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**Analytical results and sample locality map of stream-sediment
and heavy-mineral-concentrate samples from the Mt. Katmai quadrangle,
and portions of the Naknek, Afognak, and Iliamna quadrangles, Alaska**

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STUDIES RELATED TO AMRAP

The U.S. Geological Survey is required by the Alaskan National Interests Lands Conservation Act (Public Law 96-487, 1980), to survey certain Federal lands to determine their mineral values, if any. Results from the Alaska Mineral Resource Assessment Program (AMRAP) must be made available to the public and be submitted to the President and the Congress. This report presents analytical results of a geochemical survey of the Mt. Katmai quadrangle, and portions of the Naknek, Afognak, and Iliamna quadrangles, Alaska.

INTRODUCTION

During the summers of 1983-85, we conducted a reconnaissance geochemical survey of the Mt. Katmai quadrangle and portions of the Naknek, Afognak, and Iliamna quadrangles, Alaska (fig. 1). The area comprises approximately 10,000 mi² (26,000 km²) on the northern part of the Alaska Peninsula. The towns of Naknek and King Salmon lie in the northwestern portion of the study area. The study area encompasses much of the Katmai National Park and Preserve, as well as a part of the McNeil State Game Preserve. Very few roads exist throughout the quadrangles and access to much of the area is limited to air or boat travel.

The topographic relief in the study area is about 7090 ft. (2170 m), with a maximum elevation of 7090 ft. at the summit of Snowy Mountain. The relief is rugged and mountainous terrain with youthful stream drainages. Interstream uplands, underlain by extensive ground moraines, are covered by fields of grasses and low shrubs and have narrow, deeply incised drainages. Large glacial lakes preserved in the area were formed by the retreat of the glaciers from the terminal moraines (Keller and Reiser, 1959). The Valley of Ten Thousand Smokes, formed when the ash from the Mt. Katmai eruption of 1912 (Fenner, 1920), has been deeply incised and was not sampled. The climate is very wet; rainfall exceeds 200 inches per year.

Marine sedimentary rocks of the Mt. Katmai study area range in age from Jurassic through early Tertiary. Igneous rocks of Jurassic to early Tertiary age formed an early batholithic terrane that was the source for the extensive Naknek formation in the late Jurassic. The Kaguyak Formation of late Cretaceous age overlies the Naknek and is composed of littoral siltstone, sandstone and shale. Nonmarine siltstones shales, and coal-bearing units of Eocene age interfinger with volcanic rocks (Keller and Reiser, 1959). Basaltic to andesitic volcanic rocks form the active part of the Aleutian volcanic chain. Several of these volcanoes are active: Mt. Katmai erupted in 1912, Trident erupted in 1973, and Augustine, located just north of the study area, erupted in 1986. Mt. Mageik has an active hot-spring system in the summit caldera.

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. Heavy-mineral-concentrate-samples provide information about the chemistry of certain minerals in rock material eroded from the drainage basin upstream from each

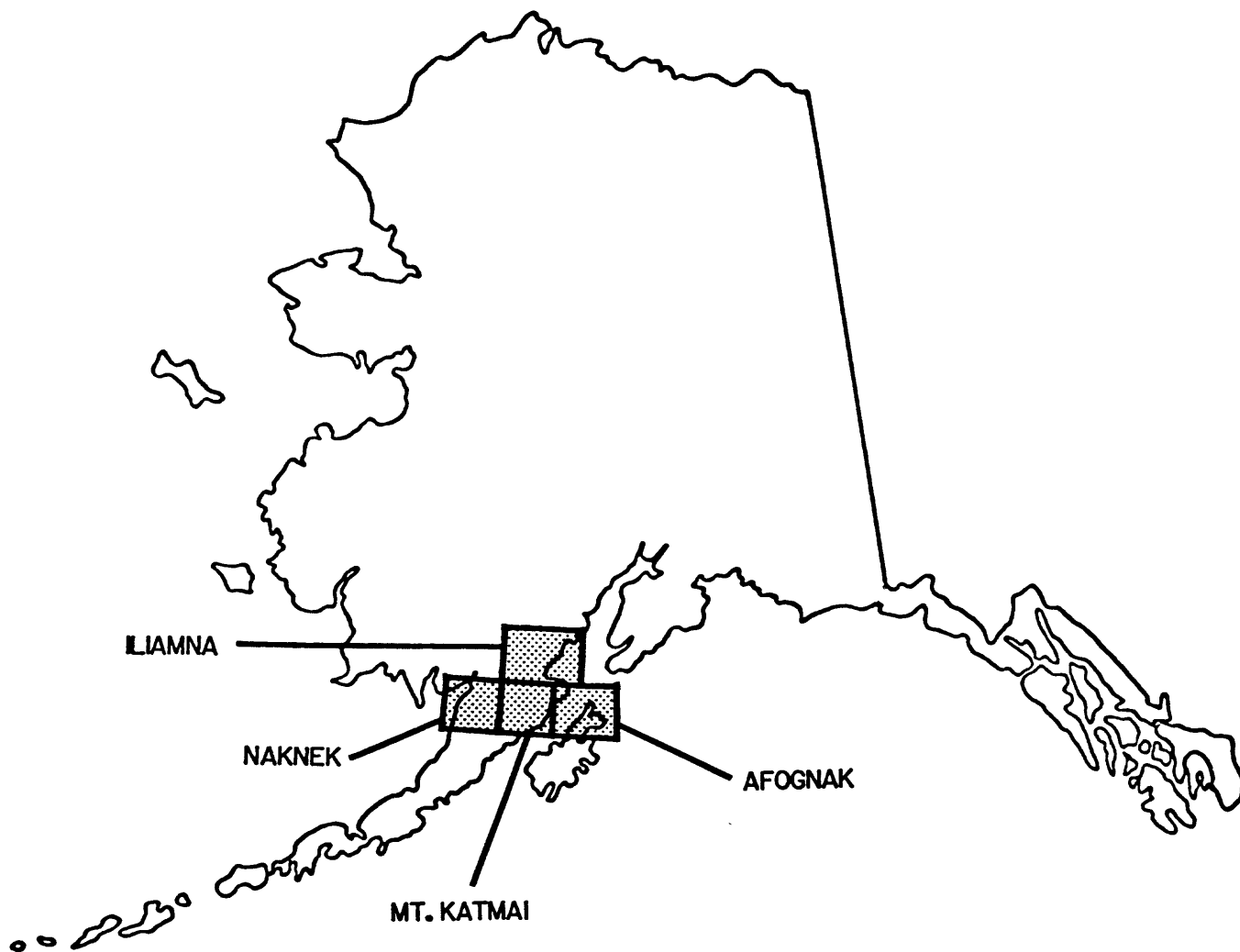


Figure 1. Index map of the Mt. Katmai, Naknek, Afognak, and Iliamna quadrangles, Alaska.

sample site. The selective concentration of minerals, many of which may be ore-related, permits determination of some elements that are not easily detected in stream-sediment samples.

Sample Collection

We collected samples at 1243 sites (plate 1). At nearly all of those sites, we collected both a stream-sediment sample and a heavy-mineral-concentrate sample. Sampling density was about 1 sample site per 5 mi² for the stream sediments and heavy-mineral concentrates; areas covered by glacial material were not sampled. The area of the drainage basins sampled ranged from 2 mi² to about 10 mi². Duplicate samples were taken at approximately every 20th site and are denoted by sample suffix SD in Table 2, or by sample suffix CD. Samples denoted by CRI and CR2 in table 3 refer to pairs of duplicate samples.

Stream-sediment samples

The stream-sediment samples consisted of active alluvium collected primarily from first-order (unbranched) and second-order (below the junction of two first-order) streams as shown on USGS topographic maps (scale = 1:63,360). Each sample was composited from several localities within an area that may extend as much as 100 ft. from the site plotted on the map.

Heavy-mineral-concentrate samples

We collected heavy-mineral-concentrate samples from the same active alluvium as the stream-sediment samples. Each bulk sample was screened with a 2.0-mm (10-mesh) screen to remove the coarse material. The less than 2.0-mm fraction was panned until most of the quartz, feldspar, organic material, and clay-sized material were removed. Several panned concentrates were obtained from altered or mineralized rock at sites where alteration was observed; these samples are designated with the suffix CM in Table 3.

Sample Preparation

The stream sediment samples were air dried, then sieved using 80-mesh (0.17 mm) stainless steel sieves. The portion of the sediment passing through the sieve was saved for analysis.

After air drying, we used bromoform (specific gravity = 2.8) to remove the remaining quartz and feldspar from the heavy-mineral-concentrate samples that had been panned in the field. The resultant heavy mineral sample was separated into three fractions using a large electromagnet (in this case a modified Frantz Isodynamic Separator). The most magnetic material, primarily magnetite, and a second fraction, largely ferromagnesian silicates and iron oxides, was not analyzed. The third fraction (the least magnetic material which may include the nonmagnetic ore minerals, zircon, sphene, etc.) was split using a Jones splitter. One split was hand-ground for spectrographic analysis; the other split was saved for mineralogical analysis. These magnetic separates are the same separates that would be produced by using a Frantz Isodynamic Separator set at a slope of 15° and a tilt of 10° with a current of 0.1 ampere to remove the magnetite and ilmenite, and a current of 1.0 ampere to split the remainder of the sample into paramagnetic and nonmagnetic fractions.

Sample Analysis

We analyzed the stream-sediment and heavy-mineral-concentrate samples 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). Values determined for the major elements (magnesium, calcium, iron, and titanium) are given in weight percent; all others are given in parts per million (micrograms/gram). Analytical results for stream-sediment and the heavy-mineral-concentrate samples are listed in tables 2 and 3, respectively.

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

Tables 2-3 list the analyses for the samples of stream sediment and heavy-mineral-concentrate samples respectively. For the two tables, the data are arranged so that column 1 contains the USGS-assigned sample-site 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. If an element was not looked for in a sample, two dashes (--) are entered in tables 2-3 in place of an analytical value. Because of the formatting used in the computer program that produced tables 2-3, some of the elements listed in these tables (Fe, Mg, Ca, Ti, Ag, and Be) carry one or more nonsignificant digits to the right of the significant digits. The analysts did not determine these elements to the accuracy suggested by the extra zeros.

ACKNOWLEDGMENTS

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REFERENCES CITED

- Fenner, C. N., 1920, The Katmai region, Alaska, and the great eruption of 1912: Jour. Geology, v. 28, p. 569-606.
- Grimes, D. J., and Marranzino, A. P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, 6 p.
- Keller, A. S., and Reiser, H. N., 1959, Geology of the Mount Katmai area, Alaska: U. S. Geological Survey Bulletin 1058 G, p. 261-298.
- Motooka, J. M., and Grimes, D. J., 1976, Analytical precision of one-sixth order semiquantitative spectrographic analyses: U.S. Geological Survey Circular 738, 25 p.
- VanTrump, George, Jr., and Miesch, A. T., 1977, The U.S. Geological Survey RASS-STATPAC system for management and statistical reduction of geochemical data: Computers and Geosciences, v. 3, p. 475-488.

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

[The spectrographic limits of determination for heavy-mineral-concentrate samples are based on a 5-mg sample, and are therefore two reporting intervals higher than the limits given for and stream sediments]

Elements	Lower determination limit	Upper determination limit
Percent		
Magnesium (Mg)	0.02	10
Calcium (Ca)	.05	20
Iron (Fe)	.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. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska
[N, not detected; <, detected but below the limit of detection shown; >, determined to be greater than the value shown]

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K0001S	58 30 47	153 58 59	.7	.70	3.0	.50	500	N	N	N	30	150
K0002S	58 29 36	154 2 8	1.0	1.00	7.0	.70	1,000	N	N	N	50	300
K0003S	58 32 4	154 5 47	1.0	1.00	5.0	.50	1,000	N	N	N	15	300
K0004S	58 31 2	154 11 26	1.0	1.00	5.0	.30	1,000	.5	N	N	20	300
K0005S	58 31 54	154 7 55	.7	1.00	2.0	.50	700	N	N	N	20	300
K0006S	58 32 38	154 14 42	1.0	1.00	2.0	.50	700	N	N	N	30	500
K0007S	58 32 37	154 14 53	1.0	1.00	3.0	.50	500	N	N	N	20	200
K0008S	58 32 9	154 13 39	1.0	1.00	5.0	.30	500	N	N	N	30	500
K0009S	58 31 54	154 13 55	1.0	1.00	3.0	.50	700	<.5	N	N	20	500
K0010S	58 31 29	154 15 59	1.0	1.50	3.0	.50	700	N	N	N	50	500
K0011S	58 31 9	154 17 26	1.0	1.00	5.0	.50	700	N	N	N	50	500
K0012S	58 30 52	154 18 27	1.0	1.00	5.0	.50	700	N	N	N	20	300
K0013S	58 30 46	154 18 30	1.0	1.00	5.0	.50	700	N	N	N	20	300
K0014S	58 30 29	154 17 41	2.0	2.00	7.0	.50	1,000	N	N	N	<10	100
K0015S	58 30 50	154 16 10	2.0	2.00	7.0	.70	700	<.5	N	N	30	200
K0016S	58 30 35	154 13 3	2.0	1.50	5.0	.70	1,000	N	N	N	20	300
K0017S	58 17 26	154 19 40	1.5	1.50	15.0	1.00	1,500	N	N	N	<10	100
K0018S	58 17 19	154 20 6	1.5	1.00	7.0	.70	1,000	N	N	N	10	200
K0019S	58 17 7	154 21 8	1.5	1.50	7.0	1.00	1,000	N	N	N	10	300
K0020S	58 19 24	154 19 40	2.0	1.50	7.0	.70	700	N	N	N	<10	100
K0021S	58 19 57	154 22 16	1.5	1.00	7.0	.70	700	N	N	N	15	150
K0022S	58 20 2	154 22 58	1.0	1.00	7.0	.70	1,000	N	N	N	50	150
K0023S	58 1 13	154 50 47	1.0	1.50	5.0	.50	700	N	N	N	50	100
K0024S	58 2 3	154 53 4	2.0	1.00	10.0	>1.00	1,000	N	N	N	<10	150
K0025S	58 5 38	154 52 55	2.0	1.50	10.0	>1.00	1,000	N	N	N	10	200
K0026S	58 3 34	154 53 26	1.0	1.00	10.0	1.00	1,000	N	N	N	15	200
K0027S	58 5 31	154 53 2	1.0	1.00	10.0	1.00	1,000	N	N	N	50	200
K0028S	58 7 57	154 52 23	1.5	1.00	10.0	1.00	1,000	N	N	N	10	100
K0029S	58 9 20	154 51 8	2.0	1.50	10.0	>1.00	1,000	N	N	N	10	200
K0030S	58 9 34	154 52 28	1.5	1.50	10.0	>1.00	1,000	N	N	N	15	100
K0031S	58 8 8	154 53 12	2.0	1.50	10.0	>1.00	1,000	N	N	N	10	200
K0032S	58 6 53	154 53 23	2.0	1.00	10.0	.70	1,000	<.5	N	N	<10	100
K0033S	58 5 35	154 55 11	2.0	1.00	15.0	1.00	1,500	N	N	N	10	300
K0034S	58 6 10	154 58 30	1.5	1.00	7.0	.70	1,000	N	N	N	15	200
K0035S	58 12 22	154 41 28	1.5	1.50	7.0	.70	1,000	N	N	N	10	200
K0036S	58 7 22	155 0 26	2.0	1.00	10.0	1.00	1,500	N	N	N	10	150
K0037S	58 12 18	154 41 34	2.0	1.00	10.0	1.00	1,500	N	N	N	<10	100
K0038S	58 11 38	154 42 53	2.0	1.50	10.0	1.00	1,500	N	N	N	<10	200
K0039S	58 11 26	154 43 18	2.0	1.00	10.0	1.00	1,000	N	N	N	<10	100
K0040S	58 4 32	154 32 59	2.0	1.50	10.0	1.00	1,500	N	N	N	<10	150
K0041S	58 6 7	154 30 38	1.0	1.00	5.0	.70	1,000	N	N	N	70	300
K0042S	58 6 44	154 32 45	1.5	1.00	7.0	.70	1,000	N	N	N	10	200
K0043S	58 6 56	154 34 49	1.5	1.00	10.0	1.00	1,000	N	N	N	<10	100
K0044S	58 6 54	154 36 36	1.5	1.50	10.0	1.00	1,500	N	N	N	10	200
K0045S	58 5 44	154 34 51	2.0	1.50	10.0	.70	1,000	N	N	N	10	200
K0046S	58 9 8	154 35 27	2.0	1.50	10.0	1.00	1,000	N	N	N	<10	200
K0047S	58 10 12	154 34 5	2.0	1.00	15.0	1.00	1,000	N	N	N	<10	100
K0048S	58 10 36	154 34 32	1.5	1.00	10.0	.70	1,000	N	N	N	15	200
K0049S	58 10 36	154 34 18	2.0	1.00	10.0	1.00	1,500	N	N	N	30	100
K0050S	58 10 40	154 36 24	2.0	1.00	10.0	>1.00	1,500	N	N	N	<10	100
K0051S	58 11 15	154 37 54	2.0	1.00	15.0	1.00	1,500	N	N	N	<10	100
K0052S	58 6 18	154 36 19	2.0	1.00	15.0	>1.00	1,500	N	N	N	<10	100
K0053S	58 0 27	154 47 9	1.5	1.00	15.0	1.00	1,500	N	N	N	<10	200
K0054S	58 2 12	154 46 47	2.0	1.00	10.0	.70	1,000	N	N	N	10	300
K0055S	58 2 16	154 46 42	1.5	1.00	7.0	.70	1,000	N	N	N	15	300
K0056S	58 0 55	154 44 12	1.5	.70	10.0	.70	1,000	N	N	N	10	300
K0057S	58 1 2	154 44 1	2.0	1.00	10.0	.70	1,000	N	N	N	10	500
K0058S	58 2 14	154 43 44	2.0	1.00	15.0	>1.00	1,500	N	N	N	<10	50
K0059S	58 4 48	154 43 12	2.0	1.00	10.0	1.00	1,500	N	N	N	20	150
K0060S	58 4 50	154 42 1	2.0	1.00	15.0	1.00	2,000	N	N	N	<10	70

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K0001S	N	N	N	20	50	20	N	N	N	15	N
K0002S	N	N	N	30	50	20	N	N	N	10	10
K0003S	N	N	N	20	50	20	N	N	N	15	10
K0004S	N	N	N	20	20	20	N	N	N	15	70
K0005S	N	N	N	15	30	15	N	N	N	15	N
K0006S	N	N	N	15	50	15	N	N	N	20	<10
K0007S	N	N	N	15	50	10	N	N	N	15	N
K0008S	N	N	N	20	70	30	N	N	N	30	10
K0009S	N	N	N	30	100	30	N	N	N	30	15
K0010S	<1.0	N	N	20	50	15	N	N	N	20	N
K0011S	N	N	N	20	50	15	N	N	N	20	<10
K0012S	N	N	N	20	50	10	N	N	N	20	N
K0013S	N	N	N	30	50	20	N	N	N	20	<10
K0014S	N	N	N	50	100	20	N	<5	N	20	<10
K0015S	N	N	N	50	70	30	N	N	N	20	20
K0016S	N	N	N	30	70	20	N	N	N	20	10
K0017S	N	N	N	100	100	15	N	N	N	20	<10
K0018S	N	N	N	30	100	20	N	N	N	20	10
K0019S	N	N	N	30	70	20	N	N	N	20	20
K0020S	N	N	N	50	200	20	N	N	N	50	<10
K0021S	N	N	N	30	150	20	N	N	N	30	10
K0022S	N	N	N	50	200	20	N	N	N	20	15
K0023S	N	N	N	30	50	30	N	N	N	20	10
K0024S	N	N	N	70	150	20	N	N	N	30	N
K0025S	N	N	N	70	150	30	N	N	N	30	N
K0026S	N	N	N	50	100	20	N	N	N	20	N
K0027S	N	N	N	50	100	30	N	N	N	20	10
K0028S	N	N	N	70	150	30	N	N	N	20	<10
K0029S	N	N	N	70	100	30	N	N	N	20	10
K0030S	N	N	N	100	200	15	N	N	N	20	N
K0031S	N	N	N	70	100	30	N	N	N	20	<10
K0032S	N	N	N	50	100	20	N	N	N	15	<10
K0033S	N	N	N	100	200	30	N	N	N	20	<10
K0034S	N	N	N	50	70	20	N	N	N	20	10
K0035S	<1.0	N	N	50	70	20	N	N	N	15	10
K0036S	N	N	N	50	150	30	N	N	N	20	N
K0037S	N	N	N	50	100	20	N	N	N	15	N
K0038S	N	N	N	50	70	20	N	N	N	20	<10
K0039S	N	N	N	70	100	20	N	N	N	20	N
K0040S	N	N	N	70	100	30	N	N	N	20	<10
K0041S	<1.0	N	N	30	100	20	N	N	N	20	<10
K0042S	<1.0	N	N	30	100	20	N	N	N	20	10
K0043S	N	N	N	50	100	20	N	N	N	20	N
K0044S	<1.0	N	N	70	200	20	N	N	N	20	15
K0045S	N	N	N	50	70	20	N	N	N	15	<10
K0046S	<1.0	N	N	50	150	20	N	N	N	20	<10
K0047S	N	N	N	70	150	30	N	N	N	30	<10
K0048S	N	N	N	30	70	20	N	N	N	10	20
K0049S	N	N	N	50	100	30	N	N	N	15	10
K0050S	N	N	N	100	150	20	N	N	N	20	N
K0051S	N	N	N	70	200	20	N	N	N	20	N
K0052S	N	N	N	100	150	30	N	N	N	20	N
K0053S	N	N	N	70	150	20	N	N	N	20	<10
K0054S	N	N	N	50	100	20	N	N	N	15	<10
K0055S	N	N	N	30	70	20	N	N	N	20	10
K0056S	N	N	N	50	150	20	N	N	N	20	10
K0057S	N	N	N	50	100	15	N	N	N	20	<10
K0058S	N	N	N	100	200	20	N	N	N	30	N
K0059S	N	N	N	70	150	20	N	N	N	20	15
K0060S	N	N	N	70	300	30	N	N	N	70	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K0001S	N	15	N	100	150	N	20	N	150	N
K0002S	N	20	N	200	200	N	30	N	200	N
K0003S	N	20	N	200	200	N	20	N	150	N
K0004S	N	20	N	150	200	N	20	300	100	N
K0005S	N	20	N	150	150	N	20	N	200	N
K0006S	N	20	N	200	150	N	30	N	150	N
K0007S	N	20	N	150	150	N	20	N	100	N
K0008S	N	20	N	200	200	N	20	N	70	N
K0009S	N	20	N	200	200	N	20	N	70	N
K0010S	N	20	N	200	200	N	30	N	150	N
K0011S	N	20	N	150	200	N	20	N	100	N
K0012S	N	20	N	100	150	N	20	N	100	N
K0013S	N	20	N	200	200	N	20	N	100	N
K0014S	N	50	N	200	300	N	20	N	50	N
K0015S	N	50	N	200	300	N	50	<200	70	N
K0016S	N	30	N	200	200	N	30	N	100	N
K0017S	N	50	N	200	700	N	50	200	100	N
K0018S	N	50	N	200	500	N	30	N	100	N
K0019S	N	30	N	200	200	N	30	N	70	N
K0020S	N	30	N	300	500	N	30	N	70	N
K0021S	N	20	N	300	300	N	20	N	70	N
K0022S	N	30	N	150	300	N	30	<200	300	N
K0023S	N	20	N	300	200	N	30	N	100	N
K0024S	N	50	N	100	700	N	30	200	100	N
K0025S	N	50	N	200	700	N	50	<200	100	N
K0026S	N	50	N	100	700	N	30	<200	200	N
K0027S	N	30	N	150	500	N	30	<200	150	N
K0028S	N	70	N	150	1,000	N	30	<200	70	N
K0029S	N	50	N	200	700	N	50	<200	100	N
K0030S	N	50	N	200	1,000	N	30	300	50	N
K0031S	N	50	N	200	700	N	50	<200	100	N
K0032S	N	50	N	100	700	N	20	<200	50	N
K0033S	N	50	N	150	1,000	N	50	300	70	N
K0034S	N	50	N	200	300	N	20	N	100	N
K0035S	N	50	N	200	300	N	30	200	100	N
K0036S	N	50	N	200	700	N	30	300	70	N
K0037S	N	50	N	200	700	N	30	200	100	N
K0038S	N	50	N	300	700	N	30	200	200	N
K0039S	N	50	N	200	700	N	30	200	70	N
K0040S	N	50	N	200	1,000	N	30	300	100	N
K0041S	N	20	N	200	300	N	20	<200	100	N
K0042S	N	30	N	200	500	N	20	200	100	N
K0043S	N	50	N	150	700	N	30	200	70	N
K0044S	N	70	N	200	500	N	50	200	100	N
K0045S	N	50	N	200	700	N	30	<200	100	N
K0046S	N	50	N	300	500	N	50	200	100	N
K0047S	N	50	N	200	1,000	N	30	<200	70	N
K0048S	N	30	N	200	200	N	30	200	100	N
K0049S	N	50	N	150	700	N	50	200	100	N
K0050S	N	50	N	200	1,000	N	30	500	100	N
K0051S	N	50	N	150	1,000	N	30	300	70	N
K0052S	N	50	N	150	1,000	N	30	500	70	N
K0053S	N	50	N	200	1,000	N	30	300	100	N
K0054S	N	50	N	200	500	N	30	<200	150	N
K0055S	N	30	N	200	300	N	20	<200	150	N
K0056S	N	30	N	200	1,000	N	20	200	200	N
K0057S	N	30	N	200	500	N	20	<200	100	N
K0058S	N	50	N	N	1,500	N	50	500	100	N
K0059S	N	50	N	150	700	N	30	300	70	N
K0060S	N	50	N	150	1,500	N	50	200	700	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K0061S	58 7 6	154 27 21	2.0	1.00	15.0	>1.00	1,500	N	N	N	<10	150
K0062S	58 7 32	154 27 39	1.5	1.00	10.0	1.00	1,500	N	N	N	<10	150
K0063S	58 9 45	154 28 1	1.5	1.50	10.0	1.00	1,500	N	N	N	<10	200
K0064S	58 10 55	154 29 2	1.5	1.50	10.0	1.00	1,000	N	N	N	10	200
K0065S	58 12 55	154 35 10	1.5	1.00	15.0	1.00	1,500	N	N	N	<10	100
K0066S	58 13 0	154 35 5	2.0	1.00	15.0	1.00	1,500	N	N	N	<10	100
K0067S	58 8 33	154 38 29	2.0	1.00	15.0	1.00	1,000	N	N	N	N	100
K0068S	58 9 40	154 36 27	2.0	1.00	10.0	1.00	1,500	N	N	N	<10	200
K0069S	58 11 21	154 38 39	2.0	1.00	7.0	.70	1,000	N	N	N	<10	200
K0070S	58 10 27	154 42 8	1.5	1.00	15.0	>1.00	1,500	N	N	N	<10	100
K0071S	58 10 28	154 41 54	1.5	1.00	10.0	1.00	1,000	N	N	N	<10	150
K0072S	58 9 41	154 41 57	2.0	1.50	10.0	1.00	2,000	N	N	N	10	300
K0073S	58 9 37	154 41 40	2.0	1.50	10.0	1.00	1,500	N	N	N	<10	200
K0074S	58 6 7	154 43 58	1.5	1.50	15.0	1.00	1,000	N	N	N	N	200
K0075S	58 5 55	154 43 57	2.0	1.00	10.0	1.00	1,000	N	N	N	20	150
K0076S	58 6 49	154 42 35	1.5	1.00	10.0	1.00	1,000	N	N	N	<10	150
K0077S	58 7 39	154 42 31	1.5	1.00	10.0	1.00	1,000	N	N	N	10	100
K0078S	58 9 5	154 42 4	1.5	.70	15.0	>1.00	1,000	N	N	N	<10	100
K0079S	58 11 42	154 29 44	2.0	1.00	10.0	1.00	1,000	N	N	N	10	150
K0080S	58 12 13	154 28 33	1.5	1.00	7.0	1.00	1,000	N	N	N	10	200
K0081S	58 11 42	154 24 21	1.0	.70	10.0	1.00	1,000	N	N	N	10	100
K0082S	58 12 6	154 24 40	1.5	1.00	7.0	.70	1,000	N	N	N	10	200
K0083S	58 10 16	154 25 51	1.5	1.00	7.0	1.00	1,000	N	N	N	10	200
K0084S	58 8 37	154 25 26	1.5	1.00	10.0	1.00	1,500	N	N	N	<10	150
K0085S	58 8 25	154 59 29	1.5	1.50	10.0	1.00	1,000	N	N	N	<10	200
K0086S	58 5 56	154 20 39	1.0	1.00	5.0	.70	700	N	N	N	20	200
K0087S	58 10 16	154 58 30	2.0	1.50	10.0	1.00	1,000	N	N	N	<10	150
K0088S	58 11 43	154 59 40	2.0	1.50	5.0	.70	1,000	N	N	N	10	200
K0089S	58 11 44	154 59 27	1.5	1.50	7.0	.70	1,000	N	N	N	10	200
K0090S	58 10 58	155 1 0	2.0	1.00	7.0	1.00	1,000	N	N	N	<10	150
K0091S	58 10 35	155 2 23	1.5	1.50	7.0	1.00	1,000	N	N	N	<10	200
K0092S	58 9 18	155 3 5	2.0	1.00	15.0	1.00	1,500	N	N	N	<10	100
K0093S	58 2 30	154 38 43	2.0	1.00	15.0	1.00	2,000	N	N	N	<10	150
K0094S	58 3 38	154 38 27	1.5	1.00	15.0	1.00	1,500	N	N	N	<10	100
K0095S	58 6 2	155 17 8	1.5	1.00	5.0	.70	1,000	N	N	N	20	300
K0096S	58 4 13	154 39 20	2.0	1.50	10.0	1.00	1,500	N	N	N	10	200
K0097S	58 2 28	154 33 23	1.0	.70	7.0	1.00	1,000	N	N	N	15	500
K0098S	58 6 9	155 17 6	1.5	1.00	7.0	.50	1,000	N	N	N	20	500
K0099S	58 1 34	155 13 27	1.0	.70	3.0	.30	1,000	N	N	N	15	300
K0100S	58 10 27	154 49 45	1.5	1.50	10.0	1.00	1,000	N	N	N	<10	150
K0101S	58 11 54	154 41 50	1.5	1.00	10.0	1.00	1,500	N	N	N	<10	150
K0102S	58 10 27	154 48 1	2.0	1.50	10.0	1.00	1,500	N	N	N	N	150
K0103S	58 10 28	154 45 39	1.5	1.00	10.0	1.00	1,000	N	N	N	<10	150
K0104S	58 10 17	154 45 58	1.5	1.00	10.0	1.00	1,000	N	N	N	10	200
K0105S	58 10 15	154 51 19	2.0	2.00	10.0	1.00	1,500	<.5	N	N	10	300
K0106S	58 8 36	154 47 33	1.5	1.50	5.0	.50	700	N	N	N	10	200
K0107S	58 12 54	154 29 37	1.5	1.00	10.0	1.00	1,000	N	N	N	<10	100
K0108S	58 12 35	154 32 16	2.0	1.50	10.0	1.00	1,000	N	N	N	15	300
K0109S	58 12 20	154 33 57	2.0	1.00	15.0	1.00	1,000	.7	N	N	<10	100
K0110S	58 10 59	154 37 37	2.0	1.00	10.0	1.00	1,500	N	N	N	<10	70
K0111S	58 10 24	154 37 9	1.5	1.00	10.0	1.00	1,000	N	N	N	<10	150
K0112S	58 5 59	154 40 28	2.0	1.00	10.0	.70	1,000	N	N	N	10	150
K0113S	58 7 12	154 40 52	1.5	1.00	10.0	1.00	1,000	.5	N	N	<10	70
K0114S	58 8 33	154 42 36	2.0	1.50	10.0	1.00	1,000	N	N	N	<10	100
K0115S	58 8 1	154 41 18	1.5	1.00	15.0	1.00	1,000	N	N	N	<10	70
K0116S	58 8 53	154 41 46	2.0	1.50	10.0	1.00	1,000	N	N	N	10	150
K0117S	58 8 14	154 21 13	1.5	1.00	10.0	1.00	1,500	N	N	N	<10	70
K0118S	58 9 31	154 20 10	2.0	1.00	15.0	1.00	1,000	N	N	N	<10	100
K0119S	58 9 10	154 18 50	1.5	.70	20.0	1.00	1,000	N	N	N	<10	70
K0120S	58 7 51	154 15 34	1.5	1.00	10.0	1.00	1,000	N	N	N	20	150

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K0061S	N	N	N	100	150	50	N	N	N	30	N
K0062S	N	N	N	70	70	20	N	N	N	15	N
K0063S	N	N	N	50	150	20	N	N	N	20	<10
K0064S	N	N	N	50	70	20	N	N	N	20	30
K0065S	N	N	N	100	200	30	N	N	N	20	N
K0066S	N	N	N	100	200	30	N	N	N	20	N
K0067S	N	N	N	70	200	20	N	N	N	20	10
K0068S	N	N	N	70	150	20	N	N	N	20	N
K0069S	N	N	N	30	100	20	N	N	N	15	<10
K0070S	N	N	N	100	200	20	N	N	N	20	N
K0071S	N	N	N	30	100	20	N	N	N	20	10
K0072S	N	N	N	50	100	20	N	N	N	15	N
K0073S	N	N	N	70	200	20	N	N	N	20	<10
K0074S	<1.0	N	N	70	150	20	N	N	N	30	10
K0075S	N	N	N	70	150	20	N	N	N	20	<10
K0076S	<1.0	N	N	50	200	20	N	N	N	20	10
K0077S	N	N	N	70	200	30	N	N	N	20	10
K0078S	N	N	N	70	150	30	N	N	N	20	<10
K0079S	N	N	N	50	150	30	N	N	N	20	<10
K0080S	N	N	N	30	100	30	N	N	N	20	15
K0081S	N	N	N	50	150	30	N	N	N	20	20
K0082S	N	N	N	30	100	20	N	N	N	20	10
K0083S	N	N	N	50	100	20	N	N	N	15	10
K0084S	N	N	N	70	150	30	N	N	N	20	<10
K0085S	N	N	N	50	100	20	N	N	N	20	10
K0086S	<1.0	N	N	20	100	20	N	N	N	20	10
K0087S	N	N	N	70	150	20	N	N	N	20	N
K0088S	N	N	N	30	70	20	N	N	N	15	10
K0089S	N	N	N	30	50	20	N	N	N	15	10
K0090S	N	N	N	50	100	20	N	N	N	15	N
K0091S	N	N	N	50	10	20	N	N	N	15	15
K0092S	N	N	N	100	150	30	N	N	N	20	<10
K0093S	N	N	N	100	200	30	N	N	N	30	<10
K0094S	N	N	N	70	200	30	N	N	N	30	<10
K0095S	N	N	N	30	70	20	N	N	N	20	10
K0096S	<1.0	N	N	70	100	20	N	N	N	20	10
K0097S	<1.0	N	N	30	100	20	N	N	N	20	10
K0098S	<1.0	N	N	30	70	20	N	N	N	20	10
K0099S	N	N	N	10	70	15	N	N	N	15	15
K0100S	N	N	N	30	70	20	N	N	N	15	20
K0101S	N	N	N	70	150	50	N	N	N	20	10
K0102S	N	N	N	70	150	30	N	N	N	20	10
K0103S	N	N	N	50	150	20	N	10	N	20	10
K0104S	<1.0	N	N	50	100	50	N	N	N	20	10
K0105S	<1.0	N	N	50	150	70	N	N	N	20	15
K0106S	N	N	N	30	50	20	N	N	N	20	15
K0107S	N	N	N	70	100	30	N	N	N	20	<10
K0108S	N	N	N	70	70	30	N	N	N	20	20
K0109S	N	N	N	70	100	30	N	N	N	20	50
K0110S	N	N	N	100	150	20	N	N	N	20	<10
K0111S	N	N	N	50	70	30	N	N	N	15	10
K0112S	N	N	N	50	70	30	N	N	N	20	10
K0113S	N	N	N	70	100	30	N	N	N	20	<10
K0114S	N	N	N	50	70	20	N	N	N	20	<10
K0115S	N	N	N	70	200	20	N	N	N	20	<10
K0116S	N	N	N	70	150	30	N	N	N	30	<10
K0117S	N	N	N	100	150	20	N	N	N	20	<10
K0118S	N	N	N	70	100	20	N	N	N	20	10
K0119S	N	N	N	100	200	30	N	N	N	20	<10
K0120S	N	N	N	50	200	20	N	N	N	20	10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K0061S	N	50	N	150	1,000	N	50	300	70	N
K0062S	N	50	N	200	1,000	N	20	500	100	N
K0063S	N	50	N	200	700	N	30	200	70	N
K0064S	N	50	N	500	500	N	30	N	100	N
K0065S	N	50	N	200	1,000	N	30	200	100	N
K0066S	N	50	N	150	1,000	N	30	200	100	N
K0067S	N	50	N	200	700	N	20	300	70	N
K0068S	N	70	N	200	1,000	N	50	200	70	N
K0069S	N	30	N	200	500	N	50	<200	100	N
K0070S	N	50	N	150	1,000	N	30	500	100	N
K0071S	N	50	N	150	500	N	20	200	100	N
K0072S	N	50	N	300	1,000	N	50	200	100	N
K0073S	N	70	N	200	1,000	N	50	300	70	N
K0074S	N	20	N	150	1,000	N	50	500	100	N
K0075S	N	50	N	100	700	N	30	<200	70	N
K0076S	N	30	N	150	700	N	20	<200	100	N
K0077S	N	50	N	100	700	N	30	<200	100	N
K0078S	N	50	N	N	700	N	30	<200	50	N
K0079S	N	50	N	100	500	N	30	200	100	N
K0080S	N	30	N	200	500	N	30	N	100	N
K0081S	N	30	N	<100	1,000	N	30	200	50	N
K0082S	N	30	N	200	500	N	30	<200	100	N
K0083S	N	50	N	150	500	N	30	200	100	N
K0084S	N	50	N	150	700	N	30	200	70	N
K0085S	N	30	N	200	500	N	30	200	100	N
K0086S	N	20	N	200	300	N	30	N	100	N
K0087S	N	50	N	150	700	N	30	<200	50	N
K0088S	N	20	N	200	200	N	30	N	100	N
K0089S	N	30	N	200	300	N	30	N	70	N
K0090S	N	50	N	150	500	N	30	<200	50	N
K0091S	N	30	N	200	500	N	30	200	50	N
K0092S	N	50	N	150	1,000	N	30	<200	50	N
K0093S	N	50	N	100	1,000	N	30	200	100	N
K0094S	N	30	N	100	1,000	N	30	300	50	N
K0095S	N	30	N	200	300	N	30	N	100	N
K0096S	N	50	N	150	700	N	50	300	70	N
K0097S	N	20	N	150	500	N	20	200	100	N
K0098S	N	20	N	150	200	N	30	N	200	N
K0099S	N	15	N	<100	150	N	20	N	100	N
K0100S	N	30	N	200	500	N	30	<200	70	N
K0101S	N	50	N	200	1,000	N	50	<200	100	N
K0102S	N	50	N	150	1,000	N	30	300	70	N
K0103S	N	50	N	150	500	N	30	200	70	N
K0104S	N	50	N	200	500	N	30	200	100	N
K0105S	N	30	N	200	500	N	50	N	100	N
K0106S	N	20	N	200	200	N	30	N	100	N
K0107S	N	50	N	100	700	N	30	200	70	N
K0108S	N	50	N	200	500	N	50	<200	100	N
K0109S	N	50	N	150	1,000	N	30	200	70	N
K0110S	N	50	N	150	700	N	50	200	50	N
K0111S	N	50	N	200	500	N	30	<200	70	N
K0112S	N	50	N	200	500	N	20	<200	70	N
K0113S	N	50	N	150	700	N	30	N	70	N
K0114S	N	50	N	200	500	N	30	<200	70	N
K0115S	N	50	N	100	1,000	N	30	<200	70	N
K0116S	N	50	N	300	700	N	50	<200	100	N
K0117S	N	50	N	150	1,000	N	30	200	100	N
K0118S	N	30	N	150	700	N	30	200	50	N
K0119S	N	50	N	150	1,000	N	50	300	50	N
K0120S	N	30	N	150	500	N	20	N	100	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. %	Ca-pct. %	Fe-pct. %	Ti-pct. %	Mn-ppm %	Ag-ppm %	As-ppm %	Au-ppm %	B-ppm %	Ba-ppm %
K0121S	58 10 41	154 17 6	1.5	1.00	10.0	1.00	1,000	N	N	N	<10	150
K0122S	58 11 58	154 20 37	1.0	1.00	10.0	1.00	1,000	N	N	N	<10	200
K0123S	58 12 32	154 19 5	1.5	1.00	15.0	1.00	1,500	N	N	N	<10	70
K0124S	58 12 7	154 16 44	1.5	1.50	7.0	.50	700	N	N	N	30	200
K0125S	58 12 0	154 13 45	2.0	1.00	10.0	1.00	1,000	N	N	N	15	100
K0126S	58 11 49	154 15 38	2.0	1.00	10.0	1.00	1,000	N	N	N	20	150
K0127S	58 18 15	154 11 7	1.5	1.50	7.0	.70	1,000	N	N	N	50	200
K0128S	58 17 22	154 12 58	2.0	1.00	10.0	1.00	1,000	N	N	N	10	100
K0129S	58 21 35	154 9 1	1.5	.70	10.0	1.00	1,000	N	N	N	<10	70
K0130S	58 21 33	154 10 33	2.0	1.00	15.0	1.00	1,000	N	N	N	<10	70
K0131S	58 19 56	154 13 28	1.5	1.50	7.0	.70	1,000	N	N	N	30	200
K0132S	58 19 23	154 15 12	1.5	1.00	10.0	1.00	1,000	N	N	N	100	150
K0133S	58 18 47	154 16 49	1.5	1.50	7.0	.70	1,000	N	N	N	20	150
K0134S	58 16 25	154 15 12	1.0	1.00	10.0	.70	700	N	N	N	70	100
K0135S	58 19 7	154 22 32	1.5	1.00	10.0	1.00	1,000	N	N	N	<10	100
K0136S	58 19 45	154 27 11	1.5	1.50	5.0	.50	700	N	N	N	15	100
K0137S	58 19 52	154 27 21	1.5	1.50	10.0	1.00	1,500	N	N	N	10	200
K0138S	58 20 46	154 24 8	1.0	1.00	5.0	.70	700	N	N	N	10	150
K0139S	58 20 50	154 23 57	1.0	1.00	5.0	.70	1,000	N	N	N	10	200
K0140S	58 14 57	154 16 43	1.5	1.00	10.0	1.00	1,000	N	N	N	150	200
K0141S	58 14 43	154 14 23	2.0	1.50	15.0	1.00	1,000	<.5	N	N	10	100
K0142S	58 14 37	154 13 58	1.5	1.00	15.0	1.00	1,000	N	N	N	<10	70
K0143S	58 15 43	154 13 33	1.5	1.00	10.0	1.00	1,000	N	N	N	30	100
K0144S	58 15 49	154 11 14	1.5	1.50	10.0	1.00	1,000	N	N	N	10	150
K0145S	58 13 38	154 10 42	2.0	1.00	15.0	1.00	1,500	N	N	N	<10	100
K0146S	58 12 51	154 12 23	2.0	1.00	10.0	1.00	1,000	N	N	N	10	70
K0147S	58 11 31	154 11 27	1.5	1.00	10.0	.10	1,000	N	N	N	70	150
K0148S	58 17 31	154 8 15	1.5	.70	10.0	.70	700	N	N	N	15	100
K0149S	58 14 36	154 33 46	1.5	.70	10.0	1.00	700	N	N	N	20	300
K0150S	58 14 39	154 33 58	2.0	1.50	15.0	>1.00	1,500	N	N	N	<10	100
K0151S	58 14 51	154 33 9	1.5	1.50	10.0	1.00	1,000	N	N	N	30	150
K0152S	58 13 32	154 29 51	1.5	1.00	10.0	.70	1,000	N	N	N	<10	150
K0153S	58 14 14	154 27 18	2.0	1.50	10.0	1.00	1,000	N	N	N	10	100
K0154S	58 13 10	154 28 1	2.0	1.50	10.0	1.00	1,000	N	N	N	20	150
K0155S	58 13 46	154 24 41	1.5	1.50	10.0	1.00	1,000	N	N	N	15	150
K0156S	58 14 12	154 21 32	1.5	1.00	7.0	.70	700	N	N	N	10	100
K0157S	58 44 20	153 46 43	1.0	1.00	3.0	.50	500	N	N	N	10	300
K0158S	58 43 36	153 45 18	1.5	1.00	5.0	.30	500	N	N	N	10	200
K0159S	58 43 0	153 45 30	1.0	1.00	3.0	.20	500	N	N	N	15	300
K0160S	58 42 50	153 45 40	1.0	.70	7.0	.30	300	N	N	N	<10	200
K0161S	58 42 11	153 44 35	1.0	1.00	3.0	.50	500	N	N	N	10	300
K0162S	58 42 22	153 44 21	1.0	1.00	5.0	.50	300	N	N	N	10	200
K0162SD	58 42 25	153 44 15	1.5	1.00	5.0	.70	500	N	N	N	20	300
K0163S	58 42 22	153 45 42	1.0	1.00	5.0	.30	500	N	N	N	15	150
K0164S	58 36 9	154 11 31	1.0	1.00	5.0	.50	500	N	N	N	10	300
K0165S	58 35 30	154 14 23	.7	.70	3.0	.30	500	N	N	N	15	300
K0166S	58 35 32	154 15 7	1.0	1.00	3.0	.30	500	N	N	N	15	300
K0167S	58 36 14	154 13 50	1.0	.70	3.0	.30	500	N	N	N	10	200
K0168S	58 36 52	154 13 22	1.0	1.00	2.0	.30	700	N	N	N	10	300
K0169S	58 37 29	154 12 58	1.5	1.00	5.0	.50	500	N	N	N	10	300
K0170S	58 37 28	154 12 46	1.0	.70	3.0	.30	300	N	N	N	20	300
K0171S	58 36 48	154 11 13	1.5	1.00	5.0	.50	700	N	N	N	10	300
K0172S	58 36 37	154 8 52	1.0	1.00	3.0	.20	500	N	N	N	10	300
K0173S	58 35 46	154 7 57	1.0	1.00	5.0	.70	700	N	N	N	10	300
K0174S	58 37 2	154 6 41	1.5	1.00	3.0	.20	500	N	N	N	10	200
K0175S	58 37 32	154 6 51	1.0	1.00	5.0	.50	500	N	N	N	15	500
K0176S	58 38 4	154 6 12	1.0	1.00	3.0	.30	500	N	N	N	15	300
K0177S	58 36 21	154 4 31	1.0	1.00	3.0	.30	500	N	N	N	10	300
K0178S	58 18 7	154 30 33	1.5	1.50	5.0	.50	700	N	N	N	15	300
K0179S	58 18 12	154 30 13	1.5	1.00	5.0	.70	700	N	N	N	15	200

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K0121S	N	N	N	50	100	20	N	N	N	20	15
K0122S	N	N	N	70	70	30	N	N	N	20	10
K0123S	N	N	N	70	150	30	N	N	N	20	<10
K0124S	N	N	N	20	50	20	N	N	N	10	15
K0125S	N	N	N	50	70	20	N	N	N	20	10
K0126S	N	N	N	50	100	30	N	N	N	15	10
K0127S	N	N	N	30	50	20	N	N	N	15	10
K0128S	N	N	N	50	70	20	N	N	N	20	10
K0129S	N	N	N	70	150	30	N	N	N	20	<10
K0130S	N	N	N	70	200	20	N	N	N	20	N
K0131S	N	N	N	30	50	20	N	N	N	15	10
K0132S	N	N	N	50	70	50	N	N	N	30	20
K0133S	N	N	N	20	50	20	N	N	N	15	30
K0134S	N	N	N	30	100	30	N	10	N	30	10
K0135S	N	N	N	50	100	30	N	N	N	30	10
K0136S	N	N	N	30	70	15	N	N	N	20	10
K0137S	<1.0	N	N	50	200	30	N	N	N	30	20
K0138S	N	N	N	20	50	15	N	N	N	10	10
K0139S	N	N	N	20	100	20	N	<5	N	20	10
K0140S	N	N	N	50	100	30	N	N	N	20	10
K0141S	N	N	N	100	100	30	N	N	N	20	200
K0142S	N	N	N	50	150	20	N	N	N	20	<10
K0143S	<1.0	N	N	50	100	20	N	N	N	20	<10
K0144S	N	N	N	50	100	30	N	N	N	20	10
K0145S	N	N	N	100	150	30	N	N	N	20	N
K0146S	N	N	N	70	100	20	N	N	N	20	N
K0147S	N	N	N	50	150	20	N	N	N	20	10
K0148S	N	N	N	50	100	20	N	N	N	30	10
K0149S	N	N	N	50	100	20	N	N	N	20	10
K0150S	N	N	N	100	200	50	N	N	N	50	N
K0151S	<1.0	N	N	50	200	30	N	N	N	30	<10
K0152S	N	N	N	70	100	30	N	N	N	20	15
K0153S	N	N	N	50	70	20	N	N	N	20	20
K0154S	<1.0	N	N	50	70	30	N	N	N	20	15
K0155S	N	N	N	50	100	30	N	N	N	20	15
K0156S	N	N	N	50	150	20	N	N	N	20	10
K0157S	<1.0	N	N	10	70	20	N	10	N	10	10
K0158S	N	N	N	15	100	20	N	<5	N	20	<10
K0159S	<1.0	N	N	10	70	20	N	<5	N	15	<10
K0160S	<1.0	N	N	10	30	50	N	5	N	20	15
K0161S	<1.0	N	N	15	70	20	N	N	N	10	15
K0162S	<1.0	N	N	15	150	30	N	N	N	20	15
K0162SD	N	N	N	20	150	50	N	5	N	30	15
K0163S	<1.0	N	N	15	100	30	N	N	N	50	10
K0164S	<1.0	N	N	15	50	10	N	N	N	15	N
K0165S	N	N	N	15	50	15	N	N	N	10	<10
K0166S	<1.0	N	N	10	50	15	N	N	N	20	<10
K0167S	N	N	N	10	70	7	N	N	N	15	N
K0168S	<1.0	N	N	10	50	10	N	N	N	15	10
K0169S	<1.0	N	N	15	50	15	N	N	N	20	<10
K0170S	<1.0	N	N	15	70	20	N	N	N	30	10
K0171S	<1.0	N	N	15	100	20	N	N	N	20	10
K0172S	<1.0	N	N	15	50	15	N	N	N	10	<10
K0173S	<1.0	N	N	15	100	20	100	N	N	10	10
K0174S	N	N	N	10	<10	7	N	N	N	5	<10
K0175S	<1.0	N	N	15	50	15	N	N	N	20	<10
K0176S	<1.0	N	N	15	70	20	N	N	N	20	<10
K0177S	<1.0	N	N	15	20	10	N	<5	N	7	10
K0178S	<1.0	N	N	30	50	15	N	30	N	30	<10
K0179S	N	N	N	20	100	20	N	N	N	15	15

