	70	<.5	N
65 58 28	148 53 12	3.00	1.50	1.5	.500	300	N	N
65 59 40	148 52 54	7.00	2.00	3.0	.700	1,000	<.5	N
65 59 30	148 55 27	10.00	3.00	2.0	.700	1,000	<.5	N
65 57 19	148 57 12	3.00	1.50	2.0	.700	500	N	N
65 57 51	149 4 17	7.00	1.50	1.5	.500	700	<.5	N
65 59 49	149 7 27	7.00	3.00	3.0	.700	1,000	N	N
65 58 45	149 10 6	7.00	2.00	2.0	.500	700	N	N
65 59 42	149 10 57	7.00	1.50	1.0	.700	500	<.5	N
65 56 26	149 10 59	5.00	2.00	3.0	.500	1,000	N	N
65 56 38	149 17 22	7.00	2.00	3.0	.700	1,000	<.5	N
65 57 42	149 18 47	7.00	3.00	3.0	.700	1,000	<.5	N
65 52 51	149 49 55	3.00	1.50	1.5	.500	500	N	N
65 54 19	149 47 56	1.50	1.00	2.0	.300	200	<.5	N
65 55 59	149 54 9	5.00	1.50	2.0	.500	500	N	N
65 54 33	149 58 45	3.00	1.50	1.5	.500	500	N	N
65 53 31	149 59 17	2.00	1.50	2.0	.500	300	N	N
65 53 30	149 51 33	5.00	1.50	1.5	.500	300	N	N
65 50 17	149 43 36	5.00	2.00	3.0	.500	1,000	N	N
65 41 44	149 39 24	5.00	2.00	3.0	.500	1,000	N	N
65 39 15	149 43 15	3.00	1.50	3.0	.500	500	N	N
65 43 4	149 32 3	3.00	1.50	1.0	.500	500	<.5	N
65 43 45	149 28 27	5.00	1.50	1.0	.500	500	<.5	N
65 42 55	149 22 17	5.00	1.50	2.0	.500	700	<.5	N
65 40 46	149 22 1	5.00	1.50	2.0	.500	500	N	N
65 41 8	149 27 33	5.00	1.50	1.5	.500	1,000	N	N
65 39 7	149 31 26	5.00	1.50	1.5	.500	500	N	N
65 38 30	149 37 12	5.00	1.50	1.5	.500	500	N	N
65 37 36	149 38 30	3.00	1.50	2.0	.500	300	N	N
65 35 20	149 32 45	3.00	1.50	3.0	.500	500	N	N
65 35 47	149 29 58	3.00	1.50	2.0	.500	300	N	N
65 34 56	149 20 36	2.00	1.50	2.0	.500	300	N	N
65 34 45	149 8 58	3.00	1.50	2.0	.500	300	N	N
65 35 3	149 5 27	3.00	1.50	3.0	.500	500	N	N
65 31 15	148 55 59	7.00	1.50	1.0	.500	1,000	<.5	N
65 52 59	149 13 20	3.00	1.50	1.5	.500	500	N	N
65 53 35	149 13 18	3.00	1.50	5.0	.300	700	N	N
65 51 3	149 50 49	5.00	1.00	2.0	.300	700	N	N
65 36 51	149 52 32	2.00	1.00	1.0	.300	500	N	N
65 43 24	149 48 52	2.00	1.00	1.0	.200	500	N	N
65 43 54	149 45 39	.10	.05	.5	.020	200	N	N
65 45 8	149 46 22	1.50	.70	.7	.200	700	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
70	1,500	<1.0	N	15	100	30	50	N	N
100	1,500	<1.0	N	20	100	50	50	7	N
70	1,000	1.0	N	10	100	30	N	<5	N
<10	100	<1.0	N	N	<10	5	20	N	N
50	1,000	1.0	N	15	70	50	30	<5	N
100	1,500	1.0	N	20	150	50	50	N	<20
100	1,500	<1.0	N	20	200	100	N	<5	<20
70	1,500	<1.0	N	10	150	20	50	N	<20
100	1,500	1.5	N	15	100	50	50	<5	<20
70	1,000	<1.0	N	20	150	50	50	<5	N
70	1,000	1.0	N	20	150	50	30	N	<20
150	1,500	1.5	N	15	150	50	50	N	<20
70	1,000	1.0	N	15	100	30	50	<5	<20
100	1,500	<1.0	N	20	150	50	50	<5	N
100	1,000	1.0	N	20	200	50	50	N	<20
70	1,000	1.5	N	10	70	20	N	N	N
50	700	1.0	N	7	50	30	N	<5	N
70	1,000	1.0	N	15	150	30	30	N	N
100	1,000	1.5	N	15	70	30	50	N	<20
70	1,000	1.0	N	10	70	30	50	<5	N
100	1,000	1.0	N	10	150	50	50	<5	N
50	1,000	<1.0	N	15	150	30	30	N	N
50	1,000	1.0	N	15	100	30	50	N	<20
70	1,000	1.0	N	15	150	15	30	N	N
70	1,000	1.0	<10	15	100	20	50	<5	N
100	1,000	1.0	N	15	150	30	50	N	N
70	1,000	1.0	N	15	100	20	30	N	N
70	1,000	1.0	N	15	100	20	30	N	<20
70	1,000	<1.0	N	15	200	15	20	N	N
70	1,000	1.0	N	15	100	20	50	N	<20
100	1,000	1.0	N	15	100	20	50	N	<20
70	1,000	1.0	N	15	70	15	50	N	<20
70	1,000	1.5	N	10	70	20	30	N	N
70	1,000	1.0	N	10	100	20	50	N	N
70	1,000	1.0	N	7	70	15	50	N	<20
70	1,000	1.0	N	15	70	20	50	<5	N
70	1,500	<1.0	N	15	100	20	50	N	<20
100	1,500	1.0	N	20	150	30	50	<5	<20
70	1,000	1.0	N	15	100	20	30	<5	N
50	1,000	1.0	N	15	70	20	N	<5	N
70	1,000	1.0	N	15	70	20	30	5	N
70	1,000	<1.0	N	15	70	20	50	N	N
70	1,000	<1.0	N	10	70	20	50	N	N
<10	150	<1.0	N	<5	<10	7	N	N	N
50	1,000	<1.0	N	5	20	20	N	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF MURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
50	20	15	N	300	150	N	50	N	200	N
70	30	20	N	200	150	N	50	N	150	N
50	15	20	N	200	100	N	30	<200	150	N
N	N	N	N	N	15	N	N	N	10	N
50	15	10	20	150	150	N	20	N	150	N
50	30	15	N	200	200	N	30	N	150	N
50	50	20	N	<100	300	N	30	N	150	N
20	20	15	N	200	150	N	30	N	200	N
50	30	20	N	150	200	N	30	N	150	N
50	20	15	N	300	150	N	30	N	150	N
50	30	15	10	200	200	N	30	N	200	N
50	30	20	<10	200	200	N	30	<200	200	N
50	20	15	N	300	200	N	30	N	200	N
50	30	20	N	300	200	N	30	N	150	N
50	30	20	N	200	200	N	30	N	200	N
30	20	20	N	200	150	N	30	N	150	N
30	10	10	20	100	100	N	20	N	150	N
30	15	15	N	200	200	N	30	N	300	N
30	30	15	N	200	150	N	30	N	300	N
30	15	15	N	150	150	N	20	N	150	N
50	50	15	20	150	150	N	20	N	200	N
30	15	10	N	500	150	N	20	N	300	N
30	15	10	N	300	150	N	20	N	300	N
30	15	15	N	200	100	N	30	N	150	N
50	20	15	15	200	100	N	30	<200	150	N
50	20	N	N	150	100	N	20	N	150	N
50	20	15	N	200	100	N	20	N	150	N
50	20	20	N	200	150	N	30	N	200	N
50	15	15	N	200	100	N	20	N	150	N
50	20	15	N	200	150	N	30	N	200	N
50	20	15	N	200	150	N	30	N	200	N
50	15	15	N	200	100	N	30	N	200	N
30	15	15	N	200	100	N	20	N	150	N
30	15	15	N	200	100	N	30	N	200	N
30	15	15	N	200	100	N	30	N	300	N
30	20	15	N	200	100	N	30	N	200	N
30	15	15	N	300	150	N	30	N	200	N
50	30	20	N	200	150	N	30	N	200	N
30	20	15	N	200	150	N	30	N	200	N
50	15	15	<10	200	100	N	20	N	100	N
50	15	10	N	200	100	N	20	N	150	N
30	20	20	10	300	100	N	30	N	200	N
30	20	15	N	200	100	N	30	N	150	N
5	10	<5	N	<100	15	N	N	N	20	N
20	15	10	N	150	100	N	20	N	100	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 45 39	149 55 59	1.50	1.00	1.0	.300	300	N	N
65 45 26	149 53 35	3.00	1.00	1.5	.500	500	<.5	N
65 21 20	149 58 29	2.00	.70	1.0	.500	300	N	N
65 20 18	149 58 55	3.00	1.50	2.0	.500	500	N	N
65 11 34	149 55 59	.50	.15	1.5	.050	200	N	N
65 12 20	149 57 3	2.00	1.50	2.0	.500	500	<.5	N
65 13 19	149 56 17	2.00	1.00	1.0	.500	500	N	N
65 13 42	149 59 20	1.00	.70	.5	.200	200	N	N
65 14 26	149 58 50	2.00	1.00	.7	.500	300	<.5	N
65 15 25	149 55 17	2.00	1.00	.7	.200	200	<.5	N
65 17 13	149 54 33	2.00	1.00	1.5	.300	500	N	N
65 16 39	149 53 11	3.00	1.50	3.0	.200	500	N	N
65 17 49	149 53 44	3.00	1.50	2.0	.300	500	N	N
65 18 5	149 49 8	3.00	1.50	2.0	.300	500	N	N
65 18 47	149 51 12	2.00	1.00	2.0	.300	500	N	N
65 21 30	149 46 59	3.00	1.50	2.0	.500	500	N	N
65 20 59	149 45 44	3.00	1.00	1.0	.500	500	<.5	N
65 21 21	149 43 36	2.00	.50	.7	.200	200	N	N
65 22 49	149 41 27	2.00	1.00	1.0	.500	200	N	N
65 24 51	149 42 57	3.00	.70	.7	.700	300	1.0	N
65 24 56	149 40 8	2.00	.50	.3	.300	1,000	2.0	N
65 26 51	149 40 0	2.00	.70	.2	.500	200	N	N
65 29 26	149 39 55	3.00	1.00	1.0	.700	500	N	N
65 29 43	149 35 29	3.00	1.00	1.0	.700	1,000	N	N
65 29 44	149 29 8	5.00	1.00	1.5	.500	300	<.5	N
65 23 31	149 19 45	5.00	1.50	1.5	.700	300	<.5	N
65 22 45	149 22 15	7.00	1.50	1.0	.500	300	.5	N
65 22 4	149 24 52	7.00	1.50	1.5	.500	700	<.5	N
65 20 44	149 29 43	5.00	1.50	.5	.500	700	.5	N
65 20 11	149 32 44	7.00	2.00	1.0	.500	500	<.5	N
65 18 38	149 34 41	5.00	1.00	.7	.500	500	.5	N
65 16 59	149 38 53	7.00	1.50	1.0	.500	500	<.5	N
65 11 47	149 42 33	7.00	1.50	.7	.500	1,500	<.5	N
65 8 29	149 52 31	10.00	1.50	1.0	.500	500	.5	N
65 7 38	149 55 2	7.00	1.00	1.0	.500	500	<.5	N
65 6 39	149 44 16	7.00	1.50	1.0	.700	700	2.0	N
65 31 46	149 2 56	2.00	1.00	1.0	.300	500	<.5	N
65 32 5	149 8 56	2.00	1.00	1.0	.500	500	N	N
65 32 40	149 20 50	1.50	1.00	.7	.500	300	<.5	N
65 32 16	149 27 6	5.00	2.00	1.0	.500	700	<.5	N
65 32 17	149 34 14	2.00	1.00	1.0	.500	500	<.5	N
65 31 50	149 57 18	3.00	1.00	1.0	.500	500	N	N
65 34 33	149 58 54	2.00	1.00	.7	.500	500	N	N
65 37 3	149 59 17	3.00	1.00	1.0	.500	300	<.5	N
65 39 12	149 59 22	2.00	1.00	1.0	.500	300	<.5	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
70	1,000	<1.0	N	10	70	20	30	N	N
70	1,500	<1.0	N	15	100	20	50	N	N
50	700	<1.0	N	7	50	15	20	N	N
100	1,000	<1.0	N	15	70	20	30	N	N
10	300	<1.0	N	<5	<10	7	<20	N	N
50	1,000	<1.0	N	15	100	20	50	N	N
70	700	<1.0	N	10	100	20	N	N	N
70	1,000	<1.0	N	5	50	15	N	N	N
100	1,500	<1.0	N	10	50	20	50	N	N
70	1,000	<1.0	N	10	70	20	30	<5	N
70	1,500	<1.0	N	10	50	20	50	N	N
70	1,500	<1.0	N	10	200	20	50	N	N
70	1,500	<1.0	N	10	70	15	30	N	N
70	1,500	<1.0	N	10	50	20	50	N	N
50	1,000	<1.0	N	7	70	15	20	N	N
70	1,500	<1.0	N	10	150	20	50	N	N
70	1,500	<1.0	N	15	100	20	30	N	N
30	500	<1.0	N	5	50	10	N	N	N
70	1,000	<1.0	N	10	100	20	30	5	N
100	1,000	<1.0	N	20	70	20	30	<5	N
100	1,000	<1.0	N	15	50	20	20	N	N
50	1,000	N	N	10	50	15	50	N	N
70	1,500	<1.0	N	15	150	15	50	N	<20
70	1,500	<1.0	N	20	200	30	70	<5	<20
70	1,500	<1.0	N	20	200	30	50	<5	N
100	1,500	N	N	20	200	50	30	<5	N
100	2,000	<1.0	N	20	200	50	70	N	N
70	1,500	<1.0	N	20	200	50	50	<5	N
70	1,500	<1.0	N	15	200	30	50	<5	N
70	1,500	<1.0	N	20	200	50	50	N	N
70	2,000	<1.0	N	15	100	50	100	<5	N
70	2,000	<1.0	N	20	300	30	100	5	N
200	2,000	<1.0	N	20	100	50	30	10	<20
150	3,000	<1.0	N	20	300	50	100	5	<20
100	2,000	<1.0	N	20	150	20	50	<5	<20
150	3,000	<1.0	N	20	300	100	50	15	<20
70	1,000	<1.0	N	15	100	20	50	N	N
100	1,000	<1.0	N	20	150	20	70	N	N
100	1,000	<1.0	N	10	50	15	30	N	N
100	1,500	<1.0	N	20	100	30	50	<5	<20
50	1,000	<1.0	N	10	70	20	30	N	N
100	1,000	<1.0	N	20	100	20	50	N	N
70	1,000	<1.0	N	15	100	15	30	10	N