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K0121S	N	50	N	200	500	N	30	<200	100	N
K0122S	N	50	N	100	500	N	30	<200	200	N
K0123S	N	50	N	100	1,000	N	30	200	100	N
K0124S	N	20	N	200	200	N	20	N	70	N
K0125S	N	50	N	200	500	N	30	<200	70	N
K0126S	N	50	N	200	700	N	30	<200	70	N
K0127S	N	30	N	200	300	N	20	N	100	N
K0128S	N	50	N	150	500	N	30	N	100	N
K0129S	N	50	N	150	500	N	20	200	100	N
K0130S	N	50	N	150	700	N	30	200	70	N
K0131S	N	30	N	200	300	N	30	N	70	N
K0132S	N	20	N	200	500	N	30	N	100	N
K0133S	N	30	N	300	300	N	20	N	70	N
K0134S	N	30	N	150	300	N	20	N	70	N
K0135S	N	50	N	200	700	N	20	<200	70	N
K0136S	N	30	N	300	200	N	30	N	70	N
K0137S	N	50	N	200	300	N	50	<200	150	N
K0138S	N	20	N	200	150	N	20	N	100	N
K0139S	N	20	N	150	300	N	30	N	150	N
K0140S	N	30	N	200	500	N	30	<200	100	N
K0141S	N	50	N	200	700	N	50	<200	70	N
K0142S	N	30	N	100	1,000	N	20	200	100	N
K0143S	N	30	N	200	500	N	30	N	100	N
K0144S	N	50	N	200	500	N	30	N	70	N
K0145S	N	70	N	100	1,000	N	30	500	100	N
K0146S	N	50	N	100	500	N	30	<200	70	N
K0147S	N	50	N	100	500	N	30	<200	70	N
K0148S	N	20	N	100	300	N	20	N	70	N
K0149S	N	50	N	200	300	N	30	N	100	N
K0150S	N	50	N	200	1,000	N	30	200	70	N
K0151S	N	50	N	300	300	N	30	<200	100	N
K0152S	N	50	N	150	500	N	30	N	100	N
K0153S	N	50	N	200	500	N	30	200	70	N
K0154S	N	50	N	300	300	N	50	<200	100	N
K0155S	N	20	N	200	500	N	30	<200	100	N
K0156S	N	50	N	200	300	N	30	N	70	N
K0157S	N	20	N	300	100	N	30	N	300	N
K0158S	N	20	N	200	150	N	30	N	200	N
K0159S	N	15	N	200	100	N	20	N	100	N
K0160S	N	20	N	100	100	N	30	N	200	N
K0161S	N	20	N	500	150	N	50	N	300	N
K0162S	N	20	N	200	150	N	20	N	100	N
K0162SD	N	20	N	300	150	N	50	N	150	N
K0163S	N	20	N	300	150	N	20	N	70	N
K0164S	N	20	N	200	150	N	30	N	100	N
K0165S	N	20	N	200	100	N	30	N	100	N
K0166S	N	15	N	200	150	N	20	N	70	N
K0167S	N	20	N	100	150	N	20	N	100	N
K0168S	N	15	N	200	150	N	20	N	50	N
K0169S	N	20	N	200	100	N	30	N	70	N
K0170S	N	20	N	300	100	N	20	N	70	N
K0171S	N	20	N	500	150	N	20	N	150	N
K0172S	N	15	N	300	150	N	30	N	100	N
K0173S	N	20	N	300	150	N	50	N	200	N
K0174S	N	20	N	200	100	N	30	N	70	N
K0175S	N	20	N	300	150	N	30	N	70	N
K0176S	N	20	N	200	150	N	20	N	150	N
K0177S	N	20	N	150	150	N	30	N	100	N
K0178S	N	20	N	500	100	N	30	N	100	N
K0179S	N	20	N	200	200	N	20	N	100	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K0180S	58 16 28	154 36 39	1.0	1.00	5.0	.50	500	N	N	N	15	300
K0181S	58 16 11	154 31 55	1.0	.70	3.0	.50	500	N	N	N	20	200
K0182S	58 17 7	154 26 42	1.5	1.00	10.0	.70	700	N	N	N	10	200
K0183S	58 17 2	154 24 44	2.0	1.50	7.0	.70	700	N	N	N	<10	200
K0184S	58 15 25	154 29 57	1.5	.70	15.0	>1.00	1,000	N	N	N	<10	200
K0185S	58 22 42	154 14 36	1.5	.70	15.0	1.00	1,000	N	N	N	<10	200
K0185SD	58 22 42	154 14 38	1.5	1.00	7.0	1.00	700	N	N	N	10	200
K0186S	58 22 46	154 14 27	1.5	.70	7.0	.70	1,000	N	N	N	15	300
K0187S	58 22 53	154 13 21	2.0	1.00	10.0	1.00	1,000	N	N	N	<10	200
K0188S	58 22 1	154 17 17	1.5	1.00	5.0	.70	700	N	N	N	20	300
K0189S	58 21 16	154 16 4	1.5	1.00	10.0	1.00	500	N	N	N	<10	200
K0190S	58 20 52	154 15 26	1.0	.50	10.0	1.00	700	N	N	N	15	200
K0191S	58 21 13	154 6 12	1.5	1.00	7.0	.50	700	N	N	N	10	200
K0192S	58 21 28	154 3 0	2.0	1.00	10.0	>1.00	700	N	N	N	10	200
K0193S	58 22 56	154 1 8	1.0	1.00	5.0	.30	700	N	N	N	15	200
K0194S	58 23 52	154 1 48	1.5	1.00	5.0	.50	700	N	N	N	10	200
K0195S	58 25 39	154 12 0	1.5	1.00	5.0	.50	500	.5	N	N	20	200
K0196S	58 26 28	154 11 9	2.0	1.50	5.0	.30	700	N	N	N	10	300
K0197S	58 22 52	154 8 10	1.5	1.00	5.0	.50	500	N	N	N	30	200
K0198S	58 8 17	155 18 40	1.5	1.00	5.0	.50	700	N	N	N	15	300
K0199S	58 6 56	155 18 3	1.5	1.00	5.0	.30	700	N	N	N	15	200
K0200S	58 6 34	155 16 32	1.0	.70	3.0	.50	500	N	N	N	10	300
K0201S	58 5 23	155 15 43	1.0	1.00	3.0	.20	700	N	N	N	10	500
K0202S	58 4 45	155 13 24	.7	1.00	3.0	.50	1,000	N	N	N	15	500
K0203S	58 4 17	155 13 59	1.0	1.00	3.0	.20	500	N	N	N	20	500
K0204S	58 3 13	155 15 8	1.5	1.00	2.0	.30	1,500	N	N	N	20	500
K0205S	58 3 13	155 13 31	1.0	1.00	3.0	.30	700	N	N	N	10	500
K0206S	58 1 29	155 16 10	.7	.70	2.0	.15	500	N	N	N	10	500
K0207S	58 1 38	155 16 13	1.0	.70	3.0	.30	1,500	N	N	N	10	500
K0208S	58 0 2	155 18 44	1.0	.70	3.0	.30	1,500	N	N	N	15	500
K0209S	58 0 0	155 12 0	1.5	1.00	3.0	.20	700	N	N	N	20	500
K0210S	58 1 37	155 10 15	1.0	1.00	2.0	.20	700	N	N	N	10	300
K0211S	58 1 44	155 9 0	1.0	.70	3.0	.50	1,000	N	N	N	20	500
K0212S	58 0 34	155 8 20	1.0	.70	3.0	.30	700	N	N	N	20	500
K0213S	58 1 6	155 5 54	1.0	.50	5.0	.30	500	N	N	N	50	300
K0214S	58 2 8	155 33 26	1.5	1.00	5.0	.50	700	N	N	N	10	500
K0215S	58 2 12	155 33 27	1.5	1.00	5.0	.30	500	N	N	N	15	300
K0216S	58 2 23	155 32 59	1.5	1.00	5.0	.30	700	N	N	N	20	500
K0217S	58 1 40	155 30 55	1.5	1.50	5.0	.50	700	N	N	N	15	500
K0217SD	58 1 40	155 30 55	1.5	1.00	5.0	.50	700	N	N	N	15	300
K0218S	58 1 31	155 30 36	1.5	1.00	5.0	.20	500	N	N	N	20	300
K0219S	58 2 34	155 36 2	1.0	1.00	3.0	.20	500	N	N	N	50	300
K0220S	58 1 6	155 29 48	1.0	1.00	2.0	.30	700	N	N	N	20	500
K0221S	58 0 25	155 29 6	1.5	1.00	3.0	.50	700	N	N	N	20	500
K0222S	58 0 43	155 33 58	1.0	1.00	3.0	.30	700	N	N	N	15	500
K0223S	58 1 2	155 35 20	1.5	.70	3.0	.20	500	N	N	N	10	300
K0224S	58 0 3	155 37 9	1.5	1.00	5.0	.30	1,000	N	N	N	15	500
K0225S	58 0 5	155 39 22	1.0	1.00	5.0	.30	1,000	<.5	N	N	20	300
K0226S	58 0 53	155 26 16	1.0	.70	3.0	.50	700	N	N	N	10	500
K0227S	58 4 50	155 29 18	1.5	1.00	3.0	.20	500	N	N	N	15	500
K0228S	58 4 51	155 29 11	1.0	.70	2.0	.30	700	N	N	N	10	500
K0229S	58 4 6	155 29 11	1.0	.70	3.0	.30	500	N	N	N	10	300
K0230S	58 3 23	155 29 11	1.5	1.50	5.0	.30	700	N	N	N	20	500
K0231S	58 3 18	155 29 0	1.5	1.00	2.0	.30	500	N	N	N	15	500
K0232S	58 3 13	155 29 16	1.5	1.00	5.0	.20	500	N	N	N	20	500
K0233S	58 3 32	155 9 11	1.5	1.00	2.0	.30	500	N	N	N	20	500
K0234S	58 3 27	155 9 13	1.0	1.00	2.0	.20	500	N	N	N	15	500
K0235S	58 2 44	155 7 50	1.0	1.00	3.0	.50	1,000	N	N	N	15	700
K0236S	58 1 28	155 4 21	1.0	1.00	3.0	.50	700	N	N	N	10	500
K0237S	58 3 56	155 2 10	1.0	.70	3.0	.20	500	N	N	N	30	300

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K0180S	<1.0	N	N	20	20	20	N	<5	N	7	10
K0181S	<1.0	N	N	10	50	20	N	N	N	15	10
K0182S	N	N	N	50	100	30	N	N	N	30	<10
K0183S	<1.0	N	N	20	100	10	N	N	N	20	10
K0184S	N	N	N	100	70	20	N	N	N	20	<10
K0185S	<1.0	N	N	70	100	20	N	N	N	30	10
K0185SD	N	N	N	30	70	30	N	N	N	20	15
K0186S	<1.0	N	N	50	150	30	N	N	N	30	10
K0187S	<1.0	N	N	50	100	20	N	N	N	20	<10
K0188S	<1.0	N	N	20	100	20	N	N	N	20	10
K0189S	<1.0	N	N	30	100	30	N	N	N	30	<10
K0190S	N	N	N	50	70	15	N	N	N	20	10
K0191S	N	N	N	50	100	10	N	N	N	15	10
K0192S	N	N	N	70	150	10	N	N	N	20	<10
K0193S	<1.0	N	N	20	70	20	N	N	N	15	10
K0194S	<1.0	N	N	20	30	15	N	N	N	15	10
K0195S	<1.0	N	N	20	70	20	N	<5	N	20	<10
K0196S	<1.0	N	N	20	70	20	N	N	N	20	<10
K0197S	<1.0	N	N	30	100	20	N	N	N	50	10
K0198S	<1.0	N	N	20	30	20	N	7	N	15	<10
K0199S	<1.0	N	N	20	50	20	N	<5	N	10	10
K0200S	<1.0	N	N	15	50	10	N	N	N	15	<10
K0201S	<1.0	N	N	10	50	20	30	N	N	N	<10
K0202S	N	N	N	10	50	10	N	N	N	15	<10
K0203S	N	N	N	10	70	20	N	N	N	15	10
K0204S	N	N	N	15	50	20	30	N	N	20	<10
K0205S	<1.0	N	N	10	50	15	N	N	N	20	10
K0206S	N	N	N	10	30	10	70	N	N	10	N
K0207S	<1.0	N	N	10	50	15	N	N	N	15	<10
K0208S	N	N	N	15	50	15	50	N	N	10	<10
K0209S	<1.0	N	N	15	50	20	N	N	N	15	15
K0210S	N	N	N	10	50	15	50	N	N	10	<10
K0211S	<1.0	N	N	15	50	10	N	N	N	15	<10
K0212S	<1.0	N	N	10	30	20	N	N	N	15	10
K0213S	N	N	N	20	50	30	N	N	N	15	15
K0214S	<1.0	N	N	20	100	30	N	N	N	30	<10
K0215S	N	N	N	20	70	30	N	N	N	20	10
K0216S	N	N	N	15	150	30	N	N	N	30	<10
K0217S	<1.0	N	N	20	70	20	N	N	N	20	<10
K0217SD	N	N	N	20	70	30	N	N	N	30	10
K0218S	N	N	N	15	50	20	N	N	N	20	10
K0219S	N	N	N	15	50	20	N	15	N	20	10
K0220S	<1.0	N	N	15	50	20	N	N	N	20	<10
K0221S	<1.0	N	N	15	70	20	N	N	N	30	10
K0222S	<1.0	N	N	15	70	20	N	N	N	30	<10
K0223S	N	N	N	10	70	20	N	N	N	20	10
K0224S	N	N	N	15	50	20	N	N	N	15	10
K0225S	N	N	N	20	20	20	N	N	N	10	20
K0226S	<1.0	N	N	15	50	15	N	N	N	20	<10
K0227S	N	N	N	15	70	20	N	N	N	20	10
K0228S	<1.0	N	N	15	50	20	N	N	N	20	<10
K0229S	N	N	N	15	70	20	N	N	N	30	10
K0230S	N	N	N	20	100	30	N	N	N	20	10
K0231S	<1.0	N	N	10	70	20	N	N	N	20	10
K0232S	N	N	N	15	70	20	N	N	N	20	10
K0233S	<1.0	N	N	10	100	20	N	N	N	20	10
K0234S	N	N	N	15	50	10	N	N	N	15	<10
K0235S	<1.0	N	N	15	50	15	N	N	N	15	<10
K0236S	N	N	N	15	50	20	N	N	N	20	<10
K0237S	<1.0	N	N	15	50	20	N	N	N	10	10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K0180S	N	20	N	200	150	N	50	N	100	N
K0181S	N	20	N	200	150	N	30	N	100	N
K0182S	N	20	N	300	200	N	20	N	70	N
K0183S	N	30	N	300	150	N	30	N	70	N
K0184S	N	30	N	200	500	N	15	N	50	N
K0185S	N	30	N	150	500	N	20	N	50	N
K0185SD	N	30	N	200	500	N	20	N	70	N
K0186S	N	20	N	150	200	N	20	N	70	N
K0187S	N	30	N	<100	300	N	30	N	100	N
K0188S	N	20	N	500	150	N	30	N	200	N
K0189S	N	20	N	200	200	N	30	N	50	N
K0190S	N	30	N	200	200	N	20	N	70	N
K0191S	N	20	N	200	150	N	20	N	70	N
K0192S	N	20	N	200	300	N	20	N	100	N
K0193S	N	20	N	150	150	N	20	N	70	N
K0194S	N	20	N	200	150	N	20	N	50	N
K0195S	N	20	N	300	200	N	20	N	100	N
K0196S	N	20	N	500	150	N	30	N	70	N
K0197S	N	20	N	300	150	N	20	N	100	N
K0198S	N	20	N	300	150	N	30	N	100	N
K0199S	N	20	N	500	150	N	30	N	100	N
K0200S	N	20	N	200	100	N	20	N	50	N
K0201S	N	15	N	100	150	N	30	N	300	N
K0202S	N	20	N	200	150	N	30	N	100	N
K0203S	N	20	N	200	100	N	20	N	150	N
K0204S	N	20	N	200	150	N	30	N	100	N
K0205S	N	20	N	150	150	N	30	N	100	N
K0206S	N	15	N	150	100	N	20	N	70	N
K0207S	N	20	N	100	100	N	30	N	150	N
K0208S	N	20	N	200	100	N	30	N	200	N
K0209S	N	20	N	300	150	N	20	N	200	N
K0210S	N	20	N	200	150	N	20	N	200	N
K0211S	N	20	N	100	150	N	30	N	150	N
K0212S	N	15	N	100	100	N	20	N	100	N
K0213S	N	20	N	150	100	N	20	N	100	N
K0214S	N	20	N	300	200	N	30	N	100	N
K0215S	N	20	N	200	200	N	20	N	70	N
K0216S	N	20	N	300	150	N	30	N	70	N
K0217S	N	20	N	500	150	N	30	N	70	N
K0217SD	N	20	N	300	150	N	20	N	100	N
K0218S	N	20	N	300	150	N	30	N	150	N
K0219S	N	20	N	200	150	N	20	N	70	N
K0220S	N	20	N	200	150	N	30	N	200	N
K0221S	N	20	N	300	150	N	30	N	70	N
K0222S	N	20	N	200	100	N	20	N	100	N
K0223S	N	20	N	200	150	N	20	N	50	N
K0224S	N	20	N	200	150	N	20	N	50	N
K0225S	N	20	N	300	150	N	20	<200	70	N
K0226S	N	20	N	300	150	N	20	N	100	N
K0227S	N	20	N	200	150	N	20	N	100	N
K0228S	N	20	N	200	100	N	30	N	150	N
K0229S	N	20	N	150	150	N	20	N	100	N
K0230S	N	20	N	500	150	N	30	N	100	N
K0231S	N	20	N	200	100	N	30	N	100	N
K0232S	N	20	N	300	150	N	20	N	70	N
K0233S	N	20	N	200	150	N	30	N	100	N
K0234S	N	20	N	300	100	N	20	N	150	N
K0235S	N	20	N	200	150	N	30	N	200	N
K0236S	N	20	N	300	150	N	30	N	100	N
K0237S	N	20	N	200	100	N	20	N	100	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K0238S	58 6 46	155 27 39	1.0	.70	2.0	.30	700	N	N	N	20	500
K0239S	58 6 48	155 27 39	1.5	.70	3.0	.30	1,000	N	N	N	20	500
K0240S	58 6 42	155 27 15	1.0	.50	3.0	.20	500	N	N	N	15	500
K0241S	58 4 38	155 25 58	1.0	.70	2.0	.20	700	N	N	N	20	500
K0242S	58 3 44	155 24 42	1.0	1.00	2.0	.30	1,000	N	N	N	20	500
K0243S	58 6 13	155 24 24	1.0	.70	3.0	.50	1,000	N	N	N	10	500
K0244S	58 6 15	155 24 14	1.0	.50	3.0	.30	700	2.0	N	N	15	700
K0245S	58 4 14	155 23 58	1.0	.30	3.0	.30	500	N	N	N	20	700
K0246S	58 3 8	155 23 59	1.0	1.00	2.0	.30	1,500	N	N	N	20	1,000
K0247S	58 2 21	155 24 47	1.0	.70	2.0	.30	1,000	N	N	N	15	1,000
K0248S	58 1 23	155 27 50	1.0	.50	3.0	.30	500	N	N	N	20	700
K0249S	58 1 44	155 27 41	1.5	.50	3.0	.30	500	<.5	N	N	20	700
K0249SD	58 1 44	155 27 41	1.0	1.00	3.0	.30	700	N	N	N	20	300
K0250S	58 13 46	154 43 21	1.5	1.00	7.0	1.00	1,000	N	N	N	10	500
K0251S	58 13 42	154 43 17	1.5	.50	5.0	.70	700	N	N	N	10	300
K0252S	58 13 26	154 44 24	1.0	.20	10.0	1.00	1,000	N	N	N	<10	300
K0253S	58 13 33	154 45 4	2.0	.70	10.0	1.00	1,500	N	N	N	N	300
K0254S	58 13 9	154 46 57	2.0	1.00	7.0	1.00	1,000	N	N	N	10	500
K0255S	58 13 17	154 47 57	2.0	.70	7.0	1.00	1,000	N	N	N	10	500
K0256S	58 14 15	154 46 35	1.5	.50	10.0	1.00	1,000	N	N	N	<10	500
K0257S	58 14 6	154 47 46	1.5	.50	7.0	.50	700	N	N	N	10	300
K0258S	58 13 21	154 48 59	1.5	.70	5.0	.50	500	N	N	N	10	500
K0259S	58 14 4	154 50 2	2.0	1.00	7.0	>1.00	1,000	N	N	N	<10	300
K0260S	58 13 17	154 50 41	2.0	1.00	7.0	1.00	1,000	N	N	N	<10	500
K0261S	58 12 51	154 53 52	2.0	1.50	5.0	.70	700	N	N	N	<10	500
K0262S	58 13 24	154 54 1	2.0	1.50	7.0	>1.00	1,000	N	N	N	10	500
K0263S	58 14 38	154 53 27	1.5	.50	5.0	.50	500	N	N	N	10	300
K0264S	58 14 38	154 53 39	1.5	.50	5.0	.50	700	N	N	N	<10	300
K0265S	58 13 20	154 55 9	2.0	1.50	7.0	.70	1,000	N	N	N	10	500
K0266S	58 12 50	154 56 4	2.0	1.00	5.0	.50	700	N	N	N	10	300
K0267S	58 13 18	154 56 8	1.5	.70	5.0	.50	1,000	N	N	N	10	500
K0268S	58 12 32	154 57 18	2.0	1.00	5.0	.70	1,000	N	N	N	10	500
K0269S	58 11 32	154 57 41	1.5	.50	7.0	.50	1,000	N	N	N	10	300
K0270S	58 12 43	155 4 24	2.0	1.00	10.0	1.00	1,000	N	N	N	<10	300
K0271S	58 11 43	155 4 26	2.0	1.00	5.0	.70	700	N	N	N	10	500
K0272S	58 11 50	155 4 54	2.0	1.00	5.0	.70	1,000	N	N	N	10	700
K0273S	58 12 57	155 9 51	1.5	.50	5.0	.50	700	N	N	N	<10	500
K0274S	58 12 55	155 10 5	2.0	1.00	5.0	1.00	700	N	N	N	10	500
K0275S	58 11 58	155 8 19	2.0	1.00	5.0	.70	1,500	N	N	N	10	500
K0276S	58 10 59	155 6 59	2.0	1.50	5.0	.50	1,000	N	N	N	20	1,000
K0277S	58 11 20	155 9 7	2.0	1.00	10.0	1.00	1,000	N	N	N	10	500
K0278S	58 9 59	155 10 0	1.5	.50	5.0	.50	700	N	N	N	10	500
K0279S	58 9 59	155 10 12	2.0	1.50	5.0	.70	1,000	N	N	N	10	500
K0280S	58 9 35	155 11 46	2.0	1.50	7.0	>1.00	1,000	N	N	N	<10	700
K0281S	58 9 17	155 9 54	2.0	1.00	7.0	1.00	1,000	N	N	N	<10	500
K0282S	58 8 14	155 15 25	1.0	.20	5.0	.50	500	N	N	N	20	1,000
K0283S	58 8 44	155 3 23	1.5	.50	7.0	1.00	1,000	N	N	N	<10	500
K0284S	58 8 14	155 12 45	1.5	2.00	5.0	.50	1,000	N	N	N	20	1,000
K0285S	58 7 38	155 13 50	1.0	.70	3.0	.50	700	N	N	N	20	1,000
K0286S	58 6 27	155 11 56	1.0	.30	3.0	.50	700	N	N	N	15	1,000
K0287S	58 6 38	155 9 10	1.0	1.00	2.0	.50	700	N	N	N	15	700
K0288S	58 8 30	155 9 9	1.0	1.00	3.0	.50	500	N	N	N	20	1,000
K0289S	58 7 13	155 22 51	2.0	.70	7.0	.70	1,000	N	N	N	10	500
K0290S	58 5 51	155 21 2	1.5	1.00	5.0	.70	1,000	N	N	N	15	500
K0291S	58 5 27	155 20 11	1.0	.50	3.0	.30	1,000	N	N	N	20	1,000
K0292S	58 4 34	155 20 15	1.0	1.00	2.0	.30	700	N	N	N	20	1,000
K0293S	58 2 53	155 20 13	1.0	1.00	3.0	.30	700	N	N	N	20	1,000
K0294S	58 3 50	155 21 18	1.0	.70	2.0	.30	1,000	N	N	N	20	1,000
K0295S	58 2 14	155 22 22	1.0	.20	3.0	.50	1,000	N	N	N	30	700
K0296S	58 1 9	155 22 24	.7	.30	5.0	.30	1,000	N	N	N	10	700

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K0238S	<1.0	N	N	15	50	20	N	N	N	20	<10
K0239S	N	N	N	15	70	20	50	N	N	15	10
K0240S	N	N	N	10	30	15	N	N	N	10	<10
K0241S	<1.0	N	N	10	50	20	N	N	N	20	10
K0242S	<1.0	N	N	10	50	20	N	N	N	20	<10
K0243S	N	N	N	15	50	15	N	N	N	15	<10
K0244S	N	N	N	15	50	50	N	N	N	15	20
K0245S	N	N	N	15	50	50	N	N	N	15	20
K0246S	<1.0	N	N	15	50	20	30	7	N	15	15
K0247S	N	N	N	10	50	15	N	N	N	10	10
K0248S	N	N	N	20	70	50	N	10	N	20	20
K0249S	N	N	N	15	50	20	N	7	N	15	10
K0249SD	N	N	N	10	50	10	N	N	N	10	<10
K0250S	N	N	N	30	50	20	N	N	N	10	10
K0251S	N	N	N	30	150	30	N	<5	N	30	10
K0252S	N	N	N	70	100	20	N	N	N	15	<10
K0253S	N	N	N	70	70	15	N	<5	N	15	10
K0254S	N	N	N	50	50	20	N	5	N	15	<10
K0255S	N	N	N	30	70	20	N	N	N	15	10
K0256S	N	N	N	70	100	20	N	N	N	10	<10
K0257S	N	N	N	50	100	50	N	N	N	20	10
K0258S	N	N	N	20	70	50	N	N	N	15	20
K0259S	N	N	N	50	100	15	N	N	N	10	15
K0260S	N	N	N	50	70	20	N	N	N	15	10
K0261S	N	N	N	20	100	20	N	N	N	20	15
K0262S	N	N	N	30	70	20	N	<5	N	10	<10
K0263S	N	N	N	20	70	50	N	5	N	15	30
K0264S	N	N	N	30	50	30	N	N	N	10	<10
K0265S	N	N	N	30	50	20	N	N	N	7	10
K0266S	N	N	N	30	50	20	N	N	N	15	<10
K0267S	N	N	N	20	50	30	N	N	N	10	10
K0268S	N	N	N	20	70	20	N	5	N	10	10
K0269S	N	N	N	30	50	50	N	N	N	10	10
K0270S	N	N	N	50	50	20	N	N	N	10	<10
K0271S	N	N	N	20	30	15	N	N	N	10	10
K0272S	N	N	N	30	50	30	N	<5	N	7	<10
K0273S	N	N	N	20	30	20	N	N	N	7	15
K0274S	N	N	N	30	50	20	N	5	N	10	20
K0275S	N	N	N	30	50	100	N	7	N	15	10
K0276S	N	N	N	20	50	15	N	<5	N	10	10
K0277S	N	N	N	50	70	20	N	N	N	15	<10
K0278S	N	N	N	20	50	20	N	N	N	10	10
K0279S	N	N	N	30	70	20	N	7	N	15	<10
K0280S	N	N	N	30	70	20	N	N	N	10	10
K0281S	N	N	N	50	70	30	N	<5	N	10	10
K0282S	N	N	N	20	50	50	N	<5	N	10	20
K0283S	N	N	N	50	50	20	N	N	N	10	<10
K0284S	N	N	N	20	70	20	N	<5	N	20	20
K0285S	N	N	N	15	50	30	30	<5	N	10	15
K0286S	N	N	N	20	50	20	70	N	N	10	20
K0287S	N	N	N	20	70	20	N	5	N	15	10
K0288S	N	N	N	15	70	20	N	7	N	15	10
K0289S	N	N	N	30	70	20	N	N	N	15	10
K0290S	N	N	N	20	50	20	N	5	N	15	10
K0291S	N	N	N	15	50	30	N	10	N	20	20
K0292S	N	N	N	10	30	15	20	N	N	10	20
K0293S	N	N	N	10	30	20	70	N	N	10	15
K0294S	<1.0	N	N	10	50	20	N	N	N	10	15
K0295S	N	N	N	15	30	30	30	5	N	15	10
K0296S	N	N	N	15	50	20	70	N	N	10	10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K0238S	N	20	N	300	150	N	20	N	70	N
K0239S	N	20	N	300	150	N	30	N	300	N
K0240S	N	15	N	200	100	N	15	N	70	N
K0241S	N	20	N	200	100	N	30	N	200	N
K0242S	N	20	N	200	100	N	30	N	100	N
K0243S	N	30	N	200	150	N	30	N	100	N
K0244S	N	15	N	500	150	N	30	N	100	N
K0245S	N	15	N	200	100	N	30	N	100	N
K0246S	N	15	N	300	100	N	50	N	200	N
K0247S	N	15	N	200	100	N	30	N	300	N
K0248S	N	15	N	300	100	N	30	N	100	N
K0249S	N	15	N	200	100	N	20	N	100	N
K0249SD	N	20	N	200	100	N	20	N	500	N
K0250S	N	20	N	200	300	N	50	N	70	N
K0251S	N	20	N	300	150	N	20	N	100	N
K0252S	N	20	N	100	300	N	30	N	50	N
K0253S	N	20	N	150	300	N	30	200	30	N
K0254S	N	20	N	200	300	N	30	N	70	N
K0255S	N	20	N	200	300	N	30	N	50	N
K0256S	N	20	N	200	500	N	30	200	50	N
K0257S	N	20	N	200	150	N	20	N	70	N
K0258S	N	20	N	300	200	N	30	N	70	N
K0259S	N	30	N	300	500	N	30	N	50	N
K0260S	N	20	N	200	300	N	30	<200	50	N
K0261S	N	20	N	500	200	N	30	N	100	N
K0262S	N	20	N	200	300	N	30	N	50	N
K0263S	N	20	N	300	150	N	20	N	100	N
K0264S	N	20	N	200	200	N	30	N	50	N
K0265S	N	20	N	200	200	N	30	N	70	N
K0266S	N	20	N	300	200	N	30	N	50	N
K0267S	N	20	N	300	100	N	20	N	50	N
K0268S	N	20	N	200	300	N	30	N	50	N
K0269S	N	20	N	200	150	N	20	N	50	N
K0270S	N	20	N	150	300	N	20	N	70	N
K0271S	N	20	N	300	200	N	30	N	70	N
K0272S	N	20	N	300	200	N	50	N	70	N
K0273S	N	20	N	200	150	N	30	N	50	N
K0274S	N	20	N	300	200	N	30	N	150	N
K0275S	N	20	N	200	200	N	30	N	50	N
K0276S	N	20	N	300	150	N	50	N	100	N
K0277S	N	20	N	200	500	N	30	N	70	N
K0278S	N	20	N	200	150	N	30	N	100	N
K0279S	N	20	N	300	300	N	30	N	70	N
K0280S	N	20	N	300	300	N	30	N	70	N
K0281S	N	20	N	200	500	N	30	<200	50	N
K0282S	N	15	N	200	150	N	30	N	100	N
K0283S	N	20	N	100	300	N	30	<200	50	N
K0284S	N	15	N	300	200	N	30	N	150	N
K0285S	N	15	N	300	150	N	30	N	100	N
K0286S	N	20	N	200	100	N	30	N	100	N
K0287S	N	15	N	300	150	N	30	N	70	N
K0288S	N	15	N	300	100	N	30	N	100	N
K0289S	N	20	N	200	300	N	30	N	70	N
K0290S	N	20	N	300	200	N	30	N	70	N
K0291S	N	15	N	300	100	N	30	N	150	N
K0292S	N	15	N	200	100	N	30	N	150	N
K0293S	N	15	N	300	70	N	30	N	200	N
K0294S	N	15	N	500	100	N	30	N	200	N
K0295S	N	15	N	200	100	N	30	N	200	N
K0296S	N	15	N	100	100	N	50	N	150	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K0297S	58 7 46	155 27 23	1.5	1.50	3.0	.70	1,000	N	N	N	50	1,000
K0298S	58 5 38	155 4 35	1.0	.70	3.0	.50	700	N	N	N	15	700
K1000S	58 15 58	155 20 20	2.0	1.00	7.0	1.00	700	N	N	N	10	500
K1001S	58 16 16	155 20 12	1.5	1.00	3.0	.30	500	N	N	N	15	300
K1003S	58 17 46	155 20 1	1.5	1.00	5.0	.50	1,000	N	N	N	10	200
K1004S	58 18 8	155 20 6	1.5	1.00	5.0	.50	700	N	N	N	10	300
K1005S	58 20 28	155 20 51	2.0	1.00	7.0	.70	1,000	N	N	N	30	1,000
K1006S	58 20 44	155 21 55	2.0	.70	10.0	1.00	1,000	N	N	N	<10	500
K1007S	58 15 11	155 19 36	2.0	1.00	15.0	1.00	1,500	N	N	N	<10	300
K1008S	58 15 12	155 19 31	1.5	.50	5.0	.70	1,000	N	N	N	15	200
K1009S	58 15 20	155 19 0	2.0	1.00	7.0	1.00	1,000	N	N	N	15	500
K1010S	58 16 3	155 19 9	1.5	.70	5.0	.30	1,000	N	N	N	15	300
K1011S	58 16 30	155 19 0	1.5	1.00	5.0	.30	700	N	N	N	10	300
K1012S	58 17 31	155 18 12	2.0	.70	10.0	.50	700	N	N	N	<10	200
K1013S	58 17 26	155 18 16	1.5	1.00	7.0	.50	1,000	N	N	N	10	300
K1014S	58 18 7	155 19 19	1.0	.70	5.0	.50	300	N	N	N	10	300
K1015S	58 18 36	155 19 40	2.0	1.00	5.0	.50	1,000	N	N	N	<10	200
K1016S	58 19 43	155 19 32	2.0	1.00	10.0	1.00	1,000	N	N	N	10	300
K1016SD	58 19 43	155 19 32	1.5	1.00	7.0	.70	700	N	N	N	10	300
K1017S	58 17 1	155 22 45	2.0	1.00	10.0	1.00	1,000	N	N	N	20	700
K1018S	58 17 8	155 22 50	1.5	1.50	5.0	.50	1,000	N	N	N	10	200
K1019S	58 18 55	155 23 32	1.5	1.00	7.0	.70	700	N	N	N	10	200
K1020S	58 18 50	155 23 12	2.0	1.00	5.0	.70	1,000	N	N	N	10	300
K1021S	58 19 45	155 25 0	1.0	.70	3.0	.50	700	N	N	N	10	300
K1022S	58 17 8	155 28 5	2.0	1.50	7.0	.30	1,000	N	N	N	20	700
K1023S	58 17 13	155 27 55	2.0	1.00	10.0	1.00	1,000	N	N	N	10	500
K1024S	58 18 0	155 28 35	2.0	1.00	10.0	1.00	1,000	N	N	N	10	300
K1025S	58 18 10	155 32 0	2.0	1.00	10.0	1.00	1,000	N	N	N	10	700
K1026S	58 18 8	155 31 50	1.5	1.00	7.0	.70	1,000	N	N	N	<10	300
K1027S	58 18 0	155 33 15	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K1028S	58 19 46	155 37 5	1.5	1.00	7.0	.50	1,000	N	N	N	10	300
K1029S	58 19 42	155 37 0	1.5	.70	7.0	.50	1,000	N	N	N	10	200
K1030S	58 19 30	155 37 40	1.0	1.00	5.0	.50	700	N	N	N	10	300
K1031S	58 20 35	155 38 40	1.0	.70	3.0	.20	500	N	N	N	10	200
K1032S	58 27 5	155 32 35	2.0	1.00	10.0	1.00	1,000	N	N	N	10	700
K1033S	58 27 10	155 32 30	1.5	1.00	5.0	.70	700	N	N	N	<10	200
K1034S	58 28 55	155 26 40	1.0	1.00	5.0	.30	1,000	N	N	N	10	300
K1035S	58 28 58	155 26 48	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K1036S	58 29 25	155 0 40	1.5	1.00	7.0	.50	700	N	N	N	10	300
K1037S	58 29 18	155 0 45	3.0	1.00	7.0	1.00	1,000	N	N	N	50	500
K1038S	58 29 43	154 55 0	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K1038SD	58 29 43	154 55 0	2.0	1.00	10.0	1.00	1,000	N	N	N	10	500
K1039S	58 27 51	154 58 45	2.0	1.00	10.0	1.00	1,000	N	N	N	20	500
K1040S	58 24 58	154 56 28	1.5	1.50	5.0	.30	700	<.5	N	N	50	200
K1041S	58 23 52	154 56 35	1.5	.70	7.0	.50	700	<.5	N	N	15	200
K1042S	58 26 15	154 53 55	1.0	1.00	5.0	.50	1,000	N	N	N	10	300
K1043S	58 27 18	154 56 10	2.0	1.50	7.0	.50	1,000	N	N	N	20	700
K1044S	58 22 30	154 49 50	3.0	1.00	7.0	1.00	1,000	N	N	N	20	300
K1045S	58 24 9	154 48 37	1.5	1.50	3.0	.50	1,000	<.5	N	N	15	200
K1049S	58 22 33	154 41 44	.2	.15	10.0	.30	150	N	<200.0	N	15	300
K1050S	58 29 49	154 52 30	2.0	1.00	10.0	1.00	1,500	N	N	N	<10	300
K1051S	58 24 1	154 39 12	1.0	.70	7.0	.50	1,000	N	N	N	10	200
K1052S	58 23 40	154 40 38	1.5	1.00	3.0	.50	700	N	N	N	10	300
K1053S	58 22 5	154 43 55	1.5	1.00	7.0	.50	1,000	N	N	N	<10	300
K1054S	58 26 59	154 35 32	1.5	1.00	5.0	.50	1,000	N	N	N	10	150
K1055S	58 28 8	154 37 50	1.0	1.00	5.0	.30	700	N	N	N	10	500
K1056S	58 31 58	154 39 5	1.5	1.50	5.0	.50	700	<.5	N	N	20	300
K1057S	58 32 15	154 35 8	1.0	.70	3.0	.20	500	N	N	N	15	300
K1058S	58 30 32	154 53 52	1.5	1.00	5.0	.50	700	N	N	N	10	300
K1059S	58 26 28	154 44 53	1.0	1.00	5.0	.50	700	N	N	N	15	300

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K0297S	N	N	N	15	50	20	N	<5	N	10	20
K0298S	N	N	N	20	50	30	N	N	N	10	20
K1000S	N	N	N	50	100	30	N	N	N	20	<10
K1001S	<1.0	N	N	20	50	20	N	N	N	20	10
K1003S	N	N	N	50	100	20	N	N	N	20	<10
K1004S	N	N	N	20	50	20	N	N	N	10	10
K1005S	<1.0	N	N	30	30	50	N	N	N	15	50
K1006S	N	N	N	100	100	50	N	N	N	20	10
K1007S	N	N	N	100	100	30	N	N	N	20	<10
K1008S	<1.0	N	N	30	30	10	N	N	N	15	<10
K1009S	N	N	N	50	70	30	N	N	N	20	10
K1010S	N	N	N	50	100	30	N	N	N	30	10
K1011S	N	N	N	20	50	10	N	N	N	10	<10
K1012S	N	N	N	50	100	20	N	N	N	20	<10
K1013S	N	N	N	30	70	20	N	N	N	15	<10
K1014S	N	N	N	20	50	20	N	N	N	15	10
K1015S	N	N	N	20	50	5	N	N	N	10	10
K1016S	N	N	N	70	70	20	N	N	N	20	<10
K1016SD	N	N	N	30	70	20	N	N	N	15	<10
K1017S	N	N	N	50	20	70	N	N	N	10	50
K1018S	<1.0	N	N	30	50	20	N	N	N	10	10
K1019S	N	N	N	50	100	30	N	N	N	20	10
K1020S	N	N	N	30	70	30	N	N	N	20	10
K1021S	N	N	N	10	50	10	N	N	N	15	10
K1022S	<1.0	N	N	30	30	100	N	N	N	10	30
K1023S	N	N	N	50	70	200	N	10	N	15	50
K1024S	N	N	N	70	100	20	N	N	N	30	10
K1025S	N	N	N	50	70	70	N	N	N	20	30
K1026S	<1.0	N	N	50	70	10	N	N	N	20	10
K1027S	<1.0	N	N	10	30	7	N	N	N	20	10
K1028S	<1.0	N	N	20	50	20	N	N	N	10	10
K1029S	N	N	N	50	70	20	N	N	N	15	<10
K1030S	<1.0	N	N	20	30	10	N	N	N	20	<10
K1031S	<1.0	N	N	15	30	15	N	N	N	10	<10
K1032S	N	N	N	30	100	20	N	N	N	15	20
K1033S	N	N	N	20	50	20	N	N	N	15	<10
K1034S	N	N	N	20	50	30	N	N	N	15	10
K1035S	N	N	N	20	70	20	N	N	N	15	10
K1036S	N	N	N	30	100	10	N	N	N	20	<10
K1037S	N	N	N	50	100	70	N	N	N	20	20
K1038S	N	N	N	20	70	20	N	N	N	20	<10
K1038SD	N	N	N	50	150	20	N	N	N	20	<10
K1039S	N	N	N	50	100	20	N	N	N	15	20
K1040S	<1.0	N	N	15	30	20	N	N	N	30	50
K1041S	N	N	N	30	50	50	N	10	N	15	10
K1042S	N	N	N	30	50	20	N	N	N	15	15
K1043S	N	N	N	50	70	70	N	N	N	20	30
K1044S	N	N	N	70	70	70	N	N	N	15	20
K1045S	<1.0	N	N	15	30	30	N	N	N	15	15
K1049S	N	N	N	5	70	50	N	N	N	10	20
K1050S	N	N	N	100	70	30	N	N	N	20	<10
K1051S	N	N	N	50	100	30	N	N	N	30	10
K1052S	<1.0	N	N	20	50	15	N	N	N	20	10
K1053S	N	N	N	30	70	20	N	N	N	20	10
K1054S	N	N	N	50	100	30	N	N	N	20	<10
K1055S	N	N	N	15	100	15	N	N	N	20	<10
K1056S	<1.0	N	N	20	70	20	N	N	N	30	<10
K1057S	N	N	N	20	100	20	N	N	N	20	10
K1058S	N	N	N	30	50	20	N	N	N	15	10
K1059S	N	N	N	20	70	20	N	N	N	20	10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K0297S	N	15	N	200	150	N	30	N	100	N
K0298S	N	15	N	300	200	N	30	N	100	N
K1000S	N	30	N	200	200	N	20	N	100	N
K1001S	N	20	N	300	200	N	20	N	100	N
K1003S	N	20	N	200	150	N	20	N	50	N
K1004S	N	20	N	200	200	N	20	N	70	N
K1005S	N	20	N	500	200	N	50	<200	150	N
K1006S	N	50	N	200	500	N	30	N	100	N
K1007S	N	50	N	150	500	N	20	N	70	N
K1008S	N	20	N	100	200	N	20	N	50	N
K1009S	N	30	N	500	300	N	50	N	100	N
K1010S	N	20	N	100	200	N	20	N	70	N
K1011S	N	20	N	200	200	N	20	N	100	N
K1012S	N	20	N	150	300	N	20	N	70	N
K1013S	N	20	N	200	200	N	20	N	100	N
K1014S	N	15	N	100	150	N	20	N	70	N
K1015S	N	20	N	200	200	N	15	N	70	N
K1016S	N	20	N	200	500	N	20	N	70	N
K1016SD	N	20	N	200	200	N	20	N	50	N
K1017S	N	30	N	500	500	N	50	200	150	N
K1018S	N	20	N	200	150	N	20	<200	50	N
K1019S	N	30	N	150	200	N	30	N	70	N
K1020S	N	30	N	500	200	N	20	N	70	N
K1021S	N	20	N	200	100	N	20	N	100	N
K1022S	N	20	N	700	200	N	50	N	150	N
K1023S	N	30	N	500	500	N	50	200	100	N
K1024S	N	50	N	300	300	N	30	N	100	N
K1025S	N	30	N	500	500	N	50	200	150	N
K1026S	N	30	N	300	300	N	20	N	100	N
K1027S	N	20	N	500	150	N	20	N	100	N
K1028S	N	20	N	300	150	N	30	N	100	N
K1029S	N	20	N	200	200	N	20	N	50	N
K1030S	N	20	N	200	200	N	30	N	100	N
K1031S	N	15	N	200	100	N	20	N	70	N
K1032S	N	30	N	300	300	N	50	<200	200	N
K1033S	N	20	N	200	200	N	30	N	100	N
K1034S	N	20	N	300	150	N	20	N	100	N
K1035S	N	20	N	300	100	N	30	N	100	N
K1036S	N	20	N	200	200	N	20	N	100	N
K1037S	N	30	N	500	500	N	50	200	200	N
K1038S	N	20	N	300	150	N	20	N	70	N
K1038SD	N	20	N	200	200	N	20	N	70	N
K1039S	N	50	N	300	500	N	50	300	100	N
K1040S	N	20	N	500	150	N	20	N	70	N
K1041S	N	30	N	200	200	N	20	N	70	N
K1042S	N	20	N	300	200	N	30	N	100	N
K1043S	N	30	N	500	300	N	50	<200	150	N
K1044S	N	30	N	500	1,000	N	50	500	70	N
K1045S	N	20	N	200	150	N	20	<200	50	N
K1049S	N	10	N	100	200	N	<10	N	100	N
K1050S	N	30	N	150	500	N	20	N	50	N
K1051S	N	20	N	N	200	N	20	N	100	N
K1052S	N	20	N	500	100	N	20	N	70	N
K1053S	N	20	N	200	200	N	20	N	70	N
K1054S	N	30	N	200	200	N	20	N	50	N
K1055S	N	20	N	500	100	N	30	N	50	N
K1056S	N	20	N	300	150	N	30	N	100	N
K1057S	N	20	N	200	150	N	20	N	70	N
K1058S	N	30	N	200	200	N	30	N	100	N
K1059S	N	20	N	200	200	N	20	N	70	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K1059SD	58 26 28	154 44 53	1.5	1.00	5.0	.50	500	<.5	N	N	15	300
K1060S	58 29 8	154 41 39	1.5	.70	5.0	.50	500	N	N	N	10	300
K1061S	58 35 25	154 32 31	1.5	1.00	5.0	.30	1,000	N	N	N	<10	100
K1062S	58 36 37	154 26 37	1.5	1.00	3.0	.30	300	<.5	N	N	20	300
K1063S	58 36 55	154 26 41	1.0	1.00	5.0	.30	500	N	N	N	30	500
K1064S	58 21 26	155 49 10	1.5	1.00	7.0	.50	1,000	N	N	N	10	500
K1065S	58 24 10	155 46 47	2.0	1.00	7.0	.50	1,000	N	N	N	15	300
K1066S	58 23 58	155 45 39	1.5	1.00	5.0	.30	1,000	N	N	N	15	200
K1067S	58 24 22	155 41 56	1.0	1.00	5.0	.50	1,000	N	N	N	10	300
K1068S	58 17 17	155 44 10	1.0	1.00	5.0	.50	1,000	N	N	N	10	300
K1069S	58 16 43	155 41 45	1.5	1.00	5.0	.50	1,000	N	N	N	10	200
K1070S	58 16 40	155 41 40	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K1071S	58 16 20	155 45 50	1.0	1.00	5.0	.50	700	N	N	N	10	300
K1072S	58 18 45	155 52 10	1.0	1.00	5.0	.50	1,000	N	N	N	<10	300
K1073S	58 18 50	155 52 12	1.5	1.00	5.0	.50	1,500	N	N	N	10	300
K1074S	58 15 15	155 48 31	1.5	.70	5.0	.50	1,000	N	N	N	<10	200
K1076S	58 15 41	156 0 27	1.0	1.00	7.0	.70	1,500	N	N	N	10	300
K1077S	58 17 35	156 4 49	1.0	1.00	5.0	.30	2,000	N	N	N	10	300
K1078S	58 22 12	156 0 21	1.0	1.00	3.0	.20	1,000	N	N	N	20	300
K1079S	58 28 31	156 7 45	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K1080S	58 29 40	156 13 20	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K1081S	58 29 32	156 13 30	1.5	1.00	5.0	.50	1,000	N	N	N	10	500
K2001S	58 55 42	155 46 56	1.5	1.00	3.0	.50	1,000	N	N	N	10	300
K2002S	58 54 53	155 48 51	1.5	1.00	3.0	.50	1,000	N	N	N	20	500
K2003S	58 54 51	155 49 0	1.5	1.00	5.0	.30	1,000	N	N	N	15	300
K2004S	58 51 39	155 48 43	1.5	1.00	3.0	.50	700	N	N	N	15	300
K2005S	58 51 39	155 48 51	.7	1.00	2.0	.50	700	N	N	N	20	300
K2006S	58 48 45	155 48 35	1.0	1.00	3.0	.30	1,000	N	N	N	15	300
K2007S	58 48 45	155 48 45	1.5	1.00	3.0	.50	1,000	N	N	N	15	300
K2010S	58 29 12	156 16 55	1.0	1.00	5.0	.50	1,000	N	N	N	10	200
K2011S	58 23 42	156 17 3	1.5	.70	5.0	.70	1,000	N	N	N	10	300
K2012S	58 20 52	155 59 52	1.0	.70	5.0	.50	700	N	N	N	10	300
K2013S	58 21 45	155 55 37	1.5	.70	5.0	.50	1,500	N	N	N	10	500
K2014S	58 26 21	155 48 16	2.0	1.00	15.0	>1.00	1,500	N	N	N	10	300
K2015S	58 26 16	155 48 18	1.5	.70	5.0	.50	700	N	N	N	10	500
K2016S	58 26 9	155 40 57	1.5	1.00	5.0	.50	700	N	N	N	30	300
K2017S	58 26 3	155 40 56	1.5	1.00	7.0	.50	1,000	N	N	N	10	300
K2018S	58 26 12	155 40 10	1.0	1.00	5.0	.50	700	N	N	N	15	300
K2019S	58 33 47	155 51 15	.5	.50	1.5	.20	500	N	N	N	50	300
K2020S	58 34 10	155 54 48	.5	.50	2.0	.20	1,500	N	N	N	10	200
K2021S	58 35 38	155 56 50	.5	1.00	1.5	.15	500	N	N	N	20	300
K2022S	58 35 33	155 55 0	1.5	1.00	5.0	.50	700	N	N	N	30	300
K2023S	58 36 7	155 51 52	.7	.70	2.0	.20	500	<.5	N	N	30	300
K2023SD	58 36 7	155 51 52	1.0	1.00	2.0	.30	500	<.5	N	N	30	500
K2024S	58 30 30	156 1 3	1.0	1.00	3.0	.30	1,500	N	N	N	10	300
K2025S	58 33 50	156 13 40	1.5	1.00	7.0	.50	1,000	N	N	N	10	300
K2026S	58 37 47	154 41 35	1.5	1.00	2.0	.30	500	N	N	N	10	200
K2027S	58 37 18	154 41 55	1.5	1.00	5.0	.50	700	N	N	N	10	300
K2028S	58 38 17	154 44 35	1.0	1.00	3.0	.20	500	N	N	N	10	300
K2029S	58 38 28	154 47 20	1.0	1.00	3.0	.30	700	N	N	N	10	300
K2030S	58 40 30	154 49 20	1.5	1.00	3.0	.30	700	N	N	N	10	200
K2030S	58 40 30	154 49 20	1.5	1.00	3.0	.20	700	N	N	N	15	300
K2031S	58 41 10	154 47 10	1.0	.70	3.0	.30	500	N	N	N	10	200
K2032S	58 42 10	154 44 50	1.0	1.00	3.0	.30	500	N	N	N	10	300
K2033S	58 43 0	154 43 10	1.0	1.00	5.0	.50	1,000	N	N	N	<10	300
K2034S	58 42 58	154 43 0	1.0	1.00	5.0	.50	700	N	N	N	10	300
K2035S	58 1 14	155 42 40	1.5	1.00	5.0	.30	700	N	N	N	10	200
K2036S	58 1 33	155 43 28	1.5	1.00	5.0	.50	700	N	N	N	15	300
K2037S	58 2 22	155 44 25	1.5	1.00	5.0	.30	500	N	N	N	10	200
K2038S	58 5 19	155 43 17	1.0	1.00	3.0	.30	700	N	N	N	10	300