100	1,500	<1.0	N	15	100	20	30	N	N
70	1,500	<1.0	N	10	70	20	30	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
30	15	15	N	200	100	N	20	N	200	N
50	20	15	N	300	100	N	30	N	200	N
15	10	10	N	200	100	N	20	N	200	N
30	30	15	N	200	100	N	50	N	150	N
10	N	<5	N	<100	20	N	N	N	20	N
30	30	20	N	200	100	N	30	N	150	N
30	20	15	N	200	100	N	20	N	200	N
20	20	10	N	150	100	N	15	N	150	N
30	50	15	<10	200	100	N	30	N	150	N
30	30	15	10	150	100	N	20	N	150	N
30	20	15	N	300	100	N	20	N	200	N
30	50	20	N	300	100	N	20	N	200	N
30	20	20	N	200	100	N	20	N	200	N
30	20	15	N	200	100	N	20	N	200	N
20	15	15	N	200	100	N	20	N	200	N
20	20	20	N	200	100	N	30	N	200	N
30	20	20	N	200	100	N	30	N	200	N
10	10	7	N	100	70	N	15	N	150	N
20	30	20	N	200	100	N	20	N	150	N
50	70	20	N	150	100	N	30	N	300	N
50	100	15	N	100	100	N	20	<200	150	N
50	10	10	N	100	70	N	20	N	200	N
30	20	20	N	200	100	N	30	N	500	N
50	70	20	N	200	100	N	50	N	500	N
70	50	20	N	200	100	N	50	N	500	N
100	30	20	N	200	100	N	50	N	300	N
100	30	20	N	300	100	N	70	N	200	N
100	20	15	N	300	100	N	50	N	200	N
70	20	20	N	200	100	N	50	N	200	N
100	30	20	N	200	100	N	50	N	200	N
70	30	20	N	150	100	N	50	N	200	N
100	20	20	N	200	100	<50	50	N	1,000	N
70	70	20	N	200	100	N	50	N	200	N
100	100	20	N	300	100	N	70	N	500	N
50	20	20	N	200	100	N	50	N	500	N
100	50	20	N	200	150	N	50	<200	300	N
50	50	15	N	200	100	N	20	N	200	N
30	30	20	N	300	100	N	50	N	300	N
20	20	15	N	150	100	N	30	N	150	N
50	70	20	N	200	100	N	30	N	150	N
20	20	15	N	200	100	N	20	N	200	N
30	30	20	N	200	100	N	30	N	200	N
20	15	15	N	150	100	N	20	N	200	N
30	30	20	N	200	100	N	30	N	200	N
20	20	15	N	300	100	N	20	N	200	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENBOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 38 58	149 49 49	3.00	1.50	2.0	.500	500	N	N
65 40 4	149 45 46	2.00	1.00	1.0	.500	500	<.5	N
65 41 7	149 48 21	2.00	1.00	.7	.500	500	N	N
65 40 27	149 54 25	2.00	1.00	1.0	.500	1,000	N	N
65 37 22	149 50 21	5.00	1.50	1.5	.700	700	.5	N
65 26 12	149 41 48	5.00	1.50	1.5	.500	1,000	.7	N
65 30 15	149 22 33	3.00	1.00	1.0	.500	300	N	N
65 29 45	149 20 44	2.00	.70	1.0	.500	300	<.5	N
65 29 27	149 15 46	3.00	1.00	1.0	.500	300	N	N
65 4 18	149 58 56	3.00	1.00	1.0	.500	700	N	N
65 4 24	149 55 46	3.00	1.50	1.0	.500	300	N	N
65 4 39	149 53 31	3.00	1.50	2.0	.500	500	<.5	N
65 4 32	149 51 47	5.00	1.50	2.0	.300	500	<.5	N
65 6 5	149 50 13	5.00	1.50	2.0	.500	500	<.5	N
65 6 7	149 48 59	5.00	1.00	3.0	.500	500	N	N
65 4 45	149 49 23	3.00	1.00	2.0	.500	500	N	N
65 4 8	149 47 17	5.00	1.00	1.5	.500	500	<.5	N
65 3 57	149 43 53	5.00	1.00	2.0	.500	500	<.5	N
65 3 15	149 42 38	5.00	1.50	2.0	.500	500	<.5	N
65 2 38	149 42 38	7.00	1.50	2.0	.500	500	N	N
65 0 23	149 41 58	5.00	1.50	2.0	.500	1,000	N	N
65 0 59	149 41 8	2.00	.50	.7	.070	200	N	N
65 0 25	149 40 0	5.00	1.50	1.0	.500	200	2.0	N
65 0 50	149 38 2	5.00	2.00	1.0	.500	500	<.5	N
65 1 20	149 36 20	1.00	.70	.5	.150	200	N	N
65 1 45	149 33 56	3.00	1.00	1.0	.500	300	<.5	N
65 2 44	149 30 30	5.00	1.50	1.0	.500	500	<.5	N
65 3 39	149 33 5	1.50	.70	.7	.150	200	N	N
65 3 11	149 35 45	2.00	1.00	1.0	.200	300	N	N
65 6 7	149 44 26	3.00	1.00	1.0	.300	500	N	N
65 6 20	149 46 10	5.00	1.50	1.0	.500	500	<.5	N
65 10 32	149 31 51	3.00	.70	.7	.200	200	N	N
65 8 21	149 28 54	1.00	.70	.7	.150	200	N	N
65 8 39	149 26 38	1.50	.70	.7	.200	200	N	N
65 5 53	149 32 20	.20	.05	.2	.050	100	N	N
65 5 17	149 29 44	1.50	.70	.3	.150	200	N	N
65 5 17	149 25 26	1.50	1.00	.7	.200	200	N	N
65 5 57	149 24 6	1.50	.70	.5	.150	150	N	N
65 6 33	149 21 5	2.00	1.00	.5	.200	200	N	N
65 8 43	149 19 41	1.50	1.00	.5	.150	200	N	N
65 9 38	149 19 38	1.50	1.00	.5	.200	300	N	N
65 10 49	149 19 46	2.00	.70	.5	.200	200	N	N
65 11 15	149 22 59	1.50	.70	.5	.150	500	N	N
65 11 32	149 11 8	1.50	.70	.5	.200	150	N	N
65 11 29	149 13 51	1.50	.70	.5	.200	200	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
70	1,500	<1.0	N	15	100	20	30	N	N
70	1,500	<1.0	N	15	100	20	30	N	N
100	2,000	<1.0	N	15	150	20	50	<5	N
100	2,000	<1.0	N	20	150	20	50	<5	N
100	1,500	<1.0	N	20	100	20	70	N	<20
70	2,000	<1.0	N	20	200	20	70	N	N
70	1,500	<1.0	N	20	100	20	50	N	N
70	1,000	<1.0	N	10	50	15	20	N	N
70	1,000	<1.0	N	15	150	15	50	N	N
70	1,000	<1.0	N	15	70	15	30	N	N
70	1,500	<1.0	N	15	100	20	30	<5	N
70	1,500	N	N	10	100	20	30	10	N
70	1,500	<1.0	N	15	100	20	30	N	N
100	1,500	<1.0	N	15	70	30	50	N	N
100	1,500	<1.0	N	15	70	20	50	<5	N
50	700	<1.0	N	10	100	20	30	N	N
70	1,000	<1.0	N	15	100	20	30	N	N
70	1,500	<1.0	N	15	100	20	50	N	N
70	1,500	<1.0	N	15	100	15	50	N	N
70	1,500	<1.0	N	15	100	50	30	N	N
100	1,500	<1.0	N	20	100	20	50	N	N
20	500	<1.0	N	N	20	15	N	N	N
70	1,000	<1.0	N	15	100	30	50	N	N
50	1,500	<1.0	N	20	100	30	50	N	N
20	500	<1.0	N	N	30	15	N	N	N
100	1,500	<1.0	N	10	100	20	50	5	N
50	1,000	<1.0	N	15	50	30	30	5	N
20	700	<1.0	N	<5	20	15	<20	N	N
50	1,000	<1.0	N	10	30	15	20	5	N
50	1,500	<1.0	N	10	100	20	50	N	N
70	1,500	<1.0	N	15	200	30	30	<5	N
30	500	<1.0	N	10	50	15	30	N	N
20	300	<1.0	N	7	50	15	30	N	N
20	500	<1.0	N	10	50	10	50	<5	N
N	100	<1.0	N	N	10	5	N	N	N
50	300	<1.0	N	10	50	15	30	N	N
20	500	<1.0	N	10	50	20	20	N	N
20	500	<1.0	N	10	50	15	30	N	N
15	500	<1.0	N	10	50	20	20	N	N
20	500	<1.0	N	15	50	20	30	N	N
30	500	<1.0	N	15	30	15	30	N	N
20	500	<1.0	N	10	30	20	<20	N	N
20	500	<1.0	N	10	20	15	30	N	N
30	500	<1.0	N	10	50	20	30	N	N
50	500	<1.0	N	10	50	20	30	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF MURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
30	20	20	N	300	100	N	30	N	200	N
30	20	20	N	200	100	N	30	N	300	N
30	20	20	N	200	100	N	20	N	200	N
30	20	20	N	200	100	N	30	N	500	N
20	30	20	N	300	100	N	30	N	300	N
20	50	20	N	300	100	N	20	N	200	N
30	20	20	N	200	100	N	20	N	200	N
30	15	15	N	150	100	N	20	N	200	N
15	20	15	N	200	100	N	20	N	300	N
30	20	15	N	200	100	N	20	N	500	N
20	20	20	N	200	100	N	20	N	200	N
30	20	10	N	200	100	N	20	N	100	N
30	20	20	N	200	100	N	20	N	100	N
30	50	20	N	200	100	N	50	N	150	N
50	20	20	N	300	100	N	50	N	200	N
20	15	15	N	200	100	N	30	N	100	N
30	30	20	N	200	100	N	30	N	100	N
30	15	20	N	200	100	N	30	N	150	N
30	30	20	N	200	100	N	30	N	150	N
50	30	20	N	200	100	N	30	N	200	N
50	20	20	N	200	100	N	50	200	200	N
10	10	7	N	N	50	N	10	N	50	N
30	30	20	N	200	100	N	30	N	100	N
30	30	20	N	200	100	N	30	N	150	N
10	10	10	N	<100	70	N	10	N	70	N
30	20	20	N	200	100	N	50	N	200	N
50	30	20	N	200	100	N	30	N	100	N
15	<10	10	N	100	70	N	15	N	100	N
20	10	15	N	150	100	N	20	N	100	N
20	15	20	N	200	100	N	20	N	150	N
30	30	20	N	300	150	N	20	N	100	N
30	10	10	N	200	100	N	15	N	100	N
20	<10	7	N	200	50	N	15	N	70	N
20	<10	10	N	200	70	N	20	N	150	N
7	N	<5	N	N	20	N	N	N	20	N
30	10	10	N	200	70	N	15	N	100	N
20	10	7	N	200	100	N	10	N	150	N
20	<10	10	N	150	70	N	15	N	70	N
20	<10	10	N	150	70	N	15	N	100	N
30	10	10	N	200	70	N	15	N	100	N
20	10	10	N	100	70	N	20	N	100	N
20	N	10	N	150	70	N	15	N	70	N
20	<10	15	N	100	100	N	15	N	70	N
20	<10	10	N	100	100	N	15	N	100	N
20	10	10	N	100	100	N	20	N	100	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 10 55	149 16 55	1.00	.50	.5	.200	200	N	N
65 10 18	149 14 8	1.00	.50	.5	.200	150	N	N
65 9 51	149 13 45	1.00	.70	.5	.200	150	N	N
65 38 13	149 56 26	1.00	.30	.5	.100	200	N	N
65 46 14	149 52 24	1.50	1.00	.5	.200	150	N	N
65 46 22	149 55 23	1.00	1.00	.5	.200	200	N	N
65 18 59	149 12 8	5.00	1.50	2.0	.700	700	N	N
65 19 59	149 17 17	5.00	1.50	3.0	.700	1,000	<.5	N
65 14 29	148 50 53	5.00	1.50	3.0	.700	700	N	N
65 14 4	149 1 0	7.00	2.00	3.0	1.000	700	N	N
65 14 12	149 4 32	5.00	2.00	3.0	.700	1,000	N	N
65 13 59	149 7 6	7.00	2.00	3.0	1.000	1,000	N	N
65 0 42	148 6 20	5.00	1.50	1.5	.700	1,000	N	N
65 2 35	148 15 24	7.00	2.00	3.0	1.000	1,000	N	N
65 6 6	148 18 20	5.00	1.50	2.0	.500	500	N	N
65 4 2	148 24 42	7.00	2.00	3.0	1.000	1,000	N	N
65 3 56	148 28 27	10.00	3.00	3.0	1.000	1,500	N	N
65 13 13	149 59 26	2.00	1.50	2.0	.500	500	N	N
65 13 28	149 51 2	7.00	2.00	2.0	.700	700	N	N
65 12 48	149 47 12	7.00	2.00	2.0	.700	1,000	N	N
65 16 50	149 42 54	10.00	2.00	3.0	1.000	700	N	N
65 18 32	149 42 30	7.00	2.00	2.0	.700	1,000	N	N
65 19 32	149 39 37	7.00	2.00	2.0	1.000	700	N	N
65 22 0	149 51 21	10.00	2.00	2.0	.700	1,000	N	N
65 21 55	149 54 56	5.00	1.50	1.0	.500	700	N	N
65 23 29	149 55 2	5.00	1.50	1.5	.500	700	N	N
65 24 1	149 48 52	5.00	1.50	2.0	1.000	700	<.5	N
65 28 1	149 50 30	5.00	2.00	3.0	1.000	700	N	N
65 28 24	149 53 53	7.00	2.00	3.0	1.000	1,000	N	N
65 28 9	149 58 45	5.00	1.50	2.0	.700	700	N	N
65 28 24	149 59 0	7.00	1.50	2.0	1.000	700	N	N
65 50 15	149 18 23	7.00	1.50	2.0	1.000	700	<.5	N
65 49 27	149 11 54	3.00	1.50	1.0	.500	700	N	N
65 49 24	149 1 21	7.00	1.50	2.0	1.000	1,000	N	N
65 47 57	149 31 41	7.00	1.50	2.0	1.000	700	N	N
65 45 42	149 45 17	7.00	1.50	3.0	1.000	1,000	N	N
65 46 32	149 58 45	2.00	.70	1.5	.500	300	N	N
65 8 57	149 13 58	7.00	2.00	3.0	1.000	1,000	N	N
65 7 50	149 15 41	5.00	1.50	2.0	.700	500	N	N
65 6 11	149 17 32	7.00	2.00	2.0	1.000	700	N	N