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K1059SD	N	N	N	20	100	30	N	N	N	20	10
K1060S	N	N	N	20	100	20	N	N	N	30	<10
K1061S	N	N	N	50	150	30	N	N	N	50	<10
K1062S	N	N	N	15	100	30	N	N	N	30	15
K1063S	N	N	N	20	100	30	N	N	N	30	10
K1064S	N	N	N	20	150	20	N	N	N	7	<10
K1065S	N	N	N	50	150	15	N	N	N	15	10
K1066S	N	N	N	20	70	20	N	N	N	5	10
K1067S	<1.0	N	N	20	50	15	N	N	N	10	10
K1068S	N	N	N	20	30	20	N	N	N	10	10
K1069S	N	N	N	50	50	20	N	N	N	20	<10
K1070S	N	N	N	30	100	20	N	N	N	30	10
K1071S	<1.0	N	N	15	20	10	N	N	N	7	10
K1072S	<1.0	N	N	20	20	10	N	N	N	7	10
K1073S	<1.0	N	N	10	20	10	N	N	N	5	10
K1074S	N	N	N	30	30	7	N	N	N	10	<10
K1076S	<1.0	N	N	15	50	10	N	N	N	<5	<10
K1077S	<1.0	N	N	20	20	10	N	N	N	10	10
K1078S	N	N	N	15	30	20	N	N	N	10	20
K1079S	<1.0	N	N	15	30	<5	N	N	N	7	10
K1080S	N	N	N	15	70	7	N	N	N	10	10
K1081S	N	N	N	20	100	5	N	N	N	10	10
K2001S	N	N	N	15	70	10	N	N	N	15	<10
K2002S	N	N	N	15	70	20	50	N	N	15	15
K2003S	N	N	N	15	100	15	N	N	N	30	10
K2004S	N	N	N	20	70	15	20	N	N	20	15
K2005S	1.0	N	N	10	50	10	N	N	N	15	10
K2006S	N	N	N	15	50	15	N	N	N	10	10
K2007S	N	N	N	15	50	10	50	N	N	10	10
K2010S	N	N	N	15	30	10	N	N	N	10	10
K2011S	N	N	N	30	70	10	N	N	N	15	15
K2012S	N	N	N	20	30	10	N	N	N	15	10
K2013S	<1.0	N	N	20	20	7	N	N	N	<5	10
K2014S	N	N	N	30	100	20	N	N	N	10	10
K2015S	<1.0	N	N	20	70	20	N	N	N	15	10
K2016S	<1.0	N	N	20	70	20	N	N	N	20	10
K2017S	N	N	N	20	100	20	N	N	N	10	<10
K2018S	<1.0	N	N	20	100	10	N	N	N	20	<10
K2019S	<1.0	N	N	15	10	20	N	N	N	7	20
K2020S	<1.0	N	N	10	15	30	N	N	N	7	15
K2021S	<1.0	N	N	7	10	20	N	N	N	15	10
K2022S	N	N	N	30	100	20	N	N	N	20	10
K2023S	<1.0	N	N	10	20	70	N	<5	N	7	15
K2023SD	<1.0	N	N	10	20	70	N	5	N	15	15
K2024S	<1.0	N	N	15	20	30	N	N	N	10	15
K2025S	<1.0	N	N	20	100	10	N	N	N	15	10
K2026S	N	N	N	10	50	15	N	N	N	15	10
K2027S	N	N	N	30	50	20	N	N	N	20	15
K2028S	N	N	N	15	150	20	N	N	N	20	N
K2029S	N	N	N	10	70	15	N	N	N	10	10
K2030S	N	N	N	15	150	30	N	N	N	30	10
K2030S	N	N	N	20	100	20	N	N	N	15	10
K2031S	N	N	N	10	30	15	N	N	N	15	10
K2032S	N	N	N	15	100	20	N	N	N	20	<10
K2033S	<1.0	N	N	20	70	30	30	N	N	30	<10
K2034S	<1.0	N	N	15	50	20	N	N	N	15	10
K2035S	N	N	N	15	100	20	N	N	N	30	<10
K2036S	N	N	N	20	100	30	N	N	N	30	10
K2037S	N	N	N	20	100	30	N	5	N	20	10
K2038S	<1.0	N	N	10	50	20	N	N	N	20	10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K1059SD	N	20	N	200	200	N	15	N	70	N
K1060S	N	20	N	200	150	N	15	N	50	N
K1061S	N	20	N	200	150	N	20	N	50	N
K1062S	N	15	N	200	100	N	20	N	50	N
K1063S	N	20	N	200	150	N	20	N	70	N
K1064S	N	30	N	300	150	N	50	N	200	N
K1065S	N	30	N	300	300	N	30	N	500	N
K1066S	N	30	N	150	100	N	50	N	700	N
K1067S	N	30	N	200	200	N	30	N	500	N
K1068S	N	20	N	200	200	N	30	N	100	N
K1069S	N	20	N	300	200	N	30	N	70	N
K1070S	N	20	N	300	150	N	30	N	70	N
K1071S	N	20	N	200	100	N	50	N	70	N
K1072S	N	20	N	200	150	N	50	N	100	N
K1073S	N	20	N	200	100	N	30	N	150	N
K1074S	N	20	N	200	150	N	30	N	70	N
K1076S	N	30	N	200	200	N	30	N	150	N
K1077S	N	20	N	200	100	N	30	N	70	N
K1078S	N	20	N	300	100	N	20	N	100	N
K1079S	N	20	N	300	70	N	20	N	300	N
K1080S	N	20	N	300	150	N	20	N	100	N
K1081S	N	20	N	300	150	N	20	N	200	N
K2001S	N	20	N	200	150	N	20	N	100	N
K2002S	N	20	N	300	150	N	30	N	150	N
K2003S	N	20	N	200	200	N	30	N	200	N
K2004S	N	20	N	200	150	N	30	N	150	N
K2005S	N	15	N	200	150	N	20	N	200	N
K2006S	N	20	N	200	150	N	20	N	150	N
K2007S	N	20	N	200	150	N	30	N	200	N
K2010S	N	20	N	200	100	N	20	N	200	N
K2011S	N	30	N	200	150	N	30	N	100	N
K2012S	N	15	N	100	100	N	20	N	100	N
K2013S	N	20	N	200	150	N	30	N	200	N
K2014S	N	50	N	N	300	N	150	N	200	N
K2015S	N	30	N	200	200	N	50	N	200	N
K2016S	N	30	N	200	200	N	30	N	150	N
K2017S	N	30	N	200	200	N	50	N	200	N
K2018S	N	30	N	200	300	N	30	N	500	N
K2019S	N	10	N	100	100	N	20	N	70	N
K2020S	N	10	N	200	100	N	15	N	70	N
K2021S	N	10	N	150	70	N	20	N	70	N
K2022S	N	20	N	300	200	N	30	N	200	N
K2023S	N	10	N	200	70	N	30	N	70	N
K2023SD	N	15	N	200	100	N	30	N	100	N
K2024S	N	20	N	300	150	N	20	N	70	N
K2025S	N	20	N	200	100	N	20	N	200	N
K2026S	N	15	N	300	100	N	20	N	100	N
K2027S	N	20	N	300	100	N	30	N	150	N
K2028S	N	20	N	300	100	N	30	N	50	N
K2029S	N	20	N	300	100	N	30	N	200	N
K2030S	N	20	N	200	100	N	30	N	100	N
K2030S	N	20	N	200	100	N	30	N	70	N
K2031S	N	20	N	200	100	N	30	N	150	N
K2032S	N	20	N	300	100	N	30	N	300	N
K2033S	N	30	N	200	200	N	30	N	100	N
K2034S	N	20	N	300	150	N	30	N	100	N
K2035S	N	30	N	300	150	N	20	N	50	N
K2036S	N	20	N	500	150	N	20	N	50	N
K2037S	N	20	N	300	150	N	30	N	70	N
K2038S	N	30	N	200	100	N	20	N	50	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K2039S	58 4 57	155 53 0	1.5	1.00	5.0	.30	1,000	N	N	N	<10	200
K2040S	58 4 55	155 52 35	2.0	1.50	5.0	.30	1,000	N	N	N	<10	100
K2041S	58 5 0	155 51 58	2.0	1.00	10.0	1.00	1,500	N	N	N	N	100
K2042S	58 0 30	155 57 30	2.0	1.00	5.0	.30	1,000	N	N	N	<10	100
K2043S	58 0 59	155 49 10	1.5	1.00	3.0	.20	1,000	<.5	N	N	10	300
K2044S	58 1 10	155 49 12	2.0	1.00	7.0	.50	700	N	N	N	10	150
K2045S	58 51 32	155 31 12	1.0	1.00	7.0	.70	1,000	N	N	N	10	300
K2046S	58 37 1	154 21 15	1.0	.70	3.0	.30	500	N	N	N	20	500
K2047S	58 37 15	154 21 14	.7	.70	3.0	.30	500	N	N	N	20	500
K2048S	58 37 15	154 21 40	1.0	.70	3.0	.30	300	<.5	N	N	15	500
K2049S	58 36 35	154 23 45	1.0	1.00	3.0	.30	500	N	N	N	20	500
K2050S	58 34 57	154 27 5	1.0	.70	3.0	.30	500	N	N	N	<10	300
K2051S	58 36 40	154 31 9	1.0	.70	3.0	.20	500	<.5	N	N	20	300
K2052S	58 36 53	154 35 12	1.5	1.00	3.0	.30	700	N	N	N	20	500
K2053S	58 41 3	154 35 11	1.0	.70	5.0	.50	500	N	N	N	10	300
K2054S	58 41 12	154 35 41	1.0	1.00	3.0	.30	700	N	N	N	10	500
K2055S	58 14 17	155 17 9	2.0	.70	7.0	1.00	700	N	N	N	<10	200
K2057S	58 15 15	155 11 48	.5	.50	2.0	.20	200	<.5	N	N	20	500
K2058S	58 14 3	155 22 15	2.0	1.00	7.0	.70	1,000	N	N	N	10	300
K2059S	58 12 46	155 23 39	1.5	1.00	7.0	1.00	1,000	N	N	N	<10	200
K2060S	58 12 2	155 25 30	1.5	1.00	5.0	.50	700	N	N	N	10	300
K2061S	58 14 35	155 25 19	1.5	1.00	7.0	.70	1,000	N	N	N	<10	300
K2062S	58 14 33	155 27 22	1.5	.70	7.0	.50	1,000	N	N	N	10	300
K2063S	58 14 53	155 31 32	1.5	.70	5.0	.50	500	N	N	N	15	500
K2064S	58 12 11	155 36 11	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K2065S	58 11 17	155 38 0	1.5	1.00	5.0	.50	1,000	N	N	N	10	500
K2066S	58 8 43	155 30 27	1.5	1.00	5.0	.50	1,000	<.5	N	N	15	500
K2066SD	58 8 43	155 30 27	1.5	1.00	5.0	.50	700	N	N	N	20	500
K2067S	58 9 4	155 35 8	1.0	.70	5.0	.30	1,000	N	N	N	20	700
K2068S	58 7 50	155 31 0	1.0	1.00	5.0	.30	1,000	N	N	N	15	300
K2069S	58 7 41	155 32 8	1.0	.70	2.0	.20	500	N	N	N	10	300
K2070S	58 8 10	155 34 44	1.0	.70	5.0	.50	700	N	N	N	15	500
K2071S	58 6 40	155 33 9	1.0	1.00	3.0	.50	2,000	N	N	N	10	300
K2072S	58 45 21	155 33 11	1.0	1.00	3.0	.50	1,500	N	N	N	10	300
K2073S	58 44 17	155 22 35	1.0	1.00	5.0	.50	500	N	N	N	10	300
K2074S	58 49 55	155 34 50	1.0	1.00	5.0	.50	1,000	N	N	N	10	300
K2075S	58 49 55	155 27 0	1.0	1.00	3.0	.30	700	N	N	N	10	300
K2076S	58 44 38	155 23 55	1.5	1.00	5.0	.70	1,000	N	N	N	15	300
K2077S	58 40 58	155 22 0	1.0	1.00	5.0	.50	2,000	N	N	N	15	300
K2078S	58 33 54	155 37 10	1.5	1.00	5.0	.50	1,000	N	N	N	15	300
K2079S	58 48 27	155 43 52	1.0	1.00	5.0	.50	1,000	N	N	N	10	300
K2080S	58 49 5	155 43 40	1.0	1.00	2.0	.20	300	N	N	N	20	500
K2081S	58 50 50	155 43 51	1.0	1.00	5.0	.70	1,000	N	N	N	10	300
K2081SD	58 50 50	155 43 51	1.5	1.00	5.0	.50	700	N	N	N	10	500
K2082S	58 15 47	155 57 21	1.0	1.00	7.0	.50	1,000	N	N	N	10	300
K2083S	58 8 1	156 16 10	1.5	1.00	5.0	.50	1,500	N	N	N	10	300
K2084S	58 5 19	156 17 57	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K2085S	58 4 34	156 19 40	1.5	1.00	5.0	.50	700	N	N	N	10	300
K2086S	58 4 19	156 8 58	1.5	1.00	5.0	.50	1,500	N	N	N	10	300
K2087S	58 4 16	156 9 18	1.5	1.00	5.0	.30	1,000	N	N	N	10	300
K2088S	58 2 49	156 1 22	1.5	1.00	5.0	.50	1,000	N	N	N	10	200
K2089S	58 6 22	156 5 57	1.5	1.00	5.0	.50	2,000	N	N	N	10	300
K2090S	58 6 58	156 0 30	2.0	1.00	7.0	.70	1,000	N	N	N	10	200
K2091S	58 4 5	155 34 59	1.0	1.00	3.0	.20	700	N	N	N	15	300
K2092S	58 4 14	155 34 30	1.5	1.00	3.0	.20	1,000	N	N	N	15	300
K2093S	58 4 27	155 34 30	1.0	1.00	5.0	.30	700	N	N	N	15	300
K2094S	58 4 21	155 41 42	2.0	1.00	7.0	.50	1,000	N	N	N	10	200
K2095S	58 13 21	155 54 20	1.5	1.00	5.0	.50	1,500	N	N	N	15	300
K2096S	58 12 10	156 13 35	1.0	1.00	5.0	.30	1,000	N	N	N	10	300
K2097S	58 10 9	156 8 5	2.0	1.00	5.0	.50	2,000	N	N	N	10	300

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K2039S	N	N	N	20	30	30	N	N	N	15	<10
K2040S	<1.0	N	N	30	50	20	N	N	N	15	<10
K2041S	N	N	N	70	100	70	N	N	N	50	<10
K2042S	N	N	N	50	100	50	N	N	N	30	<10
K2043S	<1.0	N	N	50	100	100	N	N	N	30	15
K2044S	N	N	N	70	100	70	N	N	N	50	N
K2045S	N	N	N	20	70	10	70	N	N	10	<10
K2046S	N	N	N	15	100	30	N	N	N	30	10
K2047S	N	N	N	10	50	15	N	N	N	10	<10
K2048S	N	N	N	10	70	20	N	N	N	20	10
K2049S	<1.0	N	N	15	70	20	N	N	N	20	10
K2050S	<1.0	N	N	15	100	30	N	N	N	30	10
K2051S	<1.0	N	N	15	70	20	N	N	N	20	<10
K2052S	<1.0	N	N	15	100	20	N	N	N	20	<10
K2053S	N	N	N	15	70	20	N	N	N	20	<10
K2054S	N	N	N	15	200	15	N	N	N	15	<10
K2055S	N	N	N	50	100	10	N	N	N	20	<10
K2057S	<1.0	N	N	7	15	20	N	5	N	5	20
K2058S	<1.0	N	N	50	100	30	N	N	N	20	<10
K2059S	N	N	N	30	100	20	N	N	N	20	<10
K2060S	N	N	N	30	100	50	N	15	N	20	<10
K2061S	N	N	N	50	70	20	N	N	N	15	<10
K2062S	N	N	N	50	70	30	N	N	N	20	70
K2063S	N	N	N	20	50	30	N	N	N	20	<10
K2064S	N	N	N	20	70	20	N	N	N	20	10
K2065S	<1.0	N	N	20	70	20	30	N	N	20	10
K2066S	N	N	N	15	70	200	150	N	N	20	10
K2066SD	N	N	N	20	70	30	N	N	N	20	10
K2067S	N	N	N	20	70	20	N	N	N	30	<10
K2068S	<1.0	N	N	15	70	20	N	N	N	20	10
K2069S	N	N	N	15	50	20	N	N	N	20	<10
K2070S	N	N	N	20	70	20	N	N	N	20	<10
K2071S	<1.0	N	N	10	50	20	50	N	N	10	10
K2072S	<1.0	N	N	10	50	10	N	N	N	10	10
K2073S	<1.0	N	N	15	70	10	N	N	N	15	<10
K2074S	<1.0	N	N	15	70	10	N	N	N	10	15
K2075S	N	N	N	15	70	10	N	<5	N	7	15
K2076S	<1.0	N	N	20	100	20	N	N	N	10	10
K2077S	<1.0	N	N	15	20	15	N	<5	N	7	10
K2078S	N	N	N	20	50	10	N	N	N	10	20
K2079S	<1.0	N	N	20	100	15	N	N	N	15	<10
K2080S	<1.0	N	N	7	30	10	N	<5	N	5	20
K2081S	<1.0	N	N	15	50	10	N	<5	N	15	10
K2081SD	N	N	N	15	50	20	N	N	N	15	10
K2082S	<1.0	N	N	15	50	15	N	N	N	7	10
K2083S	N	N	N	20	50	15	N	N	N	10	10
K2084S	<1.0	N	N	20	50	15	N	N	N	10	10
K2085S	N	N	N	20	100	20	N	N	N	20	10
K2086S	N	N	N	20	70	20	N	N	N	15	<10
K2087S	N	N	N	15	50	20	N	N	N	10	30
K2088S	<1.0	N	N	20	70	30	N	N	N	20	10
K2089S	N	N	N	20	30	10	N	N	N	10	<10
K2090S	<1.0	N	N	30	70	20	N	N	N	20	10
K2091S	N	N	N	15	50	20	30	N	N	20	10
K2092S	N	N	N	20	100	20	30	N	N	50	10
K2093S	N	N	N	20	70	20	N	N	N	20	<10
K2094S	<1.0	N	N	30	100	30	N	N	N	20	10
K2095S	<1.0	N	N	20	20	20	N	N	N	10	10
K2096S	N	N	N	15	30	10	N	N	N	10	10
K2097S	<1.0	N	N	20	100	15	N	5	N	30	<10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K2039S	N	20	N	300	150	N	20	N	30	N
K2040S	N	20	N	300	150	N	20	N	30	N
K2041S	N	30	N	300	500	N	15	N	50	N
K2042S	N	20	N	200	200	N	20	N	50	N
K2043S	N	30	N	300	100	N	30	N	50	N
K2044S	N	30	N	300	200	N	20	N	50	N
K2045S	N	20	N	200	150	N	20	N	200	N
K2046S	N	20	N	200	150	N	20	N	70	N
K2047S	N	15	N	200	150	N	20	N	1,000	N
K2048S	N	10	N	200	100	N	20	N	70	N
K2049S	N	15	N	500	100	N	20	N	70	N
K2050S	N	20	N	300	100	N	20	N	70	N
K2051S	N	20	N	300	100	N	20	N	70	N
K2052S	N	20	N	300	150	N	20	N	100	N
K2053S	N	20	N	200	150	N	20	N	100	N
K2054S	N	20	N	150	150	N	30	N	150	N
K2055S	N	20	N	100	500	N	20	N	50	N
K2057S	N	15	N	150	100	N	30	N	100	N
K2058S	N	30	N	200	200	N	30	N	100	N
K2059S	N	20	N	150	300	N	20	N	50	N
K2060S	N	20	N	200	200	N	20	N	70	N
K2061S	N	30	N	300	200	N	20	N	50	N
K2062S	N	20	N	200	200	N	30	N	70	N
K2063S	N	20	N	300	150	N	20	N	100	N
K2064S	N	20	N	300	200	N	20	N	100	N
K2065S	N	20	N	300	150	N	30	N	100	--
K2066S	N	20	N	300	100	N	20	N	50	--
K2066SD	N	20	N	300	150	N	30	N	100	N
K2067S	N	20	N	300	150	N	30	N	70	N
K2068S	N	20	N	200	100	N	30	N	100	N
K2069S	N	15	N	200	100	N	20	N	100	N
K2070S	N	20	N	200	200	N	30	N	70	N
K2071S	N	20	N	200	100	N	50	N	200	N
K2072S	N	15	N	200	150	N	20	N	100	N
K2073S	N	20	N	300	150	N	20	N	50	N
K2074S	N	20	N	300	150	N	30	N	70	N
K2075S	N	20	N	200	100	N	30	N	100	N
K2076S	N	20	N	500	150	N	20	N	150	N
K2077S	N	20	N	200	150	N	30	N	100	--
K2078S	N	20	N	300	100	N	20	N	70	N
K2079S	N	30	N	300	200	N	30	N	200	N
K2080S	N	15	N	200	100	N	30	N	100	N
K2081S	N	20	N	300	150	N	20	N	100	N
K2081SD	N	20	N	300	200	N	30	N	200	N
K2082S	N	20	N	200	200	N	50	N	100	N
K2083S	N	20	N	200	100	N	20	N	200	N
K2084S	N	20	N	200	100	N	20	N	200	N
K2085S	N	20	N	200	100	N	20	N	100	N
K2086S	N	20	N	300	100	N	20	N	70	N
K2087S	N	20	N	200	150	N	20	N	70	N
K2088S	N	20	N	200	150	N	20	N	70	N
K2089S	N	20	N	200	200	N	30	N	100	N
K2090S	N	20	N	300	150	N	20	N	70	N
K2091S	N	15	N	200	100	N	20	N	70	N
K2092S	N	20	N	300	100	N	30	N	70	N
K2093S	N	20	N	300	100	N	30	N	70	N
K2094S	N	20	N	200	150	N	20	N	100	N
K2095S	N	30	N	200	100	N	50	N	100	N
K2096S	N	15	N	200	100	N	20	N	70	N
K2097S	N	20	N	300	200	N	30	N	150	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K2098S	58 9 40	156 3 27	1.5	1.00	3.0	.30	700	N	N	N	10	500
K2099S	58 12 10	156 1 30	1.0	.70	3.0	.50	1,000	N	N	N	<10	300
K2100S	58 14 5	156 6 0	2.0	1.00	5.0	.70	1,500	N	N	N	<10	300
K2101S	58 29 12	156 17 4	.7	.70	2.0	.20	300	N	N	N	10	200
K2102S	58 2 12	156 24 0	1.5	1.00	5.0	.50	700	N	N	N	10	300
K2103S	58 3 12	156 26 22	1.5	1.50	5.0	.50	1,000	N	N	N	<10	500
K2104S	58 6 8	156 26 11	1.0	1.00	2.0	.30	700	N	N	N	15	300
K2105S	58 9 42	156 27 31	1.0	.70	2.0	.20	700	N	N	N	10	300
K2106S	58 10 21	156 24 30	.7	.50	1.5	.20	500	N	N	N	15	200
K2107S	58 32 20	156 15 15	1.0	1.00	2.0	.30	500	N	N	N	15	300
K2108S	58 32 38	156 16 2	1.0	1.00	3.0	.30	1,000	N	N	N	20	300
K2109S	58 35 23	155 17 42	1.5	1.00	3.0	.50	1,000	N	N	N	15	300
K2110S	58 36 37	155 14 54	.7	.70	2.0	.20	300	N	N	N	15	300
K2111S	58 34 30	155 15 3	1.0	1.00	5.0	.30	700	N	N	N	10	500
K2112S	58 36 18	155 10 48	.7	.70	2.0	.30	500	<.5	N	N	10	300
K2113S	58 39 0	155 10 32	1.0	1.00	3.0	.50	700	N	N	N	10	300
K2114S	58 40 12	155 13 50	1.0	1.00	3.0	.30	500	N	N	N	15	500
K2115S	58 40 2	155 5 39	1.5	1.00	5.0	.50	500	N	N	N	10	500
K2116S	58 40 1	155 5 32	1.5	1.00	5.0	.50	700	N	N	N	10	500
K2117S	58 35 21	155 5 23	.7	1.00	7.0	.20	700	7.0	N	N	10	500
K2118S	58 42 0	155 6 21	2.0	1.50	5.0	.50	700	N	N	N	15	500
K2119S	58 43 5	155 4 7	1.0	1.00	3.0	.30	700	N	N	N	10	300
K2120S	58 42 50	155 1 24	1.5	1.00	5.0	.30	700	<.5	N	N	10	300
K2121S	58 41 52	154 59 20	1.5	1.00	5.0	.50	1,000	N	N	N	15	300
K2122S	58 44 0	154 54 45	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K2123S	58 47 25	156 24 0	1.5	1.00	5.0	.50	700	N	N	N	20	300
K2124S	58 48 24	156 23 1	.7	1.00	2.0	.20	700	N	N	N	10	300
K2125S	58 49 14	156 20 52	1.5	1.00	5.0	.70	1,000	N	N	N	10	300
K2126S	58 49 48	156 29 38	1.0	.70	2.0	.30	500	N	N	N	10	300
K2127S	58 51 51	156 20 12	.5	.50	3.0	.30	1,000	N	N	N	10	300
K2128S	58 51 8	156 18 30	1.5	1.00	3.0	.30	700	N	N	N	10	500
K2129S	58 49 33	156 18 0	1.5	1.00	3.0	.30	500	N	N	N	15	300
K2130S	58 48 4	156 12 0	1.0	1.00	2.0	.20	500	N	N	N	10	300
K2131S	58 46 42	156 4 55	1.0	1.00	3.0	.30	700	N	N	N	<10	200
K2131SD	58 46 42	156 4 55	2.0	1.00	7.0	.50	700	N	N	N	10	300
K2132S	58 50 19	156 4 38	1.0	1.00	2.0	.20	1,000	N	N	N	10	300
K2133S	58 52 17	156 0 45	2.0	1.00	7.0	.70	2,000	N	N	N	10	500
K2134S	58 52 12	156 7 10	1.5	1.00	5.0	.70	2,000	N	N	N	15	500
K2135S	58 52 21	156 7 11	1.5	1.00	7.0	.70	1,000	N	N	N	10	300
K2136S	58 53 2	156 13 56	1.5	1.00	3.0	.50	500	N	N	N	10	300
K2137S	58 56 7	156 17 38	1.0	1.00	3.0	.50	700	N	N	N	15	500
K2138S	58 57 25	156 8 37	.5	.70	2.0	.20	500	N	N	N	15	300
K2139S	58 58 0	156 6 56	1.5	.70	5.0	.50	700	N	N	N	10	300
K2140S	58 57 49	156 4 18	2.0	1.00	5.0	1.00	1,000	N	N	N	10	500
K2141S	58 57 52	156 4 30	1.0	1.00	3.0	.30	500	N	N	N	15	300
K2142S	58 43 19	155 8 30	1.0	.70	3.0	.30	500	N	N	N	<10	300
K2143S	58 44 31	155 10 30	1.5	1.00	5.0	.50	1,000	N	N	N	10	500
K2144S	58 43 57	155 13 0	1.0	1.00	5.0	.50	1,000	N	N	N	10	300
K2145S	58 47 50	155 12 30	1.5	1.00	3.0	.50	700	N	N	N	15	500
K2146S	58 49 17	155 14 11	1.5	1.00	5.0	.70	1,000	N	N	N	10	300
K2147S	58 52 39	155 17 11	1.5	1.00	5.0	.50	1,000	N	N	N	10	500
K2147SD	58 52 39	155 17 11	1.5	1.00	5.0	.30	700	N	N	N	10	300
K2148S	58 52 45	155 17 0	1.5	1.00	5.0	.70	1,000	N	N	N	10	300
K2149S	58 53 44	155 23 30	.7	.50	7.0	.30	1,500	N	N	N	10	300
K2150S	58 46 54	155 54 5	1.5	1.00	7.0	.50	1,000	N	N	N	15	300
K2151S	58 53 8	155 24 35	1.5	.70	5.0	.50	1,000	N	N	N	10	300
K2152S	58 46 23	155 51 48	1.0	1.00	5.0	.50	1,000	N	N	N	10	300
K2153S	58 59 4	155 58 35	.5	.50	1.0	.15	500	N	N	N	10	300
K2154S	58 58 27	155 57 13	.7	.50	1.5	.30	500	N	N	N	20	300
K2155S	58 55 30	155 54 5	.7	.50	3.0	.50	700	N	N	N	10	300

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K2098S	N	N	N	15	50	10	N	N	N	15	10
K2099S	N	N	N	15	30	<5	N	N	N	10	N
K2100S	N	N	N	30	70	10	N	N	N	20	10
K2101S	N	N	N	7	20	15	N	N	N	10	10
K2102S	<1.0	N	N	15	70	20	N	N	N	20	10
K2103S	N	N	N	20	50	10	N	N	N	10	10
K2104S	<1.0	N	N	10	50	20	N	N	N	15	15
K2105S	<1.0	N	N	10	20	15	N	N	N	7	10
K2106S	N	N	N	7	20	10	N	N	N	7	<10
K2107S	<1.0	N	N	15	50	10	N	N	N	10	10
K2108S	<1.0	N	N	15	70	15	N	N	N	15	10
K2109S	N	N	N	20	30	20	N	N	N	10	<10
K2110S	<1.0	N	N	10	30	20	N	N	N	10	10
K2111S	<1.0	N	N	15	20	15	N	<5	N	7	10
K2112S	N	N	N	7	15	10	N	<5	N	10	10
K2113S	<1.0	N	N	15	50	15	N	N	N	15	<10
K2114S	<1.0	N	N	15	30	30	N	5	N	10	15
K2115S	N	N	N	20	100	20	N	N	N	15	<10
K2116S	N	N	N	30	150	30	N	N	N	20	<10
K2117S	<1.0	N	N	10	10	10	N	N	N	5	10
K2118S	<1.0	N	N	30	200	20	N	N	N	50	10
K2119S	N	N	N	20	100	20	N	N	N	30	<10
K2120S	N	N	N	20	100	50	N	7	N	20	<10
K2121S	N	N	N	30	50	20	N	N	N	20	<10
K2122S	N	N	N	30	50	10	N	N	N	15	10
K2123S	N	N	N	15	70	7	N	N	N	15	10
K2124S	<1.0	N	N	10	50	10	N	N	N	10	10
K2125S	<1.0	N	N	15	70	10	N	N	N	15	<10
K2126S	<1.0	N	N	10	50	10	N	N	N	15	<10
K2127S	N	N	N	10	30	7	N	N	N	10	<10
K2128S	N	N	N	15	100	15	N	N	N	15	10
K2129S	<1.0	N	N	15	70	10	N	N	N	15	10
K2130S	<1.0	N	N	10	50	7	N	N	N	10	10
K2131S	<1.0	N	N	15	70	7	N	N	N	15	<10
K2131SD	N	N	N	30	150	7	N	N	N	20	10
K2132S	<1.0	N	N	15	30	7	N	N	N	7	10
K2133S	<1.0	N	N	20	100	15	N	N	N	10	<10
K2134S	<1.0	N	N	30	70	20	N	N	N	20	10
K2135S	N	N	N	20	100	20	N	N	N	20	10
K2136S	N	N	N	10	70	10	N	N	N	10	10
K2137S	N	N	N	15	50	20	N	N	N	10	10
K2138S	<1.0	N	N	N	30	7	N	N	N	10	15
K2139S	<1.0	N	N	15	70	10	N	N	N	15	10
K2140S	N	N	N	20	150	10	N	N	N	10	10
K2141S	<1.0	N	N	15	50	10	N	N	N	10	<10
K2142S	N	N	N	10	30	10	N	N	N	7	<10
K2143S	<1.0	N	N	20	30	10	N	N	N	10	<10
K2144S	N	N	N	20	70	10	N	N	N	10	<10
K2145S	N	N	N	20	100	15	N	N	N	20	10
K2146S	<1.0	N	N	15	50	15	N	N	N	10	10
K2147S	<1.0	N	N	20	50	20	N	N	N	10	15
K2147SD	N	N	N	20	50	30	N	N	N	20	15
K2148S	<1.0	N	N	20	100	15	N	N	N	7	10
K2149S	N	N	N	20	50	10	N	N	N	10	N
K2150S	<1.0	N	N	20	70	10	N	N	N	15	<10
K2151S	N	N	N	10	50	7	N	N	N	10	10
K2152S	N	N	N	20	100	15	N	N	N	20	10
K2153S	N	N	N	<5	15	7	N	N	N	5	<10
K2154S	N	N	N	5	30	7	N	N	N	5	<10
K2155S	<1.0	N	N	7	30	7	N	N	N	5	<10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K2098S	N	20	N	300	100	N	30	N	150	N
K2099S	N	20	N	200	100	N	20	N	300	N
K2100S	N	30	N	300	150	N	50	N	100	N
K2101S	N	15	N	200	100	N	20	N	100	N
K2102S	N	20	N	200	150	N	20	N	70	N
K2103S	N	20	N	500	150	N	30	N	200	N
K2104S	N	20	N	200	100	N	30	N	100	N
K2105S	N	15	N	200	150	N	20	N	70	N
K2106S	N	10	N	100	100	N	15	N	70	N
K2107S	N	20	N	200	150	N	20	N	150	N
K2108S	N	15	N	300	150	N	20	N	100	N
K2109S	N	20	N	200	200	N	30	N	200	N
K2110S	N	10	N	100	100	N	20	N	100	N
K2111S	N	20	N	300	150	N	50	N	100	N
K2112S	N	15	N	200	100	N	50	N	100	N
K2113S	N	20	N	200	150	N	30	N	100	N
K2114S	N	15	N	200	150	N	30	N	150	N
K2115S	N	20	N	300	150	N	30	N	100	N
K2116S	N	30	N	300	150	N	30	N	200	N
K2117S	N	20	N	150	100	N	30	N	100	N
K2118S	N	30	N	500	200	N	30	N	100	N
K2119S	N	20	N	300	150	N	20	N	150	N
K2120S	N	20	N	300	200	50	30	N	70	N
K2121S	N	30	N	300	200	N	20	N	70	N
K2122S	N	20	N	200	200	N	20	N	70	N
K2123S	N	20	N	200	100	N	20	N	300	N
K2124S	N	10	N	200	100	N	20	N	50	N
K2125S	N	20	N	200	150	N	30	N	200	N
K2126S	N	15	N	200	100	N	20	N	100	N
K2127S	N	10	N	150	70	N	15	N	100	N
K2128S	N	20	N	300	100	N	20	N	150	N
K2129S	N	20	N	300	100	N	20	N	100	N
K2130S	N	20	N	300	100	N	20	N	100	N
K2131S	N	20	N	200	100	N	15	N	200	N
K2131SD	N	20	N	200	150	N	20	N	200	N
K2132S	N	15	N	300	100	N	20	N	100	N
K2133S	N	20	N	300	150	N	20	N	300	N
K2134S	N	20	N	300	150	N	20	N	200	N
K2135S	N	20	N	300	150	N	20	N	200	N
K2136S	N	20	N	200	100	N	20	N	70	N
K2137S	N	20	N	300	150	N	30	N	150	N
K2138S	N	10	N	200	70	N	10	N	50	N
K2139S	N	20	N	300	150	N	20	N	100	N
K2140S	N	30	N	200	150	N	30	N	200	N
K2141S	N	20	N	200	150	N	20	N	300	N
K2142S	N	15	N	150	100	N	20	N	50	N
K2143S	N	20	N	300	150	N	30	N	150	N
K2144S	N	15	N	200	200	N	20	N	100	N
K2145S	N	20	N	200	150	N	20	N	70	N
K2146S	N	20	N	300	150	N	50	N	100	N
K2147S	N	20	N	300	100	N	20	N	70	N
K2147SD	N	20	N	200	150	N	20	N	70	N
K2148S	N	20	N	200	150	N	50	N	150	N
K2149S	N	15	N	150	150	N	15	N	70	N
K2150S	N	30	N	300	200	N	30	N	200	N
K2151S	N	15	N	150	150	N	15	N	150	N
K2152S	N	20	N	200	200	N	20	N	150	N
K2153S	N	7	N	150	50	N	10	N	70	N
K2154S	N	7	N	200	50	N	10	N	100	N
K2155S	N	15	N	200	150	N	20	N	100	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K2156S	58 55 18	155 50 57	1.5	1.00	5.0	.70	1,000	N	N	N	10	300
K2501S	58 19 34	155 17 15	1.5	1.00	10.0	.70	1,000	N	N	N	10	300
K2502S	58 18 47	155 16 28	1.5	1.00	5.0	.70	1,000	N	N	N	10	300
K2503S	58 16 43	155 16 21	1.5	1.00	7.0	.70	1,000	N	N	N	<10	200
K2504S	58 15 57	155 16 25	1.5	1.00	5.0	.70	1,000	1.0	N	N	10	500
K2505S	58 15 51	155 11 58	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K2506S	58 17 12	155 10 16	2.0	1.00	7.0	.70	1,000	N	N	N	<10	300
K2507S	58 16 58	155 5 5	2.0	1.00	10.0	1.00	1,000	N	N	N	10	700
K2508S	58 18 16	155 4 40	1.5	.70	10.0	.70	1,000	N	N	N	10	300
K2509S	58 18 30	155 5 10	1.5	.50	5.0	.50	700	N	N	N	<10	100
K2510S	58 18 49	155 7 15	2.0	1.50	10.0	1.00	1,000	N	N	N	10	500
K2511S	58 19 20	155 9 11	2.0	1.00	15.0	1.00	1,000	N	N	N	<10	300
K2512S	58 21 0	155 11 11	2.0	1.00	7.0	.50	1,000	N	N	N	10	200
K2513S	58 21 0	155 11 21	1.5	.70	7.0	1.00	1,000	N	N	N	<10	200
K2514S	58 20 45	155 12 40	2.0	.70	7.0	.70	500	N	N	N	10	300
K2515S	58 20 48	155 14 1	1.5	1.00	5.0	.50	1,000	N	N	N	10	500
K2516S	58 21 39	155 15 40	1.5	.70	10.0	>1.00	1,000	N	N	N	<10	150
K2517S	58 22 10	155 17 0	1.0	.50	10.0	1.00	1,000	N	N	N	N	100
K2518S	58 24 8	155 23 51	2.0	1.00	10.0	1.00	1,000	N	N	N	50	1,000
K2519S	58 25 55	155 12 6	1.5	.50	10.0	1.00	700	N	N	N	10	300
K2520S	58 26 48	155 11 50	1.5	1.00	5.0	.50	500	N	N	N	10	200
K2521S	58 25 42	155 8 32	2.0	1.00	15.0	1.00	1,500	N	N	N	<10	300
K2522S	58 25 40	155 8 45	2.0	1.00	10.0	.70	1,000	N	N	N	10	700
K2523S	58 26 20	155 0 50	1.0	.70	3.0	.30	700	N	N	N	10	300
K2524S	58 25 28	155 1 55	2.0	1.00	10.0	>1.00	1,000	N	N	N	10	700
K2525S	58 24 40	155 0 35	1.5	1.00	5.0	.30	700	<.5	N	N	15	300
K2526S	58 22 36	154 58 47	2.0	1.00	15.0	1.00	1,500	N	N	N	<10	500
K2527S	58 21 43	154 58 22	1.5	.70	10.0	.70	1,000	N	N	N	<10	200
K2527SD	58 21 43	154 58 22	2.0	1.00	10.0	.70	1,000	N	N	N	10	300
K2528S	58 20 41	154 57 18	1.5	1.00	7.0	.50	1,000	N	N	N	70	200
K2529S	58 20 12	154 55 15	1.5	1.00	10.0	.70	1,000	N	N	N	10	200
K2530S	58 19 32	154 59 10	1.5	1.00	7.0	.70	1,000	N	N	N	10	200
K2531S	58 19 36	154 59 22	2.0	1.00	7.0	.50	1,000	N	N	N	10	200
K2532S	58 20 9	154 59 10	1.5	1.00	7.0	.70	1,500	1.0	N	N	10	1,000
K2533S	58 22 2	155 33 1	1.5	.70	7.0	1.00	1,500	N	N	N	10	300
K2534S	58 22 5	155 33 12	1.5	.70	5.0	.50	1,000	N	N	N	10	200
K2535S	58 21 58	155 30 42	3.0	.70	7.0	1.00	1,000	N	N	N	20	500
K2536S	58 25 48	155 29 50	2.0	1.00	10.0	1.00	1,000	N	N	N	20	700
K2537S	58 25 54	155 29 52	3.0	2.00	5.0	.70	1,000	N	N	N	30	1,000
K2538S	58 19 42	155 27 20	2.0	.70	10.0	1.00	1,000	N	N	N	10	500
K2539S	58 18 40	155 27 50	3.0	1.00	10.0	1.00	1,000	N	N	N	20	500
K2540S	58 17 37	155 31 50	3.0	1.50	7.0	1.00	1,000	N	N	N	10	700
K2541S	58 17 10	155 35 24	2.0	1.50	5.0	.30	1,000	N	N	N	10	300
K2542S	58 17 50	155 39 0	3.0	1.50	7.0	1.00	1,000	N	N	N	20	500
K2543S	58 22 5	155 38 50	2.0	1.00	10.0	1.00	1,000	N	N	N	10	700
K2544S	58 21 58	155 38 30	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K2545S	58 22 25	155 37 52	1.0	.70	3.0	.30	500	N	N	N	10	200
K2546S	58 29 12	155 31 20	1.5	1.00	5.0	.50	500	N	N	N	15	300
K2547S	58 29 36	155 30 0	1.0	1.00	3.0	.30	700	<.5	N	N	15	500
K2548S	58 28 8	155 20 32	1.5	1.00	5.0	.50	700	N	N	N	10	200
K2549S	58 27 8	155 16 48	2.0	1.00	5.0	.50	700	N	N	N	10	300
K2550S	58 29 30	155 10 23	2.0	1.00	7.0	.70	1,500	N	N	N	10	300
K2551S	58 27 22	155 0 25	1.5	.70	5.0	.50	500	<.5	N	N	15	300
K2552S	58 25 35	154 58 5	2.0	1.00	5.0	.50	700	N	N	N	20	1,000
K2553S	58 23 50	154 54 45	2.0	1.00	10.0	.70	1,000	N	N	N	10	200
K2554S	58 25 0	154 52 10	1.5	1.00	10.0	1.00	700	N	N	N	10	200
K2554SD	58 25 0	154 52 10	3.0	1.00	10.0	1.00	1,000	N	N	N	15	500
K2555S	58 24 52	154 52 30	3.0	1.00	10.0	>1.00	1,000	N	N	N	10	700
K2556S	58 24 52	154 52 57	3.0	1.00	7.0	>1.00	1,000	N	N	N	30	500
K2557S	58 23 38	154 48 6	3.0	1.00	10.0	1.00	1,000	N	N	N	30	500

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K2156S	<1.0	N	N	20	70	10	N	N	N	15	<10
K2501S	N	N	N	70	100	20	N	N	N	20	<10
K2502S	<1.0	N	N	50	50	20	N	N	N	15	10
K2503S	<1.0	N	N	50	70	10	N	N	N	20	10
K2504S	N	N	N	30	70	30	N	N	N	20	10
K2505S	N	N	N	30	50	20	N	N	N	10	15
K2506S	<1.0	N	N	30	50	7	N	N	N	15	<10
K2507S	N	N	N	50	30	70	N	N	N	15	30
K2508S	<1.0	N	N	30	50	10	N	N	N	15	<10
K2509S	N	N	N	50	70	10	N	N	N	15	10
K2510S	N	N	N	70	70	10	N	10	N	15	<10
K2511S	N	N	N	70	70	20	N	N	N	15	<10
K2512S	N	N	N	70	100	30	N	N	N	15	10
K2513S	N	N	N	50	70	10	N	N	N	10	<10
K2514S	N	N	N	50	100	20	N	N	N	10	10
K2515S	N	N	N	20	30	20	N	N	N	10	10
K2516S	N	N	N	70	70	10	N	N	N	20	<10
K2517S	N	N	N	50	100	20	N	N	N	15	<10
K2518S	<1.0	N	N	30	200	70	N	N	N	20	50
K2519S	N	N	N	70	100	30	N	N	N	20	10
K2520S	N	N	N	20	70	20	N	N	N	20	15
K2521S	N	N	N	150	70	30	N	N	N	20	<10
K2522S	N	N	N	50	70	70	N	N	N	20	30
K2523S	N	N	N	20	30	10	N	N	N	7	15
K2524S	N	N	N	100	100	100	N	N	N	20	30
K2525S	N	N	N	50	100	30	N	N	N	30	70
K2526S	N	N	N	100	50	150	N	N	N	20	30
K2527S	N	N	N	50	70	20	N	N	N	15	15
K2527SD	N	N	N	50	100	50	N	20	N	20	100
K2528S	<1.0	N	N	50	70	30	N	N	N	20	10
K2529S	N	N	N	50	100	30	N	N	N	30	10
K2530S	N	N	N	30	100	20	N	N	N	15	10
K2531S	N	N	N	50	50	30	N	N	N	15	15
K2532S	N	N	<20	50	100	300	N	N	N	15	150
K2533S	<1.0	N	N	50	50	20	N	N	N	20	10
K2534S	<1.0	N	N	30	50	300	N	N	N	20	<10
K2535S	N	N	N	50	70	20	N	N	N	20	20
K2536S	N	N	N	50	70	50	N	N	N	15	50
K2537S	<1.0	N	N	30	70	30	N	N	N	15	30
K2538S	N	N	N	100	70	100	N	N	N	20	50
K2539S	N	N	N	50	50	20	N	N	N	10	30
K2540S	N	N	N	70	50	50	N	N	N	20	20
K2541S	N	N	N	50	70	20	N	N	N	20	10
K2542S	N	N	N	50	50	10	N	N	N	15	30
K2543S	N	N	N	30	50	70	N	N	N	10	50
K2544S	N	N	N	30	70	20	N	N	N	15	10
K2545S	N	N	N	15	50	10	N	N	N	15	<10
K2546S	N	N	N	20	70	20	N	N	N	20	10
K2547S	N	N	N	15	50	20	N	<5	N	15	15
K2548S	<1.0	N	N	30	70	20	N	N	N	20	10
K2549S	N	N	N	30	70	20	N	N	N	50	15
K2550S	N	N	N	50	50	20	N	N	N	15	<10
K2551S	<1.0	N	N	20	50	30	N	N	N	20	15
K2552S	<1.0	N	N	20	20	7	N	N	N	5	30
K2553S	N	N	N	50	100	20	N	N	N	20	10
K2554S	N	N	N	50	70	30	N	N	N	20	10
K2554SD	N	N	N	50	50	70	N	N	N	20	50
K2555S	N	N	N	100	50	150	N	N	N	20	70
K2556S	N	N	N	70	50	100	N	N	N	30	100
K2557S	N	N	N	70	100	70	N	N	N	20	20

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K2156S	N	30	N	300	150	N	30	N	300	N
K2501S	N	30	N	150	300	N	30	N	70	N
K2502S	N	30	N	300	300	N	30	N	100	N
K2503S	N	30	N	100	300	N	20	N	70	N
K2504S	N	20	N	300	200	N	20	N	100	N
K2505S	N	30	N	200	200	N	50	N	100	N
K2506S	N	30	N	300	200	N	30	N	100	N
K2507S	N	30	N	300	500	N	50	200	200	N
K2508S	N	20	N	200	300	N	30	N	100	N
K2509S	N	30	N	<100	150	N	20	N	50	N
K2510S	N	30	N	300	300	N	50	N	70	N
K2511S	N	50	N	200	300	N	50	N	70	N
K2512S	N	30	N	150	200	N	30	N	50	N
K2513S	N	30	N	200	300	N	20	N	100	N
K2514S	N	20	N	100	200	N	20	N	100	N
K2515S	N	20	N	300	200	N	20	N	100	N
K2516S	N	30	N	N	500	N	20	N	50	N
K2517S	N	20	N	200	500	N	20	N	50	N
K2518S	N	30	N	700	300	N	70	<200	200	N
K2519S	N	30	N	N	500	N	20	N	100	N
K2520S	N	20	N	200	150	N	20	N	70	N
K2521S	N	30	N	100	700	N	20	N	50	N
K2522S	N	20	N	500	500	N	50	200	150	N
K2523S	N	20	N	200	150	N	20	N	100	N
K2524S	N	50	N	300	500	N	50	1,000	100	N
K2525S	N	20	N	200	100	N	30	N	70	N
K2526S	N	50	N	300	500	N	30	1,000	50	N
K2527S	N	30	N	200	200	N	20	N	70	N
K2527SD	N	30	N	300	200	N	30	N	50	N
K2528S	N	20	N	300	200	N	20	N	70	N
K2529S	N	20	N	200	300	N	20	N	70	N
K2530S	N	20	N	200	300	N	20	N	70	N
K2531S	N	20	N	200	300	N	20	N	30	N
K2532S	N	30	N	200	200	N	20	1,000	50	N
K2533S	N	20	N	300	300	N	30	N	100	N
K2534S	N	20	N	200	200	N	30	N	70	N
K2535S	N	30	N	500	1,000	N	50	500	150	N
K2536S	N	30	N	500	500	N	50	<200	200	N
K2537S	N	30	N	700	200	N	50	<200	150	N
K2538S	N	30	N	200	1,000	N	50	1,000	100	N
K2539S	N	30	N	300	700	N	50	300	150	N
K2540S	N	50	N	500	500	N	50	200	200	N
K2541S	N	30	N	500	150	N	30	N	50	N
K2542S	N	30	N	500	500	N	50	200	100	N
K2543S	N	20	N	500	300	N	50	<200	150	N
K2544S	N	20	N	200	200	N	30	N	100	N
K2545S	N	20	N	200	100	N	20	N	70	N
K2546S	N	20	N	300	150	N	30	N	100	N
K2547S	N	20	N	200	100	N	30	N	100	N
K2548S	N	20	N	200	200	N	20	N	70	N
K2549S	N	15	N	200	150	N	15	N	50	N
K2550S	N	30	N	200	300	N	30	N	100	N
K2551S	N	20	N	200	100	N	20	N	100	N
K2552S	N	20	N	500	100	N	50	N	200	N
K2553S	N	30	N	200	200	N	20	N	70	N
K2554S	N	30	N	200	300	N	20	N	100	N
K2554SD	N	30	N	500	700	N	50	300	150	N
K2555S	N	70	N	300	700	N	50	500	150	N
K2556S	N	50	N	500	1,000	N	50	500	100	N
K2557S	N	30	N	300	1,000	N	50	500	200	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K2558S	58 23 55	154 45 43	2.0	1.50	10.0	.70	1,000	N	N	N	20	700
K2559S	58 25 16	154 45 40	1.5	1.00	7.0	.70	1,000	N	N	N	<10	150
K2560S	58 27 0	154 46 1	1.5	1.00	10.0	1.00	1,000	N	N	N	100	200
K2561S	58 29 40	154 52 41	1.5	.50	7.0	1.00	700	N	N	N	10	200
K2561SD	58 29 40	154 52 41	2.0	1.00	10.0	>1.00	1,000	N	N	N	20	200
K2562S	58 24 0	154 37 48	1.0	1.00	7.0	.50	700	N	N	N	20	300
K2563S	58 22 30	154 41 10	2.0	.70	10.0	.70	1,500	N	N	N	15	300
K2564S	58 22 40	154 41 20	1.5	.70	7.0	.70	700	N	N	N	10	500
K2565S	58 26 39	154 37 21	1.5	1.00	5.0	.50	700	N	N	N	10	200
K2566S	58 30 8	154 42 30	1.5	.70	3.0	.30	500	N	N	N	10	200
K2567S	58 32 38	154 40 20	1.0	.70	5.0	.50	700	N	N	N	10	300
K2568S	58 32 27	154 38 56	1.5	.70	5.0	.50	500	N	N	N	20	300
K2569S	58 31 0	154 33 18	3.0	1.00	7.0	.70	1,000	N	N	N	70	700
K2570S	58 31 10	154 33 22	1.5	1.00	5.0	.50	500	N	N	N	15	300
K2571S	58 30 55	155 2 27	1.5	.70	5.0	.70	1,000	N	N	N	10	300
K2572S	58 30 48	154 57 34	1.5	1.00	5.0	.70	700	N	N	N	15	500
K2573S	58 32 14	154 54 25	1.5	1.00	5.0	.70	700	N	N	N	10	300
K2574S	58 34 16	154 39 31	1.5	1.00	5.0	.50	700	N	N	N	20	300
K2575S	58 34 27	154 35 57	1.5	1.00	5.0	.50	700	<.5	N	N	20	500
K2576S	58 34 42	154 36 27	2.0	1.00	7.0	.50	>20	<.5	N	N	20	500
K2577S	58 37 33	154 34 26	1.0	1.00	5.0	.50	500	N	N	N	50	300
K2578S	58 37 30	154 34 24	1.5	1.00	5.0	.50	500	<.5	N	N	15	500
K2578SD	58 37 30	154 34 24	1.5	1.00	3.0	.30	500	<.5	N	N	15	500
K2579S	58 31 48	154 29 39	1.5	1.00	3.0	.30	500	N	N	N	10	200
K2580S	58 35 59	154 28 23	1.0	.70	3.0	.20	500	N	N	N	30	500
K2581S	58 35 5	155 32 48	1.5	1.00	7.0	.70	1,000	N	N	N	10	300
K2582S	58 34 51	155 29 20	1.5	.70	5.0	.50	1,000	N	N	N	15	300
K2583S	58 32 28	155 27 30	1.0	1.00	5.0	.30	500	N	N	N	30	300
K2584S	58 30 0	155 28 30	1.5	.70	5.0	.50	1,000	N	N	N	10	300
K2584SD	58 30 0	155 28 30	1.5	1.00	5.0	.50	700	N	N	N	10	500
K2585S	58 40 18	155 47 0	1.5	1.00	5.0	.30	1,500	N	N	N	10	300
K2586S	58 41 52	155 48 1	3.0	1.50	10.0	.70	1,000	N	N	N	10	500
K2587S	58 44 42	156 5 33	.5	.50	3.0	.15	700	N	N	N	10	150
K2588S	58 47 49	155 58 10	1.0	.70	2.0	.30	500	N	N	N	15	200
K2589S	58 48 38	155 59 20	1.0	.70	5.0	.30	700	N	N	N	10	300
K2590S	58 49 20	155 58 52	1.0	1.00	7.0	.70	1,000	N	N	N	10	300
K2591S	58 50 5	155 55 5	1.5	1.00	5.0	.50	1,000	N	N	N	10	200
K2592S	58 48 50	155 53 1	1.5	1.00	5.0	.50	1,000	N	N	N	<10	300
K2593S	58 49 0	155 52 30	1.5	.70	7.0	.70	1,000	N	N	N	<10	300
K2594S	58 1 50	155 45 0	1.5	1.50	5.0	.50	700	N	N	N	10	200
K2595S	58 3 30	155 46 22	2.0	1.00	5.0	.30	500	N	N	N	10	300
K2596S	58 5 53	155 48 30	1.5	1.00	5.0	.50	700	N	N	N	10	300
K2597S	58 4 5	155 55 42	1.5	1.00	5.0	.50	700	N	N	N	10	150
K2600S	58 0 40	155 50 58	1.5	1.50	5.0	.50	700	N	N	N	10	150
K2601S	58 49 33	155 29 24	1.0	.70	3.0	.30	1,000	N	N	N	10	300
K2602S	58 49 32	155 29 0	1.0	1.00	5.0	.70	5,000	N	N	N	10	500
K2603S	58 47 54	155 25 22	1.0	.70	3.0	.20	1,000	N	N	N	10	300
K2604S	58 48 0	155 25 0	1.0	1.00	5.0	.50	1,000	N	N	N	15	200
K2605S	58 48 22	155 25 10	.7	1.00	2.0	.20	300	N	N	N	15	300
K2606S	58 35 0	154 21 13	1.0	.70	3.0	.30	500	N	N	N	20	500
K2607S	58 35 2	154 20 49	1.0	.50	3.0	.20	500	N	N	N	15	300
K2608S	58 36 4	154 24 39	1.0	1.00	5.0	.50	700	N	N	N	15	700
K2609S	58 37 3	154 31 56	1.0	.70	5.0	.50	700	<.5	N	N	15	500
K2610S	58 38 55	154 31 36	1.5	.70	3.0	.30	500	<.5	N	N	30	300
K2611S	58 38 32	154 32 32	1.5	1.00	5.0	.50	700	<.5	N	N	20	500
K2612S	58 36 25	154 37 39	1.0	1.00	5.0	.30	500	N	N	N	15	500
K2614S	58 41 49	154 34 42	1.0	1.00	3.0	.30	700	N	N	N	<10	200
K2615S	58 41 58	154 34 47	1.0	.70	7.0	.70	1,000	N	N	N	<10	300
K2616S	58 14 25	155 15 15	2.0	1.00	10.0	1.00	700	N	N	N	<10	150
K2617S	58 14 28	155 14 4	1.0	.50	5.0	.70	700	N	N	N	<10	300