65 6 7	149 13 41	10.00	2.00	2.0	1.000	700	N	N
65 5 21	149 15 10	7.00	2.00	3.0	1.000	1,000	N	N
65 4 53	149 19 17	7.00	2.00	2.0	1.000	1,000	N	N
65 3 46	149 20 59	7.00	2.00	2.0	1.000	700	<.5	N
65 3 15	149 23 3	7.00	2.00	3.0	1.000	1,000	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
30	500	<1.0	N	10	50	10	50	N	N
30	500	<1.0	N	10	30	10	20	N	N
30	500	<1.0	N	10	50	15	30	<5	N
15	500	<1.0	N	10	20	20	20	N	N
20	500	<1.0	N	10	50	15	30	N	N
30	500	<1.0	N	15	50	20	20	N	N
30	1,000	1.0	N	10	70	30	20	N	N
50	1,000	1.0	N	20	100	50	20	<5	N
50	1,500	1.0	N	15	100	50	30	N	N
70	1,500	<1.0	N	30	200	70	50	N	N
50	1,500	1.0	N	20	150	70	30	N	N
50	1,500	1.0	N	15	150	50	50	N	N
70	1,000	1.0	N	15	100	20	30	N	N
70	1,500	<1.0	N	20	200	50	50	N	<20
50	1,000	1.0	N	15	150	50	30	<5	N
70	2,000	1.0	N	15	200	50	50	N	N
70	2,000	1.0	N	30	200	70	50	N	<20
30	700	1.0	N	7	50	15	N	N	N
70	1,500	1.0	N	15	150	50	30	N	N
70	1,500	1.0	N	15	150	70	30	N	N
70	2,000	1.0	N	15	200	70	70	N	<20
50	2,000	1.0	N	20	150	70	50	<5	<20
50	1,500	1.0	N	20	150	70	50	N	<20
70	1,500	1.0	N	20	200	70	30	N	N
30	1,000	1.0	N	10	100	50	N	N	N
50	1,000	1.0	N	10	100	30	N	N	N
70	1,500	1.0	N	20	150	70	50	<5	<20
70	1,500	1.0	N	20	100	50	50	N	<20
70	2,000	1.0	N	20	200	70	50	N	<20
50	1,500	1.5	N	15	100	50	30	N	N
70	1,500	1.0	N	30	150	50	30	N	N
70	2,000	1.0	N	20	150	50	50	N	<20
50	1,000	1.5	N	10	50	30	N	N	N
100	2,000	1.0	N	15	150	50	50	N	<20
100	2,000	1.0	N	15	150	20	30	N	<20
70	2,000	<1.0	N	20	100	50	50	N	<20
20	700	1.0	N	5	30	10	N	N	N
100	2,000	<1.0	N	15	200	30	30	N	<20
70	1,500	<1.0	N	10	200	30	30	N	N
70	2,000	<1.0	N	15	200	50	50	N	<20
100	2,000	<1.0	N	20	200	70	50	N	<20
100	2,000	<1.0	N	20	200	70	50	N	<20
100	2,000	1.0	N	20	150	50	50	N	<20
100	2,000	<1.0	N	30	200	70	50	N	N
70	2,000	<1.0	N	20	200	70	50	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
20	N	10	N	100	100	N	20	N	100	N
20	<10	10	N	100	70	N	15	N	100	N
20	<10	10	N	100	70	N	20	N	150	N
20	N	5	N	<100	50	N	10	N	50	N
20	10	10	N	150	70	N	15	N	100	N
20	<10	10	N	100	100	N	15	N	70	N
50	20	10	N	200	150	N	30	N	150	N
50	20	15	N	200	150	N	30	N	150	N
50	20	15	N	200	150	N	30	N	150	N
50	20	20	N	200	200	N	50	N	200	N
50	20	20	N	200	150	N	30	N	150	N
50	30	15	N	300	200	N	50	N	300	N
30	15	15	N	200	150	N	30	N	200	N
30	30	20	N	300	200	N	50	N	300	N
70	20	15	N	200	150	N	30	N	150	N
30	30	20	N	300	200	N	30	<200	300	N
70	50	30	N	300	200	N	50	N	150	N
20	15	10	N	150	150	N	20	N	150	N
30	20	20	N	300	150	N	30	N	150	N
50	50	20	N	200	200	N	50	N	200	N
50	30	30	N	300	200	N	50	N	300	N
50	30	20	N	200	200	N	30	N	200	N
50	30	20	N	300	200	N	30	N	200	N
50	30	20	N	300	150	N	30	N	150	N
50	20	15	N	100	150	N	20	N	150	N
30	15	15	N	200	150	N	20	N	150	N
50	20	15	N	200	150	N	30	200	200	N
50	30	20	N	200	150	N	30	N	200	N
50	50	30	N	300	200	N	50	N	200	N
50	20	15	N	200	150	N	30	N	150	N
70	30	20	N	200	200	N	30	N	200	N
70	30	20	N	200	200	N	50	N	200	N
50	20	10	N	100	150	N	20	N	100	N
50	30	30	N	200	200	N	50	N	300	N
30	30	20	N	200	200	N	30	N	300	N
30	30	20	N	200	200	N	50	N	300	N
20	10	10	N	100	100	N	20	N	100	N
50	20	20	N	300	200	N	50	N	500	N
30	20	20	N	200	200	N	30	N	300	N
50	30	20	N	300	300	N	50	<200	500	N
50	50	30	N	300	200	N	50	N	300	N
50	30	30	N	300	200	N	50	N	500	N
50	20	30	N	200	200	N	50	N	300	N
50	30	20	N	300	200	N	50	N	200	N
50	20	20	N	300	200	N	50	N	200	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 3 2	149 24 51	7.00	2.00	3.0	1.000	2,000	N	N
65 2 44	149 26 20	7.00	2.00	5.0	1.000	1,000	N	N
65 0 46	149 26 12	7.00	2.00	5.0	1.000	2,000	N	N
65 0 36	149 23 2	7.00	1.50	3.0	1.000	2,000	N	N
65 0 26	149 21 38	7.00	2.00	5.0	.700	2,000	N	N
65 1 27	149 20 48	7.00	1.50	2.0	.700	1,000	<.5	N
65 1 22	149 17 18	5.00	1.50	2.0	.700	700	N	N
65 2 24	149 16 41	5.00	1.50	2.0	.700	500	<.5	N
65 3 14	149 15 15	7.00	2.00	3.0	1.000	700	N	N
65 2 3	149 15 17	7.00	2.00	3.0	.700	700	N	N
65 1 2	149 14 17	3.00	1.50	3.0	.700	500	N	N
65 1 4	149 10 15	5.00	2.00	3.0	1.000	700	N	N
65 0 28	149 9 33	7.00	2.00	5.0	>1.000	700	N	N
65 0 55	149 5 22	7.00	2.00	3.0	1.000	700	N	N
65 1 54	149 7 14	5.00	2.00	3.0	1.000	500	N	N
65 2 29	149 9 3	7.00	2.00	3.0	1.000	1,000	N	N
65 3 15	149 10 41	10.00	2.00	5.0	1.000	700	N	N
65 4 8	149 11 35	7.00	2.00	5.0	1.000	700	N	N
65 3 55	149 7 38	5.00	1.50	3.0	.700	500	N	N
65 4 37	149 5 47	7.00	2.00	3.0	.700	500	N	N
65 5 15	149 8 29	7.00	2.00	3.0	1.000	500	N	N
65 5 35	149 10 36	7.00	1.50	3.0	1.000	1,000	N	N
65 6 33	149 8 7	7.00	2.00	3.0	.700	1,000	N	N
65 6 59	149 5 33	7.00	2.00	3.0	.700	700	N	N
65 8 0	149 6 25	7.00	2.00	1.5	.700	1,000	N	N
65 8 53	149 8 2	5.00	1.50	2.0	.700	700	<.5	N
65 9 50	149 6 11	5.00	1.50	2.0	.700	1,000	<.5	N
65 10 29	149 5 9	7.00	2.00	2.0	1.000	1,000	<.5	N
65 10 31	149 9 18	7.00	1.50	5.0	1.000	1,000	N	N
65 11 12	149 7 18	10.00	2.00	3.0	1.000	1,000	N	N
65 20 17	149 11 12	7.00	1.50	3.0	.700	1,000	N	N
65 20 8	149 18 29	10.00	1.50	2.0	1.000	1,500	N	N
65 21 21	149 15 47	10.00	2.00	3.0	.700	1,500	N	N
65 22 0	149 10 10	7.00	2.00	5.0	1.000	1,000	N	N
65 23 45	149 8 34	10.00	2.00	3.0	1.000	1,500	N	N
65 19 2	148 56 58	7.00	2.00	3.0	.700	1,500	.5	N
65 23 44	149 0 15	7.00	1.50	3.0	1.000	1,000	.5	N
65 16 50	148 44 35	7.00	1.50	2.0	1.000	1,000	.5	N
65 14 36	148 45 43	10.00	3.00	3.0	1.000	3,000	3.0	N
65 11 36	149 7 46	5.00	1.50	2.0	.700	1,500	<.5	N
65 11 32	149 1 59	7.00	1.50	1.5	1.000	2,000	.7	N
65 10 49	149 1 32	7.00	1.50	3.0	1.000	1,000	N	N
65 9 24	149 1 51	5.00	1.50	3.0	.700	2,000	N	N
65 7 34	149 1 6	7.00	1.50	3.0	1.000	1,500	N	N
65 6 56	149 3 11	7.00	2.00	3.0	1.000	2,000	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
100	1,500	1.0	N	15	100	30	100	N	20
70	1,000	2.0	N	10	70	15	70	N	30
70	700	1.5	N	15	100	15	100	N	20
150	1,500	<1.0	N	15	200	50	50	N	N
100	1,500	<1.0	N	20	150	50	50	N	<20
100	1,500	1.0	N	20	100	30	30	N	<20
70	1,500	1.0	N	20	70	50	30	N	N
50	1,500	1.0	N	15	100	70	30	N	N
50	1,500	<1.0	N	15	200	70	30	N	N
50	1,000	1.0	N	20	100	70	N	N	N
30	1,000	1.0	N	10	70	30	N	N	N
70	1,500	<1.0	N	30	150	30	50	N	<20
70	1,500	<1.0	N	20	200	70	50	N	<20
50	1,500	<1.0	N	20	150	70	50	<5	N
50	1,000	1.0	N	15	100	50	50	N	N
70	1,000	<1.0	N	15	150	30	50	N	<20
70	2,000	1.0	N	30	200	70	70	N	<20
50	2,000	1.0	N	20	150	50	50	N	<20
70	1,000	<1.0	N	15	100	15	50	N	<20
70	1,000	1.0	N	20	150	30	70	N	N
70	1,000	<1.0	N	20	150	20	70	N	<20
100	1,000	1.0	N	15	200	20	70	N	<20
100	1,500	1.0	N	15	200	30	100	N	<20
70	1,500	1.0	N	15	150	30	30	N	N
100	1,500	1.0	N	20	200	20	70	N	N
50	1,000	1.0	N	15	100	20	N	<5	N
70	1,000	1.0	N	15	100	30	N	N	N
100	1,500	1.0	N	20	150	30	30	N	<20
70	1,000	<1.0	N	15	150	15	50	N	N
70	1,000	1.0	N	20	150	50	50	N	<20
100	1,000	<1.0	N	15	150	15	50	N	N
100	700	1.0	N	20	100	30	50	N	<20
150	1,500	1.0	N	20	300	30	150	N	<20
100	2,000	<1.0	N	20	150	50	50	N	<20
70	1,500	<1.0	N	15	200	30	50	N	<20
70	1,500	1.0	N	15	300	70	N	5	N
100	1,500	1.0	N	15	200	30	50	N	N
70	1,500	1.0	N	15	100	20	50	N	N
150	3,000	1.0	N	20	200	70	70	N	<20
100	2,000	1.0	N	15	150	30	50	N	<20
150	1,500	1.0	N	50	150	70	50	<5	<20
100	1,500	1.0	N	15	150	30	50	N	<20
100	1,500	1.0	N	10	70	30	30	N	N
150	1,500	1.0	N	15	150	30	50	N	<20
70	1,500	1.0	N	20	200	50	50	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
30	70	20	N	500	150	N	50	N	700	N
20	20	20	<10	500	150	N	50	N	1,000	N
20	20	20	<10	500	150	N	50	N	1,000	N
70	15	20	N	300	200	N	50	N	500	N
50	20	20	N	300	150	N	50	N	200	N
50	20	20	N	200	200	N	50	N	300	N
70	20	20	N	200	150	N	30	N	150	N
70	20	20	N	150	200	N	50	N	150	N
50	20	20	N	300	200	N	50	N	300	N
70	15	15	N	150	150	N	30	200	150	N
30	10	15	N	150	100	N	20	N	150	N
50	30	30	N	200	200	N	50	N	200	N
50	30	30	N	300	200	N	30	N	500	N
50	30	30	N	300	200	N	30	N	200	N
30	20	20	N	300	150	N	30	N	300	N
30	20	20	N	300	150	N	150	N	500	N
50	30	30	N	300	300	N	50	N	300	N
50	20	30	N	300	200	N	30	N	300	N
30	20	20	N	300	150	N	30	N	500	N
50	20	20	N	300	150	N	30	N	300	N
30	20	15	N	300	150	N	50	N	300	N
50	20	20	N	300	150	N	50	N	500	N
70	20	30	N	200	200	N	50	N	500	N
50	20	20	N	300	150	N	50	N	700	N
70	15	20	N	200	150	N	30	N	300	N
50	15	20	N	100	150	N	30	N	150	N
50	15	15	N	100	150	N	30	N	300	N
50	20	20	N	200	200	N	30	N	300	N
20	20	20	N	300	150	N	30	N	300	N
50	30	20	N	200	200	N	50	N	500	N
30	20	20	N	200	150	N	30	N	700	N
30	30	20	N	200	150	N	30	N	700	N
70	15	20	N	200	300	N	70	N	1,000	N
50	20	30	N	200	200	N	50	N	500	N
50	15	20	N	200	300	N	50	N	700	N
100	15	20	N	150	200	N	50	N	300	N
70	20	20	N	200	200	N	50	N	500	N
30	15	20	N	200	200	N	50	N	500	N
70	70	20	N	300	200	<50	70	200	300	N
50	50	20	N	300	200	N	50	200	300	N
100	70	30	N	200	200	N	50	200	300	N
30	30	20	N	300	200	N	50	N	300	N
30	20	15	N	200	200	N	30	N	200	N
30	30	20	N	300	200	N	50	N	700	N
70	20	20	N	200	200	N	30	N	200	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 5 22	149 0 51	7.00	3.00	5.0	1.000	3,000	N	N
65 3 11	149 0 11	7.00	3.00	5.0	1.000	1,500	N	N
65 1 33	149 1 0	10.00	3.00	5.0	>1.000	2,000	N	N
65 0 46	148 59 45	7.00	2.00	7.0	1.000	1,500	N	N
65 0 20	148 54 12	7.00	2.00	5.0	1.000	1,000	N	N
65 3 3	148 6 38	7.00	1.50	3.0	1.000	500	N	N
65 2 39	148 11 25	10.00	2.00	7.0	.700	1,000	N	N
65 48 51	149 11 31	.15	.20	3.0	.030	200	N	N
65 46 51	149 1 49	10.00	2.00	3.0	1.000	1,000	N	N
65 46 54	149 38 9	7.00	2.00	7.0	1.000	1,000	N	N
65 33 2	149 45 20	.30	.20	.1	.200	200	1.5	N
65 30 23	149 45 7	.15	.05	.1	.020	50	N	N
65 48 51	146 39 57	7.00	1.50	1.0	1.000	1,000	N	N
65 49 19	146 33 29	10.00	1.50	3.0	.700	2,000	.5	N
65 49 36	146 34 49	7.00	1.50	3.0	1.000	3,000	.5	N
65 52 56	146 27 36	15.00	.50	3.0	.300	>5,000	N	N
65 52 32	146 26 17	10.00	2.00	3.0	1.000	2,000	N	N
65 52 42	146 21 52	7.00	1.50	3.0	.700	1,500	N	N
65 51 20	146 17 30	7.00	1.50	3.0	1.000	1,000	N	N
65 50 3	146 18 28	10.00	1.50	3.0	1.000	1,000	<.5	N
65 53 34	146 14 54	5.00	1.50	3.0	1.000	1,000	N	N
65 53 48	146 13 14	5.00	1.50	5.0	1.000	1,000	N	N
65 56 8	146 12 45	7.00	1.50	3.0	1.000	700	N	N
65 58 57	146 21 11	10.00	1.50	2.0	1.000	1,000	N	N
65 56 7	146 25 6	1.50	.30	3.0	.150	3,000	N	N
65 58 55	146 24 37	7.00	1.50	3.0	1.000	1,000	N	N
65 58 29	146 24 29	10.00	2.00	3.0	>1.000	2,000	N	N
65 57 35	146 31 6	1.00	.30	2.0	.200	700	N	N
65 56 7	146 30 8	7.00	2.00	5.0	1.000	700	N	N
65 56 6	146 44 39	.50	.20	5.0	.050	700	N	N
65 58 45	146 58 9	10.00	2.00	5.0	>1.000	2,000	N	N
65 55 35	146 56 49	10.00	2.00	5.0	1.000	3,000	N	N
65 45 21	146 33 29	10.00	1.50	3.0	1.000	2,000	<.5	N
65 44 42	146 32 43	10.00	1.50	2.0	1.000	2,000	.5	N
65 43 17	146 33 53	10.00	2.00	3.0	1.000	2,000	<.5	N
65 42 52	146 31 30	7.00	1.50	3.0	1.000	1,000	.5	N
65 24 47	146 6 32	1.00	.30	1.0	.150	150	.5	N
65 25 20	146 9 18	2.00	.50	.2	.150	150	<.5	N
65 27 30	146 9 52	5.00	.20	.7	.100	200	<.5	N
65 28 33	146 9 33	5.00	1.00	1.0	.200	500	<.5	N
65 28 54	146 9 46	7.00	1.50	.5	.300	500	.5	N
65 29 12	146 16 45	5.00	1.50	.7	1.000	1,000	N	N
65 29 8	146 42 55	7.00	1.50	.3	1.000	1,000	N	N
65 31 15	146 11 20	7.00	1.50	.5	.700	1,000	N	N
65 30 51	146 10 59	7.00	1.50	2.0	1.000	1,000	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
100	2,000	<1.0	N	30	200	100	50	N	<20
100	1,500	<1.0	N	20	300	50	20	N	<20
50	2,000	<1.0	N	30	300	70	N	N	N
70	2,000	1.0	N	15	150	50	50	N	N
70	1,500	1.0	N	15	150	20	50	N	<20
50	1,500	<1.0	N	15	100	100	N	<5	N
100	2,000	1.0	N	15	100	30	50	N	<20
<10	150	<1.0	N	N	N	5	N	N	N
100	1,500	1.0	N	20	150	50	50	N	<20
70	1,500	1.0	N	15	100	20	50	N	20
<10	500	1.0	N	N	20	10	N	N	N
N	150	<1.0	N	N	N	<5	N	N	N
150	1,000	1.5	N	20	100	30	70	<5	<20
150	3,000	1.0	N	20	150	50	70	5	<20
100	2,000	1.5	N	30	150	50	70	N	<20
10	1,500	1.5	N	50	20	20	N	<5	N
100	2,000	1.0	N	20	200	50	70	N	<20
100	2,000	1.0	N	20	200	50	50	7	<20
100	1,500	1.0	N	20	150	50	50	<5	<20
100	2,000	<1.0	N	20	200	50	70	<5	<20
100	2,000	<1.0	N	15	100	50	30	N	N
70	2,000	1.0	N	15	150	30	50	N	<20
70	2,000	1.0	N	20	150	50	50	N	<20
100	2,000	1.5	N	20	200	50	50	5	<20
<10	500	1.5	N	<5	<10	20	N	N	N
100	2,000	1.0	N	15	150	30	70	N	<20
70	700	<1.0	N	15	200	70	30	N	N
20	500	1.0	N	N	20	10	N	N	N
100	2,000	1.0	N	15	200	30	50	N	N
10	300	1.0	N	N	<10	10	N	N	N
100	2,000	1.0	N	30	200	70	70	N	<20
150	2,000	1.0	N	20	200	70	50	N	N
100	3,000	1.0	N	20	70	50	50	N	N
200	5,000	1.5	N	20	150	70	70	7	<20
100	2,000	1.0	N	20	100	30	70	<5	<20
150	3,000	1.0	N	15	200	50	50	5	<20
<10	300	1.5	<10	N	20	15	20	N	N
<10	700	1.5	N	7	30	30	20	N	N
N	300	1.5	N	N	<10	15	N	N	N
50	700	1.5	N	7	50	50	200	N	N
100	1,500	1.5	N	15	100	50	150	N	N
200	1,000	2.0	N	15	100	15	70	<5	<20
200	1,000	2.0	N	15	100	15	50	<5	<20
150	1,500	2.0	N	15	150	20	70	<5	<20
100	1,500	2.0	N	15	200	30	70	<5	<20

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
70	20	30	N	300	300	N	50	200	300	N
70	20	30	N	200	300	N	30	N	300	N
70	20	30	N	200	300	N	30	<200	200	N
50	20	20	N	300	200	N	50	N	200	N
30	15	20	N	300	200	N	30	N	300	N
50	15	50	N	200	200	N	50	N	150	N
30	20	20	N	300	150	N	50	N	500	N
N	N	N	N	N	15	N	<10	N	10	N
50	20	20	N	300	200	N	50	N	500	N
30	15	20	N	300	150	N	50	N	700	N
5	70	5	N	<100	70	N	15	N	100	N
N	N	N	N	N	15	N	10	N	10	N
50	20	20	N	200	100	N	50	N	500	N
70	70	20	N	300	200	N	50	200	300	N
70	30	20	N	300	200	N	70	N	300	N
30	15	7	N	100	100	N	20	200	70	N
50	30	20	N	300	150	N	70	N	500	N
70	100	20	30	300	150	N	50	N	300	N
50	20	15	N	300	200	N	50	N	500	N
50	20	20	N	300	200	N	70	N	70	N
30	20	15	N	300	150	N	30	N	200	N
30	30	20	N	500	200	N	50	N	500	N
50	20	20	N	300	200	N	50	N	300	N
70	1,000	20	10	200	200	N	70	500	700	N
20	10	5	N	N	70	N	15	N	50	N
50	20	15	N	300	200	N	50	N	500	N
50	20	20	N	300	150	N	30	N	300	N
10	20	5	N	N	50	N	15	N	100	N
30	50	20	N	500	200	N	50	N	500	N
N	10	N	N	N	30	N	10	N	30	N
70	50	30	N	200	300	N	50	N	500	N
30	30	20	N	300	500	N	70	N	1,000	N
50	50	20	N	300	300	N	50	N	500	N
100	50	20	N	200	300	N	50	N	300	N
50	50	20	N	300	200	N	50	N	500	N
50	50	30	N	200	500	N	50	N	300	N
10	70	5	N	N	70	N	15	N	30	<100
50	20	7	N	N	70	N	15	N	70	N
20	10	7	N	N	50	N	30	N	50	N
30	30	20	N	<100	100	N	70	N	70	N
70	70	20	N	150	150	N	50	N	150	N
30	30	15	20	150	70	N	70	N	500	<100
30	50	15	15	150	70	N	30	N	300	N
50	50	20	10	200	70	N	30	N	300	N
50	70	20	10	200	150	N	50	<200	300	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF MURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 31 32	146 13 24	7.00	1.50	1.5	1.000	1,500	N	N
65 32 2	146 12 39	10.00	1.50	1.0	1.000	1,500	N	N
65 32 40	146 13 54	7.00	1.50	1.0	1.000	1,000	N	N
65 33 42	146 16 0	7.00	1.50	2.0	1.000	1,000	N	N
65 33 33	146 18 1	7.00	1.50	.2	.500	700	N	N
65 33 16	146 18 0	10.00	1.50	.7	1.000	1,500	N	N
65 34 1	146 19 32	1.00	.30	2.0	.070	150	N	N
65 36 46	146 23 51	10.00	2.00	1.0	1.000	1,000	N	N
65 37 14	146 22 0	10.00	2.00	2.0	1.000	1,500	N	N
65 37 24	146 22 51	10.00	2.00	2.0	1.000	1,500	N	N
65 37 50	146 21 8	10.00	1.50	2.0	1.000	1,000	<.5	N
65 39 6	146 23 58	5.00	1.50	2.0	.700	1,000	N	N
65 39 16	146 25 17	7.00	2.00	2.0	1.000	1,500	N	N
65 41 11	146 24 18	7.00	1.50	2.0	1.000	1,500	<.5	N
65 40 55	146 23 39	5.00	1.50	1.5	.700	1,000	N	N
65 41 16	146 22 27	7.00	1.50	2.0	1.000	1,000	N	N
65 42 26	146 21 11	7.00	1.50	3.0	.700	700	N	N
65 42 9	146 20 35	7.00	1.50	3.0	1.000	1,500	N	N
65 43 41	146 16 18	7.00	1.50	3.0	.700	1,000	N	N
65 43 28	146 15 30	10.00	1.50	.5	1.000	1,500	N	N
65 44 57	146 20 36	15.00	1.00	.2	.700	150	N	N
65 44 57	146 21 39	15.00	1.50	1.0	1.000	300	N	N
65 45 46	146 23 49	7.00	1.50	1.5	1.000	1,000	<.5	N
65 47 39	146 25 37	.20	.10	.5	.030	150	N	N
65 47 39	146 31 17	7.00	2.00	3.0	1.000	1,000	N	N
65 51 33	146 28 50	10.00	1.50	1.5	1.000	2,000	<.5	N
65 51 30	146 27 42	10.00	1.50	2.0	1.000	2,000	<.5	N
65 52 8	146 27 29	7.00	2.00	3.0	1.000	1,000	N	N
65 49 10	146 38 44	.70	.20	5.0	.100	500	N	N
65 49 9	146 40 49	10.00	2.00	2.0	1.000	2,000	N	N
65 49 53	146 46 33	7.00	2.00	3.0	1.000	1,500	N	N
65 50 20	146 45 47	7.00	1.50	3.0	1.000	1,500	N	N
65 50 9	146 57 43	5.00	1.50	2.0	1.000	500	<.5	N
65 50 34	146 57 2	5.00	2.00	2.0	1.000	1,000	N	N
65 49 18	146 59 12	5.00	1.50	2.0	.500	1,000	N	N
65 49 47	146 59 43	3.00	1.50	2.0	.500	700	N	N
65 51 15	146 51 36	5.00	1.50	.7	.500	1,000	N	N
65 51 7	146 52 26	5.00	1.50	1.5	.700	1,000	N	N
65 50 31	146 51 34	5.00	1.50	2.0	.500	1,000	N	N
65 47 39	146 42 50	5.00	1.50	2.0	.700	700	N	N
65 46 50	146 38 21	5.00	1.50	2.0	.700	700	N	N
65 45 43	146 41 4	7.00	1.50	.7	.700	1,000	N	N
65 42 47	146 37 37	7.00	2.00	3.0	.700	1,000	N	N
65 48 7	146 29 27	7.00	1.50	3.0	.700	1,500	N	N
65 50 13	146 32 25	5.00	1.50	.7	.500	1,500	<.5	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
100	1,500	1.5	N	15	150	20	70	<5	<20
150	2,000	1.5	<10	20	300	30	70	<5	<20
100	1,500	1.0	N	15	100	15	70	<5	<20
100	1,500	1.0	N	15	150	20	70	<5	<20
100	1,000	<1.0	N	20	150	15	50	<5	N
200	1,500	1.0	N	20	150	20	70	<5	N
N	300	1.0	<10	N	<10	30	N	N	<20
150	1,500	1.0	N	30	20	50	70	<5	<20
200	1,500	1.0	N	30	300	5	50	<5	<20
150	1,500	1.0	N	20	300	50	70	5	<20
100	1,500	<1.0	N	20	200	20	50	N	<20
100	1,000	<1.0	N	10	100	15	50	N	<20
150	1,500	1.0	N	15	150	30	50	N	<20
200	1,000	1.0	N	15	100	30	70	N	<20
70	1,000	2.0	N	15	150	15	70	N	<20
100	1,000	1.0	N	15	200	15	50	N	<20
100	1,500	1.5	N	15	200	50	70	N	<20
100	2,000	1.0	N	20	200	30	50	<5	<20
70	1,000	<1.0	N	15	150	30	50	N	<20
150	2,000	1.5	N	20	150	50	50	<5	<20
70	1,500	<1.0	N	7	200	50	70	10	<20
70	2,000	<1.0	N	7	150	50	30	<5	<20
70	2,000	1.0	N	15	100	30	100	7	20
N	100	<1.0	N	N	<10	<5	N	N	N
70	2,000	<1.0	N	15	200	30	50	N	<20
100	3,000	<1.0	N	30	150	70	70	7	<20
100	2,000	1.0	N	20	200	50	50	<5	<20
70	2,000	<1.0	N	15	150	50	30	N	<20
<10	300	1.0	N	N	<10	15	N	N	N
100	2,000	<1.0	N	20	300	50	50	N	<20
100	2,000	1.0	N	15	200	30	50	N	<20
100	1,500	1.0	N	20	150	20	50	N	<20
100	2,000	1.0	N	20	200	50	50	N	<20
100	2,000	1.0	N	20	200	30	50	N	N
70	1,000	<1.0	N	15	70	20	50	N	N