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K2558S	N	N	N	50	100	100	N	N	N	20	30
K2559S	N	N	N	50	50	30	N	N	N	20	10
K2560S	N	N	N	50	100	30	N	N	N	20	15
K2561S	N	N	N	70	70	10	N	N	N	20	<10
K2561SD	N	N	N	50	100	30	N	N	N	20	10
K2562S	<1.0	N	N	20	100	30	N	N	N	30	10
K2563S	N	N	N	70	100	30	N	N	N	20	10
K2564S	N	N	N	20	70	15	N	N	N	15	15
K2565S	N	N	N	30	100	20	N	N	N	30	10
K2566S	N	N	N	20	100	15	N	N	N	30	<10
K2567S	N	N	N	20	70	15	N	N	N	30	10
K2568S	N	N	N	20	70	30	N	N	N	20	10
K2569S	N	N	N	50	100	70	N	N	N	50	30
K2570S	N	N	N	20	150	20	N	N	N	50	10
K2571S	<1.0	N	N	20	50	10	N	N	N	15	<10
K2572S	N	N	N	30	70	30	N	N	N	30	10
K2573S	<1.0	N	N	20	70	20	20	N	N	20	10
K2574S	<1.0	N	N	20	50	20	N	N	N	30	<10
K2575S	<1.0	N	N	20	100	30	N	N	N	30	15
K2576S	N	N	N	30	100	30	N	N	N	30	10
K2577S	N	N	N	20	100	30	N	N	N	50	<10
K2578S	<1.0	N	N	20	100	50	N	N	N	30	15
K2578SD	N	N	N	20	100	30	N	N	N	30	15
K2579S	N	N	N	15	70	20	N	N	N	20	<10
K2580S	<1.0	N	N	15	50	20	N	N	N	15	10
K2581S	N	N	N	20	50	15	N	N	N	15	<10
K2582S	N	N	N	20	50	50	N	N	N	15	<10
K2583S	<1.0	N	N	20	20	200	N	5	N	10	10
K2584S	N	N	N	20	50	20	N	N	N	15	10
K2584SD	<1.0	N	N	15	50	20	N	N	N	10	<10
K2585S	N	N	N	20	50	10	N	N	N	10	10
K2586S	N	N	N	30	50	7	N	N	N	15	10
K2587S	<1.0	N	N	7	15	7	N	N	N	<5	10
K2588S	N	N	N	15	20	10	N	N	N	10	10
K2589S	<1.0	N	N	20	30	20	N	N	N	10	15
K2590S	<1.0	N	N	20	30	10	N	N	N	5	10
K2591S	N	N	N	20	30	20	N	N	N	20	15
K2592S	<1.0	N	N	30	70	20	N	N	N	15	10
K2593S	N	N	N	20	70	20	N	N	N	20	15
K2594S	N	N	N	20	100	30	N	N	N	20	<10
K2595S	N	N	N	20	100	20	N	N	N	30	10
K2596S	N	N	N	20	150	30	N	N	N	50	10
K2597S	<1.0	N	N	20	50	50	N	N	N	20	10
K2600S	N	N	N	30	50	50	N	N	N	30	<10
K2601S	N	N	N	15	150	15	N	N	N	15	10
K2602S	N	N	N	20	50	10	N	N	N	10	10
K2603S	N	N	N	15	50	10	N	N	N	10	<10
K2604S	N	N	N	20	100	20	N	N	N	20	<10
K2605S	<1.0	N	N	7	20	10	N	N	N	<5	15
K2606S	<1.0	N	N	15	70	20	N	N	N	30	<10
K2607S	<1.0	N	N	10	70	15	50	N	N	10	<10
K2608S	N	N	N	15	100	30	N	N	N	15	10
K2609S	<1.0	N	N	20	100	20	N	N	N	30	10
K2610S	N	N	N	15	70	30	N	N	N	30	15
K2611S	N	N	N	20	100	30	N	N	N	20	15
K2612S	<1.0	N	N	15	30	20	N	<5	N	10	20
K2614S	N	N	N	15	50	20	N	N	N	20	10
K2615S	N	N	N	20	200	7	N	N	N	15	<10
K2616S	N	N	N	70	100	20	N	N	N	20	N
K2617S	N	N	N	20	70	10	N	N	N	10	<10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K2558S	N	30	N	500	300	N	50	200	150	N
K2559S	N	30	N	200	300	N	20	N	50	N
K2560S	N	30	N	200	500	N	30	N	100	N
K2561S	N	30	N	150	200	N	20	N	70	N
K2561SD	N	30	N	200	500	N	20	N	100	N
K2562S	N	20	N	200	150	N	30	N	100	N
K2563S	N	20	N	100	500	N	20	N	100	N
K2564S	N	20	N	200	150	N	20	N	100	N
K2565S	N	20	N	200	200	N	20	N	50	N
K2566S	N	20	N	200	100	N	20	N	50	N
K2567S	N	20	N	200	200	N	20	N	70	N
K2568S	N	20	N	300	150	N	20	N	70	N
K2569S	N	30	N	500	300	N	50	200	100	N
K2570S	N	20	N	300	150	N	20	N	50	N
K2571S	N	20	N	200	200	N	20	N	100	N
K2572S	N	20	N	300	150	N	20	N	100	N
K2573S	N	20	N	200	200	N	30	N	70	N
K2574S	N	20	N	300	150	N	20	N	70	N
K2575S	N	20	N	500	150	N	20	N	100	N
K2576S	N	30	N	500	200	N	30	<200	70	N
K2577S	N	20	N	300	150	N	20	N	70	N
K2578S	N	20	N	300	150	N	20	N	70	N
K2578SD	N	20	N	300	150	N	20	N	50	N
K2579S	N	20	N	200	100	N	20	N	50	N
K2580S	N	15	N	300	100	N	15	N	200	N
K2581S	N	30	N	200	200	N	30	N	300	N
K2582S	N	20	N	300	150	N	20	N	100	N
K2583S	N	20	N	200	150	N	30	N	150	N
K2584S	N	20	N	300	200	N	30	N	100	N
K2584SD	N	20	N	200	150	N	20	N	150	N
K2585S	N	20	N	200	100	N	20	N	150	N
K2586S	N	30	N	300	100	N	30	N	200	N
K2587S	N	7	N	N	100	N	10	N	50	N
K2588S	N	15	N	200	100	N	20	N	50	N
K2589S	N	20	N	200	150	N	30	N	70	N
K2590S	N	20	N	200	150	N	20	N	200	N
K2591S	N	20	N	100	150	N	20	N	100	N
K2592S	N	20	N	300	200	N	30	N	100	N
K2593S	N	20	N	200	200	N	20	N	70	N
K2594S	N	20	N	500	100	N	20	N	70	N
K2595S	N	20	N	200	150	N	30	N	100	N
K2596S	N	20	N	300	150	N	20	N	70	N
K2597S	N	20	N	200	150	N	30	N	70	N
K2600S	N	15	N	500	150	N	20	N	50	N
K2601S	N	15	N	200	150	N	20	N	70	N
K2602S	N	20	N	300	200	N	30	N	100	N
K2603S	N	15	N	200	100	N	20	N	70	N
K2604S	N	20	N	300	150	N	20	N	70	N
K2605S	N	15	N	200	100	N	30	N	100	N
K2606S	N	20	N	300	150	N	20	N	70	N
K2607S	N	10	N	150	100	N	20	N	500	N
K2608S	N	20	N	300	150	N	50	N	300	N
K2609S	N	20	N	200	200	N	20	N	70	N
K2610S	N	20	N	300	150	N	20	N	50	N
K2611S	N	20	N	500	200	N	30	N	100	N
K2612S	N	15	N	200	100	N	30	N	100	N
K2614S	N	20	N	300	100	N	20	N	70	N
K2615S	N	20	N	200	200	N	30	N	1,000	N
K2616S	N	30	N	N	500	N	20	N	50	N
K2617S	N	20	N	100	200	N	20	N	70	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K2617SD	58 14 28	155 14 4	1.5	1.00	5.0	.70	700	N	N	N	10	300
K2618S	58 14 19	155 22 48	1.5	1.00	10.0	1.00	700	N	N	N	<10	300
K2619S	58 13 51	155 20 58	1.0	.50	10.0	1.00	700	N	N	N	10	200
K2620S	58 13 45	155 20 59	1.5	1.00	7.0	.70	1,000	N	N	N	10	300
K2620SD	58 13 45	155 20 59	2.0	.70	7.0	.70	500	N	N	N	10	200
K2621S	58 11 34	155 31 42	.7	1.00	5.0	.30	500	2.0	N	N	10	300
K2622S	58 11 39	155 31 19	1.5	1.00	3.0	.30	500	N	N	N	10	300
K2623S	58 10 50	155 28 5	1.0	.70	3.0	.20	500	N	N	N	15	500
K2624S	58 10 57	155 27 53	1.0	.70	3.0	.20	500	N	N	N	15	300
K2625S	58 12 35	155 32 42	1.5	1.00	3.0	.30	500	N	N	N	10	300
K2626S	58 12 11	155 34 10	1.5	1.00	5.0	.30	700	N	N	N	10	500
K2627S	58 11 40	155 39 30	1.0	1.00	2.0	.20	700	N	N	N	10	300
K2628S	58 9 36	155 39 30	1.0	.70	3.0	.30	1,000	N	N	N	10	500
K2629S	58 9 39	155 33 29	1.0	.70	3.0	.20	1,000	N	N	N	10	500
K2630S	58 9 12	155 37 10	1.0	1.00	3.0	.50	1,000	N	N	N	10	500
K2631S	58 8 7	155 36 45	1.0	.70	3.0	.30	700	N	N	N	15	500
K2632S	58 6 55	155 34 3	1.0	.70	2.0	.20	700	N	N	N	20	300
K2633S	58 5 52	155 33 0	1.0	1.00	2.0	.20	700	N	N	N	10	300
K2634S	58 46 0	155 30 0	1.5	1.00	3.0	.50	700	N	N	N	10	300
K2635S	58 47 2	155 32 5	1.0	1.00	5.0	.20	2,000	N	N	N	15	500
K2636S	58 47 10	155 32 21	1.0	1.00	5.0	.50	1,000	N	N	N	10	500
K2637S	58 52 38	155 32 40	1.0	.50	15.0	1.00	1,000	N	N	N	<10	200
K2637SD	58 52 38	155 32 40	1.5	1.00	15.0	1.00	1,000	N	N	N	<10	300
K2638S	58 48 22	155 21 25	1.5	1.00	5.0	.70	1,000	N	N	N	10	300
K2639S	58 44 20	155 18 0	1.5	1.00	5.0	.50	700	N	N	N	10	200
K2640S	58 42 44	155 35 52	.5	.70	5.0	.15	1,000	N	N	N	10	500
K2641S	58 43 27	155 35 38	1.5	1.00	3.0	.70	1,000	N	N	N	10	300
K2642S	58 32 36	155 34 35	1.5	1.00	5.0	.50	700	N	N	N	10	200
K2643S	58 32 26	155 31 49	1.0	.70	5.0	.30	700	N	N	N	10	300
K2644S	58 47 31	155 44 47	1.0	1.00	3.0	.30	700	N	N	N	10	300
K2645S	58 49 48	155 44 50	1.0	1.00	5.0	.50	1,000	N	N	N	10	500
K2646S	58 51 20	155 43 50	.7	1.00	3.0	.20	500	N	N	N	10	300
K2648S	58 24 5	155 49 30	1.5	1.00	7.0	.30	1,500	N	N	N	20	300
K2649S	58 22 43	155 47 26	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K2650S	58 23 15	155 45 10	1.5	1.00	7.0	1.00	1,000	N	N	N	15	200
K2651S	58 24 22	155 42 18	1.5	.70	5.0	.30	700	N	N	N	20	200
K2652S	58 18 50	155 44 0	1.5	1.00	5.0	.70	1,500	N	N	N	10	200
K2653S	58 16 9	155 40 53	2.0	1.50	5.0	.70	1,500	N	N	N	10	300
K2654S	58 16 23	155 48 45	1.5	1.00	5.0	.50	1,000	N	N	N	10	200
K2655S	58 16 30	155 48 35	1.0	1.00	2.0	.20	700	<.5	N	N	10	300
K2656S	58 14 10	155 58 20	1.0	1.00	5.0	.50	1,000	N	N	N	<10	300
K2657S	58 11 55	155 58 7	1.0	1.00	3.0	.50	1,000	N	N	N	10	500
K2658S	58 16 22	156 0 47	2.0	1.00	7.0	1.00	1,500	N	N	N	<10	500
K2659S	58 16 53	156 3 43	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K2660S	58 16 56	156 4 9	1.5	1.00	7.0	.70	1,000	N	N	N	10	200
K2661S	58 21 27	156 2 41	1.5	1.00	5.0	.50	1,500	N	N	N	10	500
K2662S	58 27 50	156 9 46	2.0	1.00	5.0	.70	1,000	N	N	N	10	500
K2663S	58 28 45	156 12 25	1.5	1.00	5.0	.50	1,000	N	N	N	10	500
K2664S	58 30 25	156 16 35	.7	.70	3.0	.20	700	N	N	N	15	300
K2665S	58 11 25	156 12 32	1.5	1.00	5.0	.30	1,000	N	N	N	10	300
K2665SD	58 11 25	156 12 32	1.5	1.00	3.0	.70	1,500	N	N	N	10	300
K2666S	58 10 26	156 9 30	.7	1.00	3.0	.30	3,000	N	N	N	20	300
K2667S	58 9 56	156 6 30	1.5	1.00	5.0	.50	1,500	N	N	N	<10	500
K2668S	58 10 42	156 1 0	1.5	1.00	5.0	.50	1,500	N	N	N	10	300
K2669S	58 12 10	156 3 45	1.5	1.00	5.0	.50	1,000	N	N	N	<10	300
K2670S	58 14 43	156 12 5	1.0	1.00	5.0	.20	700	N	N	N	<10	300
K2671S	58 29 56	156 18 10	1.5	1.00	5.0	.50	1,000	N	N	N	15	500
K2672S	58 2 39	156 25 16	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K2673S	58 5 47	156 21 20	2.0	.70	10.0	>1.00	1,500	N	N	N	<10	300
K2674S	58 8 32	156 32 25	1.5	1.00	5.0	.70	1,000	N	N	N	10	300

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K2617SD	N	N	N	20	50	20	N	N	N	10	10
K2618S	N	N	N	50	100	10	N	N	N	20	<10
K2619S	N	N	N	50	100	20	N	N	N	20	<10
K2620S	<1.0	N	N	50	100	30	N	N	N	20	10
K2620SD	N	N	N	30	100	30	N	5	N	20	10
K2621S	<1.0	N	N	15	70	20	N	N	N	15	10
K2622S	<1.0	N	N	15	70	15	N	N	N	20	<10
K2623S	N	N	N	15	100	10	N	N	N	20	<10
K2624S	<1.0	N	N	10	50	20	N	N	N	15	<10
K2625S	<1.0	N	N	20	100	20	50	N	N	20	10
K2626S	N	N	N	15	70	10	N	N	N	15	<10
K2627S	<1.0	N	N	15	50	20	N	N	N	15	10
K2628S	N	N	N	10	50	10	N	N	N	10	N
K2629S	N	N	N	10	30	15	N	N	N	15	<10
K2630S	<1.0	N	N	15	50	20	N	N	N	20	<10
K2631S	N	N	N	15	50	20	N	N	N	20	10
K2632S	<1.0	N	N	10	50	20	N	N	N	15	10
K2633S	N	N	N	15	70	15	N	N	N	20	10
K2634S	<1.0	N	N	15	100	15	N	N	N	15	10
K2635S	<1.0	N	N	15	50	20	N	N	N	10	10
K2636S	N	N	N	20	100	15	N	N	N	20	10
K2637S	N	N	N	20	150	7	N	N	N	15	<10
K2637SD	N	N	N	50	200	20	N	N	N	20	10
K2638S	N	N	N	15	70	20	N	N	N	10	15
K2639S	<1.0	N	N	20	100	10	N	N	N	10	10
K2640S	N	N	N	10	10	10	N	N	N	5	15
K2641S	<1.0	N	N	15	50	5	N	N	N	10	<10
K2642S	N	N	N	20	50	7	N	N	N	7	10
K2643S	N	N	N	20	15	15	N	N	N	7	<10
K2644S	<1.0	N	N	15	70	15	N	N	N	15	10
K2645S	N	N	N	20	100	20	N	N	N	20	<10
K2646S	<1.0	N	N	10	30	7	N	<5	N	10	10
K2648S	N	N	N	20	30	15	N	N	N	5	10
K2649S	<1.0	N	N	30	70	20	N	N	N	20	10
K2650S	N	N	N	30	100	20	N	N	N	10	10
K2651S	N	<10	N	20	100	20	N	N	N	15	10
K2652S	<1.0	N	N	20	30	20	N	N	N	7	10
K2653S	<1.0	N	N	20	70	20	N	N	N	20	<10
K2654S	<1.0	N	N	20	20	20	N	N	N	10	15
K2655S	<1.0	N	N	10	20	7	N	N	N	7	20
K2656S	<1.0	N	N	20	20	15	N	N	N	7	10
K2657S	<1.0	N	N	15	30	15	N	N	N	10	10
K2658S	N	N	N	50	70	10	50	N	N	15	10
K2659S	N	N	N	20	50	10	N	N	N	10	10
K2660S	<1.0	N	N	20	100	10	N	N	N	10	<10
K2661S	<1.0	N	N	20	50	5	N	N	N	5	<10
K2662S	N	N	N	20	150	10	N	N	N	20	<10
K2663S	<1.0	N	N	20	50	10	N	N	N	15	10
K2664S	<1.0	N	N	15	20	10	N	N	N	5	10
K2665S	N	N	N	20	50	10	N	N	N	10	10
K2665SD	N	N	N	20	50	7	N	N	N	20	<10
K2666S	<1.0	N	N	15	50	15	N	N	N	10	<10
K2667S	N	N	N	15	30	7	N	N	N	10	<10
K2668S	N	N	N	20	50	15	N	<5	N	15	10
K2669S	N	N	N	20	50	10	N	N	N	10	<10
K2670S	N	N	N	10	20	7	N	N	N	10	15
K2671S	<1.0	N	N	20	100	20	N	N	N	20	<10
K2672S	<1.0	N	N	15	50	10	N	N	N	15	10
K2673S	N	N	N	50	150	10	N	N	N	20	<10
K2674S	N	N	N	30	100	20	N	N	N	20	10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K2617SD	N	20	N	200	150	N	20	N	70	N
K2618S	N	20	N	200	300	N	20	N	50	N
K2619S	N	30	N	100	300	N	30	N	100	N
K2620S	N	20	N	200	200	N	20	N	70	N
K2620SD	N	30	N	N	300	N	20	N	70	N
K2621S	N	20	N	200	100	N	20	N	100	N
K2622S	N	20	N	200	150	N	20	N	100	N
K2623S	N	20	N	200	150	N	20	N	50	N
K2624S	N	20	N	200	100	N	20	N	200	N
K2625S	N	20	N	300	150	N	30	N	70	N
K2626S	N	20	N	150	150	N	20	N	200	N
K2627S	N	20	N	200	100	N	20	N	70	N
K2628S	N	20	N	300	150	N	20	N	200	N
K2629S	N	15	N	300	150	N	20	N	100	N
K2630S	N	20	N	300	100	N	50	N	150	--
K2631S	N	20	N	200	150	N	20	N	100	N
K2632S	N	15	N	200	100	N	20	N	50	N
K2633S	N	20	N	300	100	N	15	N	50	N
K2634S	N	20	N	500	150	N	20	N	100	N
K2635S	N	20	N	300	150	N	30	N	70	N
K2636S	N	30	N	300	200	N	50	N	100	N
K2637S	N	20	N	100	500	N	20	N	200	N
K2637SD	N	20	N	200	500	N	20	N	300	N
K2638S	N	20	N	300	150	N	20	N	70	N
K2639S	N	20	N	200	150	N	20	N	150	N
K2640S	N	10	N	200	70	N	20	N	70	N
K2641S	N	20	N	300	150	N	30	N	150	N
K2642S	N	20	N	300	150	N	20	N	70	N
K2643S	N	20	N	300	150	N	30	N	150	N
K2644S	N	20	N	200	100	N	20	N	100	N
K2645S	N	20	N	300	150	N	20	N	150	N
K2646S	N	15	N	300	100	N	30	N	100	N
K2648S	N	20	N	200	100	N	30	N	200	N
K2649S	N	30	N	200	200	N	50	N	70	N
K2650S	100	20	N	200	200	N	30	N	200	N
K2651S	N	20	N	150	150	N	20	N	100	N
K2652S	N	30	N	200	150	N	30	N	70	N
K2653S	N	20	N	500	200	N	20	200	70	N
K2654S	N	20	N	200	150	N	30	N	50	N
K2655S	N	15	N	200	100	N	30	N	100	N
K2656S	N	20	N	200	150	N	50	N	200	N
K2657S	N	20	N	300	100	N	20	N	100	N
K2658S	N	30	N	300	200	N	50	N	150	N
K2659S	N	20	N	300	100	N	30	N	150	N
K2660S	N	20	N	200	300	N	30	N	1,000	N
K2661S	N	20	N	300	200	N	30	N	200	N
K2662S	N	30	N	500	150	N	20	N	100	N
K2663S	N	20	N	500	150	N	20	N	150	N
K2664S	N	10	N	200	100	N	20	N	70	N
K2665S	N	20	N	200	100	N	20	N	70	N
K2665SD	N	20	N	300	150	N	20	N	100	N
K2666S	N	15	N	200	100	N	20	N	100	N
K2667S	N	30	N	300	150	N	30	N	300	N
K2668S	N	30	N	200	150	N	30	N	200	N
K2669S	N	30	N	200	150	N	30	N	200	N
K2670S	N	15	N	200	100	N	20	N	70	N
K2671S	N	30	N	500	150	N	30	N	100	N
K2672S	N	20	N	300	150	N	20	N	70	N
K2673S	N	30	N	150	500	N	20	N	200	N
K2674S	N	20	N	200	200	N	20	N	70	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K2675S	58 30 10	156 14 20	1.0	.70	3.0	.20	500	N	N	N	10	300
K2676S	58 40 1	155 23 12	2.0	1.00	5.0	.50	1,000	N	N	N	10	300
K2677S	58 35 8	155 11 55	1.0	1.00	5.0	.30	700	N	N	N	10	500
K2678S	58 36 27	155 7 7	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K2679S	58 38 17	155 2 9	1.5	1.00	3.0	.30	500	<.5	N	N	10	500
K2680S	58 38 46	155 3 38	1.0	1.00	3.0	.30	500	N	N	N	10	300
K2681S	58 42 20	155 4 0	1.5	1.00	3.0	.30	700	N	N	N	10	500
K2682S	58 42 24	155 1 13	1.5	1.00	5.0	.30	300	N	N	N	10	300
K2683S	58 43 1	155 0 0	1.0	1.00	3.0	.30	500	N	N	N	15	300
K2684S	58 42 40	154 58 42	1.5	1.00	5.0	.50	700	N	N	N	<10	300
K2685S	58 48 0	156 28 17	2.0	1.00	5.0	.50	1,500	N	N	N	10	500
K2686S	58 48 0	156 28 0	1.0	1.00	2.0	.30	500	N	N	N	20	500
K3001S	58 54 45	155 45 56	.7	.70	2.0	.20	500	N	N	N	15	500
K3002S	58 54 18	155 47 34	1.5	1.50	3.0	.50	700	N	N	N	10	500
K3003S	58 53 45	155 44 20	.7	1.00	2.0	.20	1,000	N	N	N	10	300
K3004S	58 52 42	155 45 12	1.0	1.00	3.0	.50	1,000	N	N	N	10	500
K3005S	58 51 55	155 46 8	1.5	1.00	5.0	.50	1,000	N	N	N	10	500
K3006S	58 49 23	155 48 52	1.0	.70	2.0	.30	700	N	N	N	15	300
K3007S	58 50 8	155 48 48	1.5	1.00	7.0	.70	1,000	N	N	N	10	300
K3008S	58 46 3	155 44 36	1.0	1.00	5.0	.30	1,000	N	N	N	10	300
K3009S	58 1 30	156 16 52	2.0	1.00	7.0	.50	1,500	N	N	N	<10	300
K3009SD	58 1 30	156 16 52	2.0	1.50	5.0	.70	1,000	N	N	N	10	500
K3010S	58 1 42	156 19 20	1.5	1.00	7.0	.70	1,000	<.5	N	N	10	300
K3011S	58 1 0	156 14 50	2.0	1.00	7.0	.70	1,000	N	N	N	10	500
K3012S	58 1 0	156 14 22	1.5	1.00	5.0	.50	700	N	N	N	10	300
K3013S	58 0 40	156 12 0	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K3014S	58 0 7	156 10 40	2.0	1.50	7.0	1.00	1,000	N	N	N	<10	300
K3015S	58 0 6	156 9 8	2.0	1.00	10.0	1.00	1,000	N	N	N	10	300
K3016S	58 0 3	156 7 4	1.5	1.00	5.0	.70	1,000	N	N	N	10	300
K3017S	58 26 36	155 23 37	1.5	1.50	5.0	.50	1,000	N	N	N	10	300
K3018S	58 26 41	155 23 19	1.5	.70	5.0	.30	500	<.5	N	N	10	200
K3019S	58 26 1	155 23 49	1.5	1.00	5.0	.30	700	N	N	N	10	300
K3020S	58 25 33	155 22 28	1.5	1.00	3.0	.30	700	N	N	N	10	300
K3021S	58 22 30	155 14 0	2.0	.70	10.0	>1.00	1,000	N	N	N	<10	500
K3022S	58 23 44	155 12 22	2.0	1.00	20.0	>1.00	1,000	N	N	N	<10	200
K3023S	58 23 52	155 12 19	2.0	1.00	10.0	1.00	1,000	N	N	N	<10	300
K3024S	58 25 48	155 13 59	1.5	1.00	7.0	1.00	500	N	N	N	<10	300
K3025S	58 25 45	155 13 30	2.0	1.00	10.0	1.00	1,000	N	N	N	15	1,000
K3026S	58 24 22	155 4 20	3.0	1.00	10.0	1.00	1,000	N	N	N	10	500
K3027S	58 24 22	155 4 42	3.0	1.00	10.0	1.00	1,000	N	N	N	10	500
K3028S	58 24 32	155 6 40	2.0	1.00	7.0	1.00	1,000	N	N	N	20	500
K3029S	58 23 41	155 2 40	3.0	1.00	10.0	1.00	1,000	N	N	N	10	500
K3029SD	58 23 41	155 2 40	2.0	1.00	7.0	.70	700	N	N	N	<10	200
K3030S	58 22 50	155 0 57	1.5	1.00	5.0	.50	700	N	N	N	10	200
K3031S	58 21 11	154 59 13	2.0	.70	10.0	>1.00	1,000	N	N	N	10	500
K3032S	58 20 19	154 59 10	1.5	.70	10.0	1.00	1,500	N	N	N	<10	200
K3033S	58 20 14	155 33 35	2.0	1.00	10.0	1.00	1,000	N	N	N	10	500
K3034S	58 20 12	155 34 0	3.0	1.00	10.0	1.00	1,000	N	N	N	10	500
K3035S	58 20 34	155 33 41	1.5	1.00	5.0	.70	700	N	N	N	10	300
K3036S	58 24 30	155 29 45	2.0	1.00	10.0	1.00	1,000	N	N	N	20	700
K3037S	58 19 16	155 28 10	1.5	1.00	5.0	.50	700	N	N	N	<10	300
K3038S	58 16 25	155 34 0	2.0	1.00	7.0	1.00	1,000	N	N	N	20	500
K3039S	58 16 15	155 34 10	1.5	1.00	5.0	.70	1,000	N	N	N	10	300
K3040S	58 16 55	155 38 30	2.0	1.00	5.0	.50	1,000	N	N	N	20	700
K3041S	58 18 40	155 39 5	2.0	1.00	10.0	.70	1,000	N	N	N	20	500
K3042S	58 23 10	155 38 25	2.0	1.50	7.0	1.00	1,000	N	N	N	20	700
K3043S	58 23 20	155 38 36	1.5	.70	5.0	.50	1,000	N	N	N	10	300
K3044S	58 23 31	155 35 53	1.5	1.00	5.0	.50	1,000	N	N	N	<10	300
K3045S	58 27 45	155 31 0	2.0	1.00	7.0	.70	1,000	N	N	N	20	700
K3046S	58 29 40	155 22 42	1.5	1.00	5.0	.50	700	N	N	N	10	300

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K2675S	<1.0	N	N	7	20	10	N	N	N	7	10
K2676S	<1.0	N	N	20	30	7	N	7	N	7	<10
K2677S	<1.0	N	N	15	30	20	N	<5	N	7	15
K2678S	N	N	N	20	70	15	N	N	N	15	10
K2679S	N	N	N	20	70	30	N	N	N	30	<10
K2680S	N	N	N	15	100	20	N	N	N	30	N
K2681S	N	N	N	20	30	15	N	N	N	15	10
K2682S	N	N	N	30	100	30	N	N	N	20	10
K2683S	<1.0	N	N	15	50	50	N	5	N	15	10
K2684S	N	N	N	20	50	10	N	N	N	15	<10
K2685S	N	N	N	20	100	10	N	N	N	10	10
K2686S	<1.0	N	N	15	70	15	N	N	N	15	10
K3001S	N	N	N	7	20	15	N	<5	N	7	10
K3002S	N	N	N	15	50	10	N	N	N	15	10
K3003S	<1.0	N	N	7	30	10	N	N	N	10	10
K3004S	N	N	N	15	70	7	N	N	N	10	10
K3005S	N	N	N	20	100	20	N	5	N	15	15
K3006S	<1.0	N	N	10	30	20	N	N	N	10	10
K3007S	<1.0	N	N	30	150	20	N	N	N	20	10
K3008S	N	N	N	20	70	10	N	N	N	15	10
K3009S	N	N	N	50	150	30	N	N	N	30	10
K3009SD	N	N	N	20	100	30	N	N	N	20	10
K3010S	N	N	N	50	150	30	N	N	N	20	10
K3011S	N	N	N	50	150	30	N	N	N	20	10
K3012S	1.0	N	N	20	100	20	N	N	N	20	10
K3013S	N	N	N	20	70	20	N	N	N	20	15
K3014S	N	N	N	30	100	30	N	N	N	30	10
K3015S	N	N	N	70	150	30	N	N	N	50	15
K3016S	<1.0	N	N	20	100	20	N	N	N	20	10
K3017S	N	N	N	30	70	30	N	N	N	20	10
K3018S	N	N	N	50	100	20	N	N	N	20	10
K3019S	<1.0	N	N	20	50	20	N	N	N	10	10
K3020S	N	N	N	20	100	20	N	N	N	15	10
K3021S	N	N	N	100	50	100	N	N	N	20	50
K3022S	N	N	N	150	100	10	N	N	N	20	<10
K3023S	N	N	N	70	150	30	N	N	N	20	<10
K3024S	N	N	N	50	100	30	N	N	N	15	10
K3025S	N	N	N	50	50	70	N	N	N	15	30
K3026S	N	N	N	100	100	50	N	N	N	15	10
K3027S	N	N	N	70	70	100	N	N	N	15	10
K3028S	N	N	N	70	100	70	N	N	N	15	20
K3029S	N	N	N	50	50	70	N	N	N	10	15
K3029SD	N	N	N	30	70	30	N	N	N	20	<10
K3030S	N	N	N	20	50	15	N	N	N	15	30
K3031S	N	N	N	100	70	100	N	N	N	20	70
K3032S	<1.0	N	N	70	70	20	N	N	N	20	<10
K3033S	N	N	N	50	70	70	N	N	N	15	30
K3034S	N	N	N	50	70	70	N	N	N	15	10
K3035S	N	N	N	20	50	20	N	N	N	20	<10
K3036S	N	N	N	50	70	70	N	N	N	15	20
K3037S	<1.0	N	N	20	50	15	N	N	N	20	10
K3038S	N	N	N	50	50	50	N	N	N	15	20
K3039S	N	N	N	20	100	10	N	N	N	10	10
K3040S	N	N	N	30	50	30	N	N	N	15	30
K3041S	N	N	N	30	50	70	N	N	N	10	30
K3042S	N	N	N	50	50	20	N	N	N	15	30
K3043S	N	N	N	50	100	20	N	N	N	30	10
K3044S	<1.0	N	N	30	50	10	N	N	N	20	10
K3045S	N	N	N	30	50	70	N	N	N	15	30
K3046S	N	N	N	20	70	20	N	N	N	30	<10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K2675S	N	15	N	200	100	N	20	N	70	N
K2676S	N	20	N	300	200	N	20	N	100	N
K2677S	N	20	N	200	150	N	30	N	100	N
K2678S	N	20	N	200	150	N	30	N	100	N
K2679S	N	20	N	300	150	N	20	N	70	N
K2680S	N	20	N	200	150	N	20	N	50	N
K2681S	N	20	N	300	150	N	30	N	100	N
K2682S	N	30	N	300	150	N	30	N	70	N
K2683S	N	20	N	300	150	N	30	N	100	N
K2684S	N	30	N	200	200	N	50	N	100	N
K2685S	N	20	N	300	150	N	20	N	300	N
K2686S	N	20	N	300	100	N	20	N	150	N
K3001S	N	10	N	200	100	N	30	N	100	N
K3002S	N	20	N	500	100	N	20	N	200	N
K3003S	N	15	N	300	100	N	15	N	50	N
K3004S	N	20	N	300	150	N	30	N	200	N
K3005S	N	20	N	200	200	N	20	N	150	N
K3006S	N	15	N	200	150	N	20	N	70	N
K3007S	N	30	N	200	200	N	30	N	200	N
K3008S	N	20	N	200	200	N	30	N	200	N
K3009S	N	15	N	200	200	N	15	N	150	N
K3009SD	N	20	N	300	200	N	20	N	100	N
K3010S	N	30	N	200	300	N	20	N	200	N
K3011S	N	30	N	200	300	N	50	N	200	N
K3012S	N	20	N	200	150	N	30	N	150	N
K3013S	N	20	N	300	200	N	20	N	50	N
K3014S	N	30	N	300	300	N	20	N	100	N
K3015S	N	30	N	300	200	N	20	N	70	N
K3016S	N	20	N	300	150	N	30	N	70	N
K3017S	N	30	N	500	200	N	30	N	50	N
K3018S	N	20	N	150	150	N	20	N	100	N
K3019S	N	20	N	200	150	N	20	N	70	N
K3020S	N	15	N	300	150	N	20	N	150	N
K3021S	N	30	N	200	500	N	30	1,000	70	N
K3022S	N	50	N	100	1,000	N	20	N	50	N
K3023S	N	50	N	200	300	N	20	N	100	N
K3024S	N	20	N	100	200	N	30	N	70	N
K3025S	N	30	N	500	500	N	50	<200	200	N
K3026S	N	30	N	200	500	N	50	500	100	N
K3027S	N	30	N	300	1,000	N	50	500	150	N
K3028S	N	30	N	300	1,000	N	50	500	150	N
K3029S	N	30	N	500	500	N	50	200	100	N
K3029SD	N	30	N	200	300	N	20	N	70	N
K3030S	N	20	N	200	200	N	30	N	100	N
K3031S	N	30	N	200	1,000	N	50	1,500	100	N
K3032S	N	30	N	200	500	N	20	N	70	N
K3033S	N	30	N	500	700	N	50	200	100	N
K3034S	N	30	N	300	700	N	50	500	150	N
K3035S	N	20	N	300	200	N	20	N	70	N
K3036S	N	30	N	500	500	N	50	200	150	N
K3037S	N	20	N	300	200	N	20	N	100	N
K3038S	N	20	N	500	500	N	50	200	100	N
K3039S	N	20	N	200	200	N	20	N	150	N
K3040S	N	20	N	500	300	N	50	<200	150	N
K3041S	N	30	N	500	500	N	50	<200	100	N
K3042S	N	50	N	500	300	N	70	200	200	N
K3043S	N	30	N	200	200	N	30	N	100	N
K3044S	N	20	N	300	200	N	30	N	100	N
K3045S	N	20	N	500	300	N	50	<200	300	N
K3046S	N	20	N	300	150	N	30	N	100	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K3047S	58 28 19	155 8 10	1.5	1.00	7.0	1.00	1,000	N	N	N	<10	300
K3048S	58 28 15	155 1 5	1.5	1.00	10.0	1.00	1,000	N	N	N	10	300
K3049S	58 25 38	154 57 9	1.5	1.00	5.0	.50	700	N	N	N	10	300
K3050S	58 25 36	154 47 16	1.0	.70	5.0	.30	500	<.5	N	N	20	300
K3051S	58 23 11	154 55 26	1.0	.70	7.0	.70	700	N	N	N	10	200
K3052S	58 25 28	154 53 36	1.0	1.00	5.0	.50	700	N	N	N	15	200
K3053S	58 26 49	154 54 45	1.5	1.00	7.0	.70	1,000	N	N	N	<10	300
K3054S	58 23 14	154 49 32	1.5	1.00	7.0	.70	1,000	N	N	N	<10	300
K3055S	58 23 49	155 26 2	1.5	1.00	5.0	.70	700	N	N	N	10	300
K3062S	58 23 36	156 11 29	2.0	1.00	10.0	.50	1,500	N	N	N	<10	300
K3063S	58 23 31	156 11 35	1.5	1.00	5.0	.50	700	N	N	N	10	300
K3064S	58 22 20	156 16 9	1.0	1.00	3.0	.30	500	N	N	N	10	300
K3065S	58 21 33	155 55 45	1.5	.70	5.0	.50	700	N	N	N	10	500
K3066S	58 21 35	155 55 28	1.5	.70	5.0	.50	700	N	N	N	<10	300
K3067S	58 24 32	155 55 28	2.0	.70	7.0	.70	1,500	N	N	N	10	300
K3068S	58 27 48	155 45 16	1.5	1.00	5.0	.50	700	N	N	N	15	300
K3069S	58 33 50	155 50 36	1.0	.70	3.0	.30	700	N	N	N	30	300
K3069SD	58 33 50	155 50 36	1.0	.70	2.0	.30	700	N	N	N	20	500
K3070S	58 34 53	155 48 55	2.0	.70	5.0	.50	1,000	N	N	N	10	300
K3071S	58 34 59	155 48 59	1.5	.70	5.0	.50	700	N	N	N	10	300
K3072S	58 31 18	156 2 52	1.0	.70	3.0	.20	700	N	N	N	15	200
K3073S	58 32 12	155 58 19	1.0	1.00	3.0	.30	1,000	N	N	N	10	300
K3074S	58 32 33	155 59 50	1.5	1.00	5.0	.50	1,000	N	N	N	15	300
K3075S	58 20 15	155 44 0	1.0	1.00	5.0	.50	700	N	N	N	15	500
K3076S	58 19 57	155 44 10	1.5	1.00	5.0	.30	700	N	N	N	10	300
K3076SD	58 19 57	155 44 10	1.0	1.00	3.0	.30	1,500	N	N	N	15	300
K3077S	58 2 42	155 46 10	1.5	1.50	5.0	.50	1,000	N	N	N	10	200
K3078S	58 6 30	155 51 12	1.5	1.00	5.0	.50	700	N	N	N	10	300
K3079S	58 5 22	155 56 30	2.0	1.00	5.0	.50	700	N	N	N	10	200
K3080S	58 1 30	155 57 58	2.0	1.00	5.0	.50	1,000	N	N	N	10	200
K3081S	58 0 4	155 47 10	1.5	1.00	5.0	.50	700	N	N	N	<10	100
K3082S	58 0 3	155 46 28	1.5	1.00	3.0	.50	700	N	N	N	10	300
K3095S	58 35 47	155 9 23	1.0	1.00	2.0	.20	500	N	N	N	10	300
K3096S	58 37 55	155 11 51	1.5	1.00	5.0	.50	2,000	10.0	N	N	10	300
K3097S	58 37 34	155 13 27	1.0	1.00	2.0	.30	500	N	N	N	10	500
K3099S	58 49 4	156 22 46	1.0	.70	2.0	.20	500	N	N	N	10	500
K3100S	58 49 46	156 22 19	1.0	1.00	2.0	.30	500	N	N	N	10	500
K3101S	58 49 39	156 25 30	1.0	.70	2.0	.20	200	N	N	N	20	300
K3102S	58 50 0	156 27 5	1.5	1.00	3.0	.30	700	N	N	N	10	500
K3102SD	58 50 0	156 27 5	2.0	1.00	5.0	.30	500	N	N	N	10	300
K3103S	58 51 35	156 21 0	1.0	.70	3.0	.30	500	N	N	N	15	300
K3104S	58 51 23	156 14 56	2.0	1.00	7.0	1.00	700	N	N	N	10	500
K3105S	58 51 10	156 14 40	1.5	1.00	3.0	.50	1,000	N	N	N	10	500
K3106S	58 49 50	156 11 55	2.0	1.00	5.0	.70	700	N	N	N	10	500
K3107S	58 47 43	156 9 37	.3	.70	1.0	.20	200	N	N	N	10	300
K3108S	58 46 29	156 6 5	1.0	1.00	3.0	.30	1,000	N	N	N	10	300
K3109S	58 49 41	156 7 2	1.0	1.00	3.0	.50	1,000	N	N	N	10	200
K3110S	58 1 23	156 5 59	1.0	1.00	3.0	.50	2,000	N	N	N	10	300
K3111S	58 52 27	156 5 0	1.5	1.00	5.0	.50	1,000	N	N	N	10	500
K3112S	58 52 26	156 4 41	1.0	1.00	5.0	.30	500	N	N	N	10	500
K3113S	58 51 46	156 4 12	1.5	1.00	5.0	.70	1,500	3.0	N	N	10	300
K3114S	58 55 25	156 13 0	1.0	.70	3.0	.30	500	N	N	N	10	300
K3115S	58 58 8	156 14 50	1.0	1.00	2.0	.30	1,500	N	N	N	10	300
K3116S	58 55 12	156 13 6	1.5	1.00	5.0	.70	1,000	N	N	N	10	500
K3117S	58 58 13	156 14 35	1.5	1.00	3.0	.50	500	N	N	N	15	500
K3118S	58 58 2	156 2 2	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K3119S	58 58 0	156 1 30	1.5	1.00	5.0	.70	1,000	N	N	N	10	300
K3120S	58 43 3	155 11 30	1.5	1.00	5.0	.50	700	N	N	N	20	300
K3121S	58 43 34	155 8 40	1.5	1.00	5.0	.30	1,000	N	N	N	10	500
K3122S	58 46 8	155 11 44	1.5	1.00	5.0	.30	1,000	N	N	N	10	500