50	1,000	<1.0	N	15	100	20	50	N	<20
100	1,000	1.0	N	15	150	30	50	N	<20
50	1,000	<1.0	N	15	150	50	30	N	<20
70	1,000	<1.0	N	10	70	15	50	N	N
50	1,000	<1.0	N	15	70	20	30	N	<20
50	700	<1.0	N	15	100	30	50	N	N
70	700	<1.0	N	10	100	15	50	N	N
50	1,000	N	N	15	500	20	20	<5	N
50	1,000	<1.0	N	15	100	20	30	N	N
50	1,000	<1.0	N	10	100	10	30	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
50	30	20	15	150	150	N	50	N	300	N
70	50	30	20	200	200	N	50	N	300	N
30	30	15	N	200	150	N	30	N	700	N
30	30	20	N	200	150	N	50	N	500	N
30	30	10	N	<100	70	N	20	N	200	N
50	50	20	10	200	150	N	50	N	700	N
5	<10	<5	N	N	30	N	15	N	50	N
70	50	30	20	200	200	N	50	N	200	N
70	30	20	<10	200	200	N	50	N	300	N
70	50	20	10	200	150	N	50	N	300	N
50	30	20	N	200	150	N	50	N	300	N
30	30	15	N	200	100	N	30	N	500	N
30	30	20	N	200	150	N	50	<200	700	N
30	30	20	N	200	150	N	70	N	500	N
20	70	15	15	200	150	N	50	<200	500	N
30	30	20	10	200	150	N	50	N	700	N
30	50	20	N	300	150	N	50	N	500	N
30	30	15	10	300	200	N	50	N	500	N
50	20	15	N	200	150	N	50	N	300	N
70	500	20	<10	100	200	N	30	200	200	N
30	20	10	N	100	200	N	30	N	300	N
30	20	20	N	150	300	N	50	N	300	N
30	30	20	N	200	300	N	70	N	700	N
N	N	N	N	N	15	N	10	N	N	N
30	30	20	N	500	200	N	50	N	300	N
70	30	20	N	200	500	N	50	N	300	N
50	50	20	N	200	200	N	30	200	300	N
50	30	20	N	300	200	N	30	N	200	N
7	<10	<5	N	<100	30	N	10	N	70	N
70	50	20	N	200	200	N	50	N	300	N
50	30	20	N	200	200	N	50	<200	500	N
50	30	15	N	200	150	N	30	<200	300	N
50	50	20	N	200	200	N	50	<200	150	N
50	50	20	N	200	200	N	50	<200	200	N
50	20	10	N	200	150	N	30	200	200	N
30	20	10	N	150	150	N	30	<200	200	N
50	20	10	N	100	200	N	20	N	150	N
50	20	10	N	150	150	N	50	N	200	N
30	50	10	<10	200	150	N	30	N	300	N
30	15	10	N	300	150	N	30	N	200	N
30	20	7	N	150	150	N	20	N	300	N
50	30	10	<10	100	200	N	20	N	200	N
100	15	7	N	150	200	N	20	N	300	N
30	20	7	N	200	200	N	20	N	500	N
20	15	7	<10	100	200	N	15	N	200	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 51 2	146 30 26	5.00	1.50	1.5	.700	700	N	N
65 50 45	146 28 32	5.00	1.50	2.0	.500	1,000	N	N
65 52 8	146 31 21	5.00	1.50	1.0	.500	1,000	N	N
65 54 38	146 32 18	5.00	1.50	2.0	.500	1,000	N	N
65 49 15	146 36 25	5.00	1.50	2.0	.700	1,500	N	N
65 49 41	146 45 5	5.00	1.50	.7	.700	1,000	N	N
65 49 50	146 42 55	5.00	1.50	.5	.700	1,500	N	N
65 47 43	146 37 55	2.00	1.00	1.0	.300	700	N	N
65 48 3	146 37 17	3.00	1.50	1.5	.500	1,000	N	N
65 49 40	146 58 23	5.00	1.00	1.0	.500	300	1.0	N
65 47 3	146 42 50	2.00	1.00	2.0	.500	500	<.5	N
65 42 5	146 37 14	7.00	1.50	1.5	.700	1,000	N	N
65 40 12	146 34 11	7.00	1.00	.3	.200	1,000	<.5	N
65 39 55	146 33 38	5.00	1.50	.3	.500	1,000	<.5	N
65 37 5	146 29 22	5.00	1.50	1.0	.700	1,000	N	N
65 37 22	146 30 8	7.00	1.50	.5	.700	1,000	N	N
65 36 43	146 32 35	7.00	1.50	1.0	.700	500	N	N
65 36 29	146 31 53	10.00	1.50	1.0	1.000	500	N	N
65 35 49	146 32 23	7.00	1.50	.7	1.000	1,000	N	N
65 36 2	146 33 14	7.00	1.50	.7	1.000	1,000	N	N
65 34 10	146 27 7	7.00	1.50	1.0	1.000	2,000	N	N
65 34 4	146 26 17	10.00	1.50	1.0	1.000	3,000	N	N
65 32 17	146 28 28	5.00	1.50	1.0	.700	1,000	N	N
65 32 25	146 31 5	7.00	1.00	.5	1.000	700	N	N
65 30 23	146 31 0	7.00	1.50	1.0	1.000	1,500	N	N
65 30 6	146 30 16	10.00	1.00	.5	.500	5,000	N	N
65 28 49	146 32 25	15.00	2.00	.7	1.000	2,000	N	N
65 27 35	146 34 54	7.00	1.50	1.0	1.000	1,000	N	N
65 28 10	146 35 24	7.00	1.50	1.0	1.000	1,000	N	N
65 26 27	146 34 20	7.00	1.50	1.5	.700	700	N	N
65 24 32	146 33 46	7.00	1.50	1.0	.700	700	<.5	N
65 24 54	146 32 27	5.00	1.50	1.5	.700	500	N	N
65 22 15	146 34 10	5.00	1.50	.3	.700	1,000	N	N
65 22 23	146 34 48	5.00	1.50	.5	.700	700	N	N
65 20 52	146 34 58	7.00	1.50	.7	1.000	1,000	N	N
65 18 28	146 35 16	7.00	1.50	1.5	1.000	700	N	N
65 18 8	146 36 6	7.00	1.50	2.0	1.000	700	N	N
65 13 18	146 35 53	10.00	1.50	.3	.700	300	<.5	N
65 12 25	146 33 6	10.00	1.50	2.0	1.000	1,000	N	N
65 9 16	146 35 50	7.00	1.50	2.0	1.000	700	N	N
65 9 33	146 35 17	10.00	1.50	1.0	1.000	1,000	N	N
65 9 3	146 34 18	15.00	1.50	2.0	.700	500	N	N
65 8 35	146 34 35	7.00	1.50	2.0	1.000	700	N	N
65 7 9	146 31 3	5.00	1.00	2.0	.700	700	N	N
65 7 15	146 32 3	3.00	1.00	2.0	.500	500	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
50	1,000	1.0	N	15	70	20	50	N	<20
50	1,000	1.0	N	10	70	15	70	N	<20
70	700	1.0	N	15	100	20	70	N	<20
50	1,000	<1.0	N	10	100	15	30	N	<20
50	1,000	N	N	15	100	20	70	N	<20
100	700	<1.0	N	15	100	20	50	N	<20
100	700	<1.0	N	15	100	20	50	<5	<20
20	700	<1.0	N	15	30	15	N	N	N
70	700	<1.0	N	15	70	20	50	N	<20
100	2,000	<1.0	N	5	100	30	70	5	<20
50	700	N	N	10	100	15	50	N	N
100	1,000	1.5	N	15	150	30	70	N	20
50	500	3.0	N	7	70	20	70	<5	<20
100	700	5.0	N	10	100	20	150	7	20
100	1,000	1.0	N	15	150	20	50	N	<20
100	1,000	1.5	N	15	100	20	70	N	20
100	1,000	1.0	N	15	100	30	100	N	<20
150	1,000	1.0	N	15	150	20	100	N	<20
100	700	1.0	N	15	100	20	70	7	<20
150	700	1.0	N	15	100	20	70	N	20
100	1,000	2.0	N	20	100	15	100	N	<20
150	100	2.0	N	20	150	20	70	<5	20
70	1,000	1.0	N	10	70	20	50	N	N
150	700	1.5	N	10	70	15	70	N	20
150	1,000	1.0	N	15	100	20	70	N	<20
100	700	3.0	N	30	50	15	70	N	N
150	1,000	<1.0	N	10	150	15	N	N	<20
100	1,000	1.5	N	15	100	20	70	N	<20
150	1,000	2.0	N	15	70	20	70	N	<20
150	700	2.0	N	10	100	15	70	N	<20
150	700	5.0	<10	15	100	15	50	5	<20
200	700	15.0	<10	10	150	15	70	<5	<20
200	500	2.0	N	20	50	15	50	N	<20
100	700	1.5	N	15	100	20	50	N	<20
100	1,000	1.5	N	15	100	20	100	N	20
100	700	1.0	N	15	100	20	50	N	<20
100	700	<1.0	N	15	100	20	50	N	<20
150	1,000	1.5	N	15	150	30	70	N	20
100	1,000	1.0	N	20	150	50	70	N	<20
150	700	1.0	N	10	70	10	50	N	20
150	1,000	1.0	N	15	100	15	50	N	20
100	1,000	1.0	N	15	100	20	70	N	<20
150	1,000	1.0	N	15	100	15	50	N	<20
50	700	1.0	N	10	70	20	50	N	N
50	700	1.0	N	10	50	15	50	<5	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
30	50	10	N	200	150	N	20	N	200	N
30	15	10	N	300	150	N	30	N	300	N
30	15	10	N	200	150	N	20	N	300	N
30	15	7	N	200	150	N	30	N	300	N
30	50	10	N	200	150	N	20	N	300	N
30	20	7	10	150	150	N	20	N	150	N
50	20	10	<10	150	150	N	30	N	200	N
50	15	7	N	150	100	N	20	N	100	N
30	20	10	N	200	100	N	30	N	200	N
30	20	10	N	150	300	N	20	N	200	N
30	10	7	N	200	100	N	20	N	150	N
50	30	15	<10	200	150	N	50	N	500	N
20	50	10	20	N	70	N	70	N	300	N
30	100	10	50	<100	100	N	70	200	700	100
30	30	15	N	150	150	N	50	N	500	N
50	30	15	N	100	150	N	30	N	500	N
50	20	15	N	150	150	N	50	N	300	N
30	30	15	N	150	150	N	50	N	500	N
30	30	15	N	100	150	N	30	N	500	N
30	100	15	N	100	150	N	50	N	1,000	N
30	30	10	<10	150	150	N	30	N	300	N
50	50	15	10	150	150	N	50	N	300	N
30	20	10	N	100	150	N	30	N	300	N
30	20	7	N	150	100	N	50	N	700	N
30	30	10	N	150	100	N	50	N	1,000	N
30	20	7	N	100	100	N	50	N	200	N
30	50	77	N	<100	150	N	20	N	500	N
30	30	15	<10	200	150	N	50	N	500	N
30	30	10	10	150	100	N	50	N	700	N
20	30	10	20	150	100	N	70	N	300	N
30	30	10	10	150	100	N	50	N	200	N
20	30	15	10	200	100	N	70	N	1,000	N
50	20	10	N	100	100	N	50	N	700	N
50	20	15	N	150	100	N	30	N	500	N
50	30	15	N	200	100	N	50	N	500	N
30	20	15	N	200	150	N	30	N	500	N
30	20	15	N	200	150	N	30	N	300	N
50	30	20	N	200	150	N	50	N	200	N
50	20	20	N	200	150	N	50	N	300	N
20	20	15	N	200	100	N	30	N	1,000	N
30	20	15	N	200	150	N	30	N	500	N
30	30	20	N	200	150	N	50	N	300	N
30	20	15	N	200	150	N	50	N	500	N
30	20	15	N	200	150	N	50	N	300	N
20	30	10	N	150	100	N	30	N	200	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 6 6	146 32 25	10.00	2.00	3.0	1.000	1,000	N	N
65 6 2	146 33 25	10.00	2.00	2.0	1.000	1,000	N	N
65 4 0	146 33 56	7.00	1.50	2.0	1.000	700	N	N
65 3 29	146 33 20	7.00	1.50	2.0	1.000	1,000	N	N
65 3 18	146 31 0	1.50	.50	.7	.150	300	<.5	N
65 3 53	146 29 54	.70	.15	.7	.150	200	<.5	N
65 4 19	146 29 51	.50	.15	.3	.070	200	<.5	N
65 4 26	146 22 45	1.50	1.00	1.0	.200	300	<.5	N
65 3 39	146 21 19	1.00	.50	.2	.150	200	<.5	N
65 4 45	146 51 38	3.00	1.50	2.0	.700	1,000	N	N
65 5 11	146 52 22	5.00	1.50	2.0	1.000	1,000	N	N
65 6 57	146 54 3	5.00	2.00	3.0	1.000	1,000	N	N
65 6 56	146 52 18	5.00	2.00	3.0	1.000	1,000	N	N
65 8 52	146 49 45	5.00	2.00	2.0	1.000	700	N	N
65 9 33	146 50 3	5.00	2.00	3.0	1.000	2,000	N	N
65 12 9	146 50 18	5.00	1.50	1.0	1.000	700	N	N
65 12 38	146 49 58	5.00	1.50	1.5	1.000	1,000	N	N
65 13 40	146 53 51	5.00	1.50	.7	.700	1,000	N	N
65 13 4	146 54 51	5.00	1.50	2.0	.700	1,500	N	N
65 13 24	146 52 15	5.00	1.50	2.0	1.000	1,000	N	N
65 14 21	146 52 27	5.00	1.50	3.0	>1.000	1,000	N	N
65 16 14	146 49 29	7.00	2.00	2.0	1.000	500	N	N
65 15 50	146 51 30	5.00	2.00	2.0	1.000	500	N	N
65 16 0	146 52 18	10.00	3.00	2.0	1.000	700	N	N
65 16 33	146 52 36	7.00	2.00	1.5	1.000	700	N	N
65 18 5	146 51 5	10.00	3.00	2.0	1.000	1,000	N	N
65 17 54	146 50 12	5.00	2.00	2.0	1.000	1,000	N	N
65 20 5	146 49 44	5.00	1.50	2.0	1.000	500	N	N
65 19 51	146 50 25	7.00	1.50	1.5	.500	700	N	N
65 21 24	146 54 55	5.00	1.50	.7	1.000	1,000	N	N
65 21 28	146 52 41	5.00	1.50	.7	.700	700	N	N
65 25 4	146 51 15	3.00	1.00	1.0	1.000	500	N	N
65 24 20	146 51 38	5.00	1.50	2.0	1.000	500	<.5	N
65 26 34	146 52 59	3.00	1.50	.5	1.000	700	N	N
65 27 50	146 54 39	3.00	1.50	.5	1.000	500	N	N
65 28 50	146 53 58	5.00	1.50	1.5	1.000	2,000	N	N
65 28 35	146 51 37	7.00	2.00	.7	.100	1,500	N	N
65 31 32	146 51 6	5.00	1.50	1.0	1.000	1,000	N	N
65 32 4	146 50 16	5.00	1.50	.7	1.000	700	N	N
65 33 11	146 54 51	5.00	1.50	1.0	1.000	700	N	N
65 33 42	146 53 23	5.00	2.00	2.0	1.000	500	N	N
65 34 32	146 50 41	3.00	1.00	1.0	.500	700	<.5	N
65 36 37	146 53 9	5.00	1.50	1.5	1.000	700	<.5	N
65 36 41	146 51 50	5.00	1.50	1.5	1.000	1,000	<.5	N
65 37 37	146 49 28	3.00	1.00	.5	.700	1,500	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
100	1,000	1.0	N	15	150	15	50	N	20
100	1,000	1.0	N	15	150	30	50	N	<20
70	1,000	1.0	N	15	150	20	50	N	<20
100	1,000	1.0	N	15	100	20	70	N	<20
10	500	2.0	N	N	20	15	N	N	N
<10	300	2.0	N	N	10	10	N	N	N
<10	300	1.5	<10	N	<10	5	N	N	N
20	700	2.0	<10	N	30	15	50	N	N
10	300	2.0	<10	N	20	10	N	N	N
100	1,000	1.5	N	10	70	15	50	<5	N
70	1,000	1.0	N	10	50	15	50	N	20
100	700	1.0	N	15	150	15	50	N	20
100	1,000	1.0	N	20	150	20	70	<5	<20
100	1,000	1.0	N	15	100	15	70	N	<20
20	1,000	1.5	N	30	150	20	70	N	20
150	700	1.0	N	15	100	20	70	N	20
150	1,000	1.0	N	20	100	20	70	N	20
70	700	1.0	N	15	100	20	20	<5	<20
100	1,000	1.0	N	15	100	15	30	N	<20
100	1,000	1.0	N	20	150	20	50	N	<20
150	700	<1.0	N	15	100	15	50	N	20
70	700	1.0	N	20	100	20	50	N	<20
50	700	1.0	N	20	70	30	20	N	N
50	500	<1.0	N	30	150	70	20	N	N
100	700	1.0	N	15	100	30	50	N	20
70	500	<1.0	N	30	150	70	30	N	N
70	1,000	<1.0	N	15	150	30	50	N	<20
70	1,000	1.0	N	10	150	15	50	N	<20
30	1,000	1.0	N	15	70	15	50	N	N
70	1,000	1.0	N	10	70	15	50	N	N
70	1,000	1.0	N	15	100	15	50	N	<20
70	700	1.0	N	10	100	10	70	N	<20
70	1,000	1.0	N	15	150	15	50	N	<20
100	700	1.0	N	10	50	15	50	N	20
100	700	1.0	N	10	70	10	50	N	<20
70	1,000	1.0	N	20	150	30	50	N	<20
150	1,000	2.0	N	15	150	20	50	N	<20
100	1,000	1.5	N	15	150	20	50	N	<20
100	700	3.0	N	15	100	20	70	N	<20
100	1,500	1.0	N	15	100	20	50	N	<20
100	1,500	1.5	N	15	200	20	50	N	<20
50	700	20.0	<10	7	100	15	100	7	20
100	1,000	2.0	N	15	150	20	70	<5	<20
100	1,000	3.0	N	15	100	20	100	<5	20
50	700	5.0	<10	15	50	10	70	N	<20

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
50	30	15	N	300	200	N	30	N	500	N
30	50	15	N	300	150	N	50	N	500	N
30	20	15	N	200	150	N	30	N	300	N
30	30	15	N	200	150	N	50	N	500	N
10	10	7	N	<100	70	N	20	N	70	N
5	<10	7	N	N	50	N	20	N	70	N
<5	<10	<5	N	N	50	N	10	N	50	N
15	10	10	N	<100	70	N	30	N	150	N
10	10	7	N	N	70	N	15	N	50	N
30	20	10	N	200	100	N	30	N	300	N
30	20	7	N	200	100	N	30	N	500	N
50	20	15	N	300	150	N	30	N	500	N
50	30	20	N	300	150	N	50	N	300	N
30	30	15	N	300	150	N	50	N	300	N
100	20	20	N	300	150	N	50	N	300	N
30	20	20	N	200	100	N	50	N	300	N
50	20	20	N	200	100	N	50	N	300	N
50	20	15	N	150	100	N	20	N	150	N
30	15	15	N	200	100	N	20	N	500	N
50	20	20	N	200	100	N	30	N	200	N
30	15	20	N	200	100	N	30	N	500	N
50	15	20	N	200	150	N	30	N	300	N
50	10	20	N	150	150	N	20	N	200	N
70	20	20	N	150	200	N	20	N	150	N
30	20	20	N	150	150	N	30	N	300	N
70	20	30	N	100	200	N	30	N	200	N
30	20	15	N	200	100	N	30	N	300	N
30	20	15	N	200	150	N	30	N	300	N
30	15	15	N	200	100	N	30	N	150	N
30	20	15	N	200	100	N	30	N	200	N
30	20	15	N	200	100	N	30	N	200	N
20	15	10	N	150	100	N	30	N	1,000	N
30	15	20	N	200	150	N	50	N	300	N
20	20	15	N	100	70	N	30	N	300	N
20	15	15	N	150	70	N	30	N	200	N
70	20	20	N	200	150	N	50	N	300	N
30	50	30	N	200	150	N	50	N	200	N
50	30	20	<10	200	150	N	50	N	500	N
30	30	20	N	150	150	N	50	N	700	N
30	30	30	N	200	150	N	50	N	300	N
30	50	30	N	300	150	N	50	N	200	N
30	50	15	30	<100	100	N	150	N	300	<100
50	50	20	10	200	150	N	70	N	300	<100
30	100	30	<10	100	150	N	150	N	700	<100
30	50	10	<10	100	70	N	70	N	700	<100

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 37 46	146 51 6	5.00	1.50	1.5	.700	1,000	N	N
65 38 58	146 53 34	5.00	1.50	.5	.700	1,500	N	N
65 38 58	146 52 17	5.00	1.50	.7	1.000	1,500	N	N
65 39 30	146 51 36	5.00	1.50	1.0	1.000	1,500	N	N
65 37 45	146 57 11	7.00	1.50	1.0	1.000	1,000	.5	N
65 37 54	146 56 17	3.00	1.50	.7	.700	1,000	<.5	N
65 36 15	146 58 40	7.00	2.00	2.0	.700	700	<.5	N
65 36 6	146 59 36	5.00	1.50	1.0	.700	700	N	N
65 14 40	146 21 47	3.00	1.50	1.5	.700	1,000	N	N
65 14 22	146 21 16	7.00	1.50	1.0	1.000	500	N	N
65 13 39	146 27 20	5.00	1.50	.7	1.000	500	N	N
65 13 46	146 25 59	5.00	2.00	2.0	1.000	1,000	N	N
65 17 5	146 28 32	5.00	1.50	.5	1.000	500	N	N
65 16 41	146 28 1	7.00	2.00	2.0	1.000	2,000	N	N
65 17 17	146 32 44	7.00	1.50	2.0	1.000	1,000	N	N
65 16 58	146 33 39	10.00	2.00	3.0	1.000	2,000	N	N
65 13 57	146 38 0	7.00	1.50	3.0	.700	2,000	N	N
65 13 45	146 39 3	7.00	2.00	2.0	1.000	3,000	N	N
65 12 5	146 40 0	7.00	1.50	3.0	.700	700	N	N
65 11 44	146 40 31	7.00	1.50	3.0	1.000	700	N	N
65 7 46	146 38 47	7.00	1.50	3.0	.700	1,000	N	N
65 7 50	146 39 35	5.00	1.50	2.0	1.000	700	N	N
65 6 10	146 40 44	5.00	1.50	3.0	1.000	1,000	N	N
65 5 40	146 40 23	7.00	1.50	2.0	1.000	1,000	N	N
65 3 5	146 26 26	1.50	1.00	.7	.300	300	N	N
65 3 51	146 26 2	1.00	.20	.3	.150	150	N	N
65 6 24	146 25 59	5.00	1.50	3.0	1.000	1,000	N	N
65 6 5	146 25 55	5.00	1.50	2.0	.700	700	N	N
65 12 6	146 27 41	7.00	2.00	3.0	1.000	1,500	N	N
65 11 49	146 26 53	10.00	2.00	3.0	1.000	3,000	N	N
65 12 9	146 24 37	7.00	1.50	3.0	1.000	2,000	N	N
65 12 23	146 23 53	10.00	2.00	3.0	1.000	3,000	N	N
65 12 51	146 21 2	5.00	1.50	1.5	.700	2,000	N	N
65 12 23	146 20 30	7.00	1.50	2.0	1.000	1,500	N	N
65 12 54	146 16 41	10.00	2.00	3.0	1.000	2,000	N	N
65 12 11	146 17 17	7.00	1.50	.5	.700	2,000	N	N
65 10 58	146 16 48	7.00	1.50	1.0	1.000	1,000	N	N
65 10 29	146 17 40	7.00	1.50	.5	.700	700	N	N
65 8 13	146 21 6	7.00	2.00	2.0	.700	1,500	N	N
65 7 40	146 20 53	7.00	2.00	2.0	.700	1,000	N	N
65 5 39	146 20 49	7.00	2.00	3.0	1.000	1,500	N	N
65 5 8	146 20 30	7.00	2.00	5.0	1.000	2,000	N	N
65 2 3	146 22 30	10.00	2.00	2.0	.700	2,000	N	N
65 1 37	146 22 23	10.00	2.00	3.0	1.000	1,500	N	N
65 1 50	146 15 11	7.00	2.00	3.0	1.000	1,500	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
100	1,000	5.0	<10	15	100	20	200	<5	20
100	1,500	3.0	N	20	100	20	500	<5	20
150	2,000	1.5	N	20	100	30	50	N	<20
100	1,500	2.0	N	20	100	20	50	N	<20
100	1,500	1.5	N	20	150	30	70	N	<20
100	1,500	1.5	N	15	100	30	70	N	<20
100	1,500	1.5	N	15	150	50	50	N	<20
100	1,000	2.0	N	15	100	15	50	<5	<20
100	1,000	1.0	N	15	200	15	50	N	<20
100	1,000	1.0	N	10	200	15	70	<5	<20
100	1,000	<1.0	N	10	200	20	70	N	<20
100	1,500	1.0	N	20	200	30	70	N	<20
70	500	<1.0	N	15	150	30	50	N	N
70	1,000	<1.0	N	20	200	50	50	N	<20
100	700	<1.0	N	15	200	50	50	N	<20
100	1,000	<1.0	N	20	150	50	50	N	<20
100	1,500	<1.0	N	15	200	15	70	N	<20
100	500	1.0	N	30	200	30	70	N	<20
70	1,000	<1.0	N	15	200	15	50	N	<20
100	1,000	<1.0	N	15	200	20	50	N	<20
100	1,500	<1.0	N	15	100	10	50	N	<20
70	700	<1.0	N	15	150	15	50	N	<20
100	1,000	<1.0	N	15	200	10	50	N	<20
70	1,500	<1.0	N	20	200	20	50	N	<20
20	700	1.0	N	7	70	15	50	N	N
<10	200	<1.0	N	<5	30	15	30	N	N
100	1,500	1.5	N	15	200	15	50	<5	20
70	1,000	1.0	N	15	150	20	50	N	<20
70	1,000	<1.0	N	20	200	15	50	N	<20
50	2,000	1.0	N	20	200	15	70	N	<20
100	1,500	1.0	N	15	200	20	50	N	<20
200	1,500	<1.0	N	20	200	30	70	N	<20
50	1,500	<1.0	N	15	150	15	50	N	N
100	1,500	<1.0	N	15	200	15	50	N	<20
70	1,500	1.0	N	20	200	20	70	N	<20
100	1,000	<1.0	N	10	200	15	30	<5	N
100	1,500	<1.0	N	10	150	10	50	N	<20
70	1,000	<1.0	N	15	200	15	70	N	<20
150	2,000	1.0	N	15	200	30	70	<5	<20
100	1,500	<1.0	N	15	200	30	50	N	<20
70	1,500	<1.0	N	15	150	15	50	N	<20
70	1,000	<1.0	N	15	200	10	50	N	<20
100	2,000	1.0	N	15	200	30	50	<5	<20
100	2,000	1.0	N	15	200	15	50	N	<20
70	2,000	1.0	N	20	300	30	70	N	<20

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
30	50	30	50	150	100	N	150	N	700	<100
30	100	30	20	100	100	N	150	N	1,000	200
30	50	30	N	150	150	N	50	N	300	N
50	50	20	N	150	150	N	50	N	200	N
50	70	30	<10	200	150	N	50	N	500	N
30	100	20	10	200	150	N	50	N	300	N
30	50	20	15	200	150	N	50	N	200	N
50	20	10	10	200	100	N	50	N	500	N
30	20	10	<10	200	100	N	30	N	200	N
30	30	20	N	200	150	N	50	N	500	N
20	30	20	N	150	150	N	50	N	500	N
30	30	20	N	200	150	N	50	<200	500	N
30	20	15	N	100	100	N	30	N	300	N
30	20	20	N	150	200	N	30	N	200	N
30	20	20	N	150	100	N	30	N	500	N
30	20	30	N	150	150	N	70	N	300	N
30	20	20	N	200	100	N	50	N	300	N
50	30	20	N	200	200	N	50	N	300	N
30	20	15	N	300	150	N	30	N	500	N
30	20	20	N	300	150	N	50	N	500	N
20	30	20	N	300	150	N	30	N	700	N
30	20	15	N	200	100	N	20	N	500	N
30	20	20	N	300	100	N	50	N	700	N
30	30	20	N	300	150	N	50	N	500	N
20	15	15	N	<100	100	N	30	N	100	N
20	<10	7	N	N	30	N	20	N	50	N
30	30	20	N	300	150	N	70	N	500	N
30	30	20	N	200	100	N	30	N	300	N
30	20	20	N	200	100	N	30	N	500	N
30	50	20	N	300	200	N	30	N	300	N
30	20	20	N	300	150	N	50	N	700	N
50	50	20	N	500	150	N	50	N	300	N
30	30	15	N	150	150	N	30	N	700	N
30	20	20	N	200	150	N	30	N	500	N