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K3047S	<1.0	N	N	30	50	20	N	N	N	10	10
K3048S	<1.0	N	N	50	100	30	N	N	N	20	10
K3049S	N	N	N	20	70	20	N	N	N	30	30
K3050S	N	N	N	15	70	30	N	5	N	20	30
K3051S	N	N	N	30	100	10	N	N	N	10	10
K3052S	N	N	N	20	30	20	N	N	N	15	20
K3053S	<1.0	N	N	30	50	30	N	N	N	20	15
K3054S	N	N	N	50	100	30	N	N	N	20	10
K3055S	N	N	N	50	150	30	N	N	N	30	10
K3062S	N	N	N	30	150	10	N	N	N	20	10
K3063S	N	N	N	20	50	10	N	N	N	10	10
K3064S	<1.0	N	N	10	30	15	N	N	N	10	10
K3065S	N	N	N	20	20	7	150	N	N	<5	10
K3066S	<1.0	N	N	20	20	5	N	N	N	5	10
K3067S	<1.0	N	N	30	70	10	N	N	N	10	<10
K3068S	N	N	N	15	20	10	N	N	N	7	<10
K3069S	<1.0	N	N	15	70	20	N	N	N	20	20
K3069SD	N	N	N	15	100	20	N	N	N	20	20
K3070S	N	N	N	20	150	20	N	N	N	20	10
K3071S	<1.0	N	N	20	100	15	N	N	N	15	10
K3072S	<1.0	N	N	10	20	10	N	N	N	5	10
K3073S	<1.0	N	N	10	20	10	N	N	N	7	10
K3074S	<1.0	N	N	20	50	20	N	N	N	15	20
K3075S	N	N	N	15	50	20	N	N	N	15	10
K3076S	N	N	N	30	20	20	N	N	N	10	10
K3076SD	<1.0	N	N	50	20	20	N	N	N	15	15
K3077S	N	N	N	20	50	20	N	N	N	20	<10
K3078S	N	N	N	15	50	20	N	N	N	20	10
K3079S	N	N	N	20	50	30	N	N	N	20	10
K3080S	N	N	N	20	100	20	N	N	N	20	10
K3081S	N	N	N	20	70	30	N	N	N	20	10
K3082S	N	N	N	20	100	20	N	N	N	30	<10
K3095S	<1.0	N	N	10	20	15	N	<5	N	7	15
K3096S	<1.0	N	N	15	50	7	N	N	N	10	<10
K3097S	N	N	N	10	10	10	N	5	N	5	10
K3099S	<1.0	N	N	10	30	10	N	N	N	10	10
K3100S	<1.0	N	N	15	100	10	N	N	N	20	10
K3101S	<1.0	N	N	7	50	10	N	N	N	15	15
K3102S	<1.0	N	N	15	70	5	N	N	N	15	10
K3102SD	N	N	N	15	100	5	N	N	N	20	<10
K3103S	<1.0	N	N	10	50	10	N	N	N	15	15
K3104S	<1.0	N	N	30	150	30	N	N	N	20	10
K3105S	<1.0	N	N	20	70	15	N	N	N	20	10
K3106S	N	N	N	20	100	15	N	N	N	20	10
K3107S	<1.0	N	N	<5	20	10	N	N	N	7	<10
K3108S	<1.0	N	N	15	70	15	N	N	N	15	10
K3109S	<1.0	N	N	20	50	7	N	N	N	15	10
K3110S	<1.0	N	N	15	50	10	N	N	N	15	10
K3111S	<1.0	N	N	15	50	10	N	N	N	15	10
K3112S	<1.0	N	N	15	20	10	N	<5	N	5	10
K3113S	<1.0	N	N	15	50	10	N	N	N	10	<10
K3114S	N	N	N	10	70	10	N	N	N	7	15
K3115S	<1.0	N	N	10	30	5	50	N	N	7	10
K3116S	<1.0	N	N	20	100	20	N	N	N	20	<10
K3117S	N	N	N	15	70	10	N	N	N	15	10
K3118S	<1.0	N	N	20	100	10	N	N	N	20	10
K3119S	<1.0	N	N	20	70	5	N	N	N	10	<10
K3120S	<1.0	N	N	20	70	20	N	N	N	10	<10
K3121S	<1.0	N	N	15	20	10	N	N	N	10	<10
K3122S	<1.0	N	N	20	150	15	N	N	N	30	10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K3047S	N	20	N	300	200	N	20	N	50	N
K3048S	N	30	N	200	500	N	30	N	70	N
K3049S	N	20	N	300	100	N	20	N	100	N
K3050S	N	15	N	300	100	N	15	N	70	N
K3051S	N	20	N	300	300	N	30	N	200	N
K3052S	N	20	N	300	150	N	20	N	50	N
K3053S	N	30	N	200	300	N	20	<200	70	N
K3054S	N	20	N	300	200	N	20	N	100	N
K3055S	N	20	N	200	200	N	20	N	50	N
K3062S	N	20	N	150	200	N	20	N	150	N
K3063S	N	20	N	200	150	N	20	N	100	N
K3064S	N	15	N	150	100	N	20	N	100	N
K3065S	N	20	N	150	150	N	50	N	500	N
K3066S	N	20	N	100	150	N	30	N	300	N
K3067S	N	50	N	300	200	N	50	N	200	N
K3068S	N	20	N	300	200	N	30	N	100	N
K3069S	N	15	N	200	100	N	20	N	70	N
K3069SD	N	15	N	150	100	N	20	N	70	N
K3070S	N	20	N	200	200	N	20	N	70	N
K3071S	N	30	N	200	200	N	20	N	150	N
K3072S	N	15	N	200	100	N	20	N	100	N
K3073S	N	20	N	300	100	N	20	N	100	N
K3074S	N	20	N	300	150	N	20	N	70	N
K3075S	N	20	N	300	150	N	50	N	150	N
K3076S	N	20	N	200	150	N	30	N	70	N
K3076SD	N	20	N	200	100	N	50	N	50	N
K3077S	N	20	N	500	150	N	20	N	70	N
K3078S	N	20	N	300	150	N	20	N	70	N
K3079S	N	20	N	200	150	N	30	N	70	N
K3080S	N	20	N	200	150	N	20	N	70	N
K3081S	N	20	N	200	150	N	20	N	150	N
K3082S	N	20	N	300	150	N	30	N	100	N
K3095S	N	15	N	200	100	N	30	N	100	N
K3096S	N	20	N	200	100	N	20	N	150	N
K3097S	N	15	N	150	150	N	30	N	150	N
K3099S	N	15	N	200	70	N	20	N	70	N
K3100S	N	15	N	300	100	N	20	N	150	N
K3101S	N	15	N	200	100	N	15	N	100	N
K3102S	N	20	N	300	100	N	20	N	150	N
K3102SD	N	20	N	200	100	N	20	N	100	N
K3103S	N	15	N	200	100	N	20	N	100	N
K3104S	N	30	N	300	150	N	30	N	100	N
K3105S	N	20	N	300	150	N	20	N	200	N
K3106S	N	20	N	300	150	N	30	N	200	N
K3107S	N	10	N	200	100	N	15	N	70	N
K3108S	N	15	N	200	150	N	20	N	100	N
K3109S	N	20	N	300	150	N	20	N	300	N
K3110S	N	20	N	300	150	N	20	N	200	N
K3111S	N	20	N	300	150	N	30	N	100	N
K3112S	N	20	N	200	150	N	50	N	100	N
K3113S	N	20	N	200	150	N	20	N	150	N
K3114S	N	15	N	100	150	N	15	N	200	N
K3115S	N	15	N	300	100	N	20	N	150	N
K3116S	N	20	N	300	150	N	20	N	150	N
K3117S	N	20	N	300	100	N	30	N	200	N
K3118S	N	20	N	200	150	N	20	N	100	N
K3119S	N	20	N	300	150	N	30	N	500	N
K3120S	N	20	N	200	200	N	30	N	150	N
K3121S	N	20	N	200	150	N	20	N	100	N
K3122S	N	20	N	200	100	N	30	N	150	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K3122SD	58 46 8	155 11 44	1.5	1.00	7.0	.50	700	N	N	N	10	300
K3123S	58 48 42	155 13 0	1.5	1.00	10.0	.50	1,000	N	N	N	10	500
K3124S	58 50 45	155 17 13	1.5	1.00	5.0	.50	1,000	N	N	N	10	500
K3125S	58 50 49	155 17 18	1.0	.70	5.0	.70	1,000	N	N	N	10	500
K3126S	58 53 20	155 18 50	1.5	1.00	5.0	.50	1,000	N	N	N	10	500
K3127S	58 52 2	155 18 0	1.0	1.00	5.0	.50	1,000	N	N	N	20	300
K3128S	58 53 21	155 23 12	1.0	1.00	5.0	.50	2,000	N	N	N	10	300
K3129S	58 54 17	155 27 35	1.5	.70	5.0	.50	700	N	N	N	10	500
K3130S	58 47 17	155 49 32	1.5	.70	5.0	.70	1,000	N	N	N	15	300
K3131S	58 46 58	155 48 22	1.0	.70	5.0	.50	1,500	N	N	N	10	300
K3132S	58 50 20	155 52 30	1.0	.70	5.0	.50	1,500	N	N	N	15	300
K3133S	58 55 18	155 57 22	1.5	.70	5.0	.70	1,000	N	N	N	10	300
K3134S	58 55 18	155 57 14	1.5	1.00	5.0	.50	1,500	.7	N	N	10	300
K3135S	58 55 35	155 58 5	.7	.70	3.0	.30	1,000	N	N	N	10	300
K3136S	58 56 32	155 28 12	1.0	.70	5.0	.30	1,500	N	N	N	<10	300
K3137S	58 56 14	155 21 42	.5	.30	5.0	.30	>5,000	N	N	N	15	300
K3138S	58 54 19	155 18 52	1.0	.70	3.0	.30	1,000	N	N	N	15	300
K3139S	58 54 2	155 14 49	1.5	1.00	7.0	.50	1,500	N	N	N	10	300
K3140S	58 52 32	155 13 5	.7	.70	2.0	.30	500	N	N	N	10	300
K3141S	58 52 32	155 12 2	1.5	1.00	3.0	.50	1,000	N	N	N	10	500
K3141SD	58 52 32	155 12 2	1.5	1.00	5.0	.70	1,000	N	N	N	30	500
K3142S	58 47 12	155 17 10	1.0	.70	2.0	.30	700	N	N	N	10	500
K3143S	58 46 24	155 17 56	1.5	1.00	3.0	.50	1,000	N	N	N	10	300
K3144S	58 50 40	155 22 25	.7	.50	3.0	.30	1,500	N	N	N	10	500
K3145S	58 51 8	155 24 33	.7	.50	5.0	.30	1,000	N	N	N	10	300
K3152S	58 23 50	154 37 40	1.0	.30	3.0	.50	500	N	N	N	100	200
K3154S	58 25 22	154 33 41	.7	.50	10.0	.20	700	N	N	N	15	300
K3300S	58 42 17	154 49 43	2.0	2.00	5.0	.70	1,500	N	N	N	10	500
K3301S	58 44 5	154 40 27	2.0	2.00	10.0	.70	2,000	N	N	N	20	500
K3302S	58 44 10	154 40 34	2.0	2.00	7.0	.70	2,000	N	N	N	20	500
K3303S	58 43 56	154 41 0	2.0	2.00	10.0	.70	2,000	N	N	N	20	300
K3304S	58 42 11	154 39 50	1.5	1.50	5.0	1.00	1,500	N	N	N	10	300
K3305S	58 43 0	154 32 30	1.0	1.50	2.0	.30	1,000	N	N	N	20	500
K3306S	58 40 38	154 11 46	2.0	1.50	5.0	.30	1,000	<.5	N	N	100	700
K3307S	58 44 38	154 6 11	2.0	2.00	3.0	.50	1,000	N	N	N	50	300
K3308S	58 40 16	154 6 8	2.0	1.50	5.0	.50	1,000	N	N	N	50	700
K3309S	58 40 50	153 52 20	2.0	1.50	10.0	.70	1,000	<.5	N	N	200	300
K3310S	58 40 49	153 52 2	3.0	2.00	7.0	.30	2,000	<.5	N	N	50	500
K3311S	58 37 44	153 48 58	1.5	1.50	5.0	.50	1,500	N	N	N	700	500
K3312S	58 39 36	153 41 50	2.0	1.50	5.0	.50	2,000	.5	N	N	500	500
K3313S	58 42 43	153 39 3	3.0	2.00	5.0	.30	1,000	N	N	N	50	300
K3314S	58 41 2	153 34 10	1.5	1.50	5.0	.50	1,500	<.5	<200.0	N	100	300
K3315S	58 42 43	153 30 15	.7	1.00	1.0	.30	1,000	<.5	N	N	20	200
K3316S	58 45 5	153 27 25	1.0	.70	2.0	.50	1,500	<.5	N	N	1,500	300
K3317S	58 54 47	153 22 57	2.0	2.00	10.0	1.00	2,000	N	N	N	200	150
K3318S	58 53 14	153 20 45	3.0	1.50	5.0	.50	1,000	<.5	N	N	150	300
K3319S	58 51 3	153 24 15	2.0	2.00	5.0	.70	1,500	N	N	N	100	300
K3319SD	58 51 3	153 24 15	2.0	2.00	7.0	.70	1,000	N	N	N	200	300
K3320S	58 47 30	153 26 3	3.0	2.00	7.0	.70	1,500	N	N	N	30	300
K3321S	58 56 25	153 32 48	2.0	1.50	7.0	.70	2,000	N	N	N	30	500
K3322S	58 56 50	153 34 10	2.0	1.50	7.0	.70	1,000	N	N	N	20	500
K3323S	58 56 48	153 34 32	5.0	2.00	7.0	.70	2,000	N	N	N	50	300
K3324S	58 55 22	153 43 38	1.0	1.00	3.0	.30	1,000	N	N	N	70	700
K3325S	58 53 57	153 43 14	2.0	1.50	5.0	.50	1,500	N	N	N	70	500
K3326S	58 53 45	153 43 20	2.0	2.00	5.0	.50	1,500	.5	N	N	100	500
K3327S	59 2 16	154 0 2	1.0	2.00	3.0	.30	1,000	N	N	N	20	500
K3328S	59 2 10	153 59 50	1.5	2.00	5.0	.30	1,000	N	N	N	10	500
K3329S	58 57 0	153 53 30	1.0	2.00	5.0	.50	1,500	N	N	N	30	700
K3330S	58 53 30	153 55 42	1.0	5.00	7.0	1.00	1,500	N	N	N	50	500
K3331S	58 49 13	153 59 33	1.5	1.00	7.0	.50	1,000	<.5	N	N	100	700

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K3122SD	N	N	N	20	150	15	N	N	N	30	<10
K3123S	N	N	N	30	100	15	N	N	N	15	15
K3124S	N	N	N	20	70	10	N	N	N	10	<10
K3125S	N	N	N	15	70	15	N	N	N	15	10
K3126S	<1.0	N	N	20	70	10	N	N	N	10	10
K3127S	N	N	N	10	100	10	N	N	N	10	10
K3128S	<1.0	N	N	15	50	10	N	N	N	15	10
K3129S	N	N	N	15	100	10	N	N	N	15	10
K3130S	N	N	N	15	70	7	N	N	N	10	<10
K3131S	N	N	N	10	50	10	N	N	N	7	<10
K3132S	N	N	N	15	50	10	N	N	N	10	<10
K3133S	N	N	N	15	100	5	N	N	N	10	N
K3134S	<1.0	N	N	30	150	7	N	N	N	20	<10
K3135S	<1.0	N	N	15	30	7	N	N	N	10	<10
K3136S	N	N	N	10	30	10	N	N	N	10	50
K3137S	N	N	N	20	20	10	N	N	N	5	N
K3138S	<1.0	N	N	15	20	7	N	N	N	7	10
K3139S	N	N	N	30	100	15	N	N	N	10	10
K3140S	N	N	N	7	30	7	N	N	N	5	<10
K3141S	N	N	N	15	30	7	N	N	N	10	<10
K3141SD	N	N	N	20	50	10	N	N	N	15	10
K3142S	N	N	N	7	50	20	N	N	N	7	<10
K3143S	<1.0	N	N	15	50	10	N	N	N	15	10
K3144S	N	N	N	10	30	10	N	N	N	7	<10
K3145S	N	N	N	10	50	10	N	N	N	7	<10
K3152S	N	N	N	10	150	50	N	N	N	30	<10
K3154S	N	N	N	5	20	10	N	N	N	5	N
K3300S	<1.0	N	N	20	50	30	N	N	N	15	<10
K3301S	<1.0	N	N	30	100	50	N	N	N	20	<10
K3302S	<1.0	N	N	20	50	20	50	N	N	20	10
K3303S	<1.0	N	N	30	70	70	N	N	N	20	10
K3304S	1.0	N	N	30	200	20	N	<5	N	7	10
K3305S	<1.0	N	N	20	30	20	N	N	N	15	10
K3306S	<1.0	N	N	30	200	70	N	N	N	50	20
K3307S	<1.0	N	N	20	100	50	N	N	N	20	<10
K3308S	<1.0	N	N	20	70	50	N	N	N	20	15
K3309S	<1.0	N	N	50	100	500	N	10	N	30	15
K3310S	N	N	N	50	150	70	N	<5	N	20	50
K3311S	1.0	N	N	50	30	50	N	5	N	20	20
K3312S	1.0	N	N	70	70	200	N	<5	N	20	30
K3313S	<1.0	N	N	30	70	50	N	N	N	30	<10
K3314S	<1.0	N	N	50	70	50	N	<5	N	20	100
K3315S	1.0	N	N	10	30	20	N	<5	N	15	20
K3316S	1.0	N	N	50	70	70	N	<5	N	50	20
K3317S	<1.0	N	N	50	200	50	N	N	N	30	<10
K3318S	<1.0	N	N	50	100	70	N	N	N	30	50
K3319S	<1.0	N	N	30	70	20	N	N	N	30	<10
K3319SD	N	N	N	30	200	30	N	N	N	30	<10
K3320S	<1.0	N	N	50	150	70	N	<5	N	50	10
K3321S	N	N	N	50	150	50	N	N	N	30	20
K3322S	<1.0	N	N	50	150	70	N	N	N	30	10
K3323S	N	N	N	70	300	70	N	N	N	100	<10
K3324S	1.0	N	N	15	70	20	N	N	N	30	20
K3325S	<1.0	N	N	30	150	50	N	N	N	30	15
K3326S	1.0	N	N	30	100	30	N	N	N	30	10
K3327S	1.0	N	N	20	50	20	N	N	N	20	10
K3328S	<1.0	N	N	20	50	20	N	N	N	20	<10
K3329S	1.0	N	N	20	100	15	20	N	N	20	15
K3330S	<1.0	N	N	30	200	30	30	<5	N	20	20
K3331S	1.0	N	N	30	100	50	N	N	N	30	20

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K3122SD	N	20	N	200	150	N	20	N	200	N
K3123S	N	30	N	300	300	N	30	N	70	N
K3124S	N	30	N	300	100	N	30	N	100	N
K3125S	N	15	N	300	150	N	20	N	70	N
K3126S	N	20	N	300	150	N	20	N	70	N
K3127S	N	15	N	300	200	N	20	<200	70	N
K3128S	N	20	N	200	150	N	20	N	200	N
K3129S	N	20	N	200	150	N	30	N	200	N
K3130S	N	20	N	200	100	N	15	N	150	N
K3131S	N	15	N	200	100	N	15	N	100	N
K3132S	N	15	N	200	150	N	20	N	150	N
K3133S	N	20	N	150	150	N	15	N	200	N
K3134S	N	30	N	200	150	N	30	N	150	N
K3135S	N	15	N	200	100	N	20	N	150	N
K3136S	N	10	N	200	70	N	10	N	70	N
K3137S	N	10	N	150	100	N	15	N	150	N
K3138S	N	15	N	200	100	N	20	N	200	N
K3139S	N	30	N	200	200	N	30	N	200	N
K3140S	N	15	N	200	100	N	20	N	100	N
K3141S	N	20	N	300	150	N	20	N	200	N
K3141SD	N	20	N	500	200	N	30	N	150	N
K3142S	N	15	N	200	100	N	20	N	100	N
K3143S	N	20	N	300	150	N	20	N	50	N
K3144S	N	10	N	150	100	N	20	N	100	N
K3145S	N	15	N	150	100	N	15	N	100	N
K3152S	N	20	N	150	100	N	15	<200	50	N
K3154S	N	7	N	150	70	N	20	N	20	N
K3300S	N	20	N	200	200	N	20	<200	70	N
K3301S	N	30	N	300	300	N	20	<200	70	N
K3302S	N	30	N	300	200	N	30	<200	50	N
K3303S	N	30	N	200	300	N	30	N	500	N
K3304S	N	20	N	200	200	N	30	N	100	N
K3305S	N	15	N	300	150	N	20	N	50	N
K3306S	N	20	N	500	150	N	30	N	100	N
K3307S	N	20	N	300	100	N	15	<200	70	N
K3308S	N	20	N	500	100	N	20	N	70	N
K3309S	N	20	N	200	300	N	20	N	150	N
K3310S	N	20	N	500	150	N	20	200	70	N
K3311S	N	15	N	300	150	N	30	<200	70	N
K3312S	N	30	N	500	200	N	20	300	70	N
K3313S	N	20	N	300	200	N	20	N	70	N
K3314S	N	15	N	150	100	N	20	200	70	N
K3315S	N	10	N	100	100	N	15	N	50	N
K3316S	N	15	N	300	100	N	15	200	100	N
K3317S	N	20	N	200	700	N	20	200	300	N
K3318S	N	20	N	300	100	N	20	<200	100	N
K3319S	N	20	N	200	200	N	20	N	100	N
K3319SD	N	30	N	200	300	N	15	<200	70	N
K3320S	N	30	N	200	300	N	30	N	1,000	N
K3321S	N	20	N	200	300	N	20	<200	100	N
K3322S	N	20	N	200	200	N	20	N	200	N
K3323S	N	30	N	200	500	N	15	200	50	N
K3324S	N	15	N	300	100	N	20	N	100	N
K3325S	N	15	N	500	200	N	20	<200	100	N
K3326S	N	20	N	500	200	N	20	200	100	N
K3327S	N	15	N	300	150	N	20	N	70	N
K3328S	N	20	N	300	150	N	15	N	70	N
K3329S	N	20	N	500	150	N	20	N	500	N
K3330S	N	20	N	500	300	N	20	N	300	N
K3331S	N	15	N	300	200	N	20	<200	100	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K3332S	58 49 0	153 59 40	1.5	1.00	5.0	.50	1,000	N	N	N	150	700
K3333S	58 48 59	153 59 52	1.0	1.50	3.0	.30	1,000	N	N	N	150	700
K3334S	58 49 1	153 51 43	.5	.70	2.0	.50	1,000	N	N	N	100	500
K3335S	58 52 28	153 52 45	.7	.70	2.0	.30	700	N	N	N	50	500
K3336S	58 50 47	153 46 50	1.5	2.00	5.0	.50	1,500	N	N	N	50	500
K3337S	58 54 18	154 47 52	1.5	1.50	7.0	.50	1,500	<.5	N	N	20	500
K3338S	58 52 36	154 40 35	1.5	1.50	5.0	.30	1,500	<.5	N	N	70	500
K3339S	58 50 50	154 41 25	1.0	1.50	3.0	.20	1,500	N	N	N	<10	300
K3340S	58 48 26	154 40 12	2.0	2.00	7.0	.50	1,500	N	N	N	<10	500
K3340SD	58 48 26	154 40 12	2.0	2.00	10.0	.70	1,500	N	N	N	10	500
K3341S	58 48 32	154 40 32	1.5	1.50	5.0	.50	1,500	N	N	N	10	500
K3342S	58 49 48	154 51 37	1.0	1.50	5.0	.30	1,500	<.5	N	N	10	500
K3343S	58 46 29	154 46 40	2.0	1.50	10.0	1.00	1,500	N	N	N	10	300
K3344S	58 48 5	154 52 50	1.5	2.00	5.0	.70	1,500	N	N	N	10	500
K3345S	58 45 37	155 1 58	2.0	2.00	5.0	.30	1,500	N	N	N	15	300
K3346S	58 49 58	154 8 18	1.0	1.00	3.0	.30	1,000	N	N	N	15	500
K3347S	58 54 19	154 9 48	1.0	1.50	3.0	.30	1,000	N	N	N	30	500
K3348S	58 56 41	154 4 25	1.0	1.50	3.0	.30	1,000	N	N	N	15	300
K3349S	58 56 44	154 4 10	.7	1.00	2.0	.20	2,000	N	N	N	20	300
K3350S	58 45 38	154 2 20	.7	1.00	2.0	.20	700	N	N	N	20	200
K3351S	58 46 10	154 2 38	1.0	1.00	5.0	.50	700	N	N	N	100	500
K3352S	58 44 1	153 52 38	2.0	3.00	10.0	>1.00	3,000	N	N	N	20	300
K3353S	58 46 57	154 4 11	1.0	2.00	3.0	.70	1,000	N	N	N	100	700
K3354S	58 46 38	154 9 35	2.0	2.00	5.0	.50	1,000	N	N	N	20	300
K3355S	58 46 30	154 9 28	1.5	3.00	5.0	.50	1,000	N	N	N	50	500
K3356S	58 50 5	154 13 28	1.5	2.00	3.0	.50	1,000	N	N	N	20	500
K3357S	58 49 30	154 14 20	2.0	1.50	5.0	.50	1,000	N	N	N	10	500
K3358S	58 46 53	154 13 36	2.0	3.00	5.0	.70	1,500	N	N	N	20	500
K3358SD	58 46 53	154 13 36	2.0	2.00	5.0	.50	1,000	N	N	N	20	300
K3359S	58 42 48	154 14 52	1.5	1.00	5.0	.50	1,000	1.0	N	N	70	700
K3360S	58 42 50	154 14 44	2.0	2.00	7.0	.70	1,000	<.5	N	N	70	700
K3361S	58 42 30	154 23 5	1.5	1.50	5.0	.50	1,500	<.5	N	N	50	700
K3362S	58 59 0	154 47 12	3.0	3.00	15.0	1.00	2,000	N	N	N	20	500
K3363S	58 57 23	154 51 10	1.0	1.00	7.0	.50	1,000	N	N	N	70	500
K3364S	58 38 48	154 16 47	2.0	2.00	5.0	.70	1,000	N	N	N	20	700
K3365S	58 56 17	154 56 57	1.5	2.00	10.0	.70	1,500	N	N	N	300	700
K3366S	58 38 42	154 16 50	1.0	2.00	5.0	.70	1,500	N	N	N	20	500
K3367S	58 45 4	154 21 36	1.5	2.00	5.0	.70	1,500	<.5	N	N	50	700
K3368S	58 51 31	154 14 1	1.0	1.50	3.0	.50	1,000	N	N	N	20	500
K3369S	58 46 36	154 31 58	.7	.05	5.0	.50	1,500	<.5	200.0	N	10	1,500
K3370S	58 46 23	154 31 55	1.5	2.00	5.0	.70	2,000	N	N	N	<10	300
K3371S	58 49 38	154 24 53	.7	1.50	2.0	.30	1,000	N	N	N	10	500
K3372S	58 52 3	154 27 45	1.0	1.50	5.0	.50	1,500	N	N	N	10	500
K3372SD	58 52 3	154 27 45	2.0	2.00	7.0	.70	2,000	N	N	N	10	500
K3373S	58 53 56	154 19 49	1.5	2.00	5.0	.50	1,500	N	N	N	10	500
K3374S	58 56 53	154 18 6	2.0	2.00	7.0	.70	2,000	N	N	N	15	500
K3375S	58 55 6	154 14 12	.7	1.50	3.0	.30	2,000	N	N	N	10	500
K3376S	58 55 15	154 14 0	2.0	1.50	5.0	.50	1,500	N	N	N	10	500
K3377S	58 58 50	154 24 52	1.5	2.00	5.0	.50	2,000	N	N	N	10	500
K3378S	58 59 39	154 16 50	1.0	2.00	3.0	.30	1,500	N	N	N	10	300
K3379S	58 59 30	154 16 0	1.0	2.00	3.0	.30	2,000	N	N	N	<10	300
K3380S	58 58 33	154 27 10	1.5	2.00	7.0	.70	2,000	N	N	N	10	300
K3381S	58 57 13	154 31 36	2.0	2.00	20.0	1.00	3,000	N	N	N	N	300
K3382S	58 57 9	154 31 35	1.5	1.50	5.0	.50	2,000	N	N	N	10	500
K3383S	58 55 10	154 32 57	1.5	2.00	5.0	.50	1,500	N	N	N	10	500
K3384S	58 47 26	155 5 30	1.5	2.00	10.0	.50	2,000	N	N	N	20	500
K3385S	58 58 58	154 35 35	1.5	2.00	5.0	.70	2,000	N	N	N	10	500
K3386S	58 59 56	154 32 58	1.0	1.50	7.0	.50	1,500	N	N	N	10	300
K3387S	58 59 48	154 36 45	2.0	1.50	5.0	.70	1,000	N	N	N	<10	500
K3388S	58 50 36	154 36 49	1.0	1.50	5.0	.30	1,000	N	N	N	<10	500

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K3332S	1.0	N	N	30	200	50	N	N	N	50	20
K3333S	1.0	N	N	15	100	20	N	N	N	30	15
K3334S	1.0	N	N	10	50	50	N	N	N	20	<10
K3335S	1.0	N	N	15	100	20	N	N	N	20	10
K3336S	1.0	N	N	20	30	20	N	N	N	20	10
K3337S	1.0	N	N	50	150	100	30	5	N	30	50
K3338S	1.0	N	N	20	50	200	N	5	N	20	70
K3339S	1.0	N	N	15	50	20	N	N	N	20	10
K3340S	<1.0	N	N	30	50	20	N	N	N	10	10
K3340SD	N	N	N	30	30	15	N	N	N	10	10
K3341S	<1.0	N	N	20	30	30	N	N	N	10	20
K3342S	<1.0	N	N	15	30	30	N	<5	N	15	20
K3343S	N	N	N	50	30	20	N	N	N	10	<10
K3344S	<1.0	N	N	50	50	100	N	N	N	20	<10
K3345S	<1.0	N	N	50	50	50	N	N	N	20	10
K3346S	<1.0	N	N	15	70	20	N	N	N	20	<10
K3347S	<1.0	N	N	15	30	20	N	N	N	20	10
K3348S	<1.0	N	N	15	50	20	N	N	N	20	<10
K3349S	<1.0	N	N	10	70	10	N	N	N	15	<10
K3350S	<1.0	N	N	10	30	15	N	N	N	10	<10
K3351S	1.0	N	N	20	100	20	N	N	N	30	15
K3352S	N	N	N	50	200	30	70	<5	N	20	<10
K3353S	1.5	N	N	20	150	30	N	N	N	30	15
K3354S	N	N	N	50	100	30	N	N	N	30	50
K3355S	<1.0	N	N	30	70	20	N	N	N	20	<10
K3356S	<1.0	N	N	20	50	20	N	N	N	20	10
K3357S	N	N	N	20	70	20	N	N	N	20	10
K3358S	N	N	N	50	100	50	N	N	N	30	10
K3358SD	<1.0	N	N	20	50	20	N	N	N	20	<10
K3359S	<1.0	N	N	30	100	70	N	N	N	30	10
K3360S	N	N	N	50	200	100	N	N	N	30	20
K3361S	<1.0	N	N	20	70	30	N	N	N	20	<10
K3362S	N	N	N	70	500	150	N	N	N	30	20
K3363S	<1.0	N	N	50	150	70	20	N	N	30	30
K3364S	N	N	N	20	100	30	N	N	N	20	<10
K3365S	N	N	N	20	100	200	N	10	N	20	30
K3366S	<1.0	N	N	30	70	20	N	N	N	15	10
K3367S	1.0	N	N	30	70	50	N	N	N	30	15
K3368S	1.0	N	N	15	70	20	N	N	N	20	10
K3369S	1.0	N	N	20	100	100	N	N	N	30	150
K3370S	N	N	N	20	50	20	N	N	N	10	<10
K3371S	<1.0	N	N	15	30	10	N	N	N	10	70
K3372S	<1.0	N	N	20	20	20	N	N	N	7	10
K3372SD	<1.0	N	N	30	20	20	N	N	N	10	10
K3373S	<1.0	N	N	20	70	50	N	N	N	30	10
K3374S	N	N	N	30	150	50	N	N	N	30	10
K3375S	<1.0	N	N	15	50	15	N	N	N	30	<10
K3376S	<1.0	N	N	20	100	20	N	N	N	20	10
K3377S	<1.0	N	N	15	50	20	N	N	N	20	<10
K3378S	<1.0	N	N	15	100	20	N	N	N	20	<10
K3379S	<1.0	N	N	50	70	30	N	N	N	30	10
K3380S	N	N	N	30	100	20	N	N	N	20	10
K3381S	N	N	N	70	100	50	N	N	N	10	<10
K3382S	<1.0	N	N	50	30	30	N	N	N	10	20
K3383S	<1.0	N	N	20	20	50	N	N	N	15	50
K3384S	N	N	N	50	50	50	N	N	N	15	10
K3385S	N	N	N	30	20	15	N	N	N	<5	<10
K3386S	N	N	N	20	20	50	N	<5	N	10	<10
K3387S	N	N	N	50	100	30	N	N	N	30	<10
K3388S	<1.0	N	N	15	20	20	N	N	N	15	10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K3332S	N	15	N	300	150	N	15	N	100	N
K3333S	N	15	N	500	150	N	15	N	100	N
K3334S	N	10	N	200	150	N	10	N	100	N
K3335S	N	10	N	300	100	N	10	N	70	N
K3336S	N	20	N	300	200	N	20	N	300	N
K3337S	N	20	N	300	300	N	20	<200	500	N
K3338S	N	20	N	300	150	N	20	<200	300	N
K3339S	N	15	N	200	150	N	30	N	70	N
K3340S	N	20	N	500	200	N	20	<200	50	N
K3340SD	N	20	N	300	200	N	20	N	200	N
K3341S	N	20	N	300	200	N	20	<200	100	N
K3342S	N	20	N	300	150	N	20	200	70	N
K3343S	N	30	N	300	500	N	30	300	70	N
K3344S	N	30	N	500	150	N	30	<200	70	N
K3345S	N	30	N	300	200	N	30	N	300	N
K3346S	N	15	N	300	150	N	15	N	70	N
K3347S	N	20	N	300	150	N	15	N	100	N
K3348S	N	15	N	200	150	N	15	N	50	N
K3349S	N	10	N	300	100	N	10	N	50	N
K3350S	N	10	N	200	150	N	15	N	50	N
K3351S	N	20	N	300	200	N	20	N	70	N
K3352S	N	30	N	300	500	N	50	200	150	N
K3353S	N	20	N	700	150	N	20	N	150	N
K3354S	N	20	N	300	150	N	30	N	100	N
K3355S	N	20	N	300	150	N	20	N	50	N
K3356S	N	20	N	500	100	N	20	N	70	N
K3357S	N	20	N	500	100	N	15	N	50	N
K3358S	N	30	N	300	200	N	20	N	70	N
K3358SD	N	20	N	300	150	N	15	N	70	N
K3359S	N	20	N	500	200	N	30	<200	70	N
K3360S	N	20	N	500	150	N	30	N	70	N
K3361S	N	15	N	500	200	N	30	<200	70	N
K3362S	N	30	N	500	500	N	30	N	50	N
K3363S	N	15	N	300	200	N	20	N	300	N
K3364S	N	20	N	300	150	N	30	N	70	N
K3365S	N	20	N	500	300	N	20	<200	150	N
K3366S	N	20	N	200	150	N	30	N	150	N
K3367S	N	20	N	500	150	N	30	<200	100	N
K3368S	N	20	N	500	150	N	20	N	50	N
K3369S	N	20	N	N	150	N	15	<200	100	N
K3370S	N	20	N	200	200	N	30	<200	100	N
K3371S	N	10	N	200	100	N	15	N	30	N
K3372S	N	20	N	200	100	N	20	N	100	N
K3372SD	N	20	N	500	200	N	20	N	70	N
K3373S	N	20	N	200	150	N	20	N	50	N
K3374S	N	30	N	300	200	N	30	<200	100	N
K3375S	N	15	N	200	100	N	20	N	150	N
K3376S	N	20	N	200	150	N	20	N	70	N
K3377S	N	20	N	200	200	N	20	N	70	N
K3378S	N	15	N	150	150	N	15	200	50	N
K3379S	N	20	N	200	150	N	20	<200	50	N
K3380S	N	30	N	200	200	N	20	N	50	N
K3381S	N	30	N	100	1,000	N	50	<200	200	N
K3382S	N	20	N	200	200	N	30	N	100	N
K3383S	N	20	N	200	150	N	30	N	70	N
K3384S	N	20	N	300	200	N	30	N	150	N
K3385S	N	30	N	200	300	N	20	<200	150	N
K3386S	N	20	N	150	200	N	20	<200	70	N
K3387S	N	30	N	300	200	N	20	N	100	N
K3388S	N	20	N	500	150	N	20	N	70	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K3389S	58 50 37	154 36 38	.7	1.50	2.0	.30	1,500	N	N	N	20	500
K3390S	58 51 3	154 57 50	1.5	2.00	5.0	.50	1,500	N	N	N	20	500
K3390SD	58 51 3	154 57 50	1.5	2.00	5.0	.50	1,500	N	N	N	10	500
K3391S	58 57 55	156 1 0	1.5	2.00	2.0	.50	1,500	N	N	N	10	500
K3394S	58 53 29	154 57 48	1.0	1.50	7.0	.30	700	<.5	N	N	20	700
K3395S	58 59 59	154 58 47	1.0	1.50	2.0	.30	1,500	.5	N	N	50	700
K3402S	58 36 57	154 19 25	.7	1.50	2.0	.30	1,000	<.5	N	N	200	700
K3402S	58 36 57	154 19 25	1.5	3.00	2.0	.20	1,000	N	N	N	300	500
K3403S	58 37 12	154 26 56	1.5	1.50	3.0	.50	1,000	<.5	N	N	50	500
K3404S	58 33 42	154 31 45	2.0	2.00	7.0	.70	1,500	N	N	N	15	300
K3405S	58 41 14	155 1 15	1.5	1.50	7.0	.70	1,500	N	N	N	10	300
K3407S	58 41 40	155 1 37	.7	1.00	2.0	.30	1,000	N	N	N	20	500
K3413S	58 16 18	155 26 22	.7	1.00	5.0	.50	700	<.5	N	N	<10	200
K3414S	58 16 10	155 26 20	1.0	2.00	3.0	.30	1,500	<.5	N	N	10	500
K3418S	58 25 36	155 27 55	1.0	2.00	5.0	.50	1,500	N	N	N	20	500
K3420S	58 28 11	155 27 16	1.5	2.00	15.0	.70	2,000	N	N	N	10	300
K3422S	58 26 40	154 48 32	1.5	1.50	20.0	1.00	2,000	N	N	N	10	200
K3602S	58 43 6	154 0 24	1.5	2.00	10.0	.20	1,000	N	N	N	20	200
K3607S	58 54 15	154 53 8	1.0	2.00	5.0	.50	1,500	.5	N	N	150	700
K3622S	58 4 32	154 44 10	2.0	2.00	10.0	.50	1,000	N	N	N	150	1,000
K3625S	58 0 23	155 39 15	.2	.50	20.0	.10	2,000	N	N	N	<10	50
K4001S	58 26 20	154 44 50	1.5	1.00	5.0	.50	500	N	N	N	15	300
K4001SD	58 26 20	154 44 50	1.5	1.00	5.0	.50	700	<.5	N	N	10	500
K4002S	58 29 8	154 47 20	1.5	1.00	5.0	.50	1,000	N	N	N	70	300
K4002SD	58 29 8	154 47 20	1.5	1.00	5.0	.50	1,000	N	N	N	50	300
K4003S	58 24 13	154 40 40	1.5	1.00	10.0	.70	500	N	N	N	10	300
K4004S	58 26 11	154 36 50	1.5	1.00	7.0	.50	1,000	N	N	N	10	300
K4005S	58 24 50	154 35 5	2.0	1.00	10.0	.70	1,000	N	N	N	<10	500
K4006S	58 31 43	154 40 39	1.5	1.00	5.0	.50	700	N	N	N	10	300
K4007S	58 31 42	154 40 51	1.5	.70	5.0	.50	500	N	N	N	10	300
K4008S	58 31 52	154 36 36	2.0	1.50	5.0	.50	700	N	N	N	15	500
K4009S	58 31 40	154 35 10	1.5	.70	7.0	.50	700	N	N	N	<10	300
K4010S	58 30 50	154 34 5	1.5	1.00	2.0	.20	500	N	N	N	15	300
K4011S	58 30 28	155 4 38	1.5	1.50	7.0	.70	1,000	N	N	N	10	500
K4012S	58 31 36	155 0 24	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K4013S	58 32 20	154 56 50	1.5	1.00	10.0	.70	1,000	N	N	N	<10	200
K4014S	58 33 52	154 40 47	1.5	1.00	3.0	.30	700	.5	N	N	30	500
K4015S	58 34 37	154 38 6	1.5	1.00	5.0	.50	700	N	N	N	10	300
K4016S	58 34 18	154 30 35	1.5	1.00	5.0	.50	1,000	N	N	N	15	300
K4017S	58 33 37	154 29 27	2.0	1.50	3.0	.20	500	N	N	N	<10	50
K4018S	58 34 25	154 26 52	1.0	.70	3.0	.30	500	<.5	N	N	20	300
K4018SD	58 34 25	154 26 52	1.5	1.00	3.0	.30	700	<.5	N	N	30	500
K4034S	58 35 16	155 34 40	1.5	1.00	5.0	.50	1,000	N	N	N	15	300
K4035S	58 34 37	155 25 20	1.0	1.00	3.0	.30	700	N	N	N	15	300
K4036S	58 33 22	155 24 5	1.5	1.00	5.0	.30	1,000	N	N	N	15	300
K4037S	58 30 12	155 25 20	2.0	1.00	7.0	.50	500	N	N	N	<10	200
K4038S	58 40 32	155 48 58	1.5	1.00	5.0	.30	1,000	N	N	N	15	300
K4039S	58 41 30	155 51 27	.5	.70	5.0	.20	1,500	N	N	N	10	300
K4040S	58 44 19	156 0 40	1.5	1.00	5.0	.30	700	N	N	N	15	300
K4041S	58 47 37	155 56 30	2.0	.70	7.0	.70	1,000	N	N	N	10	200
K4042S	58 50 0	155 58 30	.5	.50	1.0	.15	500	N	N	N	10	150
K4043S	58 51 27	155 57 18	2.0	1.00	10.0	>1.00	1,000	N	N	N	10	200
K4044S	58 51 5	155 55 55	1.0	1.00	5.0	.50	1,500	N	N	N	10	300
K4045S	58 51 40	155 53 31	1.0	.70	5.0	.50	1,000	N	N	N	10	300
K4046S	58 51 32	155 53 13	1.5	1.00	5.0	.70	1,000	N	N	N	10	300
K4047S	58 35 38	155 44 0	1.0	.70	5.0	.50	700	N	N	N	10	150
K4048S	58 21 45	155 41 45	1.0	1.00	3.0	.30	1,000	N	N	N	<10	300
K4048SD	58 21 45	155 41 45	1.5	1.00	5.0	.50	700	N	N	N	10	500
K4049S	58 21 32	155 42 0	1.5	1.00	5.0	.50	500	N	N	N	10	300
K4050S	58 21 12	155 41 28	1.5	1.00	3.0	.30	700	N	N	N	10	150

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K3389S	<1.0	N	N	10	20	20	N	N	N	5	<10
K3390S	<1.0	N	N	20	50	50	N	N	N	7	15
K3390SD	<1.0	N	N	30	30	20	N	<5	N	10	10
K3391S	N	N	N	30	70	10	N	5	N	15	10
K3394S	<1.0	N	N	70	150	1,500	N	20	N	30	20
K3395S	1.0	N	N	10	20	20	N	<5	N	7	20
K3402S	1.0	N	N	10	50	100	N	N	N	20	10
K3402S	1.5	N	N	7	20	50	N	N	N	15	20
K3403S	1.0	N	N	20	100	70	N	N	N	30	10
K3404S	N	N	N	50	20	100	N	N	N	30	10
K3405S	N	N	N	70	50	30	N	N	N	15	<10
K3407S	1.0	N	N	15	15	20	N	N	N	5	10
K3413S	<1.0	N	N	20	30	300	N	20	N	20	20
K3414S	<1.0	N	N	20	20	300	N	10	N	10	15
K3418S	<1.0	N	N	20	30	30	N	N	N	15	10
K3420S	N	N	N	70	50	50	N	N	N	20	<10
K3422S	N	N	N	70	50	50	N	N	N	20	10
K3602S	<1.0	N	N	15	50	200	N	N	N	20	10
K3607S	1.0	N	N	20	30	50	<20	5	N	10	50
K3622S	1.0	N	N	30	100	50	N	N	N	30	15
K3625S	2.0	N	N	<5	<10	15	N	N	N	N	10
K4001S	N	N	N	30	70	20	N	N	N	20	10
K4001SD	N	N	N	20	100	50	N	N	N	20	10
K4002S	N	N	N	30	70	20	N	N	N	15	10
K4002SD	<1.0	N	N	20	30	20	N	N	N	15	<10
K4003S	N	N	N	70	150	30	N	N	N	50	10
K4004S	N	N	N	50	100	30	N	N	N	30	10
K4005S	N	N	N	50	150	30	N	N	N	30	10
K4006S	N	N	N	20	70	20	N	N	N	20	10
K4007S	N	N	N	30	100	20	N	N	N	30	10
K4008S	<1.0	N	N	20	100	30	N	N	N	30	10
K4009S	N	N	N	30	150	30	N	N	N	30	10
K4010S	<1.0	N	N	15	70	20	N	N	N	30	10
K4011S	N	N	N	30	100	30	N	N	N	30	<10
K4012S	N	N	N	20	50	20	N	N	N	20	<10
K4013S	<1.0	N	N	50	50	30	N	N	N	20	N
K4014S	<1.0	N	N	15	70	30	N	N	N	30	20
K4015S	N	N	N	20	100	30	N	N	N	50	<10
K4016S	N	N	N	50	70	50	N	N	N	30	10
K4017S	N	N	N	20	20	20	N	N	N	20	<10
K4018S	N	N	N	10	70	20	N	N	N	20	10
K4018SD	<1.0	N	N	15	70	30	N	N	N	30	15
K4034S	<1.0	N	N	20	30	7	N	<5	N	10	<10
K4035S	<1.0	N	N	15	15	20	N	<5	N	10	15
K4036S	N	N	N	20	50	30	N	N	N	10	20
K4037S	N	N	N	50	200	50	N	N	N	30	10
K4038S	<1.0	N	N	15	20	10	N	N	N	10	10
K4039S	<1.0	N	N	10	10	10	N	N	N	5	10
K4040S	N	N	N	20	70	20	N	N	N	20	<10
K4041S	N	N	N	50	150	<5	N	N	N	20	<10
K4042S	<1.0	N	N	5	10	7	N	N	N	7	10
K4043S	N	N	N	50	70	10	N	N	N	15	10
K4044S	<1.0	N	N	20	50	10	N	N	N	10	10
K4045S	<1.0	N	N	15	50	10	N	N	N	10	<10
K4046S	<1.0	N	N	20	100	5	70	N	N	10	10
K4047S	N	N	N	20	150	5	N	N	N	20	10
K4048S	<1.0	N	N	15	20	20	N	N	N	10	10
K4048SD	N	N	N	20	30	15	N	N	N	10	10
K4049S	N	N	N	20	50	30	N	<5	N	10	10
K4050S	N	N	N	15	20	10	N	N	N	10	10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K3389S	N	15	N	150	100	N	20	N	150	N
K3390S	N	20	N	300	150	N	20	N	70	N
K3390SD	N	20	N	300	200	N	20	N	100	N
K3391S	N	20	N	300	150	N	15	N	100	N
K3394S	N	15	N	700	200	N	15	<200	70	N
K3395S	N	10	N	300	100	N	20	N	150	N
K3402S	N	20	N	300	150	N	15	N	200	N
K3402S	N	15	N	500	100	N	20	N	50	N
K3403S	N	20	N	500	200	N	15	N	100	N
K3404S	N	20	N	500	300	N	10	N	50	N
K3405S	N	30	N	300	200	N	20	200	50	N
K3407S	N	10	N	200	100	N	30	N	100	N
K3413S	N	15	N	300	150	N	10	N	50	N
K3414S	N	15	N	300	150	N	20	N	70	N
K3418S	N	20	N	300	150	N	20	N	100	N
K3420S	N	20	N	300	700	N	20	200	70	N
K3422S	N	30	N	300	500	N	15	500	100	N
K3602S	N	20	N	500	100	N	20	200	100	N
K3607S	N	30	N	200	200	N	50	200	200	N
K3622S	N	30	N	200	300	N	30	300	100	N
K3625S	N	5	N	N	100	N	20	300	<10	N
K4001S	N	20	N	300	200	N	20	N	100	N
K4001SD	N	20	N	200	150	N	20	N	150	N
K4002S	N	20	N	200	150	N	30	N	70	N
K4002SD	N	20	N	300	150	N	20	N	70	N
K4003S	N	20	N	200	300	N	20	N	70	N
K4004S	N	20	N	200	200	N	20	N	100	N
K4005S	N	30	N	200	300	N	20	N	100	N
K4006S	N	20	N	300	150	N	20	N	50	N
K4007S	N	20	N	300	200	N	20	N	50	N
K4008S	N	20	N	500	100	N	30	N	70	N
K4009S	N	20	N	200	200	N	20	N	70	N
K4010S	N	20	N	200	150	N	15	N	50	N
K4011S	N	30	N	300	200	N	30	<200	70	N
K4012S	N	30	N	300	200	N	30	N	100	N
K4013S	N	20	N	100	300	N	20	<200	100	N
K4014S	N	20	N	300	100	N	20	N	30	N
K4015S	N	30	N	300	200	N	20	N	50	N
K4016S	N	20	N	300	200	N	20	N	70	N
K4017S	N	15	N	300	150	N	10	N	50	N
K4018S	N	15	N	300	100	N	20	N	100	N
K4018SD	N	20	N	300	100	N	20	N	70	N
K4034S	N	20	N	200	150	N	30	N	100	N
K4035S	N	20	N	200	150	N	20	N	100	N
K4036S	N	20	N	200	150	N	30	N	100	N
K4037S	N	20	N	200	200	N	30	N	100	N
K4038S	N	20	N	200	100	N	20	N	100	N
K4039S	N	10	N	200	150	N	15	N	50	N
K4040S	N	20	N	500	150	N	20	N	150	N
K4041S	N	30	N	200	150	N	150	N	150	N
K4042S	N	10	N	100	100	N	15	N	100	N
K4043S	N	20	N	150	300	N	20	N	100	N
K4044S	N	20	N	200	100	N	20	N	100	N
K4045S	N	20	N	200	200	N	20	N	70	N
K4046S	N	20	N	200	150	N	20	N	300	N
K4047S	N	20	N	100	100	N	20	N	100	N
K4048S	N	20	N	300	100	N	30	N	150	N
K4048SD	N	20	N	150	200	N	30	N	100	N
K4049S	N	20	N	200	100	N	30	N	100	N
K4050S	N	20	N	300	150	N	20	N	70	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K4051S	58 17 27	155 54 35	1.5	1.00	5.0	.70	1,000	N	N	N	<10	500
K4052S	58 9 13	156 18 18	1.5	1.00	3.0	.30	1,000	N	N	N	10	300
K4053S	58 4 50	156 12 40	1.5	1.00	5.0	.30	700	N	N	N	10	300
K4054S	58 4 41	156 12 39	1.5	1.00	5.0	.30	1,000	N	N	N	10	200
K4055S	58 4 42	156 12 14	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K4056S	58 3 10	156 4 30	2.0	1.00	7.0	.50	1,500	N	N	N	10	200
K4057S	58 1 25	156 0 8	1.5	1.00	5.0	.50	1,000	N	N	N	10	200
K4058S	58 6 38	156 3 40	1.5	1.00	5.0	.50	1,000	N	N	N	10	300
K4059S	58 4 45	155 37 59	1.5	1.00	5.0	.30	1,000	N	N	N	15	300
K4060S	58 5 23	155 35 4	1.5	1.00	3.0	.20	1,000	N	N	N	15	500
K4061S	58 5 23	155 40 22	1.0	1.00	3.0	.30	1,000	N	N	N	10	300
K4062S	58 7 37	155 47 42	1.0	1.00	3.0	.30	1,000	N	N	N	10	300
K4063S	58 11 39	155 42 11	1.5	1.00	7.0	.70	2,000	N	N	N	10	500
K4064S	58 13 55	155 50 12	1.5	1.00	7.0	.70	1,500	N	N	N	10	200
K4101S	58 58 9	155 1 11	1.5	2.00	5.0	.70	2,000	<.5	N	N	20	500
K4102S	58 55 40	155 3 55	2.0	2.00	10.0	.70	2,000	N	N	N	100	500
K4103S	58 54 57	155 3 13	2.0	2.00	7.0	.50	1,500	N	N	N	20	500
K4104S	58 54 16	155 3 42	2.0	1.50	5.0	.50	1,000	N	N	N	150	500
K4105S	58 53 31	155 6 10	1.5	2.00	5.0	.70	2,000	N	N	N	50	500
K4106S	58 52 0	155 5 10	2.0	2.00	5.0	.70	1,500	N	N	N	100	700
K4107S	58 51 42	155 5 8	2.0	2.00	5.0	.30	1,500	N	N	N	20	500
K4108S	58 48 48	155 3 37	1.5	1.50	3.0	.50	1,500	N	N	N	15	500
K4109S	58 46 52	155 0 15	2.0	2.00	5.0	.70	2,000	<.5	N	N	20	500
K4110S	58 38 9	154 54 29	1.5	1.50	3.0	.50	1,500	N	N	N	15	500
K4111S	58 39 17	154 57 12	1.0	2.00	3.0	.30	1,500	N	N	N	20	500
K4112S	58 41 32	154 54 36	2.0	2.00	5.0	1.00	1,500	N	N	N	15	300
K4113S	58 44 2	154 45 25	1.5	2.00	5.0	.70	1,500	N	N	N	10	500
K4114S	58 32 52	154 25 8	1.5	1.50	5.0	.50	1,000	N	N	N	30	500
K4115S	58 31 22	154 26 17	1.0	1.50	5.0	.50	1,500	N	N	N	70	500
K4116S	58 37 33	154 39 54	1.5	2.00	3.0	.50	1,500	N	N	N	20	500
K4117S	58 39 35	154 35 0	2.0	1.50	3.0	.70	1,500	N	N	N	30	500
K4118S	58 39 44	154 35 0	1.5	1.50	3.0	.70	1,500	N	N	N	20	500
K4119S	58 42 4	154 29 35	1.5	1.50	3.0	.30	1,000	<.5	N	N	70	500
K4120S	58 40 30	154 11 47	1.5	1.00	3.0	.30	1,000	.5	N	N	200	700
K4121S	58 42 48	154 8 11	2.0	2.00	5.0	.50	1,000	N	N	N	50	500
K4122S	58 40 5	154 1 38	1.5	1.50	5.0	.50	1,000	<.5	N	N	50	500
K4123S	58 38 49	153 56 30	2.0	1.00	5.0	.70	1,000	N	N	N	100	500
K4124S	58 38 54	153 56 35	1.5	1.00	5.0	.50	1,000	<.5	N	N	300	500
K4125S	58 38 5	153 45 37	1.5	1.00	3.0	.30	1,000	N	N	N	200	300
K4126S	58 40 22	153 39 40	1.0	1.00	7.0	.30	2,000	<.5	N	N	300	500
K4126SD	58 40 22	153 39 40	1.0	1.00	5.0	.50	2,000	<.5	200.0	N	100	500
K4127S	58 38 30	153 38 25	1.5	1.00	3.0	.50	700	N	N	N	200	700
K4128S	58 43 34	153 35 45	2.0	2.00	7.0	.70	2,000	N	N	N	20	300
K4129S	58 44 22	153 28 34	1.0	2.00	3.0	1.00	2,000	N	N	N	100	300
K4130S	58 55 37	153 23 17	3.0	2.00	5.0	.70	2,000	N	N	N	200	200
K4131S	58 51 50	153 22 13	1.5	2.00	7.0	.70	2,000	<.5	200.0	N	100	200
K4132S	58 48 57	153 23 15	3.0	2.00	10.0	.70	3,000	N	N	N	30	300
K4133S	58 45 45	153 27 10	2.0	2.00	5.0	.50	1,500	N	N	N	150	300
K4134S	58 16 45	154 30 15	2.0	2.00	10.0	1.00	1,500	N	N	N	20	300
K4135S	58 29 20	154 13 40	3.0	2.00	7.0	.50	1,500	N	N	N	<10	200
K4136S	58 57 41	153 27 40	2.0	2.00	7.0	.50	1,000	N	N	N	300	500
K4137S	58 56 23	153 36 5	3.0	2.00	5.0	.50	1,000	N	N	N	20	300
K4138S	58 57 23	153 40 30	2.0	1.50	5.0	.50	1,000	N	N	N	50	700
K4139S	58 53 9	153 47 10	1.5	1.50	2.0	.30	1,000	<.5	N	N	70	500
K4140S	59 3 30	154 5 0	1.5	1.50	5.0	.30	700	N	N	N	10	500
K4141S	59 3 3	153 57 26	1.0	2.00	3.0	.20	1,000	N	N	N	50	500
K4142S	59 2 8	153 50 53	1.0	1.50	2.0	.20	1,000	N	N	N	20	500
K4142SD	59 2 8	153 50 53	1.5	2.00	3.0	.50	1,000	N	N	N	20	500
K4143S	59 0 33	153 51 29	1.0	2.00	3.0	.30	1,000	N	N	N	70	500
K4144S	58 57 15	153 51 24	1.0	1.50	2.0	.30	1,000	N	N	N	50	500