50	30	20	N	300	150	N	50	N	500	N
30	20	15	N	100	100	N	30	N	>1,000	N
20	30	15	N	200	150	N	30	N	1,000	N
30	20	15	N	100	100	N	20	N	300	N
50	30	20	N	300	150	N	50	N	500	N
30	30	15	N	200	150	N	30	N	500	N
20	20	15	N	200	150	N	30	N	700	N
20	20	20	N	300	100	N	30	N	700	N
30	50	20	N	200	150	N	30	N	300	N
30	30	20	N	300	150	N	50	N	700	N
30	30	20	N	300	150	N	50	N	500	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 1 32	146 14 18	7.00	2.00	3.0	1.000	1,500	N	N
65 36 11	146 56 8	7.00	2.00	.5	.700	1,000	<.5	N
65 35 17	146 57 25	7.00	1.50	1.5	.700	1,500	<.5	N
65 35 22	146 56 13	7.00	1.50	.7	.500	1,000	1.0	N
65 33 6	146 57 33	7.00	1.50	2.0	.700	2,000	N	N
65 31 46	146 56 25	5.00	1.50	.7	.700	500	N	N
65 27 46	146 57 15	5.00	1.50	.7	.700	700	N	N
65 25 3	146 58 5	10.00	2.00	2.0	1.000	1,000	N	N
65 25 27	146 58 15	7.00	1.50	.5	1.000	1,000	N	N
65 22 49	146 59 2	7.00	1.50	3.0	1.000	700	N	N
65 20 0	146 59 16	7.00	1.50	3.0	1.000	700	N	N
65 20 16	146 58 8	5.00	1.50	2.0	1.000	1,000	N	N
65 19 17	146 57 11	7.00	1.50	3.0	1.000	700	N	N
65 18 32	146 57 24	10.00	2.00	3.0	1.000	2,000	N	N
65 18 6	146 57 32	7.00	1.50	3.0	1.000	1,000	N	N
65 16 53	146 55 33	5.00	1.50	2.0	>1.000	700	N	N
65 16 32	146 56 4	5.00	1.50	2.0	1.000	500	N	N
65 14 49	146 57 36	10.00	3.00	5.0	>1.000	2,000	N	N
65 15 2	146 56 30	10.00	2.00	3.0	>1.000	1,000	N	N
65 13 44	146 59 44	10.00	2.00	3.0	1.000	1,000	N	N
65 11 48	146 57 15	10.00	2.00	3.0	1.000	2,000	N	N
65 11 23	146 56 45	10.00	1.50	2.0	.700	2,000	N	N
65 11 17	146 58 20	10.00	1.50	3.0	.700	500	N	N
65 10 23	146 59 12	7.00	1.50	3.0	1.000	1,000	N	N
65 11 11	146 54 33	7.00	1.50	3.0	1.000	1,000	N	N
65 13 17	146 46 27	7.00	1.50	2.0	>1.000	1,000	N	N
65 13 50	146 46 44	7.00	1.50	1.5	1.000	3,000	N	N
65 13 9	146 46 55	7.00	1.50	2.0	1.000	2,000	N	N
65 16 49	146 38 47	10.00	2.00	2.0	1.000	1,000	N	N
65 16 23	146 38 27	10.00	1.50	3.0	1.000	1,000	N	N
65 15 51	146 41 38	7.00	1.50	.7	1.000	1,000	N	N
65 15 24	146 43 50	7.00	1.50	5.0	1.000	1,000	N	N
65 15 32	146 44 35	10.00	2.00	2.0	1.000	1,000	N	N
65 16 20	146 43 53	10.00	2.00	3.0	1.000	1,000	N	N
65 19 50	146 46 27	5.00	1.50	.5	1.000	700	N	N
65 20 53	146 47 11	5.00	1.50	1.5	1.000	500	N	N
65 20 54	146 48 15	5.00	1.50	1.5	1.000	500	N	N
65 23 24	146 46 32	7.00	1.50	.7	1.000	1,000	N	N
65 23 43	146 45 50	5.00	1.50	1.5	1.000	1,500	N	N
65 25 0	146 48 15	5.00	1.50	1.0	1.000	700	N	N
65 24 42	146 48 43	5.00	1.50	1.0	1.000	1,000	N	N
65 25 54	146 47 4	5.00	1.50	1.5	1.000	1,500	1.0	N
65 26 11	146 45 46	5.00	1.50	2.0	1.000	1,000	N	N
65 28 48	146 48 21	5.00	1.50	.5	1.000	700	N	N
65 29 9	146 48 38	7.00	2.00	1.5	1.000	1,000	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
100	1,500	<1.0	N	15	150	20	50	N	<20
100	2,000	1.0	N	20	300	50	70	5	<20
100	1,500	3.0	N	20	150	50	70	N	<20
100	1,000	15.0	20	15	150	70	70	10	<20
100	1,000	<1.0	N	20	200	20	70	<5	<20
70	1,000	<1.0	N	20	300	15	50	N	<20
50	700	<1.0	N	15	150	10	50	N	N
100	1,500	1.0	N	10	200	30	50	N	N
70	500	1.0	N	15	150	30	50	N	N
70	1,000	<1.0	N	15	150	20	50	N	<20
70	1,000	1.0	N	15	200	15	50	N	<20
100	700	<1.0	N	15	150	10	50	N	<20
70	1,000	<1.0	N	15	200	15	30	N	<20
70	1,500	<1.0	N	20	300	20	70	N	<20
70	1,500	<1.0	N	15	200	15	50	N	N
100	1,000	1.0	N	10	150	15	50	N	<20
70	1,000	<1.0	N	10	150	10	30	N	<20
70	700	N	N	15	200	30	N	N	<20
100	500	<1.0	N	20	200	50	N	N	<20
100	1,500	<1.0	N	20	200	30	70	N	N
70	1,000	<1.0	N	30	200	30	70	N	<20
70	700	<1.0	N	20	200	15	30	N	N
70	1,000	1.0	N	15	300	30	50	N	N
70	1,000	1.0	N	15	200	20	50	N	N
70	1,000	1.0	N	15	200	20	50	N	N
150	1,000	1.0	N	20	200	15	70	N	20
100	1,000	1.0	N	30	200	20	70	N	<20
150	1,500	1.0	N	20	200	20	70	N	<20
100	1,000	1.0	N	20	200	50	50	N	<20
100	700	1.0	N	20	150	30	50	N	<20
100	1,000	1.0	N	20	150	20	50	N	<20
100	700	1.0	N	20	100	30	30	N	<20
100	1,000	1.0	N	20	150	50	50	N	<20
100	700	<1.0	N	20	100	30	30	N	<20
150	700	1.0	N	15	50	15	30	N	20
100	1,000	1.0	N	15	100	15	50	N	<20
100	1,000	1.0	N	15	100	15	70	N	<20
150	700	1.5	N	20	70	20	70	N	<20
150	1,000	1.5	N	15	100	15	70	N	<20
150	700	1.5	N	15	70	15	70	N	20
150	700	1.0	N	15	70	20	70	N	<20
100	1,000	1.0	N	20	100	20	70	N	20
100	1,000	1.0	N	20	150	20	70	N	<20
100	700	1.0	N	15	100	20	50	N	20
100	1,000	1.0	N	20	200	30	70	N	20

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
30	20	20	N	300	100	N	30	N	500	N
70	100	30	<10	200	150	N	50	200	300	N
50	70	20	<10	200	100	N	100	200	200	N
50	100	20	15	100	100	N	70	300	300	N
50	50	20	N	200	100	N	30	<200	300	N
50	20	20	N	150	100	N	30	N	200	N
20	20	15	N	100	100	N	20	N	300	N
50	30	20	N	200	150	N	50	N	500	N
30	20	20	N	100	150	N	30	N	500	N
30	20	20	N	200	150	N	30	N	500	N
30	20	20	N	200	150	N	30	N	300	N
30	15	15	N	150	100	N	30	N	300	N
30	20	15	N	200	150	N	50	N	700	N
50	30	20	N	200	200	N	50	N	700	N
30	20	20	N	200	150	N	50	N	500	N
30	20	20	N	200	100	N	50	N	1,000	N
30	20	15	N	200	100	N	30	N	300	N
30	20	30	N	<100	150	N	20	N	500	N
50	20	30	N	100	100	N	50	N	1,000	N
50	30	30	N	200	100	N	50	N	700	N
70	20	30	N	150	150	N	50	N	300	N
30	20	15	N	150	100	N	20	N	300	N
30	30	30	N	200	150	N	50	N	200	N
30	20	20	N	300	150	N	30	N	500	N
50	20	20	N	200	150	N	50	N	700	N
50	30	20	N	200	150	N	50	N	700	N
50	30	20	<10	200	100	N	50	N	200	N
50	30	20	N	200	150	N	50	N	700	N
50	30	20	N	200	150	N	50	N	300	N
30	20	20	N	150	150	N	50	N	300	N
50	20	20	N	200	150	N	30	N	500	N
30	20	20	N	150	150	N	30	N	300	N
50	30	20	N	150	200	N	30	N	300	N
30	20	20	N	150	200	N	50	N	500	N
20	20	7	N	150	70	N	20	N	300	N
30	30	15	N	200	100	N	30	N	500	N
30	20	15	N	200	100	N	70	N	500	N
30	20	15	<10	150	100	N	50	N	300	N
30	20	15	20	200	100	N	70	N	500	N
30	30	15	10	200	100	N	50	N	700	N
30	15	15	30	150	100	N	30	N	500	N
50	30	20	N	200	100	N	50	N	500	N
50	20	20	N	300	150	N	50	N	300	N
30	20	10	N	150	100	N	30	N	300	N
50	30	20	N	200	150	N	50	N	300	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 29 48	146 45 48	5.00	1.50	1.5	1.000	700	N	N
65 30 59	146 43 49	5.00	1.50	1.0	1.000	700	N	N
65 31 18	146 44 25	5.00	1.50	1.0	1.000	700	N	N
65 31 59	146 45 34	5.00	2.00	2.0	1.000	1,000	2.0	N
65 32 31	146 42 15	5.00	1.50	1.0	1.000	700	N	N
65 32 39	146 43 8	5.00	1.50	1.0	1.000	1,000	N	N
65 33 12	146 43 11	5.00	1.50	1.0	.700	1,000	N	N
65 33 45	146 47 3	5.00	1.50	1.5	1.000	1,500	N	N
65 34 35	146 45 33	5.00	1.50	2.0	1.000	1,500	.5	N
65 35 18	146 45 33	3.00	1.00	1.5	.700	1,000	.5	N
65 36 6	146 45 26	5.00	1.50	.5	1.000	1,500	N	N
65 37 18	146 43 28	5.00	1.50	1.0	.700	1,000	<.5	N
65 37 32	146 44 2	5.00	1.50	1.0	1.000	1,000	1.0	N
65 39 41	146 43 51	2.00	1.00	2.0	.500	700	N	N
65 40 8	146 44 39	5.00	1.50	1.0	1.000	1,000	<.5	N
65 42 6	146 43 13	5.00	1.50	2.0	1.000	1,500	N	N
65 41 39	146 43 32	5.00	2.00	2.0	.700	2,000	N	N
65 44 9	146 46 13	2.00	.70	2.0	.500	200	N	N
65 39 29	146 38 13	3.00	1.50	2.0	1.000	1,500	N	N
65 39 11	146 38 0	5.00	1.50	2.0	1.000	1,500	N	N
65 36 33	146 40 23	5.00	2.00	1.0	1.000	1,000	<.5	N
65 36 23	146 39 33	5.00	2.00	2.0	1.000	1,000	N	N
65 34 54	146 39 21	3.00	1.50	1.5	1.000	500	N	N
65 34 56	146 38 14	5.00	1.50	1.0	1.000	500	N	N
65 34 1	146 39 3	5.00	1.50	1.5	.700	700	N	N
65 30 52	146 40 5	1.00	.15	.7	.100	500	<.5	N
65 28 36	146 42 33	3.00	1.00	1.0	.500	500	N	N
65 26 54	146 42 1	10.00	1.50	3.0	1.000	1,000	N	N
65 26 17	146 41 58	7.00	1.50	3.0	1.000	1,000	N	N
65 24 24	146 38 35	7.00	1.50	1.5	1.000	1,000	N	N
65 24 35	146 39 11	10.00	1.50	2.0	1.000	1,000	N	N
65 22 24	146 40 28	1.50	.30	2.0	.200	700	N	N
65 20 53	146 40 0	10.00	1.50	.3	1.000	1,000	N	N
65 18 3	146 40 17	10.00	2.00	3.0	>1.000	1,000	N	N
65 18 11	146 32 52	15.00	2.00	1.5	1.000	1,500	N	N
65 19 0	146 28 13	10.00	2.00	2.0	1.000	1,000	N	N
65 21 44	146 29 25	7.00	1.50	1.0	1.000	1,000	N	N
65 21 33	146 28 18	10.00	2.00	1.0	1.000	1,500	N	N
65 23 47	146 25 6	7.00	1.50	1.0	1.000	1,000	N	N
65 24 11	146 25 2	7.00	1.50	.7	.700	1,500	N	N
65 24 1	146 22 6	10.00	1.50	1.0	1.000	1,500	N	N
65 24 4	146 21 46	10.00	2.00	2.0	1.000	2,000	N	N
65 26 57	146 19 41	7.00	1.50	2.0	.700	3,000	N	N
65 27 39	146 20 15	5.00	1.50	.5	.700	2,000	N	N
65 27 23	146 25 28	7.00	2.00	1.0	1.000	2,000	N	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
100	1,000	1.0	N	15	100	20	70	N	<20
150	700	5.0	N	15	100	15	70	N	20
150	700	1.5	N	15	150	15	50	<5	20
100	1,500	1.0	N	15	150	20	50	N	<20
100	700	1.0	N	15	100	15	70	N	<20
100	1,000	2.0	N	15	100	20	70	N	<20
100	1,500	1.0	N	15	100	20	70	N	<20
100	1,500	3.0	N	20	200	30	70	<5	<20
70	1,000	15.0	N	15	200	30	100	5	20
50	700	30.0	<10	10	70	20	50	<5	<20
150	1,000	1.0	N	15	100	20	50	N	<20
100	1,000	5.0	<10	10	100	20	200	<5	20
70	1,000	10.0	<10	15	100	20	100	<5	<20
50	700	7.0	N	7	50	15	100	<5	N
200	700	2.0	N	15	70	20	50	N	<20
100	1,500	3.0	N	20	100	30	100	N	20
100	1,500	3.0	N	20	100	50	100	N	<20
30	1,000	<1.0	N	N	50	15	N	N	N
100	1,500	5.0	N	15	100	30	200	N	20
70	1,500	<1.0	N	20	150	20	70	N	N