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K4051S	N	N	N	20	50	10	N	N	N	7	15
K4052S	<1.0	N	N	15	30	15	N	N	N	10	<10
K4053S	<1.0	N	N	20	50	20	N	N	N	15	30
K4054S	<1.0	N	N	20	50	7	N	N	N	20	<10
K4055S	N	N	N	20	50	20	N	N	N	20	<10
K4056S	N	N	N	50	70	70	N	N	N	30	<10
K4057S	<1.0	N	N	20	50	20	N	N	N	20	<10
K4058S	<1.0	N	N	30	70	10	N	N	N	20	<10
K4059S	N	N	N	30	50	30	N	N	N	20	<10
K4060S	N	N	N	15	100	30	100	N	N	20	10
K4061S	<1.0	N	N	15	30	15	N	N	N	20	<10
K4062S	<1.0	N	N	15	50	15	N	N	N	20	<10
K4063S	N	N	N	30	70	30	N	N	N	10	<10
K4064S	<1.0	N	N	20	50	20	N	N	N	10	10
K4101S	1.0	N	N	50	50	30	N	<5	N	10	50
K4102S	N	N	N	50	100	50	N	N	N	30	20
K4103S	<1.0	N	N	20	50	20	N	N	N	20	20
K4104S	1.0	N	N	30	50	70	N	5	N	20	20
K4105S	<1.0	N	N	20	30	30	N	N	N	15	20
K4106S	<1.0	N	N	30	100	30	N	<5	N	20	15
K4107S	<1.0	N	N	20	30	15	N	N	N	15	15
K4108S	1.0	N	N	20	20	20	N	N	N	5	30
K4109S	<1.0	N	N	50	50	30	N	5	N	15	15
K4110S	1.0	N	N	30	20	20	N	N	N	15	<10
K4111S	1.0	N	N	15	10	20	N	<5	N	10	15
K4112S	N	N	N	50	50	50	N	N	N	20	10
K4113S	<1.0	N	N	30	15	15	N	<5	N	10	10
K4114S	<1.0	N	N	15	70	50	N	N	N	30	15
K4115S	<1.0	N	N	15	50	20	N	N	N	10	15
K4116S	1.0	N	N	20	50	20	N	N	N	15	10
K4117S	<1.0	N	N	50	50	30	N	N	N	20	15
K4118S	1.0	N	N	20	30	30	N	N	N	15	<10
K4119S	<1.0	N	N	15	50	20	N	N	N	30	15
K4120S	<1.0	N	N	20	100	50	N	N	N	20	10
K4121S	1.0	N	N	30	50	30	N	N	N	30	10
K4122S	<1.0	N	N	15	100	20	N	N	N	30	<10
K4123S	<1.0	N	N	20	100	50	N	N	N	30	30
K4124S	1.0	N	N	50	70	50	N	N	N	20	15
K4125S	<1.0	N	N	20	30	20	N	N	N	15	20
K4126S	<1.0	N	N	50	50	70	N	10	N	20	20
K4126SD	<1.0	N	N	20	30	70	N	10	N	20	20
K4127S	1.0	N	N	30	70	50	N	N	N	30	20
K4128S	N	N	N	50	70	70	N	N	N	30	10
K4129S	N	N	N	20	70	50	N	<5	N	20	10
K4130S	N	N	N	50	150	70	N	N	N	50	<10
K4131S	N	N	N	50	100	70	N	N	N	20	30
K4132S	<1.0	N	N	70	200	100	N	N	N	50	10
K4133S	1.0	N	N	30	70	50	N	N	N	30	10
K4134S	<1.0	N	N	70	100	70	N	N	N	50	10
K4135S	N	N	N	50	50	30	N	N	N	20	10
K4136S	N	N	N	30	150	50	N	N	N	30	15
K4137S	<1.0	N	N	50	50	50	N	N	N	30	<10
K4138S	1.0	N	N	50	150	50	N	N	N	50	30
K4139S	1.0	N	N	15	50	20	N	N	N	20	10
K4140S	<1.0	N	N	15	300	20	N	N	N	20	10
K4141S	1.0	N	N	15	50	20	N	N	N	20	10
K4142S	1.0	N	N	10	30	50	N	N	N	15	<10
K4142SD	<1.0	N	N	15	50	15	N	N	N	20	<10
K4143S	1.0	N	N	20	50	20	N	N	N	20	20
K4144S	1.0	N	N	20	30	15	N	N	N	20	10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K4051S	N	30	N	300	100	N	30	N	70	N
K4052S	N	20	N	300	150	N	20	N	70	N
K4053S	N	20	N	300	150	N	20	N	70	N
K4054S	N	20	N	300	200	N	20	N	50	N
K4055S	N	20	N	200	150	N	20	N	50	N
K4056S	N	30	N	200	200	N	30	N	150	N
K4057S	N	20	N	300	150	N	15	N	50	--
K4058S	N	20	N	300	150	N	20	N	50	N
K4059S	N	20	N	500	150	N	30	N	100	N
K4060S	N	20	N	300	150	N	30	N	150	N
K4061S	N	15	N	200	150	N	20	N	70	N
K4062S	N	20	N	300	100	N	20	N	100	N
K4063S	N	20	N	200	200	N	50	N	200	N
K4064S	N	20	N	200	150	N	30	N	100	--
K4101S	N	30	N	500	200	N	30	<200	100	N
K4102S	N	30	N	300	300	N	30	200	100	N
K4103S	N	20	N	300	200	N	30	N	100	N
K4104S	N	20	N	500	200	N	20	N	100	N
K4105S	N	20	N	300	150	N	15	<200	100	N
K4106S	N	20	N	300	200	N	30	<200	70	N
K4107S	N	20	N	300	150	N	15	N	50	N
K4108S	N	20	N	200	150	N	20	200	70	N
K4109S	N	20	N	500	200	N	30	<200	200	N
K4110S	N	20	N	300	150	N	20	<200	70	N
K4111S	N	20	N	200	150	N	30	N	100	N
K4112S	N	30	N	300	300	N	20	<200	100	N
K4113S	N	30	N	300	200	N	30	N	70	N
K4114S	N	20	N	300	200	N	20	<200	70	N
K4115S	N	20	N	500	150	N	30	N	500	N
K4116S	N	20	N	500	200	N	20	N	100	N
K4117S	N	20	N	500	200	N	20	<200	70	N
K4118S	N	20	N	500	200	N	20	<200	300	N
K4119S	N	15	N	300	200	N	15	N	50	N
K4120S	N	15	N	500	100	N	20	N	70	N
K4121S	N	20	N	300	150	N	20	<200	70	N
K4122S	N	15	N	200	150	N	15	N	70	N
K4123S	N	20	N	300	200	N	20	<200	150	N
K4124S	N	20	N	300	150	N	20	<200	70	N
K4125S	N	15	N	200	150	N	20	N	70	N
K4126S	N	15	N	200	100	N	20	200	70	N
K4126SD	N	15	N	150	100	N	15	<200	300	N
K4127S	N	20	N	200	150	N	20	N	150	N
K4128S	N	30	N	300	300	N	20	<200	100	N
K4129S	N	20	N	300	200	N	30	200	200	N
K4130S	N	20	N	300	200	N	15	200	70	N
K4131S	N	20	N	300	200	N	15	200	50	N
K4132S	N	30	N	300	300	N	30	<200	300	N
K4133S	N	20	N	200	200	N	20	N	150	N
K4134S	N	30	N	300	300	N	20	<200	150	N
K4135S	N	30	N	200	300	N	15	200	50	N
K4136S	N	20	N	300	200	N	15	<200	70	N
K4137S	N	20	N	300	150	N	20	N	70	N
K4138S	N	20	N	500	150	N	15	N	150	N
K4139S	N	15	N	500	100	N	15	N	150	N
K4140S	N	15	N	300	100	N	15	N	100	N
K4141S	N	15	N	300	100	N	15	N	70	N
K4142S	N	10	N	300	100	N	15	N	150	N
K4142SD	N	20	N	500	150	N	20	N	70	N
K4143S	N	15	N	500	150	N	15	N	70	N
K4144S	N	15	N	500	150	N	15	N	70	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K4145S	58 52 5	153 58 38	1.0	2.00	5.0	.70	1,000	N	N	N	70	700
K4146S	58 47 44	153 45 55	1.5	2.00	3.0	.50	1,000	N	N	N	100	500
K4147S	58 47 47	153 48 25	1.5	2.00	5.0	.50	1,000	N	N	N	100	700
K4148S	58 49 49	153 50 47	1.5	2.00	5.0	.20	1,500	N	N	N	10	300
K4149S	58 51 41	153 51 18	1.5	1.00	5.0	.30	1,000	N	N	N	100	700
K4150S	58 54 33	153 50 48	1.5	1.50	3.0	.30	1,000	N	N	N	30	700
K4151S	58 55 11	154 49 43	.7	1.00	2.0	.20	700	N	N	N	<10	500
K4152S	58 52 27	154 46 20	1.5	1.50	7.0	.70	1,500	<.5	N	N	15	500
K4153S	58 50 5	154 43 50	1.0	1.00	5.0	.30	1,000	N	N	N	15	500
K4154S	58 48 30	154 42 27	1.5	1.50	5.0	.50	500	N	N	N	<10	200
K4155S	58 49 58	154 50 45	1.0	1.50	10.0	.70	1,500	.5	N	N	10	200
K4156S	58 48 23	154 48 52	1.5	2.00	3.0	.30	1,000	N	N	N	10	500
K4157S	58 46 20	154 47 53	1.0	1.50	5.0	.70	1,500	N	N	N	10	300
K4158S	58 46 58	154 52 54	1.5	2.00	5.0	.50	1,500	N	N	N	15	500
K4159S	58 45 50	154 58 11	2.0	2.00	5.0	.50	1,500	N	N	N	10	500
K4160S	58 48 30	154 59 40	.7	1.00	2.0	.30	1,000	N	N	N	20	500
K4161S	58 51 37	154 9 38	1.5	1.50	5.0	.30	1,000	N	N	N	15	300
K4162S	59 1 28	154 7 9	.7	1.00	3.0	.20	700	N	N	N	10	300
K4163S	58 57 18	154 9 13	1.0	1.50	3.0	.30	1,000	N	N	N	20	500
K4164S	59 0 32	154 5 20	1.0	1.50	3.0	.20	1,000	N	N	N	20	500
K4165S	58 59 37	153 53 57	1.5	1.50	3.0	.30	700	N	N	N	20	300
K4165SD	58 59 37	153 53 57	1.5	2.00	5.0	.50	1,000	N	N	N	20	300
K4166S	58 45 0	154 0 34	1.5	1.50	7.0	.70	2,000	50.0	N	200	50	700
K4167S	58 46 36	154 3 58	1.5	1.50	5.0	.30	1,000	<.5	N	N	30	500
K4168S	58 44 0	153 52 54	2.0	3.00	10.0	.70	2,000	<.5	N	N	20	500
K4169S	58 43 52	153 54 51	1.5	.50	5.0	.50	2,000	1.0	<200.0	N	70	700
K4170S	58 46 3	154 7 0	1.5	2.00	5.0	.50	1,000	N	N	N	20	500
K4171S	58 50 41	154 0 59	2.0	5.00	5.0	.70	1,500	N	N	N	50	500
K4172S	58 48 38	154 7 1	1.5	2.00	3.0	.30	1,000	<.5	N	N	20	500
K4173S	58 47 20	154 15 30	1.5	2.00	5.0	.50	1,000	N	N	N	50	500
K4174S	58 44 3	154 16 0	2.0	3.00	5.0	.70	1,500	<.5	N	N	50	700
K4175S	58 40 33	154 27 14	1.5	2.00	5.0	.50	1,000	N	N	N	50	500
K4176S	58 44 20	154 22 25	1.0	2.00	3.0	.70	1,000	N	N	N	50	500
K4177S	58 56 55	154 58 4	2.0	2.00	7.0	.70	1,500	<.5	N	N	300	700
K4178S	58 56 40	154 45 30	2.0	2.00	5.0	.70	2,000	N	N	N	20	500
K4179S	58 56 42	154 45 42	3.0	1.50	5.0	.50	1,000	N	N	N	<10	700
K4180S	58 39 50	154 18 52	1.5	2.00	5.0	.50	1,000	N	N	N	50	700
K4180SD	58 39 50	154 18 52	2.0	2.00	5.0	.50	1,000	<.5	N	N	50	700
K4181S	58 41 20	154 18 30	1.5	2.00	3.0	.30	1,000	<.5	N	N	30	700
K4182S	58 45 37	154 21 12	1.5	2.00	3.0	.50	1,000	N	N	N	20	500
K4183S	58 49 12	154 18 40	1.0	1.50	3.0	.30	1,000	N	N	N	15	300
K4184S	58 47 28	154 27 36	1.0	1.50	3.0	.30	1,000	N	N	N	20	500
K4185S	58 49 10	154 26 50	1.5	1.50	10.0	.70	2,000	N	N	N	20	500
K4186S	58 50 0	154 32 10	2.0	2.00	7.0	.70	1,500	N	N	N	10	500
K4187S	58 52 10	154 21 35	.7	2.00	3.0	.50	1,000	N	N	N	10	500
K4188S	58 58 52	154 17 6	2.0	2.00	5.0	.50	2,000	N	N	N	20	300
K4189S	58 51 55	154 13 12	.7	1.50	3.0	.30	1,500	N	N	N	10	500
K4190S	58 53 49	154 18 24	1.0	1.50	3.0	.50	1,000	N	N	N	10	300
K4191S	58 59 8	154 23 40	1.5	3.00	5.0	.70	2,000	N	N	N	10	500
K4192S	58 55 45	154 26 48	1.0	1.50	5.0	.50	1,500	N	N	N	10	500
K4193S	58 55 50	154 26 36	1.0	2.00	5.0	.50	1,500	N	N	N	<10	500
K4194S	58 54 8	154 36 30	1.5	2.00	10.0	.50	2,000	N	N	N	15	500
K4195S	58 53 20	154 36 5	1.5	1.50	7.0	.70	1,500	N	N	N	<10	500
K4196S	58 50 28	155 8 30	1.0	2.00	7.0	.70	1,500	N	N	N	20	500
K4197S	58 58 29	154 58 48	1.0	1.50	5.0	.30	2,000	<.5	N	N	200	700
K4197SD	58 58 29	154 58 48	1.5	1.00	20.0	.50	2,000	<.5	N	N	200	700
K4198S	58 57 47	154 38 22	1.0	2.00	7.0	.70	1,500	N	N	N	200	300
K4199S	58 59 2	154 39 4	2.0	2.00	5.0	.70	2,000	N	N	N	10	300
K4200S	58 50 49	154 36 0	1.0	2.00	5.0	.50	1,500	N	N	N	20	500
K4201S	58 52 19	154 58 22	1.5	1.50	3.0	.30	1,500	<.5	N	N	150	700

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K4145S	1.0	N	N	20	150	30	N	N	N	30	20
K4146S	1.0	N	N	20	50	20	N	N	N	20	15
K4147S	1.0	N	N	30	100	50	N	N	N	30	20
K4148S	1.0	N	N	30	20	50	N	<5	N	15	<10
K4149S	1.0	N	N	20	100	30	N	N	N	50	20
K4150S	1.0	N	N	15	70	15	N	N	N	20	10
K4151S	1.0	N	N	10	10	30	N	<5	N	10	20
K4152S	1.0	N	N	20	20	30	N	N	N	10	50
K4153S	1.0	N	N	15	30	50	N	<5	N	10	20
K4154S	N	N	N	20	50	200	N	N	N	15	10
K4155S	N	N	N	15	70	50	N	N	N	20	50
K4156S	1.0	N	N	20	30	200	N	<5	N	20	20
K4157S	<1.0	N	N	15	20	15	N	N	N	10	<10
K4158S	1.0	N	N	20	10	30	N	N	N	10	10
K4159S	<1.0	N	N	30	70	50	N	N	N	20	10
K4160S	1.0	N	N	10	<10	30	N	<5	N	N	15
K4161S	<1.0	N	N	15	50	20	N	N	N	30	<10
K4162S	<1.0	N	N	10	50	15	N	N	N	15	<10
K4163S	<1.0	N	N	15	50	10	N	N	N	20	<10
K4164S	<1.0	N	N	15	70	15	N	N	N	20	<10
K4165S	<1.0	N	N	20	50	20	N	N	N	20	<10
K4165SD	N	N	N	15	50	15	N	N	N	20	<10
K4166S	N	N	N	70	50	300	N	N	N	20	20
K4167S	<1.0	N	N	20	50	30	N	N	N	20	15
K4168S	N	N	N	70	200	100	N	N	N	30	30
K4169S	1.0	N	N	50	70	70	N	N	N	30	70
K4170S	N	N	N	20	150	20	N	N	N	30	<10
K4171S	N	N	N	20	300	50	N	N	N	30	15
K4172S	<1.0	N	N	20	70	20	N	N	N	20	10
K4173S	N	N	N	20	70	20	N	N	N	20	10
K4174S	<1.0	N	N	50	100	50	N	N	N	20	10
K4175S	<1.0	N	N	30	70	50	N	N	N	20	10
K4176S	1.0	N	N	20	70	50	N	N	N	30	10
K4177S	<1.0	N	N	30	100	200	N	10	N	20	50
K4178S	<1.0	N	N	30	100	50	N	<5	N	20	10
K4179S	N	N	N	15	200	150	N	<5	N	20	50
K4180S	<1.0	N	N	20	70	50	N	N	N	20	10
K4180SD	<1.0	N	N	20	100	70	N	N	N	30	15
K4181S	<1.0	N	N	15	50	50	N	N	N	20	10
K4182S	1.0	N	N	15	30	30	N	N	N	20	10
K4183S	<1.0	N	N	10	50	10	N	N	N	20	<10
K4184S	<1.0	N	N	15	50	20	N	N	N	20	<10
K4185S	N	N	N	30	30	50	N	N	N	10	10
K4186S	N	N	N	50	50	70	N	N	N	20	15
K4187S	<1.0	N	N	10	30	15	N	N	N	15	N
K4188S	N	N	N	30	100	50	N	N	N	30	<10
K4189S	1.0	N	N	10	30	15	N	N	N	10	<10
K4190S	<1.0	N	N	20	70	30	N	N	N	20	10
K4191S	N	N	N	50	100	50	N	N	N	30	<10
K4192S	<1.0	N	N	15	50	20	N	N	N	20	10
K4193S	N	N	N	30	30	20	N	N	N	15	10
K4194S	<1.0	N	N	30	50	70	N	N	N	15	30
K4195S	<1.0	N	N	30	50	50	N	<5	N	10	10
K4196S	N	N	N	15	50	20	N	N	N	7	10
K4197S	<1.0	N	N	20	70	150	N	<5	N	15	50
K4197SD	N	N	N	30	150	200	50	<5	N	20	50
K4198S	N	N	N	20	20	50	N	N	N	5	<10
K4199S	<1.0	N	N	30	30	15	N	N	N	10	15
K4200S	<1.0	N	N	15	15	20	N	5	N	7	<10
K4201S	1.0	N	N	30	30	100	N	<5	N	20	20

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K4145S	N	20	N	500	200	N	20	N	700	N
K4146S	N	20	N	500	100	N	15	N	70	N
K4147S	N	20	N	300	150	N	20	N	100	N
K4148S	N	15	N	500	200	N	15	N	70	N
K4149S	N	15	N	300	150	N	15	N	70	N
K4150S	N	15	N	300	100	N	15	N	100	N
K4151S	N	10	N	300	100	N	15	N	70	N
K4152S	N	20	N	200	200	N	20	<200	100	N
K4153S	N	15	N	200	200	N	20	N	100	N
K4154S	N	30	N	200	200	N	20	<200	70	N
K4155S	N	20	N	200	300	N	20	200	150	N
K4156S	N	20	N	500	100	N	30	N	100	N
K4157S	N	20	N	200	150	N	20	<200	70	N
K4158S	N	20	N	300	200	N	20	N	70	N
K4159S	N	20	N	300	150	N	20	N	100	N
K4160S	N	10	N	200	100	N	30	N	100	N
K4161S	N	20	N	300	150	N	15	N	70	N
K4162S	N	15	N	200	100	N	15	N	70	N
K4163S	N	15	N	300	150	N	20	N	70	N
K4164S	N	20	N	300	150	N	15	N	50	N
K4165S	N	20	N	300	150	N	15	N	50	N
K4165SD	N	20	N	500	150	N	15	N	70	N
K4166S	N	20	N	500	200	N	30	300	70	N
K4167S	N	20	N	300	150	N	20	N	70	N
K4168S	N	30	N	500	200	N	20	<200	70	N
K4169S	N	15	N	150	150	N	20	500	100	N
K4170S	N	20	N	300	150	N	20	N	150	N
K4171S	N	20	N	500	200	N	20	N	200	N
K4172S	N	20	N	300	150	N	15	N	50	N
K4173S	N	20	N	500	150	N	20	N	50	N
K4174S	N	20	N	500	150	N	20	<200	70	N
K4175S	N	20	N	500	150	N	20	<200	100	N
K4176S	N	20	N	300	200	N	20	N	70	N
K4177S	N	20	N	500	150	N	20	<200	100	N
K4178S	N	30	N	500	200	N	30	<200	150	N
K4179S	N	30	N	300	200	N	30	N	200	N
K4180S	N	20	N	300	150	N	20	<200	100	N
K4180SD	N	20	N	300	150	N	20	N	100	N
K4181S	N	20	N	300	150	N	20	N	100	N
K4182S	N	20	N	300	150	N	20	N	100	N
K4183S	N	15	N	200	10	N	15	N	100	N
K4184S	N	15	N	300	100	N	15	N	70	N
K4185S	N	30	N	100	300	N	30	<200	70	N
K4186S	N	30	N	300	200	N	30	N	100	N
K4187S	N	15	N	300	100	N	20	N	50	N
K4188S	500	20	N	200	200	N	20	N	100	N
K4189S	N	15	N	200	100	N	20	N	>1,000	N
K4190S	N	20	N	200	150	N	20	N	70	N
K4191S	N	30	N	300	200	N	30	N	150	N
K4192S	N	20	N	150	150	N	20	N	70	N
K4193S	N	20	N	300	150	N	30	<200	100	N
K4194S	N	20	N	200	300	N	30	N	150	N
K4195S	N	15	N	200	200	N	30	N	100	N
K4196S	N	20	N	300	200	N	20	<200	150	N
K4197S	N	10	N	300	150	N	30	200	100	N
K4197SD	N	15	N	300	200	N	15	300	100	N
K4198S	N	30	N	200	300	N	30	<200	100	N
K4199S	N	30	N	300	200	N	50	N	200	N
K4200S	N	15	N	300	200	N	20	N	100	N
K4201S	N	20	N	300	150	N	20	<200	100	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K4202S	58 54 18	154 54 47	1.5	2.00	5.0	.50	2,000	.5	N	N	30	500
K4500S	58 37 59	154 53 58	1.5	2.00	3.0	.70	2,000	.5	N	N	20	500
K4501S	58 39 12	154 56 5	2.0	2.00	7.0	.70	2,000	N	N	N	10	500
K4502S	58 41 55	154 53 11	1.0	1.50	5.0	.30	2,000	N	N	N	15	500
K4503S	58 44 22	154 45 5	2.0	2.00	7.0	1.00	2,000	N	N	N	10	300
K4504S	58 40 16	154 42 6	1.0	2.00	5.0	.70	1,500	N	N	N	30	500
K4505S	58 32 40	154 25 25	1.0	2.00	7.0	1.00	3,000	N	N	N	10	500
K4506S	58 38 18	154 38 32	2.0	2.00	5.0	.50	1,000	<.5	N	N	30	500
K4507S	58 39 2	154 38 52	1.5	1.50	3.0	.50	1,000	N	N	N	20	500
K4508S	58 44 30	154 34 55	2.0	2.00	5.0	.50	1,500	N	N	N	15	500
K4509S	58 42 9	154 27 18	2.0	1.50	5.0	.50	1,000	N	N	N	50	700
K4510S	58 43 55	154 8 20	5.0	2.00	5.0	.70	2,000	N	N	N	20	200
K4511S	58 41 52	154 2 43	1.5	1.00	5.0	.30	1,000	N	N	N	50	500
K4512S	58 41 55	154 3 0	1.5	1.50	3.0	.30	1,000	N	N	N	50	500
K4513S	58 38 22	153 53 55	1.5	2.00	7.0	.70	1,500	.5	N	N	100	300
K4514S	58 39 54	153 46 25	1.5	2.00	5.0	.70	1,500	N	<200.0	N	150	500
K4515S	58 42 45	153 39 0	2.0	3.00	5.0	.70	1,500	N	N	N	10	300
K4516S	58 41 27	153 36 40	1.0	1.00	3.0	.50	2,000	1.0	<200.0	N	700	300
K4517S	58 41 50	153 33 41	.7	1.00	2.0	.30	1,000	N	<200.0	N	300	200
K4518S	58 43 50	153 30 53	1.0	2.00	7.0	1.00	1,500	N	N	N	150	300
K4519S	58 48 20	153 26 50	3.0	2.00	5.0	.50	2,000	N	<200.0	N	200	300
K4520S	58 56 43	153 23 52	3.0	2.00	5.0	.50	1,500	<.5	N	N	100	300
K4520SD	58 56 43	153 23 52	2.0	2.00	5.0	.50	1,500	N	N	N	200	300
K4521S	58 51 26	153 23 30	3.0	2.00	5.0	.70	1,500	N	N	N	150	300
K4522S	58 49 22	153 23 6	2.0	2.00	5.0	.70	1,500	N	N	N	100	200
K4523S	58 46 4	153 23 56	3.0	2.00	10.0	1.00	>5,000	N	N	N	20	500
K4524S	58 17 7	154 30 30	2.0	2.00	5.0	.50	2,000	N	N	N	20	300
K4525S	58 28 43	154 13 12	3.0	3.00	5.0	.50	1,500	N	N	N	15	300
K4526S	58 32 13	153 57 13	2.0	2.00	10.0	1.00	2,000	N	N	N	10	300
K4527S	58 57 26	153 30 17	1.0	1.50	3.0	.30	700	N	N	N	20	500
K4528S	58 56 2	153 36 54	3.0	2.00	5.0	.50	1,000	N	N	N	50	500
K4529S	58 56 33	153 41 38	5.0	2.00	7.0	.50	1,000	3.0	N	N	20	500
K4530S	58 53 37	153 45 9	2.0	2.00	5.0	.50	1,500	N	N	N	30	300
K4531S	59 2 52	154 5 40	1.0	1.50	2.0	.20	1,000	N	N	N	10	500
K4532S	59 3 30	153 52 56	.7	1.50	2.0	.20	700	N	N	N	10	500
K4533S	58 57 34	153 49 45	1.0	1.50	5.0	.20	1,000	N	N	N	20	500
K4534S	58 58 32	153 51 5	1.0	1.50	2.0	.20	1,000	N	N	N	30	500
K4535S	58 55 59	153 54 22	1.0	1.50	3.0	.20	1,000	N	N	N	50	500
K4536S	58 51 25	153 58 20	1.5	2.00	5.0	.50	500	N	N	N	100	500
K4536SD	58 51 25	153 58 20	1.5	2.00	5.0	.70	1,000	N	N	N	100	500
K4537S	58 47 20	153 48 20	3.0	2.00	3.0	.30	1,500	N	N	N	30	300
K4538S	58 47 7	153 48 40	1.0	1.50	3.0	.70	1,000	N	N	N	50	500
K4539S	58 47 16	153 49 10	1.5	2.00	5.0	.70	1,500	N	N	N	10	500
K4540S	58 51 3	153 51 6	1.0	1.00	2.0	.30	1,000	N	N	N	100	700
K4541S	58 52 16	153 50 41	1.5	1.00	3.0	.30	1,000	N	N	N	70	700
K4542S	58 56 35	153 46 16	1.0	1.50	2.0	.30	1,000	N	N	N	50	500
K4543S	58 55 50	154 50 57	1.0	2.00	3.0	.20	1,000	N	N	N	20	700
K4544S	58 52 53	154 46 4	1.5	1.50	5.0	.30	700	N	N	N	20	300
K4545S	58 51 5	154 43 25	1.5	2.00	5.0	.30	1,500	N	N	N	10	500
K4546S	58 54 7	154 51 30	.7	1.00	3.0	.50	1,000	<.5	N	N	50	300
K4547S	58 51 37	154 51 32	1.5	2.00	10.0	.50	2,000	.5	N	N	30	500
K4548S	58 51 11	154 51 0	2.0	2.00	5.0	.30	1,500	.5	N	N	50	500
K4549S	58 50 34	154 51 30	.7	1.00	3.0	.30	1,000	<.5	N	N	15	300
K4550S	58 47 10	154 47 17	2.0	2.00	7.0	.70	2,000	N	N	N	10	300
K4551S	58 45 21	154 42 8	2.0	3.00	10.0	1.00	2,000	N	N	N	10	300
K4552S	58 45 43	154 52 30	1.5	1.50	5.0	.50	700	N	N	N	10	500
K4553S	58 45 37	154 52 0	1.5	1.50	5.0	.50	1,500	N	N	N	10	500
K4554S	58 45 48	155 0 45	1.5	1.50	5.0	.50	1,000	N	N	N	10	300
K4555S	58 49 26	154 57 49	1.0	1.50	3.0	.30	1,000	N	N	N	10	500
K4556S	58 49 42	154 8 55	1.0	1.00	3.0	.30	1,500	N	N	N	10	300

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K4202S	<1.0	N	N	20	30	100	N	10	N	7	70
K4500S	1.0	N	N	50	20	15	N	N	N	10	<10
K4501S	N	N	N	50	50	20	N	N	N	15	10
K4502S	<1.0	N	N	20	20	15	N	N	N	10	<10
K4503S	N	N	N	50	50	30	N	N	N	15	10
K4504S	<1.0	N	N	20	20	15	N	N	N	10	<10
K4505S	<1.0	N	N	30	70	10	N	N	N	10	<10
K4506S	<1.0	N	N	15	50	30	N	N	N	20	15
K4507S	1.0	N	N	20	50	20	N	N	N	15	10
K4508S	1.0	N	N	50	30	20	N	N	N	20	<10
K4509S	<1.0	N	N	20	100	50	N	N	N	30	10
K4510S	N	N	N	70	200	70	N	N	N	100	<10
K4511S	1.0	N	N	15	70	50	N	N	N	30	20
K4512S	1.0	N	N	15	20	30	N	N	N	20	10
K4513S	<1.0	N	N	30	70	200	N	7	N	20	<10
K4514S	<1.0	N	N	10	70	50	N	N	N	20	30
K4515S	N	N	N	20	70	70	N	<5	N	30	10
K4516S	<1.0	N	N	30	50	30	N	N	N	20	30
K4517S	1.0	N	N	30	50	50	N	<5	N	20	20
K4518S	<1.0	N	N	20	70	50	N	N	N	20	10
K4519S	<1.0	N	N	50	100	50	N	N	N	50	10
K4520S	<1.0	N	N	50	70	50	N	N	N	30	20
K4520SD	<1.0	N	N	50	100	50	N	<5	N	30	15
K4521S	N	N	N	50	50	20	N	N	N	30	<10
K4522S	<1.0	N	N	50	70	50	N	N	N	30	<10
K4523S	N	N	N	100	200	200	N	20	N	50	10
K4524S	<1.0	N	N	30	70	30	N	<5	N	20	10
K4525S	N	N	N	50	70	50	N	<5	N	20	<10
K4526S	N	N	N	70	30	20	N	N	N	15	10
K4527S	<1.0	N	N	10	30	30	N	<5	N	20	<10
K4528S	<1.0	N	N	50	300	50	N	N	N	50	10
K4529S	<1.0	N	N	70	200	50	N	N	N	50	10
K4530S	<1.0	N	N	50	100	70	N	N	N	30	15
K4531S	1.0	N	N	10	30	15	N	N	N	15	<10
K4532S	1.0	N	N	10	30	10	N	N	N	15	<10
K4533S	1.0	N	N	10	50	15	N	N	N	20	<10
K4534S	1.0	N	N	10	70	15	N	N	N	15	<10
K4535S	1.0	N	N	10	30	15	N	N	N	15	10
K4536S	1.0	N	N	20	70	50	N	N	N	30	20
K4536SD	1.5	N	N	20	200	50	N	N	N	50	20
K4537S	<1.0	N	N	50	100	50	N	N	N	30	10
K4538S	1.0	N	N	15	20	15	N	<5	N	10	10
K4539S	1.0	N	N	30	50	30	N	<5	N	20	15
K4540S	1.0	N	N	15	200	20	N	N	N	30	15
K4541S	1.0	N	N	20	100	20	N	N	N	30	10
K4542S	1.0	N	N	10	50	15	N	N	N	15	<10
K4543S	1.0	N	N	10	30	100	N	<5	N	15	20
K4544S	<1.0	N	N	15	70	70	N	<5	N	20	20
K4545S	1.0	N	N	20	20	50	N	5	N	15	15
K4546S	1.0	N	N	10	20	100	N	<5	N	7	50
K4547S	<1.0	N	N	20	30	20	N	N	N	15	50
K4548S	<1.0	N	N	20	30	30	N	<5	N	15	70
K4549S	1.0	N	N	10	30	70	N	20	N	10	30
K4550S	N	N	N	50	20	50	N	N	N	15	10
K4551S	N	N	N	50	20	20	N	N	N	10	<10
K4552S	<1.0	N	N	20	15	20	N	N	N	10	10
K4553S	<1.0	N	N	20	70	15	N	N	N	10	10
K4554S	<1.0	N	N	30	50	20	N	<5	N	15	10
K4555S	1.0	N	N	10	10	30	N	N	N	7	10
K4556S	<1.0	N	N	15	50	20	N	N	N	20	<10

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K4202S	N	20	N	300	150	N	30	200	70	N
K4500S	N	30	N	500	200	N	30	N	70	N
K4501S	N	30	N	200	300	N	30	200	70	N
K4502S	N	20	N	300	150	N	20	N	100	N
K4503S	N	30	N	200	300	N	20	<200	200	N
K4504S	N	20	N	300	200	N	20	N	70	N
K4505S	N	30	N	200	300	N	30	<200	500	N
K4506S	N	20	N	300	200	N	15	N	70	N
K4507S	N	20	N	200	100	N	20	N	70	N
K4508S	N	30	N	300	200	N	30	<200	100	N
K4509S	N	20	N	300	200	N	20	<200	100	N
K4510S	N	30	N	200	500	N	15	200	100	N
K4511S	N	20	N	200	100	N	20	N	50	N
K4512S	N	15	N	300	150	N	15	<200	100	N
K4513S	N	20	N	500	300	N	20	<200	70	N
K4514S	N	20	N	200	300	N	30	N	150	N
K4515S	N	20	N	300	300	N	30	<200	100	N
K4516S	N	15	N	300	200	N	20	300	50	N
K4517S	N	15	N	150	100	N	20	<200	70	N
K4518S	N	20	N	300	300	N	30	N	200	N
K4519S	N	30	N	300	200	N	20	<200	70	N
K4520S	N	20	N	300	100	N	20	<200	50	N
K4520SD	N	20	N	300	150	N	20	N	200	N
K4521S	N	30	N	200	150	N	20	N	70	N
K4522S	N	20	N	200	150	N	20	<200	70	N
K4523S	N	30	N	200	300	N	30	<200	70	N
K4524S	N	20	N	500	150	N	20	N	70	N
K4525S	N	30	N	300	200	N	20	N	70	N
K4526S	N	30	N	200	700	N	20	300	70	N
K4527S	N	15	N	200	150	N	15	N	70	N
K4528S	N	20	N	200	200	N	15	<200	100	N
K4529S	N	30	N	300	200	N	15	N	70	N
K4530S	N	20	N	300	200	N	15	<200	100	N
K4531S	N	15	N	300	100	N	10	N	70	N
K4532S	N	10	N	300	70	N	10	N	70	N
K4533S	N	15	N	300	100	N	10	N	100	N
K4534S	N	10	N	300	100	N	10	N	50	N
K4535S	N	10	N	500	100	N	10	N	50	N
K4536S	N	15	N	300	150	N	15	N	150	N
K4536SD	N	20	N	500	150	N	20	N	500	N
K4537S	N	20	N	300	200	N	20	<200	70	N
K4538S	N	15	N	300	100	N	30	N	200	N
K4539S	N	20	N	500	200	N	30	N	150	N
K4540S	N	15	N	300	100	N	15	<200	100	N
K4541S	N	15	N	300	100	N	20	N	70	N
K4542S	N	15	N	200	100	N	15	N	50	N
K4543S	N	15	N	500	150	N	20	N	70	N
K4544S	N	20	N	200	200	N	20	<200	70	N
K4545S	N	15	N	300	200	N	20	N	100	N
K4546S	N	20	N	200	100	N	20	<200	70	N
K4547S	N	20	N	200	300	N	20	200	70	N
K4548S	N	20	N	200	200	N	20	<200	70	N
K4549S	N	10	N	200	100	N	15	N	100	N
K4550S	N	30	N	300	300	N	20	<200	100	N
K4551S	N	50	N	200	300	N	30	200	50	N
K4552S	N	20	N	200	150	N	20	N	100	N
K4553S	N	20	N	200	150	N	20	<200	70	N
K4554S	N	20	N	300	200	N	20	<200	70	N
K4555S	N	15	N	300	100	N	20	N	100	N
K4556S	N	20	N	200	150	N	15	N	50	N

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K4557S	58 50 28	154 5 57	1.5	1.50	5.0	.30	700	N	N	N	15	300
K4558S	58 55 40	154 9 50	1.0	1.00	2.0	.20	1,000	N	N	N	20	300
K4558SD	58 55 40	154 9 50	1.5	2.00	3.0	.30	1,000	N	N	N	15	500
K4559S	58 58 58	154 5 23	2.0	2.00	5.0	.50	1,000	N	N	N	15	500
K4560S	58 58 50	154 5 34	1.5	2.00	3.0	.30	1,000	N	<200.0	N	20	500
K4561S	58 59 27	153 54 0	1.5	1.50	5.0	.30	700	N	N	N	20	300
K4562S	58 44 35	153 58 42	2.0	1.50	10.0	.70	1,500	.5	200.0	N	100	1,000
K4563S	58 44 8	153 52 41	1.0	1.50	5.0	.70	1,500	N	N	N	<10	500
K4564S	58 44 41	153 57 19	2.0	1.00	5.0	.70	1,000	N	N	N	150	700
K4565S	58 47 18	154 6 59	2.0	2.00	5.0	.50	1,500	2.0	N	N	30	500
K4566S	58 51 0	153 59 5	.7	10.00	1.0	.30	500	N	N	N	70	300
K4567S	58 48 2	154 6 9	1.0	2.00	5.0	.50	1,000	N	N	N	100	700
K4568S	58 50 12	154 15 50	1.5	2.00	5.0	.50	1,500	N	N	N	10	500
K4569S	58 45 30	154 16 20	1.5	2.00	3.0	.30	1,000	N	N	N	50	700
K4570S	58 45 42	154 16 20	1.5	2.00	5.0	.50	1,000	N	N	N	50	700
K4571S	58 40 48	154 23 0	1.5	1.50	3.0	.50	1,000	N	N	N	30	700
K4572S	58 41 29	154 23 47	1.5	2.00	5.0	.70	1,500	<.5	N	N	70	700
K4573S	58 57 36	154 45 55	2.0	2.00	10.0	.70	1,500	2.0	N	N	30	500
K4574S	58 56 32	154 45 50	1.5	1.50	5.0	.50	1,000	N	N	N	50	500
K4575S	58 39 45	154 17 44	2.0	2.00	5.0	.50	1,500	<.5	N	N	50	700
K4576S	58 39 3	154 17 32	2.0	1.50	5.0	.30	1,000	<.5	N	N	50	700
K4577S	58 44 20	154 20 50	1.5	1.50	5.0	.50	1,000	N	N	N	50	700
K4578S	58 45 42	154 19 38	2.0	1.50	5.0	.50	1,500	N	N	N	50	700
K4579S	58 46 57	154 29 7	2.0	2.00	5.0	.70	2,000	N	N	N	10	500
K4579SD	58 46 57	154 29 7	1.0	2.00	3.0	.30	1,000	N	N	N	<10	700
K4580S	58 47 55	154 25 52	1.5	1.50	5.0	.50	1,000	N	N	N	20	700
K4581S	58 50 6	154 32 27	1.5	2.00	10.0	1.00	2,000	N	N	N	N	300
K4582S	58 52 25	154 22 59	2.0	2.00	7.0	.70	2,000	N	N	N	15	500
K4583S	58 55 30	154 18 50	1.5	1.50	3.0	.50	1,500	N	N	N	15	500
K4584S	58 53 4	154 13 15	.7	1.50	2.0	.20	700	N	N	N	<10	500
K4585S	58 57 35	154 13 35	1.0	1.50	5.0	.50	2,000	N	N	N	50	500
K4586S	58 58 35	154 17 17	1.5	2.00	3.0	.50	1,500	N	N	N	<10	300
K4587S	58 55 52	154 17 25	1.0	1.50	5.0	.30	2,000	N	N	N	10	500
K4588S	58 57 22	154 27 47	1.5	1.50	5.0	.50	1,500	N	N	N	10	500
K4589S	58 53 42	154 37 28	1.0	2.00	7.0	.50	1,500	N	N	N	10	500
K4590S	58 53 32	154 37 56	2.0	2.00	5.0	.50	1,500	N	N	N	<10	200
K4591S	58 59 37	155 1 42	.7	1.50	15.0	.70	1,500	N	N	N	500	500
K4592S	58 55 28	154 56 10	1.0	1.50	3.0	.30	1,500	N	N	N	100	500
K4593S	58 56 46	154 39 50	.7	1.50	3.0	.30	1,000	N	N	N	100	500
K4594S	58 56 48	154 39 59	1.0	2.00	20.0	1.00	2,000	N	N	N	N	150
K4595S	58 57 28	154 39 47	1.0	2.00	5.0	.50	1,500	N	N	N	10	500
K4596S	58 53 22	154 39 14	1.0	1.50	10.0	.50	1,000	<.5	N	N	10	300
K4596SD	58 53 22	154 39 14	1.5	1.50	5.0	.30	1,500	<.5	N	N	10	500
K4597S	58 50 32	154 58 16	1.5	.70	10.0	.30	1,500	N	N	N	500	300
K4598S	58 57 52	156 1 8	1.0	1.50	2.0	.50	1,000	N	N	N	10	500
K4599S	58 59 59	154 56 27	1.0	1.50	2.0	.30	1,000	N	N	N	50	500
K4600S	58 53 3	154 56 33	1.0	1.50	5.0	.30	1,500	<.5	N	N	20	500

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K4557S	<1.0	N	N	20	50	20	20	N	N	20	10
K4558S	<1.0	N	N	10	50	15	N	N	N	20	<10
K4558SD	<1.0	N	N	10	30	15	N	N	N	20	<10
K4559S	<1.0	N	N	20	100	20	N	N	N	20	10
K4560S	1.0	N	N	15	70	20	N	N	N	20	<10
K4561S	<1.0	N	N	20	70	30	N	N	N	20	10
K4562S	1.0	N	N	50	500	150	N	N	N	30	50
K4563S	N	N	N	20	100	150	N	N	N	15	<10
K4564S	1.0	N	N	30	100	50	N	N	N	50	20
K4565S	N	N	N	30	70	30	N	N	N	20	15
K4566S	<1.0	N	N	7	30	20	N	N	N	15	15
K4567S	<1.0	N	N	20	100	20	N	N	N	20	10
K4568S	<1.0	N	N	20	70	20	N	N	N	20	<10
K4569S	<1.0	N	N	30	150	30	N	N	N	20	10
K4570S	<1.0	N	N	20	70	50	N	N	N	20	10
K4571S	1.0	N	N	15	70	50	N	N	N	20	10
K4572S	N	N	N	70	100	50	N	N	N	30	10
K4573S	N	N	N	50	200	200	N	10	N	30	30
K4574S	N	N	N	20	100	100	N	10	N	20	20
K4575S	<1.0	N	N	30	100	70	N	N	N	30	15
K4576S	<1.0	N	N	20	100	70	N	N	N	20	20
K4577S	<1.0	N	N	10	50	30	N	N	N	20	10
K4578S	<1.0	N	N	30	50	50	N	N	N	20	10
K4579S	N	N	N	50	20	30	N	N	N	10	<10
K4579SD	<1.0	N	N	10	30	10	N	N	N	10	<10
K4580S	<1.0	N	N	20	30	20	N	N	N	15	<10
K4581S	N	N	N	70	50	30	N	N	N	15	15
K4582S	N	N	N	50	100	50	N	N	N	30	<10
K4583S	N	N	N	20	100	30	20	N	N	30	10
K4584S	1.0	N	N	7	15	10	N	10	N	7	20
K4585S	<1.0	N	N	20	70	15	N	N	N	20	<10
K4586S	<1.0	N	N	30	100	50	20	N	N	30	<10
K4587S	1.0	N	N	30	50	20	N	N	N	20	10
K4588S	N	N	N	20	50	50	N	N	N	15	10
K4589S	<1.0	N	N	20	50	50	N	7	N	10	20
K4590S	N	N	N	15	70	50	N	N	N	20	10
K4591S	1.0	N	N	50	200	50	N	N	N	30	20
K4592S	1.0	N	N	15	50	300	N	<5	N	20	20
K4593S	<1.0	N	N	15	20	20	N	N	N	10	20
K4594S	N	N	N	50	200	30	N	N	N	30	<10
K4595S	N	N	N	15	50	50	N	<5	N	10	20
K4596S	<1.0	N	N	20	100	200	N	10	N	20	20
K4596SD	<1.0	N	N	20	30	300	N	15	N	15	15
K4597S	N	N	N	20	50	300	N	30	N	7	50
K4598S	N	N	N	15	50	10	N	<5	N	10	10
K4599S	1.0	N	N	15	30	70	N	N	N	10	20
K4600S	<1.0	N	N	20	20	50	N	<5	N	7	30

Table 2. Analyses of stream-sediment samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K4557S	N	20	N	300	150	N	15	N	70	N
K4558S	N	15	N	200	150	N	15	N	70	N
K4558SD	N	15	N	500	150	N	15	N	100	N
K4559S	N	30	N	500	200	N	20	N	100	N
K4560S	N	15	N	300	150	N	15	N	100	N
K4561S	N	20	N	300	150	N	15	N	70	N
K4562S	N	20	N	300	200	N	20	500	200	N
K4563S	N	20	N	300	300	N	20	<200	70	N
K4564S	N	20	N	300	200	N	20	<200	150	N
K4565S	N	20	N	300	200	N	20	200	50	N
K4566S	N	10	N	500	100	N	15	N	50	N
K4567S	N	15	N	700	150	N	15	N	100	N
K4568S	N	20	N	300	150	N	30	N	70	N
K4569S	N	20	N	500	150	N	20	N	70	N
K4570S	N	20	N	500	150	N	20	N	70	N
K4571S	N	20	N	500	150	N	20	N	70	N
K4572S	N	20	N	500	200	N	20	<200	50	N
K4573S	N	20	N	500	200	N	30	<200	70	N
K4574S	N	20	N	200	150	N	20	N	150	N
K4575S	N	30	N	500	150	N	30	N	200	N
K4576S	N	20	N	500	150	N	20	<200	70	N
K4577S	N	20	N	300	200	N	20	N	100	N
K4578S	N	20	N	300	150	N	20	N	70	N
K4579S	N	30	N	300	200	N	20	<200	70	N
K4579SD	N	15	N	300	100	N	30	N	100	N
K4580S	N	15	N	200	150	N	20	N	500	N
K4581S	N	30	N	200	500	N	30	<200	150	N
K4582S	N	30	N	200	200	N	30	N	100	N
K4583S	N	20	N	300	150	N	20	N	70	N
K4584S	N	7	N	100	70	N	10	N	100	N
K4585S	N	15	N	200	100	N	20	N	70	N
K4586S	N	20	N	200	150	N	20	N	100	N
K4587S	N	20	N	300	150	N	20	N	100	N
K4588S	N	20	N	200	200	N	20	N	150	N
K4589S	N	20	N	200	200	N	20	N	100	N
K4590S	N	20	N	200	150	N	20	N	100	N
K4591S	N	20	N	300	500	N	30	<200	1,000	N
K4592S	N	10	N	300	200	N	15	N	100	N
K4593S	N	20	N	100	150	N	20	N	200	N
K4594S	N	30	N	200	700	N	30	<200	>1,000	N
K4595S	N	20	N	300	150	N	20	<200	100	N
K4596S	N	15	N	300	300	N	15	N	100	N
K4596SD	N	20	N	300	150	N	15	N	70	N
K4597S	N	20	N	100	100	N	20	N	150	N
K4598S	N	20	N	300	100	N	20	N	100	N
K4599S	N	15	N	300	150	N	20	N	100	N
K4600S	N	15	N	300	150	N	20	N	70	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska
[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K0001C	58 30 47	153 58 59	1.00	2.00	1.0	1.50	1,500	N	N	N	150	5,000
K0002C	58 29 36	154 2 8	.50	1.50	1.0	2.00	1,000	5.0	700	50	100	2,000
K0003C	58 32 4	154 5 47	1.50	2.00	2.0	1.50	2,000	N	N	N	150	200
K0004C	58 31 2	154 11 26	.70	1.00	5.0	.70	500	10.0	N	N	<20	10,000
K0005C	58 31 54	154 7 55	.50	1.50	2.0	1.00	1,000	<1.0	N	N	150	300
K0005CR1	58 31 54	154 7 55	.50	1.00	1.0	.50	500	N	N	N	200	1,500
K0005CR2	58 31 54	154 7 55	.50	1.00	1.0	.50	700	N	N	N	100	1,000
K0006C	58 32 38	154 14 42	1.00	2.00	1.5	1.50	1,500	N	N	N	50	500
K0007C	58 32 37	154 14 53	1.00	3.00	1.5	2.00	2,000	N	N	N	500	100
K0008C	58 32 9	154 13 39	2.00	3.00	10.0	1.50	2,000	<1.0	N	N	50	2,000
K0009C	58 31 54	154 13 55	.70	1.50	15.0	1.00	500	3.0	1,000	N	3,000	300
K0010C	58 31 29	154 15 59	1.00	1.50	2.0	1.00	1,000	N	N	N	200	1,000
K0011C	58 31 9	154 17 26	1.50	2.00	1.5	1.00	1,500	N	N	N	300	500
K0012C	58 30 52	154 18 27	1.50	3.00	3.0	2.00	2,000	N	N	N	200	1,500
K0013C	58 30 46	154 18 30	3.00	1.50	7.0	1.00	2,000	N	1,500	N	200	5,000
K0014C	58 30 29	154 17 41	.70	2.00	15.0	.50	200	3.0	<500	N	<20	200
K0015C	58 30 50	154 16 10	1.00	1.00	7.0	.70	500	15.0	500	N	100	1,500
K0015CR1	58 30 50	154 16 10	.50	2.00	1.0	.50	500	1.0	N	N	100	1,000
K0015CR2	58 30 50	154 16 10	.30	2.00	2.0	.50	700	1.0	N	N	100	1,000
K0016C	58 30 35	154 13 3	3.00	2.00	2.0	.50	1,500	N	N	N	50	<50
K0017C	58 17 26	154 19 40	2.00	1.50	1.5	.50	1,500	N	N	N	<20	<50
K0018C	58 17 19	154 20 6	.20	.30	20.0	.50	200	<1.0	<500	N	20	1,000
K0019C	58 17 7	154 21 8	2.00	2.00	10.0	.70	2,000	5.0	N	N	20	3,000
K0020C	58 19 24	154 19 40	5.00	2.00	7.0	.50	1,000	<1.0	N	N	20	1,000
K0021C	58 19 57	154 22 16	2.00	1.50	7.0	.50	1,000	1.0	700	N	30	2,000
K0023C	58 1 13	154 50 47	5.00	2.00	5.0	1.50	3,000	N	N	N	50	100
K0024C	58 2 3	154 53 4	1.50	2.00	1.5	1.00	1,000	N	N	N	100	3,000
K0025C	58 5 38	154 52 55	5.00	2.00	10.0	.70	2,000	N	N	N	30	3,000
K0025CR1	58 5 38	154 52 55	.07	5.00	1.5	.20	150	N	N	N	50	1,000
K0025CR2	58 5 38	154 52 55	.10	3.00	2.0	.10	150	N	N	N	20	1,000
K0026C	58 3 34	154 53 26	5.00	2.00	7.0	.70	3,000	N	N	N	300	3,000
K0027C	58 5 31	154 53 2	2.00	1.50	2.0	.30	1,500	1.0	N	N	<20	3,000
K0028C	58 7 57	154 52 23	2.00	2.00	1.5	.50	1,500	1.0	N	N	50	50
K0029C	58 9 20	154 51 8	.20	1.00	15.0	.70	200	5.0	500	N	50	1,000
K0030C	58 9 34	154 52 28	3.00	2.00	3.0	.50	1,500	N	N	N	70	500
K0031C	58 8 8	154 53 12	3.00	2.00	2.0	.30	2,000	N	N	N	20	150
K0032C	58 6 53	154 53 23	5.00	2.00	7.0	1.00	2,000	N	N	N	30	200
K0033C	58 5 35	154 55 11	2.00	1.50	2.0	.50	1,500	1.0	N	N	30	50
K0035C	58 12 22	154 41 28	3.00	1.50	5.0	.50	1,500	1.5	N	N	<20	200
K0035CR1	58 12 22	154 41 28	.07	5.00	2.0	.10	150	<1.0	N	N	50	700
K0035CR2	58 12 22	154 41 28	.10	3.00	3.0	.15	150	N	N	N	20	1,000
K0036C	58 7 22	155 0 26	3.00	1.50	2.0	.30	1,500	N	N	N	20	70
K0037C	58 12 18	154 41 34	2.00	1.50	3.0	.50	1,000	<1.0	N	N	<20	<50
K0038C	58 11 38	154 42 53	5.00	2.00	7.0	.70	3,000	2.0	N	N	<20	100
K0039C	58 11 26	154 43 18	5.00	2.00	10.0	1.00	2,000	N	N	N	20	700
K0040C	58 4 32	154 32 59	3.00	2.00	2.0	.20	2,000	N	N	N	<20	<50
K0041C	58 6 7	154 30 38	1.50	1.00	3.0	1.00	1,000	N	N	N	50	>10,000
K0042C	58 6 44	154 32 45	1.50	1.00	1.5	1.50	700	N	N	N	70	3,000
K0043C	58 6 56	154 34 49	3.00	1.00	10.0	1.00	1,500	N	N	N	20	300
K0044C	58 6 54	154 36 36	2.00	1.50	3.0	.50	1,500	N	N	N	30	3,000
K0045C	58 5 44	154 34 51	3.00	1.50	2.0	.20	2,000	N	N	N	20	<50
K0045CR1	58 5 44	154 34 51	.50	10.00	.7	.20	500	<1.0	N	N	100	1,000
K0045CR2	58 5 44	154 34 51	.20	3.00	.5	.15	300	N	N	N	50	700
K0046C	58 9 8	154 35 27	2.00	5.00	5.0	.50	1,500	1.0	N	N	20	1,500
K0047C	58 10 12	154 34 5	2.00	1.50	15.0	.70	1,000	5.0	500	N	30	700
K0048C	58 10 36	154 34 32	2.00	1.00	7.0	.70	1,000	1.5	<500	N	50	1,000
K0049C	58 10 36	154 34 18	1.00	.50	7.0	.70	500	3.0	<500	N	100	100
K0050C	58 10 40	154 36 24	3.00	1.00	7.0	.20	1,500	N	N	N	<20	<50
K0051C	58 11 15	154 37 54	1.00	.70	20.0	.30	500	5.0	700	N	<20	<50
K0052C	58 6 18	154 36 19	5.00	1.50	5.0	1.00	2,000	N	N	N	50	200

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K0001C	N	N	N	15	100	<10	200	N	<50	N	50
K0002C	N	N	N	20	50	20	200	N	<50	10	50
K0003C	N	N	N	20	100	100	300	10	<50	N	50
K0004C	N	50	100	50	20	300	70	20	N	30	300
K0005C	N	N	N	20	50	20	200	<10	<50	30	70
K0005CR1	<2	N	N	10	20	50	N	N	N	N	<20
K0005CR2	<2	N	N	<10	20	10	N	N	N	N	<20
K0006C	N	N	N	30	30	15	200	N	<50	10	20
K0007C	N	N	N	20	100	10	300	N	<50	10	70
K0008C	N	N	N	50	100	100	200	10	<50	30	100
K0009C	N	N	N	70	70	500	70	N	<50	70	150
K0010C	N	N	N	20	200	10	150	N	<50	30	20
K0011C	N	N	N	20	200	<10	200	N	<50	15	100
K0012C	N	N	N	30	200	20	200	N	<50	10	50
K0013C	N	N	N	50	100	70	70	N	<50	30	150
K0014C	N	N	N	70	30	70	N	N	N	30	200
K0015C	N	70	50	70	50	100	N	N	N	30	200
K0015CR1	N	50	N	10	20	20	N	<10	N	N	200
K0015CR2	N	20	N	10	20	20	N	N	N	N	70
K0016C	N	N	N	20	150	<10	N	N	N	30	<20
K0017C	N	N	N	30	70	10	N	N	N	10	N
K0018C	N	N	<50	50	50	200	N	N	N	100	70
K0019C	N	N	N	50	150	300	N	100	N	50	700
K0020C	N	N	N	50	700	100	N	N	N	70	70
K0021C	N	N	N	100	150	70	N	N	N	100	150
K0023C	N	N	N	30	200	100	100	N	<50	20	20
K0024C	N	N	N	20	50	70	150	N	<50	15	20
K0025C	N	N	N	70	150	70	70	N	N	50	50
K0025CR1	<2	N	N	20	<20	10	N	N	N	N	<20
K0025CR2	<2	N	N	10	<20	<10	N	N	N	N	<20
K0026C	N	N	N	50	100	20	N	N	<50	30	30
K0027C	N	N	N	50	70	30	50	N	N	30	70
K0028C	N	N	N	30	70	20	N	N	N	20	50
K0029C	N	20	N	100	<20	500	N	20	N	70	200
K0030C	N	70	N	30	70	20	N	N	N	20	100
K0031C	N	N	N	30	70	20	N	N	N	15	<20
K0032C	N	N	N	30	200	100	50	N	N	15	50
K0033C	N	N	N	30	70	10	N	N	N	20	<20
K0035C	N	N	N	50	50	50	N	N	N	30	50
K0035CR1	<2	N	N	20	<20	10	N	N	N	N	20
K0035CR2	<2	N	N	10	<20	10	N	N	N	N	20
K0036C	N	N	N	30	30	15	N	N	N	20	N
K0037C	N	N	N	50	30	50	N	<10	N	30	50
K0038C	N	N	N	50	100	150	N	N	N	30	30
K0039C	N	N	N	50	150	150	N	N	N	30	50
K0040C	N	N	N	30	50	15	N	N	N	10	<20
K0041C	N	N	N	50	200	20	100	N	<50	70	50
K0042C	N	N	<50	15	100	30	150	N	<50	20	20
K0043C	N	N	N	70	100	20	N	N	N	70	N
K0044C	N	N	<50	50	150	15	N	N	N	30	20
K0045C	N	N	N	30	100	15	N	N	N	20	<20
K0045CR1	<2	N	N	<10	<20	10	N	N	N	N	<20
K0045CR2	<2	N	N	<10	<20	<10	N	N	N	N	<20
K0046C	<2	N	N	30	200	100	N	N	N	50	150
K0047C	N	N	<50	100	500	200	N	<10	N	150	150
K0048C	N	N	<50	70	150	30	N	N	N	50	150
K0049C	N	N	<50	50	100	200	N	10	N	30	70
K0050C	N	N	N	50	100	20	N	N	N	50	<20
K0051C	N	N	N	70	100	200	N	15	N	150	200
K0052C	N	N	N	50	150	15	N	N	N	N	20

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K0001C	N	50	20	300	100	N	200	N	>2,000	N
K0002C	N	70	20	<200	100	N	500	N	>2,000	N
K0003C	N	70	N	500	200	N	300	N	>2,000	N
K0004C	N	20	N	500	70	N	100	2,000	2,000	N
K0005C	N	30	N	200	150	N	150	N	>2,000	N
K0005CR1	N	<10	N	500	100	N	20	N	1,000	N
K0005CR2	N	<10	N	200	100	N	20	N	500	N
K0006C	N	50	<20	500	150	N	150	N	>2,000	N
K0007C	N	50	<20	500	150	N	200	N	>2,000	N
K0008C	N	70	N	500	200	N	150	N	>2,000	N
K0009C	N	30	N	200	100	N	150	<500	>2,000	N
K0010C	N	50	N	500	100	N	100	N	700	N
K0011C	N	50	30	300	100	N	150	N	2,000	N
K0012C	N	70	20	700	200	N	150	N	>2,000	N
K0013C	N	70	N	300	150	N	100	N	>2,000	N
K0014C	N	20	N	500	70	N	<20	<500	500	N
K0015C	N	30	N	<200	70	N	50	1,000	700	N
K0015CR1	N	<10	N	500	100	N	<20	N	100	N
K0015CR2	N	<10	N	500	100	N	<20	N	300	N
K0016C	N	70	N	<200	150	N	100	N	2,000	N
K0017C	N	70	N	<200	100	N	100	N	2,000	N
K0018C	N	20	N	<200	70	N	20	<500	700	N
K0019C	N	100	N	300	150	N	100	N	>2,000	N
K0020C	N	70	N	200	150	N	70	N	2,000	N
K0021C	N	50	N	<200	100	N	50	N	500	N
K0023C	N	100	N	500	200	N	150	N	>2,000	N
K0024C	N	50	20	200	100	N	150	N	>2,000	N
K0025C	N	150	N	200	150	N	100	N	>2,000	N
K0025CR1	N	N	N	1,000	20	N	<20	N	200	N
K0025CR2	N	N	N	1,000	20	N	<20	N	20	N
K0026C	N	100	N	300	150	N	100	N	>2,000	N
K0027C	N	70	N	200	70	N	70	N	2,000	N
K0028C	N	70	N	<200	150	N	100	N	500	N
K0029C	N	20	N	<200	70	N	70	<500	700	N
K0030C	N	70	20	200	100	N	70	N	200	N
K0031C	N	70	N	200	100	N	70	N	1,500	N
K0032C	N	100	30	300	200	N	150	N	>2,000	N
K0033C	N	70	N	200	100	N	70	N	700	N
K0035C	N	50	N	<200	100	N	50	N	300	N
K0035CR1	N	N	N	1,000	20	N	<20	N	500	N
K0035CR2	N	N	N	1,000	20	N	20	N	50	N
K0036C	N	50	N	<200	100	N	70	N	700	N
K0037C	N	50	N	<200	70	N	70	N	300	N
K0038C	N	100	N	300	150	N	100	N	>2,000	N
K0039C	N	70	N	<200	100	N	100	N	300	N
K0040C	N	70	N	<200	100	N	70	N	100	N
K0041C	N	50	<20	1,000	100	N	100	700	>2,000	N
K0042C	N	50	30	300	70	N	150	N	>2,000	N
K0043C	N	30	N	<200	100	N	70	N	1,000	N
K0044C	N	100	20	200	100	N	70	<500	1,500	N
K0045C	N	70	N	N	100	N	70	N	300	N
K0045CR1	N	<10	N	1,500	20	N	20	N	50	N
K0045CR2	N	N	N	1,000	20	N	<20	N	50	N
K0046C	N	50	N	700	150	N	50	N	200	N
K0047C	N	20	N	300	100	N	70	500	500	N
K0048C	N	70	N	300	100	N	100	500	>2,000	N
K0049C	N	30	20	N	70	N	70	700	1,000	N
K0050C	N	50	N	200	100	N	50	N	300	N
K0051C	N	20	N	N	70	N	50	N	300	N
K0052C	N	50	N	200	150	N	150	N	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K0053C	58 0 27	154 47 9	5.00	2.00	5.0	.70	2,000	N	N	N	20	50
K0054C	58 2 12	154 46 47	2.00	1.50	2.0	1.00	1,000	N	N	N	30	1,500
K0055C	58 2 16	154 46 42	1.50	1.00	2.0	1.00	700	N	N	N	50	3,000
K0055CR1	58 2 16	154 46 42	.20	2.00	.7	.30	200	N	N	N	100	1,000
K0055CR2	58 2 16	154 46 42	.30	2.00	1.0	.50	300	N	N	N	100	1,000
K0056C	58 0 55	154 44 12	1.50	1.50	2.0	1.00	1,000	N	N	N	50	3,000
K0057C	58 1 2	154 44 1	5.00	2.00	5.0	1.00	2,000	N	N	N	50	150
K0058C	58 2 14	154 43 44	1.50	1.00	2.0	1.00	1,000	N	N	N	50	3,000
K0059C	58 4 48	154 43 12	3.00	1.50	5.0	1.00	2,000	3.0	2,000	N	300	5,000
K0060C	58 4 50	154 42 1	5.00	1.00	5.0	.70	2,000	N	N	N	<20	70
K0061C	58 7 6	154 27 21	3.00	1.50	2.0	.50	2,000	N	N	N	<20	2,000
K0062C	58 7 32	154 27 39	5.00	2.00	3.0	.30	3,000	N	N	N	<20	1,000
K0063C	58 9 45	154 28 1	5.00	1.50	5.0	.50	2,000	<1.0	N	N	20	700
K0064C	58 10 55	154 29 2	5.00	2.00	5.0	.50	1,500	1.5	N	N	<20	1,000
K0065C	58 12 55	154 35 10	7.00	2.00	7.0	1.00	3,000	N	N	N	<20	200
K0065CR1	58 12 55	154 35 10	.30	5.00	.7	.20	200	N	N	N	100	700
K0065CR2	58 12 55	154 35 10	.50	3.00	1.0	.20	500	N	N	N	50	1,000
K0066C	58 13 0	154 35 5	3.00	1.50	3.0	.50	2,000	N	N	N	N	2,000
K0067C	58 8 33	154 38 29	2.00	1.50	3.0	.70	1,000	<1.0	N	N	<20	3,000
K0068C	58 9 40	154 36 27	3.00	2.00	7.0	1.00	1,500	N	N	N	20	1,000
K0069C	58 11 21	154 38 39	5.00	1.50	7.0	.70	1,500	1.0	N	N	<20	1,500
K0070C	58 10 27	154 42 8	2.00	1.50	2.0	.50	1,500	N	N	N	<20	150
K0071C	58 10 28	154 41 54	1.00	2.00	10.0	2.00	700	1.5	N	N	20	10,000
K0072C	58 9 42	154 41 57	2.00	1.50	2.0	.30	1,500	N	N	N	<20	<50
K0073C	58 9 37	154 41 40	3.00	2.00	5.0	1.00	1,500	3.0	N	N	<20	2,000
K0074C	58 6 7	154 43 58	5.00	2.00	5.0	1.00	2,000	<1.0	N	N	20	700
K0075C	58 5 55	154 43 57	1.00	1.00	3.0	.70	700	2.0	N	N	50	2,000
K0075CR1	58 5 55	154 43 57	.20	5.00	.7	.30	200	N	N	N	100	1,000
K0075CR2	58 5 55	154 43 57	.20	3.00	1.0	.20	200	N	N	N	50	700
K0076C	58 6 49	154 42 35	1.50	1.50	1.5	1.00	1,000	N	N	N	20	50
K0077C	58 7 39	154 42 31	2.00	1.00	7.0	1.50	1,000	N	<500	N	20	7,000
K0078C	58 9 4	154 42 4	1.00	1.50	15.0	1.00	700	1.0	N	N	20	10,000
K0079C	58 11 42	154 29 44	1.50	.70	2.0	.50	1,000	N	N	N	70	<50
K0080C	58 12 13	154 28 33	1.50	1.50	2.0	.50	1,000	N	N	N	20	100
K0081C	58 11 42	154 24 21	2.00	1.50	3.0	2.00	1,000	N	N	N	150	700
K0082C	58 12 6	154 24 40	2.00	2.00	7.0	2.00	1,000	1.0	N	N	30	1,000
K0083C	58 10 16	154 25 51	2.00	1.00	5.0	1.00	1,000	N	<500	N	70	300
K0084C	58 8 37	154 25 26	2.00	1.50	3.0	.70	1,000	1.5	N	N	20	1,000
K0085C	58 8 25	154 59 29	1.50	1.00	1.5	.70	1,000	N	<500	N	20	1,000
K0085CR1	58 8 25	154 59 29	.30	7.00	.7	.20	300	N	N	N	100	1,000
K0085CR2	58 8 25	154 59 29	.20	5.00	.7	.20	200	N	N	N	50	700
K0086C	58 5 56	154 20 39	3.00	2.00	5.0	1.00	1,500	N	N	N	30	1,000
K0087C	58 10 16	154 58 30	2.00	1.50	5.0	1.50	1,500	N	N	N	70	1,500
K0088C	58 11 43	154 59 40	1.00	1.00	5.0	.20	500	N	N	N	<20	1,000
K0089C	58 11 44	154 59 27	.70	.70	7.0	.20	500	N	N	N	<20	1,000
K0090C	58 10 58	155 1 0	2.00	1.50	1.5	.20	1,500	N	N	N	N	<50
K0091C	58 10 35	155 2 23	5.00	3.00	3.0	.70	2,000	N	N	N	20	300
K0092C	58 9 18	155 3 5	1.50	1.00	1.5	.50	700	N	N	N	<20	<50
K0093C	58 2 30	154 38 43	2.00	1.00	5.0	2.00	2,000	N	N	N	50	1,000
K0094C	58 3 38	154 38 27	1.50	1.00	1.5	.70	1,000	N	N	N	70	1,000
K0095C	58 6 2	155 17 8	2.00	1.50	7.0	1.50	1,000	N	N	N	100	10,000
K0095CR1	58 6 2	155 17 8	1.00	1.50	2.0	.50	1,500	N	N	N	150	1,500
K0095CR2	58 6 2	155 17 8	.30	1.00	1.0	.20	500	N	N	N	100	1,000
K0096C	58 4 13	154 39 20	1.50	1.50	2.0	.50	1,000	N	N	N	70	200
K0097C	58 2 28	154 33 23	1.00	1.00	1.0	1.00	700	N	N	N	50	700
K0098C	58 6 9	155 17 6	.20	.10	20.0	.20	200	1.0	N	N	<20	7,000
K0099C	58 1 34	155 13 27	.50	1.00	1.0	1.50	1,500	N	N	N	100	50
K0100C	58 10 27	154 49 45	1.50	2.00	3.0	1.50	1,000	2.0	N	N	20	70
K0101C	58 11 54	154 41 50	3.00	2.00	5.0	2.00	1,000	<1.0	N	N	<20	100
K0102C	58 10 27	154 48 1	3.00	2.00	10.0	1.50	1,500	N	500	N	20	150

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K0053C	N	N	N	30	150	10	N	N	N	15	20
K0054C	N	N	N	20	100	50	100	N	<50	20	150
K0055C	N	N	<50	20	100	10	N	N	<50	15	30
K0055CR1	<2	N	N	<10	20	<10	N	N	N	N	<20
K0055CR2	<2	N	N	<10	20	15	N	N	N	N	<20
K0056C	N	N	<50	30	150	30	100	N	<50	30	150
K0057C	N	N	N	30	200	30	70	N	N	20	20
K0058C	N	N	N	20	100	50	100	N	N	20	150
K0059C	N	20	N	50	150	100	100	50	<50	30	5,000
K0060C	N	N	N	30	100	20	N	N	N	20	20
K0061C	N	N	<50	30	150	20	N	N	N	20	<20
K0062C	N	N	N	30	150	15	N	N	N	20	N
K0063C	N	N	N	30	150	70	N	30	N	30	100
K0064C	N	N	N	30	1,000	200	N	N	N	150	70
K0065C	N	N	N	50	200	20	N	N	N	30	<20
K0065CR1	<2	N	N	<10	20	<10	N	50	N	N	<20
K0065CR2	<2	N	N	<10	<20	10	N	N	N	N	<20
K0066C	N	N	<50	30	150	30	N	N	N	30	<20
K0067C	N	N	N	30	200	150	N	<10	N	30	20
K0068C	N	N	N	50	200	70	N	N	N	50	20
K0069C	N	N	N	50	200	100	N	<10	N	50	70
K0070C	N	N	N	20	150	15	N	N	N	<10	<20
K0071C	N	N	N	50	100	300	100	15	<50	50	100
K0072C	N	30	N	30	50	15	N	N	N	20	<20
K0073C	N	N	N	50	300	150	N	N	N	30	50
K0074C	N	N	N	50	300	30	70	10	N	50	200
K0075C	N	N	N	30	50	100	100	N	N	20	500
K0075CR1	N	N	N	<10	20	<10	N	N	N	N	20
K0075CR2	<2	N	N	<10	<20	<10	N	N	N	N	70
K0076C	N	N	N	20	150	10	70	N	N	20	N
K0077C	N	N	N	50	200	50	<50	10	N	50	20
K0078C	N	N	N	50	150	300	N	N	N	100	50
K0079C	N	N	N	30	20	30	N	N	N	15	N
K0080C	N	N	N	20	50	20	N	N	N	20	N
K0081C	N	N	N	50	200	70	70	100	N	20	500
K0082C	N	N	70	30	200	100	N	10	N	50	50
K0083C	N	N	N	50	100	50	100	50	N	30	50
K0084C	N	N	N	20	100	20	70	N	N	N	20
K0085C	N	20	N	50	70	20	N	N	N	20	<20
K0085CR1	<2	N	N	<10	20	<10	N	N	N	N	<20
K0085CR2	<2	N	N	<10	<20	<10	N	N	N	N	<20
K0086C	N	N	N	30	500	20	100	N	N	70	50
K0087C	N	30	N	50	150	50	N	N	N	20	150
K0088C	N	N	N	50	150	50	N	N	N	20	<20
K0089C	N	N	N	50	30	100	N	N	N	20	20
K0090C	N	N	N	30	50	<10	N	N	N	20	N
K0091C	N	N	N	30	200	30	70	N	N	20	<20
K0092C	N	N	N	20	100	50	150	N	N	15	N
K0093C	N	N	N	30	100	20	200	N	<50	N	30
K0094C	N	N	N	30	50	15	100	N	N	15	150
K0095C	N	N	N	70	200	70	200	N	<50	50	70
K0095CR1	<2	N	N	20	50	20	N	N	N	N	<20
K0095CR2	<2	N	N	<10	<20	<10	N	N	N	N	<20
K0096C	N	N	N	20	70	15	N	N	N	N	30
K0097C	N	N	N	15	70	10	150	N	<50	20	N
K0098C	N	N	N	100	70	150	N	N	N	100	50
K0099C	N	N	N	<10	20	50	500	<10	<50	10	20
K0100C	N	N	N	15	200	200	N	100	N	20	500
K0101C	N	N	N	50	150	200	N	10	N	30	50
K0102C	N	N	N	50	100	150	N	<10	N	50	150

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K0053C	N	30	N	<200	150	N	150	N	>2,000	N
K0054C	N	50	70	200	100	N	200	N	>2,000	N
K0055C	N	50	N	200	100	N	150	N	>2,000	N
K0055CR1	N	<10	N	700	50	N	<20	N	200	N
K0055CR2	N	N	N	1,000	70	N	<20	N	500	N
K0056C	N	50	50	200	70	N	150	N	>2,000	N
K0057C	N	20	N	300	100	N	200	N	>2,000	N
K0058C	N	50	50	200	70	N	150	N	>2,000	N
K0059C	N	50	30	500	100	N	150	N	>2,000	N
K0060C	N	50	N	N	100	N	500	N	>2,000	N
K0061C	N	100	<20	<200	100	N	100	N	2,000	N
K0062C	N	100	N	<200	100	N	70	N	700	N
K0063C	N	50	N	500	150	N	70	N	300	N
K0064C	N	30	N	1,000	100	N	50	N	1,000	N
K0065C	N	50	<20	<200	150	N	100	N	1,000	N
K0065CR1	N	<10	N	700	50	N	<20	N	50	N
K0065CR2	N	N	N	1,000	30	N	20	N	100	N
K0066C	N	70	N	<200	70	N	50	N	500	N
K0067C	N	50	N	300	100	N	100	N	2,000	N
K0068C	N	70	N	500	150	N	70	N	300	N
K0069C	N	70	N	200	150	N	70	<500	500	N
K0070C	N	70	N	<200	100	N	100	N	500	N
K0071C	N	50	<20	500	150	N	100	N	700	N
K0072C	N	70	N	300	150	N	70	N	300	N
K0073C	N	100	30	500	200	N	100	N	500	N
K0074C	N	200	50	300	200	N	150	N	>2,000	N
K0075C	N	30	30	200	100	N	150	N	>2,000	N
K0075CR1	N	<10	N	700	50	N	<20	N	500	N
K0075CR2	N	N	N	1,000	50	N	<20	N	70	N
K0076C	N	70	50	300	150	N	100	N	>2,000	N
K0077C	N	70	<20	500	150	<100	100	N	>2,000	N
K0078C	N	70	<20	500	150	N	100	N	1,000	N
K0079C	N	70	N	N	70	N	50	N	1,000	N
K0080C	N	50	<20	300	100	N	70	N	700	N
K0081C	N	70	20	500	200	N	70	N	>2,000	N
K0082C	N	100	20	500	200	N	100	500	500	N
K0083C	N	50	100	500	150	N	200	N	>2,000	N
K0084C	N	70	30	500	200	N	100	N	>2,000	N
K0085C	N	70	N	200	100	N	100	N	>2,000	N
K0085CR1	N	N	N	1,000	30	N	<20	N	100	N
K0085CR2	N	N	N	1,000	20	N	<20	N	200	N
K0086C	N	100	30	500	200	N	150	N	>2,000	N
K0087C	N	100	100	700	200	N	100	N	2,000	N
K0088C	N	50	50	<200	70	N	50	N	700	N
K0089C	N	20	20	<200	70	N	30	N	300	N
K0090C	N	100	20	N	100	N	70	N	300	N
K0091C	N	200	50	300	200	N	150	N	>2,000	<200
K0092C	N	70	30	200	70	N	150	N	>2,000	N
K0093C	N	70	50	<200	200	N	200	N	>2,000	N
K0094C	N	70	N	200	100	N	150	N	>2,000	N
K0095C	N	70	20	500	150	N	300	500	>2,000	N
K0095CR1	N	N	N	500	150	N	50	N	1,000	N
K0095CR2	N	N	N	N	50	N	<20	N	1,000	N
K0096C	N	50	70	200	100	N	100	N	>2,000	N
K0097C	N	50	50	200	100	N	100	N	>2,000	N
K0098C	N	20	N	<200	50	N	30	N	700	N
K0099C	N	50	50	<200	70	N	500	N	>2,000	N
K0100C	N	70	N	1,000	200	<100	70	N	500	N
K0101C	N	70	N	300	200	N	100	N	2,000	N
K0102C	N	70	N	200	150	N	70	N	200	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K0103C	58 10 28	154 45 39	3.00	2.00	3.0	.50	1,500	<1.0	N	N	<20	300
K0104C	58 10 17	154 45 58	1.50	1.50	7.0	2.00	700	3.0	N	N	20	3,000
K0105C	58 10 15	154 51 19	3.00	2.00	2.0	1.00	1,500	<1.0	N	N	<20	100
K0105CR1	58 10 15	154 51 19	.30	5.00	1.0	.20	200	N	N	N	100	700
K0105CR2	58 10 15	154 51 19	.20	5.00	.5	.20	200	N	N	N	50	700
K0106C	58 8 36	154 47 33	3.00	2.00	5.0	2.00	1,500	1.0	N	N	20	100
K0107C	58 12 54	154 29 37	5.00	2.00	5.0	.70	2,000	N	N	N	<20	<50
K0108C	58 12 35	154 32 16	1.50	1.50	10.0	1.00	700	1.5	N	N	<20	<50
K0109C	58 12 20	154 33 57	2.00	1.50	3.0	.70	1,000	3.0	N	N	20	200
K0110C	58 10 59	154 37 37	3.00	2.00	5.0	2.00	1,500	<1.0	N	N	20	100
K0111C	58 10 24	154 37 9	1.50	2.00	7.0	.50	700	N	N	N	<20	<50
K0112C	58 5 59	154 40 28	2.00	1.50	2.0	.50	1,000	N	N	N	30	<50
K0113C	58 7 12	154 40 52	3.00	3.00	3.0	1.00	1,500	N	N	N	100	50
K0114C	58 8 33	154 42 36	3.00	2.00	5.0	1.00	1,500	N	N	N	20	2,000
K0115C	58 8 1	154 41 18	3.00	1.50	2.0	.30	1,500	N	N	N	<20	100
K0115CR1	58 8 1	154 41 18	.20	7.00	.5	.10	200	N	N	N	100	1,000
K0115CR2	58 8 1	154 41 18	.10	5.00	.5	.10	200	N	N	N	50	700
K0116C	58 8 53	154 41 46	3.00	2.00	3.0	.70	1,000	2.0	N	N	<20	500
K0117C	58 8 14	154 21 13	2.00	1.50	7.0	2.00	1,000	N	N	N	<20	10,000
K0118C	58 9 31	154 20 10	3.00	2.00	2.0	.70	1,500	N	N	N	<20	<50
K0119C	58 9 10	154 18 50	5.00	2.00	2.0	.70	2,000	N	N	N	20	<50
K0120C	58 7 51	154 15 34	3.00	1.50	5.0	2.00	1,500	N	N	N	200	150
K0121C	58 10 41	154 17 6	3.00	2.00	5.0	.70	2,000	N	N	N	20	50
K0122C	58 11 58	154 20 37	5.00	2.00	5.0	1.50	2,000	N	N	N	50	70
K0123C	58 12 32	154 19 5	5.00	2.00	2.0	.50	2,000	N	N	N	<20	50
K0124C	58 12 7	154 16 44	5.00	2.00	5.0	.70	2,000	N	N	N	150	100
K0125C	58 12 0	154 13 45	5.00	2.00	5.0	1.00	2,000	N	N	N	30	150
K0125CR1	58 12 0	154 13 45	.30	3.00	.5	.15	200	N	N	N	100	700
K0125CR2	58 12 0	154 13 45	.15	5.00	.5	.15	200	N	N	N	70	1,000
K0126C	58 11 49	154 15 38	3.00	2.00	3.0	1.00	2,000	N	N	N	100	<50
K0127C	58 18 15	154 11 7	3.00	2.00	3.0	1.00	1,500	N	N	N	500	<50
K0128C	58 17 22	154 12 58	5.00	2.00	7.0	1.50	1,500	N	N	N	200	500
K0129C	58 21 35	154 9 1	3.00	1.50	2.0	.50	1,500	N	N	N	<20	1,000
K0131C	58 19 56	154 13 28	1.50	1.50	2.0	.50	1,000	N	N	N	300	50
K0132C	58 19 23	154 15 12	.10	.15	10.0	.10	150	<1.0	N	N	20	100
K0133C	58 18 47	154 16 49	1.50	1.50	3.0	.30	700	3.0	N	N	20	100
K0134C	58 16 25	154 15 12	2.00	1.00	2.0	.50	1,000	N	N	N	300	<50
K0135C	58 19 7	154 22 32	2.00	1.50	3.0	.50	1,000	3.0	N	N	<20	1,000
K0135CR1	58 19 7	154 22 32	.30	5.00	.7	.15	200	2.0	N	N	100	1,000
K0135CR2	58 19 7	154 22 32	.15	2.00	.5	.10	150	N	N	N	50	700
K0136C	58 19 45	154 27 11	.50	1.00	7.0	.50	300	2.0	<500	N	20	<50
K0137C	58 19 52	154 27 21	1.00	1.50	1.0	1.00	1,000	N	N	N	20	<50
K0138C	58 20 46	154 24 8	1.50	1.50	1.0	.50	1,000	N	N	N	20	<50
K0139C	58 20 50	154 23 57	1.00	1.00	1.5	.70	1,000	2.0	500	N	<20	<50
K0140C	58 14 57	154 16 43	1.00	.70	5.0	.70	300	N	N	N	1,000	<50
K0141C	58 14 43	154 14 23	3.00	2.00	2.0	.50	2,000	N	N	N	20	50
K0142C	58 14 37	154 13 58	2.00	1.00	1.5	.50	1,500	<1.0	N	N	20	<50
K0143C	58 15 43	154 13 32	2.00	1.50	2.0	.20	2,000	N	N	N	100	<50
K0144C	58 15 49	154 11 14	2.00	1.00	2.0	.15	2,000	N	N	N	<20	<50
K0145C	58 13 38	154 10 42	3.00	1.50	2.0	.50	1,500	N	N	N	20	<50
K0145CR1	58 13 38	154 10 42	.30	5.00	.7	.15	200	N	N	N	100	1,000
K0145CR2	58 13 38	154 10 42	.20	2.00	.5	.15	200	N	N	N	50	700
K0146C	58 12 51	154 12 23	2.00	1.00	2.0	.15	1,500	N	N	N	<20	<50
K0147C	58 11 31	154 11 27	1.00	1.00	1.0	1.00	1,000	N	N	N	150	700
K0148C	58 17 31	154 8 15	3.00	2.00	2.0	.30	1,500	N	N	N	<20	100
K0149C	58 14 36	154 33 46	.70	.50	1.5	2.00	500	N	N	N	<20	>10,000
K0150C	58 14 39	154 33 58	1.00	1.00	5.0	.20	500	<1.0	<500	N	<20	2,000
K0151C	58 14 51	154 33 9	.50	.70	7.0	.70	500	N	N	N	70	2,000
K0152C	58 13 32	154 29 51	1.00	1.50	5.0	.70	1,000	2.0	N	N	<20	1,500
K0153C	58 14 14	154 27 18	1.50	1.50	5.0	.30	1,000	5.0	N	N	<20	3,000

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K0103C	N	N	N	30	70	70	N	10	N	30	50
K0104C	N	N	N	20	150	50	N	15	N	30	70
K0105C	N	N	N	30	100	70	N	30	N	20	200
K0105CR1	<2	N	N	<10	20	<10	N	20	N	N	<20
K0105CR2	<2	N	N	<10	<20	<10	N	10	N	N	50
K0106C	N	N	N	30	200	30	N	N	N	30	30
K0107C	N	N	N	30	70	15	N	N	N	15	<20
K0108C	N	N	50	70	100	200	N	N	N	70	100
K0109C	N	N	N	30	100	20	70	15	N	20	300
K0110C	N	N	N	30	100	20	N	N	N	30	20
K0111C	N	N	<50	50	70	30	N	N	N	30	30
K0112C	N	N	N	30	70	30	100	N	N	20	20
K0113C	N	N	N	20	150	15	N	N	N	20	50
K0114C	N	N	N	30	150	100	N	N	N	20	50
K0115C	N	N	N	50	50	15	N	N	N	20	<20
K0115CR1	<2	N	N	<10	<20	<10	N	20	N	N	<20
K0115CR2	<2	N	N	<10	<20	<10	N	N	N	N	N
K0116C	N	N	<50	30	300	150	N	N	N	50	100
K0117C	N	N	N	20	200	30	N	15	N	30	50
K0118C	N	50	N	30	100	15	N	20	N	15	70
K0119C	N	<20	N	30	70	20	N	50	N	20	150
K0120C	N	N	N	20	200	<10	150	N	<50	<10	20
K0121C	N	N	N	50	70	50	N	30	N	20	100
K0122C	N	N	N	30	150	70	N	200	N	20	500
K0123C	N	N	N	30	50	20	N	N	N	20	30
K0124C	N	N	N	20	150	20	N	N	N	20	<20
K0125C	N	N	N	30	150	20	N	N	N	20	30
K0125CR1	N	N	N	N	<20	<10	N	N	N	N	<20
K0125CR2	<2	N	N	<10	<20	<10	N	N	N	N	<20
K0126C	N	N	N	30	70	20	N	N	N	20	<20
K0127C	N	N	N	50	100	10	N	N	N	20	30
K0128C	N	N	N	70	150	20	70	N	N	50	<20
K0129C	N	N	N	30	200	50	N	N	N	30	<20
K0131C	N	N	N	20	30	50	N	N	N	15	20
K0132C	N	N	N	70	<20	50	N	N	N	70	50
K0133C	N	N	50	30	100	300	N	N	N	50	1,000
K0134C	N	N	N	30	70	10	N	N	N	30	<20
K0135C	N	N	N	30	150	100	N	10	N	30	200
K0135CR1	<2	N	N	<10	<20	20	N	N	N	N	200
K0135CR2	<2	N	N	<10	<20	20	N	10	N	N	<20
K0136C	N	N	<50	70	<20	200	N	N	N	30	150
K0137C	N	N	N	20	20	150	70	15	N	20	200
K0138C	N	N	N	20	30	70	100	N	N	15	100
K0139C	N	N	70	20	<20	300	100	20	N	15	300
K0140C	N	N	N	50	20	50	70	N	N	30	<20
K0141C	N	N	N	30	70	20	N	N	N	15	<20
K0142C	N	N	N	30	50	10	N	N	N	15	<20
K0143C	N	N	N	50	50	20	N	N	N	20	N
K0144C	N	N	N	30	20	20	N	N	N	20	<20
K0145C	N	20	N	20	50	20	N	N	N	10	N
K0145CR1	<2	N	N	<10	<20	15	N	N	N	N	<20
K0145CR2	<2	N	N	<10	<20	<10	N	N	N	N	<20
K0146C	N	N	N	30	20	15	N	N	N	10	N
K0147C	N	N	N	20	100	10	100	N	<50	15	50
K0148C	N	N	N	30	200	<10	N	N	N	30	<20
K0149C	N	N	N	20	200	50	N	10	<50	N	30
K0150C	N	N	N	50	70	100	N	10	N	100	50
K0151C	N	N	N	100	30	300	N	N	N	70	20
K0152C	N	N	N	50	50	500	N	N	N	30	300
K0153C	N	N	50	30	20	500	N	10	N	30	300

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K0103C	N	50	20	<200	100	N	70	N	500	N
K0104C	N	50	N	500	200	N	50	N	500	N
K0105C	N	50	N	500	150	N	70	N	200	N
K0105CR1	N	N	N	1,000	50	N	<20	N	50	N
K0105CR2	N	N	N	1,000	20	N	<20	N	200	N
K0106C	N	150	70	200	200	N	200	N	700	N
K0107C	N	100	N	<200	100	N	100	N	2,000	N
K0108C	N	70	N	200	150	N	100	700	700	N
K0109C	N	70	20	700	150	N	70	500	300	N
K0110C	N	100	N	300	200	N	100	N	700	N
K0111C	N	50	<20	<200	100	N	70	500	700	N
K0112C	N	50	20	<200	100	N	200	N	>2,000	N
K0113C	N	70	N	300	200	N	100	N	1,000	N
K0114C	N	100	50	300	150	N	100	N	1,000	N
K0115C	N	70	<20	<200	100	N	70	N	1,000	N
K0115CR1	N	N	N	1,000	20	N	<20	N	100	N
K0115CR2	N	N	N	1,000	20	N	<20	N	100	N
K0116C	N	50	N	200	100	N	70	<500	700	N
K0117C	N	70	N	300	200	N	70	N	500	N
K0118C	N	100	30	200	150	N	100	N	2,000	N
K0119C	N	70	N	<200	150	N	100	N	1,500	N
K0120C	N	100	20	<200	150	N	150	N	>2,000	N
K0121C	N	70	30	<200	150	N	70	N	>2,000	N
K0122C	N	150	<20	200	200	N	150	N	2,000	N
K0123C	N	50	<20	200	100	N	100	N	>2,000	N
K0124C	N	100	N	200	150	N	100	N	1,000	N
K0125C	N	100	N	200	200	N	150	N	2,000	N
K0125CR1	N	N	N	700	20	N	N	N	50	N
K0125CR2	N	N	N	1,000	30	N	<20	N	100	N
K0126C	N	50	N	200	100	N	100	N	>2,000	N
K0127C	N	70	20	200	150	N	100	N	2,000	N
K0128C	N	100	50	<200	200	N	150	N	>2,000	N
K0129C	N	70	N	N	150	N	70	N	2,000	N
K0131C	N	50	N	500	100	N	50	N	500	N
K0132C	N	10	N	<200	20	N	20	<500	20	N
K0133C	N	50	N	500	300	N	70	700	700	N
K0134C	N	30	N	200	100	N	50	N	300	N
K0135C	N	50	N	300	100	N	50	N	300	N
K0135CR1	N	N	N	1,000	30	N	<20	N	100	N
K0135CR2	N	N	N	700	20	N	<20	N	200	N
K0136C	N	15	N	200	50	N	100	500	2,000	N
K0137C	N	50	<20	300	100	N	150	N	2,000	N
K0138C	N	50	N	200	70	N	200	N	>2,000	N
K0139C	N	50	N	<200	70	N	500	1,000	>2,000	<200
K0140C	N	20	N	<200	70	N	50	N	500	N
K0141C	N	70	N	<200	70	N	100	<500	700	N
K0142C	N	70	N	<200	100	N	150	N	>2,000	N
K0143C	N	50	N	200	100	N	70	N	500	N
K0144C	N	50	N	200	70	N	50	N	150	N
K0145C	N	70	N	200	100	N	70	N	1,000	N
K0145CR1	N	N	N	1,000	30	N	<20	N	50	N
K0145CR2	N	N	N	1,000	20	N	<20	N	50	N
K0146C	N	50	N	N	50	N	50	N	200	N
K0147C	N	50	N	200	70	N	150	<500	>2,000	N
K0148C	N	70	N	<200	100	N	100	N	700	N
K0149C	N	30	20	700	150	N	30	<500	100	N
K0150C	N	30	N	200	50	N	50	N	200	N
K0151C	N	30	N	200	70	N	50	N	150	N
K0152C	N	30	N	300	150	N	50	<500	300	N
K0153C	N	30	N	500	70	N	50	700	100	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K0154C	58 13 10	154 28 1	1.00	1.00	2.0	.30	1,000	N	N	N	30	150
K0155C	58 13 46	154 24 41	.50	1.00	5.0	.70	500	N	N	N	20	200
K0155CR1	58 13 46	154 24 41	.30	5.00	2.0	.50	200	N	N	N	100	1,500
K0155CR2	58 13 46	154 24 41	.15	2.00	.7	.30	100	N	N	N	50	700
K0156C	58 14 12	154 21 32	2.00	1.50	3.0	.70	1,000	N	N	N	50	150
K0157C	58 44 20	153 46 43	.10	.10	2.0	1.50	100	N	N	N	100	2,000
K0158C	58 43 36	153 45 18	.30	2.00	10.0	2.00	200	N	N	N	50	5,000
K0159C	58 43 0	153 45 30	.50	1.00	>50.0	1.50	200	N	N	N	20	5,000
K0160C	58 42 50	153 45 40	.30	1.00	5.0	>2.00	150	20.0	N	N	50	10,000
K0161C	58 42 11	153 44 35	.30	5.00	1.0	>2.00	500	N	N	N	100	200
K0162C	58 42 22	153 44 21	.20	3.00	20.0	1.50	200	N	700	N	100	100
K0162CD	58 42 25	153 44 15	.07	1.50	20.0	1.00	100	N	N	N	100	700
K0163C	58 42 22	153 45 42	.30	.50	50.0	1.00	100	N	N	N	20	>10,000
K0164C	58 36 9	154 11 31	.20	3.00	1.5	>2.00	1,000	5.0	N	30	5,000	1,000
K0165C	58 35 30	154 14 23	.10	2.00	3.0	>2.00	500	N	N	N	500	>10,000
K0166C	58 35 32	154 15 7	.20	5.00	2.0	>2.00	1,000	N	N	N	500	2,000
K0167C	58 36 14	154 13 50	.10	2.00	2.0	2.00	500	N	N	N	1,000	200
K0168C	58 36 52	154 13 22	.20	5.00	1.0	>2.00	1,000	N	N	N	>5,000	300
K0169C	58 37 29	154 12 58	.20	3.00	1.5	>2.00	1,000	N	N	N	2,000	500
K0170C	58 37 28	154 12 46	.20	2.00	2.0	2.00	500	N	N	N	2,000	>10,000
K0171C	58 36 48	154 11 13	.20	3.00	3.0	>2.00	1,000	N	N	N	>5,000	5,000
K0172C	58 36 37	154 8 52	.20	5.00	1.0	>2.00	1,000	N	N	N	50	200
K0173C	58 35 46	154 7 57	.20	2.00	.7	>2.00	500	N	N	N	5,000	1,000
K0174C	58 37 2	154 6 41	.50	5.00	1.5	.30	500	N	N	N	50	300
K0175C	58 37 32	154 6 51	.50	5.00	2.0	>2.00	1,000	N	N	N	>5,000	150
K0176C	58 38 4	154 6 12	.30	5.00	1.0	>2.00	1,000	N	N	N	>5,000	700
K0177C	58 36 21	154 4 31	.50	5.00	2.0	1.00	700	2.0	N	N	200	1,000
K0178C	58 18 7	154 30 33	.50	5.00	15.0	>2.00	700	<1.0	N	N	100	5,000
K0179C	58 18 12	154 30 13	.50	2.00	2.0	>2.00	500	50.0	N	150	100	700
K0180C	58 16 28	154 36 39	.50	5.00	2.0	.20	300	N	N	N	70	700
K0181C	58 16 11	154 31 55	.50	2.00	2.0	>2.00	500	N	N	N	500	5,000
K0182C	58 17 7	154 26 42	.50	5.00	3.0	1.00	500	5.0	N	N	50	700
K0183C	58 17 2	154 24 44	.70	3.00	7.0	1.50	500	2.0	N	N	50	1,000
K0184C	58 15 25	154 29 57	1.00	5.00	2.0	2.00	500	N	N	N	50	700
K0185C	58 22 42	154 14 36	.30	3.00	1.5	>2.00	300	N	N	N	50	700
K0185CD	58 22 42	154 14 38	.07	1.50	.5	.20	100	N	N	N	100	1,000
K0186C	58 22 46	154 14 27	1.50	7.00	2.0	2.00	1,000	N	N	N	50	2,000
K0187C	58 22 53	154 13 21	.30	3.00	5.0	>2.00	300	N	N	20	500	1,000
K0188C	58 22 1	154 17 17	.30	2.00	2.0	>2.00	200	N	500	N	300	2,000
K0189C	58 21 16	154 16 4	.30	3.00	2.0	.70	300	N	N	N	50	>10,000
K0190C	58 20 52	154 15 26	.50	2.00	20.0	>2.00	500	20.0	N	N	1,000	>10,000
K0194C	58 23 52	154 1 48	.30	7.00	2.0	1.00	500	N	N	N	50	700
K0195C	58 25 39	154 12 0	.30	2.00	7.0	>2.00	200	<1.0	N	N	150	>10,000
K0196C	58 26 28	154 11 9	1.50	5.00	3.0	2.00	700	N	10,000	N	500	700
K0197C	58 22 52	154 8 10	.70	3.00	2.0	>2.00	500	N	N	N	3,000	>10,000
K0198C	58 8 17	155 18 40	.30	2.00	20.0	.70	200	N	N	N	50	5,000
K0199C	58 6 56	155 18 3	2.00	1.00	2.0	>2.00	700	N	N	N	100	1,500
K0200C	58 6 34	155 16 32	.50	2.00	2.0	>2.00	1,000	N	N	N	200	700
K0201C	58 5 23	155 15 43	.20	2.00	1.5	>2.00	1,000	N	N	N	200	200
K0202C	58 4 45	155 13 24	.20	3.00	2.0	>2.00	700	N	N	N	1,500	700
K0203C	58 4 17	155 13 59	.15	3.00	1.5	>2.00	700	N	N	N	500	1,000
K0204C	58 3 13	155 15 8	.15	3.00	1.0	>2.00	500	N	N	N	500	500
K0205C	58 3 13	155 13 31	.20	2.00	2.0	>2.00	500	N	N	N	1,000	500
K0206C	58 1 29	155 16 10	.10	7.00	1.0	>2.00	1,500	N	N	N	150	1,000
K0207C	58 1 38	155 16 13	.10	2.00	1.0	>2.00	500	N	N	N	>5,000	1,000
K0208C	58 0 2	155 18 44	.10	3.00	.5	>2.00	1,000	N	N	N	300	200
K0209C	58 0 0	155 12 0	.30	5.00	1.0	>2.00	1,500	N	N	N	50	1,000
K0210C	58 1 37	155 10 15	.10	3.00	.5	>2.00	1,000	N	N	N	2,000	200
K0211C	58 1 44	155 9 0	.05	3.00	1.0	>2.00	700	N	N	N	>5,000	100
K0212C	58 0 34	155 8 20	.10	3.00	1.0	>2.00	700	N	N	N	5,000	1,000