100	1,500	2.0	N	20	200	50	100	N	<20
100	1,500	2.0	N	15	150	30	200	N	20
70	1,000	1.0	N	15	100	20	100	N	<20
100	1,000	1.0	N	15	100	20	70	N	<20
50	700	1.5	N	10	100	15	30	N	N
10	300	1.5	N	N	20	20	N	N	N
70	700	1.5	N	10	50	15	30	N	N
100	1,000	1.5	N	20	200	30	70	N	20
150	1,000	1.0	N	15	150	20	70	N	20
150	1,000	2.0	N	15	150	20	50	N	<20
150	1,500	1.5	N	20	150	20	70	N	<20
20	500	1.0	N	N	20	10	50	N	N
200	1,000	1.5	N	15	100	20	50	N	<20
70	700	<1.0	N	20	150	70	30	N	N
100	1,500	1.0	N	30	200	70	50	N	<20
100	700	<1.0	N	20	150	50	30	N	N
100	1,000	1.0	N	15	70	15	70	N	<20
200	1,500	1.0	N	20	150	30	70	N	<20
150	1,000	1.5	N	20	100	30	70	N	<20
300	1,000	2.0	N	10	50	15	50	N	<20
200	1,000	2.0	N	15	100	20	50	N	20
200	1,500	1.5	N	20	200	20	50	<5	<20
50	1,500	1.0	N	20	150	15	70	N	N
200	700	7.0	N	15	100	15	70	N	20
100	1,000	5.0	N	15	150	30	70	N	<20

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
30	20	20	N	200	100	N	50	N	300	N
30	20	15	N	150	100	N	70	N	500	N
30	30	20	<10	200	100	N	50	N	500	N
30	30	20	N	200	150	N	50	N	300	N
30	20	20	N	200	100	N	30	N	500	N
30	50	20	15	150	100	N	70	N	300	N
30	30	20	N	150	100	N	50	N	300	N
50	30	30	N	200	150	N	70	N	700	N
50	100	20	15	200	150	N	100	500	700	<100
20	100	15	<10	100	100	N	70	300	300	<100
30	30	15	N	150	70	N	50	N	300	N
20	50	20	70	100	100	N	150	N	1,000	100
30	70	20	10	200	100	N	100	200	300	<100
20	20	15	N	200	70	N	70	N	200	N
20	50	15	15	150	70	N	50	N	700	N
30	70	20	N	200	100	N	100	N	700	N
30	70	20	10	200	100	N	100	N	500	N
15	10	10	N	200	70	N	20	N	150	N
30	70	20	<10	200	100	N	100	N	500	<100
50	20	20	N	200	100	N	50	N	200	N
50	100	30	10	100	100	N	100	200	300	N
30	100	20	N	200	100	N	100	<200	700	N
30	20	20	N	150	100	N	50	N	300	N
30	30	20	N	150	100	N	30	N	300	N
30	20	10	N	150	100	N	50	N	200	N
20	10	7	N	N	70	N	20	N	70	N
20	15	10	N	100	100	N	20	N	150	N
50	30	20	N	300	150	N	50	N	300	N
30	30	15	<10	200	100	N	70	N	500	<100
30	30	15	15	150	100	N	70	N	300	N
30	20	20	<10	200	150	N	70	N	500	N
10	<10	7	N	100	50	N	50	N	200	N
30	20	15	N	150	100	N	30	N	500	N
50	15	30	N	150	300	N	50	N	500	N
50	30	30	N	200	300	N	50	N	500	N
30	20	30	N	100	150	N	30	N	500	N
30	20	15	N	150	100	N	30	N	500	N
50	50	20	N	200	150	N	50	N	500	N
50	30	20	N	200	150	N	50	N	500	N
20	30	20	70	150	100	N	30	N	300	N
20	30	15	50	200	100	N	70	N	700	N
30	50	20	10	200	150	N	50	N	500	N
30	30	20	<10	200	150	N	30	N	300	N
20	20	15	50	150	70	N	100	N	500	N
50	30	20	15	200	100	N	50	N	300	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
30	20	20	N	200	100	N	50	N	300	N
30	20	15	N	150	100	N	70	N	500	N
30	30	20	<10	200	100	N	50	N	500	N
30	30	20	N	200	150	N	50	N	300	N
30	20	20	N	200	100	N	30	N	500	N
30	50	20	15	150	100	N	70	N	300	N
30	30	20	N	150	100	N	50	N	300	N
50	30	30	N	200	150	N	70	N	700	N
50	100	20	15	200	150	N	100	500	700	<100
20	100	15	<10	100	100	N	70	300	300	<100
30	30	15	N	150	70	N	50	N	300	N
20	50	20	70	100	100	N	150	N	1,000	100
30	70	20	10	200	100	N	100	200	300	<100
20	20	15	N	200	70	N	70	N	200	N
20	50	15	15	150	70	N	50	N	700	N
30	70	20	N	200	100	N	100	N	700	N
30	70	20	10	200	100	N	100	N	500	N
15	10	10	N	200	70	N	20	N	150	N
30	70	20	<10	200	100	N	100	N	500	<100
50	20	20	N	200	100	N	50	N	200	N
50	100	30	10	100	100	N	100	200	300	N
30	100	20	N	200	100	N	100	<200	700	N
30	20	20	N	150	100	N	50	N	300	N
30	30	20	N	150	100	N	30	N	300	N
30	20	10	N	150	100	N	50	N	200	N
20	10	7	N	N	70	N	20	N	70	N
20	15	10	N	100	100	N	20	N	150	N
50	30	20	N	300	150	N	50	N	300	N
30	30	15	<10	200	100	N	70	N	500	<100
30	30	15	15	150	100	N	70	N	300	N
30	20	20	<10	200	150	N	70	N	500	N
10	<10	7	N	100	50	N	50	N	200	N
30	20	15	N	150	100	N	30	N	500	N
50	15	30	N	150	300	N	50	N	500	N
50	30	30	N	200	300	N	50	N	500	N
30	20	30	N	100	150	N	30	N	500	N
30	20	15	N	150	100	N	30	N	500	N
50	50	20	N	200	150	N	50	N	500	N
50	30	20	N	200	150	N	50	N	500	N
20	30	20	70	150	100	N	30	N	300	N
20	30	15	50	200	100	N	70	N	700	N
30	50	20	10	200	150	N	50	N	500	N
30	30	20	<10	200	150	N	30	N	300	N
20	20	15	50	150	70	N	100	N	500	N
50	30	20	15	200	100	N	50	N	300	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 29 9	146 23 42	7.00	1.50	.5	>1.000	1,000	N	N
65 29 25	146 24 55	10.00	2.00	.5	1.000	2,000	N	N
65 30 38	146 20 49	7.00	1.50	.5	>1.000	1,500	N	N
65 30 15	146 20 41	7.00	1.50	.7	1.000	2,000	N	N
65 31 11	146 22 5	7.00	1.50	1.0	.700	1,500	N	N
65 31 4	146 23 44	7.00	1.50	.5	>1.000	1,500	N	N
65 26 39	146 14 16	7.00	1.50	.5	>1.000	1,500	N	N
65 25 28	146 14 3	3.00	1.00	.7	.700	500	N	N
65 25 22	146 15 20	10.00	1.50	.3	1.000	1,500	N	N
65 24 41	146 12 42	7.00	1.50	.7	1.000	2,000	N	N
65 24 7	146 15 46	7.00	2.00	1.0	1.000	2,000	5.0	N
65 23 56	146 17 8	10.00	2.00	1.5	1.000	1,500	N	N
65 21 28	146 20 29	10.00	2.00	.7	1.000	1,000	N	N
65 22 4	146 20 44	7.00	1.50	2.0	1.000	1,000	N	N
65 21 37	146 16 54	7.00	1.50	2.0	1.000	1,500	N	N
65 21 29	146 9 34	7.00	2.00	.5	1.000	1,500	N	N
65 18 33	146 17 29	7.00	2.00	1.0	1.000	1,000	N	N
65 19 4	146 21 48	10.00	2.00	2.0	1.000	1,500	N	N
65 18 48	146 21 15	7.00	2.00	.7	.700	2,000	N	N
65 16 48	146 35 17	5.00	1.50	1.0	1.000	1,000	.5	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 29 9	146 23 42	7.00	1.50	.5	>1.000	1,000	N	N
65 29 23	146 24 55	10.00	2.00	.5	1.000	2,000	N	N
65 30 38	146 20 49	7.00	1.50	.5	>1.000	1,500	N	N
65 30 15	146 20 41	7.00	1.50	.7	1.000	2,000	N	N
65 31 11	146 22 5	7.00	1.50	1.0	.700	1,500	N	N
65 31 4	146 23 44	7.00	1.50	.5	>1.000	1,500	N	N
65 26 39	146 14 16	7.00	1.50	.5	>1.000	1,500	N	N
65 25 28	146 14 3	3.00	1.00	.7	.700	500	N	N
65 25 22	146 15 20	10.00	1.50	.3	1.000	1,500	N	N
65 24 41	146 12 42	7.00	1.50	.7	1.000	2,000	N	N
65 24 7	146 15 46	7.00	2.00	1.0	1.000	2,000	5.0	N
65 23 56	146 17 8	10.00	2.00	1.5	1.000	1,500	N	N
65 21 28	146 20 29	10.00	2.00	.7	1.000	1,000	N	N
65 22 4	146 20 44	7.00	1.50	2.0	1.000	1,000	N	N
65 21 37	146 16 54	7.00	1.50	2.0	1.000	1,500	N	N
65 21 29	146 9 34	7.00	2.00	.5	1.000	1,500	N	N
65 18 33	146 17 29	7.00	2.00	1.0	1.000	1,000	N	N
65 19 4	146 21 48	10.00	2.00	2.0	1.000	1,500	N	N
65 18 48	146 21 15	7.00	2.00	.7	.700	2,000	N	N
65 16 48	146 35 17	5.00	1.50	1.0	1.000	1,000	.5	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s
65 29 9	146 23 42	7.00	1.50	.5	>1.000	1,000	N	N
65 29 25	146 24 55	10.00	2.00	.5	1.000	2,000	N	N
65 30 38	146 20 49	7.00	1.50	.5	>1.000	1,500	N	N
65 30 15	146 20 41	7.00	1.50	.7	1.000	2,000	N	N
65 31 11	146 22 5	7.00	1.50	1.0	.700	1,500	N	N
65 31 4	146 23 44	7.00	1.50	.5	>1.000	1,500	N	N
65 26 39	146 14 16	7.00	1.50	.5	>1.000	1,500	N	N
65 25 28	146 14 3	3.00	1.00	.7	.700	500	N	N
65 25 22	146 15 20	10.00	1.50	.3	1.000	1,500	N	N
65 24 41	146 12 42	7.00	1.50	.7	1.000	2,000	N	N
65 24 7	146 15 46	7.00	2.00	1.0	1.000	2,000	5.0	N
65 23 56	146 17 8	10.00	2.00	1.5	1.000	1,500	N	N
65 21 28	146 20 29	10.00	2.00	.7	1.000	1,000	N	N
65 22 4	146 20 44	7.00	1.50	2.0	1.000	1,000	N	N
65 21 37	146 16 54	7.00	1.50	2.0	1.000	1,500	N	N
65 21 29	146 9 34	7.00	2.00	.5	1.000	1,500	N	N
65 18 33	146 17 29	7.00	2.00	1.0	1.000	1,000	N	N
65 19 4	146 21 48	10.00	2.00	2.0	1.000	1,500	N	N
65 18 48	146 21 15	7.00	2.00	.7	.700	2,000	N	N
65 16 48	146 35 17	5.00	1.50	1.0	1.000	1,000	.5	N

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF NURE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s
200	700	2.0	N	15	150	20	50	<5	20
70	1,500	1.0	N	30	150	50	50	N	<20
200	1,000	2.0	N	15	50	20	50	N	20
70	700	1.0	N	10	70	15	30	N	<20
150	1,000	2.0	N	15	100	20	70	N	N
100	700	1.0	N	15	100	20	50	N	20
150	700	<1.0	N	15	70	20	30	N	20
70	700	1.0	N	7	70	20	50	<5	N
150	1,000	1.0	N	20	70	220	30	N	<20
150	1,500	<1.0	N	20	100	20	70	N	N
100	1,000	1.5	N	20	70	50	30	N	N
100	1,000	1.0	N	30	150	50	50	N	<20
150	1,500	1.0	N	20	200	50	50	N	20
150	1,000	1.5	N	15	150	20	50	N	<20
100	1,000	1.0	N	20	200	30	50	N	<20
150	1,000	1.0	N	20	150	30	50	N	20
150	700	1.0	N	20	150	50	50	N	20
100	700	1.0	N	20	200	50	50	N	N
100	1,000	1.0	N	20	200	30	50	N	N
100	1,000	1.0	N	15	100	30	50	N	20

TABLE 2.--RESULTS OF SPECTROGRAPHIC ANALYSES OF MORE STREAM-SEDIMENT SAMPLES FROM THE LIVENGOOD AND WESTERN 1/3 OF THE CIRCLE QUADRANGLES, ALASKA--Continued

Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
30	50	10	30	150	100	N	100	N	700	N
50	50	20	N	150	200	N	50	N	500	N
20	30	15	<10	200	70	N	70	N	700	N
20	30	10	N	150	100	N	50	N	500	N
30	20	15	N	200	100	N	50	N	300	N
30	30	15	N	150	100	N	50	N	700	N
30	20	10	N	150	70	N	50	N	1,000	N
20	30	15	N	<100	150	N	50	N	500	N
30	30	10	N	200	100	N	30	N	500	N
30	30	15	N	300	100	N	150	N	200	N
30	50	15	N	150	150	N	50	N	500	N
50	30	20	N	200	200	N	50	N	500	N
50	30	15	N	200	150	N	50	N	300	N
30	30	20	N	200	150	N	50	N	1,000	N
30	30	15	N	200	200	N	50	N	700	N
30	50	20	<10	150	150	N	50	N	500	N
30	50	15	N	150	150	N	50	N	700	N
50	20	20	N	300	150	N	50	N	300	N
50	30	20	N	200	100	N	50	N	200	N
50	20	20	N	150	100	N	30	N	500	N