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K0154C	N	N	N	30	20	20	N	N	N	20	N
K0155C	N	N	N	50	20	70	N	N	N	20	<20
K0155CR1	<2	N	N	20	20	20	N	N	N	N	<20
K0155CR2	N	N	N	<10	20	<10	N	N	N	N	N
K0156C	N	N	N	30	150	50	N	<10	N	50	50
K0157C	<2	N	N	10	700	50	N	<10	N	N	100
K0158C	<2	N	N	150	70	500	<50	50	N	100	200
K0159C	N	N	N	500	20	1,000	N	30	N	200	200
K0160C	N	50	500	50	300	1,000	N	20	N	10	2,000
K0161C	<2	N	N	N	50	20	1,000	200	N	N	1,000
K0162C	N	N	N	500	70	200	200	N	N	200	50
K0162CD	N	N	N	200	20	200	N	20	N	100	50
K0163C	<2	N	N	1,000	150	200	N	20	N	500	20
K0164C	N	70	N	<10	<20	10	200	N	N	N	N
K0165C	<2	N	N	20	<20	20	200	N	N	N	<20
K0166C	N	N	N	70	<20	200	300	N	N	N	20
K0167C	<2	N	N	20	<20	10	100	N	N	N	N
K0168C	N	N	N	<10	<20	<10	200	N	N	N	N
K0169C	<2	N	N	<10	<20	10	150	N	N	N	N
K0170C	N	N	N	10	50	70	100	N	N	50	<20
K0171C	N	N	300	20	<20	50	200	N	N	10	<20
K0172C	N	N	N	N	<20	<10	200	N	N	N	20
K0173C	<2	N	N	<10	<20	<10	70	N	N	N	N
K0174C	<2	N	N	<10	<20	<10	N	N	N	N	N
K0175C	<2	N	N	10	<20	15	200	N	<50	N	N
K0176C	<2	<20	N	<10	20	20	150	N	N	N	N
K0177C	<2	N	N	10	<20	20	70	N	N	N	100
K0178C	N	N	N	200	70	200	N	N	N	200	70
K0179C	<2	N	N	50	100	50	N	50	N	<10	500
K0180C	<2	N	N	10	N	10	N	N	N	N	N
K0181C	N	N	N	20	200	20	50	<10	50	N	N
K0182C	<2	N	N	10	20	2,000	N	200	N	N	500
K0183C	<2	N	100	50	70	100	N	<10	N	20	5,000
K0184C	<2	N	N	<10	20	10	70	N	N	N	N
K0185C	<2	N	N	<10	30	10	<50	N	<50	N	N
K0185CD	N	N	N	N	<20	<10	N	N	N	N	<20
K0186C	<2	N	N	15	50	10	100	N	N	N	<20
K0187C	N	N	150	50	50	50	<50	N	N	20	N
K0188C	<2	N	N	10	<20	20	50	N	N	N	<20
K0189C	<2	N	N	10	<20	<10	N	N	N	N	N
K0190C	<2	N	N	150	70	150	N	N	N	100	2,000
K0194C	<2	N	N	<10	20	15	50	N	N	N	50
K0195C	<2	30	N	100	100	20	100	20	N	150	200
K0196C	<2	N	N	100	<20	20	500	N	N	50	100
K0197C	N	N	N	15	100	100	200	N	N	20	<20
K0198C	<2	N	N	100	20	100	N	<10	N	150	20
K0199C	N	N	N	20	200	200	N	20	70	N	70
K0200C	<2	N	N	20	150	10	200	10	100	N	300
K0201C	<2	N	N	10	20	10	100	N	N	N	<20
K0202C	N	N	N	30	20	10	50	N	<50	<10	N
K0203C	<2	N	N	<10	70	15	150	N	N	N	20
K0204C	N	N	N	<10	50	30	100	N	N	N	N
K0205C	N	N	N	20	50	<10	50	N	N	N	N
K0206C	<2	N	N	<10	50	<10	200	N	50	N	<20
K0207C	<2	N	N	<10	20	<10	100	N	N	N	N
K0208C	N	N	N	<10	50	<10	200	N	<50	N	<20
K0209C	N	N	N	<10	50	<10	200	N	<50	N	<20
K0210C	N	N	N	<10	30	<10	100	N	<50	N	<20
K0211C	<2	N	N	20	50	<10	100	N	N	N	<20
K0212C	<2	N	N	<10	100	<10	200	N	N	N	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K0154C	N	30	N	300	100	N	50	N	70	N
K0155C	N	20	N	300	70	N	50	N	100	N
K0155CR1	N	N	N	1,000	50	N	20	N	100	N
K0155CR2	N	N	N	700	50	N	<20	N	50	N
K0156C	N	70	N	<200	100	N	70	N	1,000	N
K0157C	N	20	20	500	1,000	N	200	N	>2,000	N
K0158C	N	50	N	200	150	N	1,000	N	>2,000	N
K0159C	N	20	N	<200	150	N	200	N	>2,000	N
K0160C	N	50	N	<200	300	N	1,000	5,000	>2,000	N
K0161C	N	70	N	N	300	N	1,500	N	>2,000	N
K0162C	N	30	N	<200	200	N	300	N	>2,000	N
K0162CD	N	20	N	<200	200	N	100	<500	>2,000	N
K0163C	N	10	N	300	200	N	100	700	>2,000	N
K0164C	N	100	N	N	200	N	1,000	N	>2,000	N
K0165C	N	100	N	N	200	N	1,500	N	>2,000	N
K0166C	N	100	N	N	300	N	2,000	N	>2,000	N
K0167C	N	100	N	N	150	N	1,500	N	>2,000	N
K0168C	N	70	N	<200	150	N	1,000	N	>2,000	N
K0169C	N	70	<20	<200	200	N	1,000	N	>2,000	N
K0170C	N	50	N	500	100	N	1,000	N	>2,000	N
K0171C	N	70	N	N	200	N	1,000	2,000	>2,000	N
K0172C	N	100	N	N	300	N	1,500	N	>2,000	N
K0173C	N	200	N	N	200	N	2,000	N	>2,000	N
K0174C	N	10	N	700	20	N	100	N	>2,000	N
K0175C	N	50	N	N	200	N	1,000	N	>2,000	N
K0176C	N	50	N	<200	200	N	1,000	N	>2,000	N
K0177C	N	20	N	700	150	N	300	N	>2,000	N
K0178C	N	50	N	200	300	N	200	N	>2,000	N
K0179C	N	70	50	N	300	N	1,000	N	>2,000	N
K0180C	N	N	N	1,000	20	N	100	N	>2,000	N
K0181C	N	50	50	500	500	N	300	N	>2,000	N
K0182C	N	10	N	1,000	100	N	300	N	>2,000	N
K0183C	N	20	N	500	150	N	200	10,000	>2,000	N
K0184C	N	20	N	700	100	N	200	N	>2,000	N
K0185C	N	20	N	700	100	N	150	N	>2,000	N
K0185CD	N	N	N	500	20	N	70	N	>2,000	N
K0186C	N	20	N	500	150	N	200	N	>2,000	N
K0187C	N	50	N	N	200	N	1,500	1,000	>2,000	N
K0188C	N	50	N	N	100	N	1,000	N	>2,000	N
K0189C	N	<10	N	2,000	50	N	100	N	>2,000	N
K0190C	N	20	N	1,000	200	N	150	1,000	>2,000	N
K0194C	N	<10	N	700	50	N	200	N	>2,000	N
K0195C	N	50	50	1,000	200	N	1,000	N	>2,000	N
K0196C	N	50	N	200	100	N	1,000	N	>2,000	N
K0197C	N	20	N	>10,000	200	N	200	N	>2,000	N
K0198C	N	10	N	700	100	N	150	N	>2,000	N
K0199C	N	70	100	500	1,000	N	200	N	>2,000	N
K0200C	N	70	70	N	500	N	1,000	N	>2,000	N
K0201C	N	100	N	N	150	N	1,500	N	>2,000	N
K0202C	N	50	N	N	200	N	1,000	N	>2,000	N
K0203C	N	100	20	N	200	N	1,500	N	>2,000	N
K0204C	N	70	N	N	200	N	1,500	N	>2,000	N
K0205C	N	100	N	N	200	N	1,500	N	>2,000	N
K0206C	N	70	20	N	300	N	1,500	N	>2,000	N
K0207C	N	100	N	N	200	N	1,500	N	>2,000	N
K0208C	N	100	<20	N	200	N	1,500	N	>2,000	N
K0209C	N	100	<20	N	200	N	1,500	N	>2,000	N
K0210C	N	100	<20	N	200	N	1,500	N	>2,000	N
K0211C	N	100	N	N	300	N	1,500	N	>2,000	N
K0212C	N	100	<20	N	200	N	1,000	N	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K0213C	58 1 6	155 5 54	.05	5.00	1.0	2.00	150	N	N	N	>5,000	>10,000
K0214C	58 2 8	155 33 26	.30	2.00	2.0	1.00	300	20.0	N	N	500	>10,000
K0215C	58 2 12	155 33 27	.30	3.00	7.0	1.50	500	N	N	N	500	>10,000
K0216C	58 2 23	155 32 59	.50	5.00	20.0	>2.00	1,000	N	N	N	200	10,000
K0217C	58 1 40	155 30 55	1.00	7.00	5.0	2.00	1,000	N	N	N	70	>10,000
K0217CD	58 1 40	155 30 55	.07	2.00	1.0	.05	200	N	N	N	150	>10,000
K0218C	58 1 31	155 30 36	.30	3.00	5.0	2.00	500	N	N	N	200	>10,000
K0219C	58 2 34	155 36 2	.70	3.00	10.0	>2.00	1,000	N	N	N	2,000	10,000
K0220C	58 1 6	155 29 48	.20	7.00	20.0	>2.00	1,000	1.0	N	N	100	1,000
K0221C	58 0 25	155 29 6	.20	5.00	2.0	>2.00	1,500	N	N	N	5,000	2,000
K0222C	58 0 43	155 33 58	.50	10.00	2.0	>2.00	1,000	N	N	N	2,000	700
K0223C	58 1 2	155 35 20	.50	7.00	15.0	>2.00	1,000	N	N	N	>5,000	10,000
K0224C	58 0 3	155 37 9	.50	5.00	2.0	1.50	500	N	N	N	50	10,000
K0225C	58 0 5	155 39 22	.50	.20	30.0	.50	200	10.0	<500	N	50	>10,000
K0226C	58 0 53	155 26 16	.10	3.00	.5	>2.00	1,000	N	N	N	30	200
K0227C	58 4 50	155 29 18	.20	10.00	3.0	>2.00	2,000	700.0	N	>1,000	1,000	200
K0228C	58 4 51	155 29 11	.20	5.00	5.0	>2.00	1,000	N	N	N	1,000	1,500
K0229C	58 4 6	155 29 11	.20	5.00	2.0	>2.00	700	N	N	N	200	200
K0230C	58 3 23	155 29 11	.30	5.00	5.0	>2.00	1,000	N	N	N	500	200
K0231C	58 3 18	155 29 0	.20	3.00	20.0	>2.00	1,000	N	N	N	20	300
K0232C	58 3 13	155 29 16	.50	10.00	7.0	>2.00	1,500	N	N	N	>5,000	500
K0233C	58 3 32	155 9 11	.20	5.00	2.0	>2.00	1,000	N	N	N	>5,000	500
K0234C	58 3 27	155 9 13	.10	3.00	1.5	>2.00	700	N	N	N	5,000	500
K0235C	58 2 44	155 7 50	.20	5.00	1.0	>2.00	500	N	N	N	2,000	700
K0236C	58 1 28	155 4 21	.20	2.00	1.0	>2.00	500	N	N	N	2,000	700
K0237C	58 3 56	155 2 10	.20	2.00	1.0	.70	200	N	N	N	5,000	3,000
K0238C	58 6 46	155 27 39	.20	7.00	10.0	>2.00	1,000	N	N	N	200	700
K0239C	58 6 48	155 27 39	.20	1.00	50.0	1.00	150	N	N	N	200	>10,000
K0240C	58 6 42	155 27 15	.50	3.00	2.0	>2.00	700	N	N	N	50	2,000
K0241C	58 4 38	155 25 58	.20	3.00	3.0	>2.00	1,000	N	N	N	500	1,000
K0242C	58 3 44	155 24 42	.10	10.00	3.0	>2.00	1,000	N	N	N	5,000	1,000
K0243C	58 6 13	155 24 24	.10	3.00	15.0	1.50	500	20.0	500	N	500	1,500
K0244C	58 6 15	155 24 14	.30	7.00	3.0	>2.00	1,500	N	N	N	3,000	200
K0245C	58 4 14	155 23 58	.20	7.00	2.0	>2.00	1,500	N	N	N	50	300
K0246C	58 3 8	155 23 59	.10	2.00	15.0	>2.00	500	N	N	N	50	700
K0247C	58 2 21	155 24 47	.10	5.00	2.0	>2.00	700	N	N	N	700	500
K0248C	58 1 23	155 27 50	.20	7.00	2.0	>2.00	1,000	N	N	N	200	100
K0249C	58 1 44	155 27 41	.05	3.00	1.0	>2.00	500	N	N	N	70	50
K0249CD	58 1 44	155 27 41	.07	1.00	.5	.70	200	50.0	N	200	200	1,500
K0250C	58 13 46	154 43 21	1.50	7.00	20.0	1.50	1,000	2.0	1,000	N	50	700
K0251C	58 13 42	154 43 17	.50	2.00	30.0	.30	200	20.0	10,000	N	<20	1,000
K0252C	58 13 26	154 44 24	.70	5.00	2.0	.50	500	N	N	N	50	3,000
K0253C	58 13 33	154 45 4	1.00	5.00	20.0	.70	1,000	<1.0	700	N	50	2,000
K0254C	58 13 9	154 46 57	1.50	10.00	15.0	2.00	1,000	<1.0	700	N	20	200
K0255C	58 13 17	154 47 57	.30	3.00	15.0	.30	200	N	N	N	50	500
K0256C	58 14 15	154 46 35	.50	1.00	30.0	1.00	500	N	N	N	<20	1,000
K0257C	58 14 6	154 47 46	.50	.50	30.0	.70	150	N	N	N	<20	1,000
K0258C	58 13 21	154 48 59	1.00	5.00	20.0	2.00	500	<1.0	N	N	20	300
K0259C	58 14 4	154 50 2	.50	5.00	20.0	>2.00	700	N	N	N	50	1,000
K0260C	58 13 17	154 50 41	.05	.70	30.0	.30	50	N	N	N	<20	50
K0261C	58 12 51	154 53 52	.50	3.00	20.0	2.00	200	N	N	N	20	2,000
K0262C	58 13 24	154 54 1	.70	5.00	2.0	.30	500	N	N	N	50	500
K0263C	58 14 38	154 53 27	.30	2.00	20.0	1.00	200	N	5,000	N	50	1,000
K0264C	58 14 38	154 53 39	.20	1.00	30.0	.20	200	N	N	N	<20	2,000
K0265C	58 13 20	154 55 9	.70	5.00	10.0	.30	300	N	N	N	50	2,000
K0266C	58 12 50	154 56 4	.30	1.00	30.0	.70	300	<1.0	700	N	<20	10,000
K0267C	58 13 18	154 56 8	1.00	5.00	5.0	.50	1,000	N	N	N	20	>10,000
K0268C	58 12 32	154 57 18	1.00	5.00	10.0	1.00	700	N	N	N	50	3,000
K0269C	58 11 32	154 57 41	.50	5.00	2.0	.30	200	N	N	N	50	500
K0270C	58 12 43	155 4 24	.30	1.00	20.0	.50	200	N	N	N	<20	10,000

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K0213C	<2	N	N	N	20	10	50	N	N	N	N
K0214C	N	N	N	<10	<20	150	N	N	N	N	1,500
K0215C	N	N	300	20	<20	100	N	N	<50	N	300
K0216C	N	N	N	70	50	200	500	N	70	100	70
K0217C	N	N	N	10	20	70	100	N	<50	N	N
K0217CD	N	N	N	N	<20	<10	50	N	N	N	N
K0218C	<2	N	N	10	<20	20	<50	N	N	N	N
K0219C	N	N	N	50	50	200	150	<10	50	N	<20
K0220C	N	N	N	50	20	150	200	N	<50	200	150
K0221C	N	N	N	10	<20	70	300	N	<50	10	<20
K0222C	N	N	N	<10	50	10	300	<10	<50	N	N
K0223C	N	N	N	50	30	150	200	10	70	200	100
K0224C	<2	N	N	<10	20	10	<50	N	N	N	N
K0225C	N	N	150	150	N	200	N	N	N	50	300
K0226C	N	N	N	N	<20	<10	70	N	N	N	N
K0227C	N	N	N	15	50	50	300	N	<50	20	20
K0228C	N	N	N	70	20	50	200	N	N	<10	<20
K0229C	<2	N	N	20	50	50	150	N	N	20	<20
K0230C	N	N	N	50	20	10	300	<10	<50	100	30
K0231C	N	N	N	30	<20	150	100	N	<50	150	70
K0232C	N	N	N	10	50	100	300	N	50	100	50
K0233C	<2	N	N	50	50	70	200	<10	<50	<10	<20
K0234C	N	N	N	<10	20	20	100	N	<50	N	<20
K0235C	<2	N	N	<10	20	<10	100	N	<50	N	N
K0236C	<2	N	N	<10	20	<10	100	N	N	N	<20
K0237C	<2	N	N	N	<20	10	N	N	N	N	<20
K0238C	<2	N	N	15	20	150	500	N	<50	100	50
K0239C	N	N	N	200	<20	200	N	N	N	150	150
K0240C	<2	N	N	50	50	15	100	N	N	N	<20
K0241C	N	N	N	<10	20	50	200	N	N	20	20
K0242C	N	N	N	<10	50	30	200	N	<50	20	20
K0243C	<2	N	N	100	<20	300	50	N	N	<10	150
K0244C	<2	N	N	50	20	50	300	N	50	N	<20
K0245C	N	N	N	<10	100	20	300	N	70	N	N
K0246C	<2	N	N	100	<20	200	70	N	N	70	70
K0247C	<2	N	N	50	20	50	200	N	<50	50	20
K0248C	<2	N	N	<10	70	15	200	N	<50	<10	<20
K0249C	N	N	N	<10	<20	<10	100	N	N	N	N
K0249CD	N	N	N	N	<20	<10	N	N	N	N	50
K0250C	N	N	N	70	150	150	300	N	N	70	70
K0251C	N	N	N	300	70	2,000	N	30	N	200	200
K0252C	<2	N	N	10	<20	10	N	N	N	N	N
K0253C	<2	N	N	100	20	100	70	N	N	100	50
K0254C	<2	N	N	100	20	100	200	N	N	150	100
K0255C	<2	N	N	100	<20	150	N	N	N	50	70
K0256C	N	N	N	200	100	150	N	100	N	500	70
K0257C	N	N	N	500	20	150	N	N	N	500	50
K0258C	<2	N	N	100	100	1,000	N	N	N	200	100
K0259C	<2	N	N	100	50	200	50	N	<50	150	1,000
K0260C	N	N	N	500	<20	150	N	N	N	300	200
K0261C	<2	N	N	100	100	150	N	N	N	200	70
K0262C	<2	N	N	10	20	<10	N	N	N	N	N
K0263C	<2	N	N	100	<20	100	N	N	N	150	150
K0264C	N	N	N	150	<20	200	N	N	N	50	<20
K0265C	<2	N	N	20	20	30	N	N	N	N	<20
K0266C	N	1,000	N	150	<20	200	N	<10	N	100	200
K0267C	<2	N	N	20	100	20	N	10	N	10	<20
K0268C	<2	N	N	50	100	20	N	N	N	10	N
K0269C	<2	N	N	<10	<20	15	N	N	N	N	70
K0270C	N	N	N	150	<20	200	N	<10	N	50	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K0213C	N	20	N	N	200	N	500	N	>2,000	N
K0214C	N	10	N	10,000	50	N	200	2,000	>2,000	N
K0215C	N	20	N	10,000	100	N	200	10,000	>2,000	N
K0216C	N	20	N	1,000	200	N	1,000	2,000	>2,000	N
K0217C	N	30	N	1,500	200	N	500	N	>2,000	N
K0217CD	N	20	N	1,000	50	N	200	N	>2,000	N
K0218C	N	20	N	1,000	100	N	500	500	>2,000	N
K0219C	N	30	N	500	300	N	500	5,000	>2,000	N
K0220C	N	50	N	700	200	N	1,500	N	>2,000	N
K0221C	N	50	<20	200	200	N	1,000	N	>2,000	N
K0222C	N	50	<20	200	200	N	1,000	N	>2,000	N
K0223C	N	30	N	500	200	N	1,000	N	>2,000	N
K0224C	N	20	N	1,000	70	N	150	N	>2,000	N
K0225C	N	N	N	2,000	50	N	20	20,000	300	N
K0226C	N	100	N	N	300	N	2,000	N	>2,000	N
K0227C	N	70	20	<200	200	N	1,500	N	>2,000	N
K0228C	N	50	<20	N	200	N	1,000	N	>2,000	N
K0229C	N	100	N	<200	200	N	1,500	N	>2,000	N
K0230C	N	50	N	200	200	N	1,500	N	>2,000	N
K0231C	N	50	N	200	200	N	1,000	N	>2,000	N
K0232C	N	30	N	500	200	N	700	N	>2,000	N
K0233C	N	50	20	N	200	N	1,500	N	>2,000	N
K0234C	N	100	N	N	200	N	1,500	N	>2,000	N
K0235C	N	70	N	N	200	N	1,000	N	>2,000	N
K0236C	N	50	N	N	150	N	500	N	>2,000	N
K0237C	N	<10	N	500	20	N	100	N	>2,000	N
K0238C	N	50	N	500	200	N	1,000	N	>2,000	N
K0239C	N	<10	N	10,000	100	N	150	N	>2,000	N
K0240C	N	70	N	200	200	N	1,500	N	>2,000	N
K0241C	N	70	N	N	200	N	1,500	N	>2,000	N
K0242C	N	50	20	1,000	200	N	1,000	500	>2,000	N
K0243C	N	50	N	N	70	N	700	500	>2,000	N
K0244C	N	70	<20	N	200	N	1,500	<500	>2,000	N
K0245C	N	50	20	N	200	N	1,500	N	>2,000	N
K0246C	N	70	N	N	200	N	1,500	N	>2,000	N
K0247C	N	70	<20	200	200	N	1,500	N	>2,000	N
K0248C	N	100	20	N	500	N	1,500	N	>2,000	N
K0249C	N	70	N	N	150	N	1,500	N	>2,000	N
K0249CD	N	70	N	N	50	N	700	N	>2,000	N
K0250C	N	30	N	300	200	N	500	N	>2,000	N
K0251C	500	N	N	200	50	N	70	N	>2,000	N
K0252C	N	<10	N	1,000	50	N	50	N	500	N
K0253C	N	<10	N	700	100	N	300	N	>2,000	N
K0254C	N	30	N	200	300	N	500	<500	2,000	N
K0255C	N	N	N	500	20	N	30	N	700	N
K0256C	N	N	N	<200	150	N	100	<500	>2,000	N
K0257C	N	N	N	N	100	N	30	500	100	N
K0258C	N	30	N	200	200	N	200	<500	500	N
K0259C	N	50	N	200	300	N	200	N	>2,000	N
K0260C	N	N	N	N	20	N	50	500	300	N
K0261C	N	20	N	300	200	N	100	N	>2,000	N
K0262C	N	10	N	1,000	50	N	100	N	1,000	N
K0263C	N	<10	N	500	50	N	100	N	>2,000	N
K0264C	N	N	N	N	50	N	20	N	500	N
K0265C	N	N	N	700	50	N	70	N	>2,000	N
K0266C	N	N	N	200	50	N	100	<500	>2,000	N
K0267C	N	15	N	2,000	300	N	100	N	>2,000	N
K0268C	N	10	N	700	70	N	150	N	>2,000	N
K0269C	N	<10	N	700	50	N	30	N	700	N
K0270C	N	N	N	<200	70	N	100	<500	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K0271C	58 11 43	155 4 26	1.50	3.00	30.0	.70	1,000	N	N	N	<20	10,000
K0272C	58 11 50	155 4 54	1.00	7.00	2.0	.50	1,000	N	N	N	50	300
K0273C	58 12 57	155 9 51	1.50	5.00	5.0	.50	1,000	N	N	N	50	1,000
K0274C	58 12 55	155 10 5	1.00	5.00	3.0	>2.00	1,500	N	N	N	50	10,000
K0276C	58 10 59	155 6 59	.70	5.00	2.0	>2.00	1,000	N	N	N	50	1,000
K0277C	58 11 20	155 9 7	.20	5.00	1.5	.20	150	N	N	N	50	500
K0278C	58 9 59	155 10 0	1.00	7.00	7.0	>2.00	2,000	N	N	N	200	150
K0279C	58 9 59	155 10 12	1.00	3.00	5.0	>2.00	700	N	N	N	30	1,500
K0280C	58 9 35	155 11 46	.20	1.00	30.0	.20	100	N	N	N	<20	10,000
K0281C	58 9 17	155 9 54	.20	1.00	50.0	.50	200	N	N	N	<20	>10,000
K0282C	58 8 14	155 15 25	.30	.50	30.0	.70	300	N	N	N	<20	>10,000
K0283C	58 8 44	155 3 23	.50	2.00	1.0	.70	300	N	N	N	70	1,000
K0284C	58 8 14	155 12 45	1.00	5.00	2.0	>2.00	1,500	N	N	N	50	10,000
K0285C	58 7 38	155 13 50	.50	2.00	5.0	>2.00	700	N	N	N	2,000	>10,000
K0286C	58 6 27	155 11 56	.30	5.00	1.5	>2.00	1,000	N	N	N	200	200
K0287C	58 6 38	155 9 10	.50	5.00	3.0	>2.00	1,000	N	N	N	5,000	700
K0288C	58 8 30	155 9 9	.70	2.00	20.0	>2.00	1,000	N	N	N	500	1,000
K0289C	58 7 13	155 22 51	.30	5.00	15.0	1.00	200	N	N	N	<20	>10,000
K0290C	58 5 51	155 21 2	1.00	3.00	2.0	2.00	1,000	N	N	N	100	700
K0291C	58 5 27	155 20 11	.20	2.00	30.0	>2.00	700	N	N	N	200	200
K0292C	58 4 34	155 20 15	.20	7.00	3.0	>2.00	1,500	N	N	N	500	300
K0293C	58 2 53	155 20 13	.30	5.00	2.0	>2.00	2,000	N	N	N	1,000	1,000
K0294C	58 3 50	155 21 18	.20	3.00	2.0	>2.00	1,500	N	N	N	50	150
K0295C	58 2 14	155 22 22	.20	5.00	1.0	>2.00	1,000	N	N	N	100	700
K0296C	58 1 9	155 22 24	.10	5.00	1.0	>2.00	1,000	N	N	N	50	200
K0297C	58 7 46	155 27 23	.20	.50	30.0	.70	150	N	N	N	<20	>10,000
K0298C	58 5 38	155 4 35	.50	3.00	3.0	>2.00	1,000	N	N	N	500	1,000
K1000C	58 15 58	155 20 20	.30	3.00	1.0	.30	200	N	N	N	50	700
K1001C	58 16 16	155 20 12	.30	3.00	1.0	.50	200	N	N	N	100	700
K1002C	58 17 12	155 20 4	.30	5.00	1.5	.30	200	N	N	N	50	700
K1003C	58 17 46	155 20 1	.50	3.00	2.0	2.00	500	N	N	N	50	500
K1004C	58 18 8	155 20 6	.50	5.00	2.0	.70	500	N	N	N	50	1,000
K1005C	58 20 28	155 20 51	.20	5.00	1.5	.50	300	N	N	N	50	700
K1006C	58 20 44	155 21 55	.50	3.00	2.0	.70	500	N	N	N	50	1,000
K1007C	58 15 11	155 19 36	.30	5.00	1.5	.20	150	N	N	N	50	500
K1008C	58 15 12	155 19 31	.30	2.00	2.0	1.50	300	N	N	N	50	2,000
K1009C	58 15 20	155 19 0	.50	3.00	2.0	2.00	500	N	N	N	70	10,000
K1010C	58 16 3	155 19 9	.50	5.00	1.5	2.00	500	N	N	N	200	700
K1011C	58 16 30	155 19 0	.30	5.00	1.0	1.50	500	N	N	N	50	1,000
K1012C	58 17 31	155 18 12	.30	5.00	1.5	.50	200	N	N	N	50	1,000
K1013C	58 17 26	155 18 16	.30	3.00	3.0	>2.00	500	N	N	N	50	700
K1014C	58 18 7	155 19 19	.30	3.00	1.0	.50	200	N	N	N	50	700
K1015C	58 18 36	155 19 40	.30	3.00	2.0	.50	300	N	N	N	50	700
K1016C	58 19 43	155 19 32	.50	5.00	2.0	.70	500	N	N	N	50	700
K1016CD	58 19 43	155 19 32	.50	3.00	2.0	1.00	300	N	N	N	50	700
K1017C	58 17 1	155 22 45	.50	5.00	2.0	.20	300	N	N	N	50	500
K1018C	58 17 8	155 22 50	1.00	5.00	2.0	.50	700	N	N	N	50	500
K1019C	58 18 55	155 23 32	.20	5.00	1.0	.20	200	200.0	N	150	50	300
K1020C	58 18 50	155 23 12	2.00	10.00	5.0	.50	1,000	N	N	N	50	500
K1021C	58 19 45	155 25 0	.50	7.00	2.0	.50	500	N	N	N	100	700
K1022C	58 17 8	155 28 5	1.50	10.00	2.0	1.00	1,000	N	N	N	100	500
K1023C	58 17 13	155 27 55	.30	3.00	3.0	2.00	200	10.0	N	30	50	700
K1024C	58 18 0	155 28 35	.30	10.00	1.5	.30	500	50.0	N	300	50	500
K1025C	58 18 10	155 32 0	1.50	7.00	2.0	.20	1,000	N	N	N	70	500
K1026C	58 18 8	155 31 50	.50	10.00	1.5	.30	500	N	N	N	50	500
K1027C	58 18 0	155 33 15	.50	10.00	2.0	.70	700	N	N	N	70	300
K1028C	58 19 46	155 37 5	.50	5.00	1.5	.50	500	N	N	N	50	500
K1029C	58 19 42	155 37 0	.30	5.00	2.0	.10	200	N	N	N	50	700
K1030C	58 19 30	155 37 40	.50	7.00	2.0	.50	500	N	N	N	50	700
K1031C	58 20 35	155 38 40	.50	7.00	1.5	2.00	700	N	N	N	50	500

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K0271C	N	N	N	150	70	200	N	N	N	50	<20
K0272C	<2	N	N	10	30	<10	N	N	N	N	N
K0273C	<2	N	N	10	50	10	N	N	N	N	N
K0274C	N	N	N	20	50	50	200	N	<50	N	N
K0276C	<2	N	N	20	20	10	70	N	<50	N	N
K0277C	<2	N	N	<10	<20	<10	N	N	N	N	N
K0278C	N	N	N	100	50	100	500	<10	<50	100	70
K0279C	<2	N	N	20	100	30	100	N	N	20	N
K0280C	<2	N	N	100	<20	150	N	N	N	50	<20
K0281C	N	N	N	100	<20	150	N	N	N	50	20
K0282C	N	N	N	100	50	300	N	N	N	100	50
K0283C	<2	N	N	<10	<20	<10	N	N	N	N	N
K0284C	N	N	N	10	100	20	300	<10	<50	20	20
K0285C	N	N	N	30	100	100	200	N	50	<10	150
K0286C	N	N	N	N	30	<10	200	N	<50	N	N
K0287C	N	N	N	20	70	30	300	10	<50	70	<20
K0288C	<2	N	N	50	30	300	100	30	50	200	150
K0289C	N	N	N	50	<20	100	N	20	N	50	100
K0290C	<2	N	N	20	100	20	50	50	N	50	<20
K0291C	N	N	N	150	20	500	500	20	<50	100	50
K0292C	N	N	N	100	50	300	300	<10	<50	20	<20
K0293C	N	N	N	50	50	200	500	10	<50	N	<20
K0294C	N	N	N	50	20	20	200	N	<50	<10	N
K0295C	N	N	N	N	30	<10	150	N	<50	N	N
K0296C	N	N	N	N	20	<10	100	N	N	N	N
K0297C	N	N	N	200	<20	150	N	N	N	200	150
K0298C	<2	N	N	50	20	20	100	<10	70	30	<20
K1000C	<2	N	N	<10	<20	<10	N	N	N	N	N
K1001C	<2	N	N	<10	<20	<10	N	<10	N	N	N
K1002C	<2	N	N	<10	<20	<10	N	N	N	N	N
K1003C	<2	N	N	10	<20	30	50	N	N	N	N
K1004C	<2	N	N	10	<20	20	<50	N	N	N	70
K1005C	<2	N	N	<10	<20	<10	<50	N	N	N	50
K1006C	<2	N	N	<10	50	10	<50	N	N	<10	N
K1007C	<2	N	N	<10	<20	<10	N	N	N	N	N
K1008C	<2	N	N	<10	20	<10	N	N	N	N	200
K1009C	<2	N	N	10	20	20	<50	N	N	N	N
K1010C	<2	N	N	<10	20	10	50	N	N	N	N
K1011C	<2	N	N	<10	20	<10	50	N	N	N	N
K1012C	<2	N	N	<10	<20	<10	N	<10	N	N	50
K1013C	<2	N	N	10	30	15	100	<10	<50	N	N
K1014C	<2	N	N	<10	20	10	N	10	N	N	<20
K1015C	<2	N	N	<10	20	<10	<50	N	N	N	<20
K1016C	<2	N	N	<10	<20	70	N	N	N	N	<20
K1016CD	<2	N	N	<10	20	10	N	<10	N	N	N
K1017C	<2	N	N	10	<20	20	N	N	N	<10	N
K1018C	<2	N	N	10	20	30	N	20	N	N	100
K1019C	<2	N	N	<10	<20	<10	N	N	N	N	<20
K1020C	<2	N	N	20	30	30	N	N	N	<10	N
K1021C	<2	N	N	10	<20	10	<50	N	N	N	N
K1022C	<2	N	N	10	50	70	100	N	N	N	200
K1023C	<2	50	N	50	100	200	N	500	N	N	500
K1024C	<2	N	N	<10	<20	15	1,000	N	N	N	N
K1025C	<2	N	N	10	<20	15	100	N	N	N	<20
K1026C	<2	N	N	N	<20	10	700	N	N	N	20
K1027C	<2	N	N	<10	50	15	700	N	N	N	N
K1028C	<2	N	N	<10	<20	10	<50	N	N	N	<20
K1029C	<2	N	N	<10	<20	10	N	N	N	N	N
K1030C	<2	N	N	<10	<20	10	N	N	N	N	N
K1031C	<2	N	N	<10	20	10	100	N	N	N	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K0271C	N	50	N	<200	100	N	200	<500	>2,000	N
K0272C	N	20	N	700	70	N	100	N	>2,000	N
K0273C	N	20	N	1,000	70	N	150	N	>2,000	N
K0274C	N	50	<20	200	200	N	700	N	>2,000	N
K0276C	N	30	N	300	200	N	500	N	>2,000	N
K0277C	N	N	N	1,000	<20	N	20	N	>1,000	N
K0278C	N	50	20	N	300	N	1,000	N	>2,000	N
K0279C	N	50	50	200	500	N	500	N	>2,000	N
K0280C	N	N	N	200	50	N	100	<500	>2,000	N
K0281C	N	N	N	300	100	N	100	<500	>2,000	N
K0282C	N	N	N	1,500	70	N	100	3,000	>2,000	N
K0283C	N	15	N	N	20	N	100	N	>2,000	N
K0284C	N	70	30	N	300	N	1,500	N	>2,000	N
K0285C	N	50	20	200	300	N	1,500	N	>2,000	N
K0286C	N	100	<20	N	300	N	1,500	N	>2,000	N
K0287C	N	50	<20	<200	300	N	1,000	N	>2,000	N
K0288C	N	20	N	500	200	N	700	N	>2,000	N
K0289C	N	10	N	1,000	100	N	200	N	>2,000	N
K0290C	N	50	N	500	200	N	500	N	>2,000	N
K0291C	N	50	N	N	200	N	1,500	N	>2,000	N
K0292C	N	100	50	N	300	N	2,000	N	>2,000	N
K0293C	N	100	70	N	200	N	2,000	N	>2,000	N
K0294C	N	100	<20	N	300	N	2,000	N	>2,000	N
K0295C	N	150	200	N	200	N	2,000	N	>2,000	N
K0296C	N	100	N	N	200	N	1,500	N	>2,000	N
K0297C	N	N	N	3,000	100	N	200	N	>2,000	N
K0298C	N	50	<20	<200	200	N	700	N	>2,000	N
K1000C	N	<10	N	700	50	N	100	N	>2,000	N
K1001C	N	10	N	1,000	50	N	100	N	>2,000	N
K1002C	N	<10	N	1,000	20	N	70	N	>2,000	N
K1003C	N	10	N	200	100	N	200	N	>2,000	N
K1004C	N	10	N	1,000	30	N	100	N	>2,000	N
K1005C	N	<10	N	700	50	N	100	N	>2,000	N
K1006C	N	10	N	1,000	50	N	100	N	>2,000	N
K1007C	N	<10	N	1,000	<20	N	20	N	>2,000	N
K1008C	N	10	N	1,000	50	N	100	N	>2,000	N
K1009C	N	20	N	1,000	100	N	200	N	>2,000	N
K1010C	N	20	N	500	100	N	500	N	>2,000	N
K1011C	N	<10	N	300	100	N	200	N	>2,000	N
K1012C	N	<10	N	1,000	20	N	100	N	>2,000	N
K1013C	N	20	N	200	150	N	500	N	>2,000	N
K1014C	N	10	N	500	50	N	100	N	>2,000	N
K1015C	N	15	N	500	50	N	100	N	>2,000	N
K1016C	N	<10	N	1,000	30	N	70	N	>2,000	N
K1016CD	N	<10	N	700	100	N	100	N	>2,000	N
K1017C	N	<10	N	1,000	20	N	50	N	>2,000	N
K1018C	N	15	N	1,000	70	N	50	N	>1,000	N
K1019C	N	<10	N	700	<20	N	50	N	>2,000	N
K1020C	N	30	N	700	100	N	20	N	500	N
K1021C	N	<10	N	1,000	50	N	70	N	>2,000	N
K1022C	N	20	100	1,000	200	N	200	N	>2,000	N
K1023C	N	15	N	700	200	200	70	1,000	>2,000	N
K1024C	N	20	N	1,000	50	N	1,000	N	>2,000	<200
K1025C	N	20	N	500	20	N	150	N	>2,000	N
K1026C	N	20	N	500	50	N	1,000	N	>2,000	N
K1027C	N	10	N	1,000	100	N	500	N	>2,000	N
K1028C	N	<10	N	1,000	50	N	100	N	>2,000	N
K1029C	N	N	N	1,000	20	N	50	N	>2,000	N
K1030C	N	<10	N	1,000	20	N	100	N	>2,000	N
K1031C	N	15	N	1,000	200	N	500	N	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K1032C	58 27 5	155 32 35	.50	5.00	1.5	>2.00	1,000	N	N	N	70	700
K1033C	58 27 10	155 32 30	.50	5.00	2.0	>2.00	700	N	N	N	50	200
K1034C	58 28 55	155 26 40	2.00	7.00	5.0	2.00	1,500	N	N	N	50	700
K1035C	58 28 58	155 26 48	1.00	7.00	3.0	>2.00	700	N	N	500	50	200
K1036C	58 29 25	155 0 40	1.00	3.00	2.0	1.00	1,000	N	N	N	70	700
K1037C	58 29 18	155 0 45	1.00	7.00	3.0	>2.00	1,000	N	N	N	50	500
K1038C	58 29 43	154 55 0	3.00	5.00	5.0	2.00	2,000	N	N	N	100	700
K1038CR1	58 29 43	154 55 0	.50	2.00	3.0	>2.00	500	N	N	N	50	300
K1039C	58 27 51	154 58 45	1.00	7.00	2.0	.70	700	N	N	N	50	700
K1040C	58 24 58	154 56 28	2.00	10.00	5.0	2.00	2,000	<1.0	N	N	500	500
K1041C	58 23 52	154 56 35	1.00	1.00	3.0	.50	500	N	N	N	300	300
K1042C	58 26 15	154 53 55	2.00	10.00	5.0	2.00	1,500	N	N	N	100	700
K1043C	58 27 18	154 56 10	2.00	5.00	5.0	1.00	1,500	N	N	N	50	700
K1044C	58 22 30	154 49 50	1.00	7.00	5.0	1.00	1,000	1.0	N	N	50	500
K1045C	58 24 9	154 48 37	.50	7.00	2.0	2.00	700	N	N	N	50	700
K1049C	58 22 33	154 41 44	.50	3.00	5.0	1.00	200	N	N	N	20	>10,000
K1050C	58 29 49	154 52 30	.20	7.00	1.0	.10	200	N	N	N	50	1,500
K1051C	58 24 1	154 39 12	.20	.30	>50.0	.70	200	<1.0	500	N	<20	1,500
K1052C	58 23 40	154 40 38	3.00	10.00	20.0	1.50	1,000	N	N	N	50	1,000
K1053C	58 22 5	154 43 55	.30	7.00	10.0	.70	300	N	N	N	30	2,000
K1054C	58 26 59	154 35 32	10.00	10.00	10.0	.70	5,000	N	N	N	20	200
K1055C	58 28 8	154 37 50	.20	5.00	1.5	>2.00	1,000	N	N	N	50	500
K1056C	58 31 58	154 39 5	1.00	7.00	7.0	>2.00	1,500	N	N	N	500	5,000
K1057C	58 32 15	154 35 8	.70	7.00	15.0	>2.00	700	N	N	N	70	5,000
K1058C	58 30 32	154 53 52	.50	5.00	2.0	.50	500	N	N	N	50	700
K1059C	58 26 28	154 44 53	.50	3.00	7.0	.50	500	7.0	N	N	50	2,000
K1059CD	58 26 28	154 44 53	.50	3.00	15.0	1.00	300	5.0	500	N	50	1,000
K1060C	58 29 8	154 41 39	.50	3.00	2.0	2.00	500	N	N	N	200	2,000
K1061C	58 35 25	154 32 31	5.00	10.00	5.0	.30	1,000	N	N	N	50	100
K1062C	58 36 37	154 26 37	.50	7.00	10.0	.70	500	N	N	N	2,000	>10,000
K1063C	58 36 55	154 26 41	2.00	7.00	20.0	2.00	1,500	2.0	5,000	N	>5,000	2,000
K1064C	58 21 26	155 49 10	1.00	1.00	1.0	2.00	1,000	N	N	N	100	1,000
K1065C	58 24 10	155 46 47	.70	.50	1.0	.07	300	N	N	N	100	150
K1066C	58 23 58	155 45 39	.70	1.00	1.5	1.50	700	N	N	N	300	700
K1067C	58 24 22	155 41 56	.70	1.50	1.0	>2.00	1,000	<1.0	N	N	100	1,000
K1068C	58 17 17	155 44 10	.50	1.00	1.5	>2.00	700	N	N	N	100	1,000
K1069C	58 16 43	155 41 45	1.50	2.00	1.5	>2.00	1,000	N	N	N	100	500
K1070C	58 16 40	155 41 40	.70	2.00	1.5	1.00	300	N	N	N	100	1,000
K1072C	58 18 45	155 52 10	2.00	2.00	2.0	>2.00	2,000	N	N	N	100	700
K1073C	58 18 50	155 52 12	.20	1.00	1.0	>2.00	700	N	N	N	100	1,000
K1074C	58 15 15	155 48 31	.20	1.50	1.0	>2.00	300	N	N	N	100	700
K1076C	58 15 41	156 0 27	.70	1.50	1.0	1.50	500	N	N	N	100	1,000
K1078C	58 22 12	156 0 21	.70	1.00	1.0	>2.00	500	N	N	N	100	500
K1079C	58 28 31	156 7 45	.70	2.00	1.0	>2.00	1,500	N	N	N	200	700
K1080C	58 29 40	156 13 20	.70	1.50	1.0	2.00	1,000	N	N	N	100	700
K1081C	58 29 32	156 13 30	.70	1.50	1.0	>2.00	1,000	N	N	N	150	500
K2001C	58 55 42	155 46 56	.20	2.00	.7	>2.00	700	N	N	N	50	300
K2002C	58 54 53	155 48 51	.20	3.00	1.0	>2.00	700	N	N	N	20	200
K2003C	58 54 51	155 49 0	.30	3.00	1.0	>2.00	700	N	N	N	70	500
K2004C	58 51 39	155 48 43	.20	2.00	.5	>2.00	500	N	N	N	50	200
K2008C	58 48 51	155 48 41	.20	2.00	1.0	>2.00	500	N	N	N	50	300
K2011C	58 23 42	156 17 3	.30	2.00	1.5	2.00	500	N	N	N	50	300
K2012C	58 20 52	155 59 52	.10	2.00	1.0	2.00	500	N	N	N	50	500
K2013C	58 21 45	155 55 37	.30	.50	1.0	2.00	500	N	N	N	100	1,000
K2014C	58 26 21	155 48 16	.20	2.00	1.0	.20	500	N	N	N	50	1,000
K2016C	58 26 9	155 40 57	.15	3.00	.7	.70	200	N	N	N	50	500
K2017C	58 26 3	155 40 56	.20	5.00	1.0	1.00	500	N	N	N	50	500
K2018C	58 26 12	155 40 10	.20	3.00	1.0	.50	200	N	N	N	70	700
K2020C	58 34 10	155 54 48	.30	5.00	2.0	>2.00	1,000	50.0	N	500	50	10,000
K2022C	58 35 33	155 55 0	.20	5.00	1.5	>2.00	500	N	3,000	N	50	500

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K1032C	N	N	N	<10	20	15	100	N	N	N	50
K1033C	<2	N	N	<10	50	15	70	N	N	N	20
K1034C	<2	N	N	50	50	100	50	N	N	10	<20
K1035C	<2	N	N	70	100	150	200	N	N	N	N
K1036C	<2	N	N	20	100	20	N	N	N	N	<20
K1037C	<2	N	N	20	50	50	<50	N	N	<10	<20
K1038C	<2	N	N	50	200	50	50	N	<50	20	N
K1038CR1	<2	N	N	20	50	30	20	N	20	30	<20
K1039C	<2	N	N	10	30	20	<50	N	N	N	N
K1040C	<2	N	N	50	70	500	N	20	N	<10	300
K1041C	<2	N	N	10	20	70	N	10	N	<10	20
K1042C	<2	N	N	50	100	100	100	N	<50	20	300
K1043C	<2	N	N	50	100	50	N	N	N	20	<20
K1044C	<2	N	N	50	50	70	N	N	N	10	150
K1045C	<2	N	N	<10	30	100	N	70	N	N	500
K1049C	<2	N	N	N	20	10	N	N	N	N	150
K1050C	<2	N	N	<10	<20	15	N	N	N	N	N
K1051C	N	N	N	1,000	20	200	N	N	N	500	70
K1052C	<2	N	N	100	200	50	200	N	N	100	20
K1053C	<2	N	N	20	<20	100	N	N	N	10	<20
K1054C	<2	N	N	50	1,000	50	N	N	N	100	N
K1055C	<2	N	N	10	50	15	300	10	70	N	70
K1056C	<2	N	N	10	50	150	200	<10	<50	20	<20
K1057C	<2	N	N	30	100	150	150	<10	50	100	20
K1058C	<2	N	N	<10	<20	10	50	N	N	N	<20
K1059C	<2	N	N	20	<20	100	N	N	N	N	5,000
K1059CD	<2	N	N	50	<20	150	N	N	N	20	1,500
K1060C	<2	N	N	10	20	15	<50	<10	<50	N	N
K1061C	<2	N	N	50	700	50	N	N	N	50	N
K1062C	<2	N	N	50	20	100	50	N	N	100	50
K1063C	<2	N	N	50	200	200	500	15	50	200	150
K1064C	<2	N	N	10	50	10	300	N	N	N	300
K1065C	N	N	N	<10	20	<10	N	N	N	N	20
K1066C	N	N	N	10	70	20	N	N	N	N	100
K1067C	<2	N	N	10	30	10	100	N	N	N	2,000
K1068C	N	N	N	20	20	10	50	N	<50	N	500
K1069C	N	N	N	15	70	<10	200	N	N	N	50
K1070C	<2	N	N	<10	50	10	50	N	N	N	70
K1072C	N	N	N	30	100	<10	300	15	70	N	70
K1073C	N	N	N	<10	<20	<10	100	N	N	N	20
K1074C	N	N	N	<10	20	<10	N	100	N	N	<20
K1076C	N	N	N	<10	20	<10	200	N	N	N	50
K1078C	N	N	N	<10	70	<10	50	N	N	N	70
K1079C	N	N	N	10	100	<10	200	N	N	N	100
K1080C	N	N	N	<10	100	<10	<50	N	N	N	<20
K1081C	<2	N	N	10	100	<10	100	N	N	N	300
K2001C	<2	N	N	<10	20	20	50	N	N	N	<20
K2002C	<2	N	N	N	<20	15	200	N	N	N	<20
K2003C	<2	N	N	<10	50	10	100	N	N	N	20
K2004C	<2	N	N	N	30	<10	70	N	N	N	<20
K2008C	<2	N	N	<10	30	<10	100	10	N	N	N
K2011C	<2	N	N	<10	50	10	<50	N	N	N	20
K2012C	<2	N	N	<10	<20	<10	<50	N	N	N	<20
K2013C	N	N	N	N	20	<10	300	N	N	N	70
K2014C	<2	N	N	10	<20	<10	N	N	N	N	N
K2016C	N	N	N	<10	N	20	50	N	N	N	<20
K2017C	<2	N	N	<10	<20	15	50	N	N	N	20
K2018C	<2	N	N	<10	N	10	50	N	N	N	<20
K2020C	<2	N	100	20	100	150	100	N	N	N	20
K2022C	N	N	N	15	300	100	300	N	N	N	>50,000

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K1032C	N	50	N	N	200	N	1,000	N	>2,000	N
K1033C	N	70	<20	200	500	N	700	N	>2,000	N
K1034C	N	30	N	500	200	N	150	N	>2,000	N
K1035C	N	50	70	500	500	100	500	N	>2,000	N
K1036C	N	20	N	500	200	N	100	N	>2,000	N
K1037C	N	30	N	500	200	N	150	N	>2,000	N
K1038C	N	50	N	500	500	N	200	N	>2,000	N
K1038CR1	N	15	N	200	150	N	100	N	>2,000	N
K1039C	N	20	N	1,000	100	N	100	N	>2,000	N
K1040C	N	30	N	1,000	500	N	100	<500	>2,000	N
K1041C	N	15	N	200	50	N	20	N	>2,000	N
K1042C	N	50	N	700	500	N	200	N	>2,000	N
K1043C	N	20	N	700	300	N	50	N	2,000	N
K1044C	N	20	N	1,000	150	N	50	700	1,500	N
K1045C	N	20	N	500	300	N	100	1,500	>2,000	N
K1049C	N	<10	N	3,000	50	N	20	N	>2,000	N
K1050C	N	N	N	1,000	<20	N	20	N	2,000	N
K1051C	N	10	N	N	50	N	20	500	2,000	N
K1052C	N	50	N	700	100	N	200	N	>2,000	N
K1053C	N	<10	N	1,000	20	N	100	N	>2,000	N
K1054C	N	70	N	300	300	N	70	N	>2,000	N
K1055C	N	20	20	500	300	N	700	N	>2,000	N
K1056C	N	30	N	500	200	N	500	N	>2,000	N
K1057C	N	30	20	500	300	N	500	N	>2,000	N
K1058C	N	<10	N	1,000	20	N	100	N	>2,000	N
K1059C	N	<10	N	700	50	N	50	1,000	>2,000	N
K1059CD	N	<10	N	500	50	N	150	1,500	>2,000	N
K1060C	N	<10	N	500	150	N	100	N	>2,000	N
K1061C	N	30	N	1,500	200	N	50	N	>2,000	N
K1062C	N	20	N	1,000	100	N	200	N	>2,000	N
K1063C	N	50	N	1,000	200	N	500	N	>2,000	N
K1064C	N	50	20	N	100	N	700	N	>2,000	N
K1065C	N	50	N	N	50	N	1,000	N	>2,000	N
K1066C	N	100	N	N	100	N	1,500	N	>2,000	N
K1067C	N	70	<20	N	200	N	1,000	N	>2,000	N
K1068C	N	30	50	<200	100	N	200	N	>2,000	N
K1069C	N	30	N	500	100	N	200	N	>2,000	N
K1070C	N	15	N	1,000	50	N	150	N	>2,000	N
K1072C	N	100	100	N	200	N	1,500	N	>2,000	N
K1073C	N	50	20	N	100	N	1,000	N	>2,000	N
K1074C	N	50	N	<200	70	300	500	<500	>2,000	N
K1076C	N	20	N	200	70	<100	150	N	>2,000	N
K1078C	N	100	<20	N	100	N	1,000	N	>2,000	N
K1079C	N	70	20	N	200	N	1,000	N	>2,000	N
K1080C	N	20	N	700	100	N	500	N	>2,000	N
K1081C	N	30	<20	N	200	N	500	N	>2,000	N
K2001C	N	70	N	<200	200	N	1,000	N	>2,000	N
K2002C	N	70	N	N	200	N	1,000	N	>2,000	N
K2003C	N	50	N	<200	300	N	500	N	>2,000	N
K2004C	N	70	N	<200	300	N	1,000	N	>2,000	N
K2008C	N	70	N	<200	200	N	700	N	>2,000	N
K2011C	N	30	N	200	200	N	500	N	>2,000	N
K2012C	N	150	N	N	50	N	1,500	N	>2,000	N
K2013C	N	50	N	N	100	N	1,000	N	>2,000	200
K2014C	N	15	N	500	20	N	200	N	>2,000	N
K2016C	N	100	N	<200	50	N	1,000	N	>2,000	N
K2017C	N	70	N	<200	70	N	1,000	N	>2,000	<200
K2018C	N	70	N	<200	20	N	1,000	N	>2,000	N
K2020C	N	70	<20	200	500	N	700	5,000	>2,000	N
K2022C	N	50	<20	300	300	N	500	N	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K2023C	58 36 7	155 51 52	.30	2.00	1.0	>2.00	500	N	N	N	200	3,000
K2023CD	58 36 7	155 51 52	.70	2.00	2.0	>2.00	1,000	100.0	N	700	500	3,000
K2025C	58 33 50	156 13 40	.70	1.00	1.5	>2.00	700	N	N	N	100	700
K2026C	58 37 47	154 41 35	.20	1.00	1.0	>2.00	500	N	N	N	100	200
K2027C	58 37 18	154 41 55	.70	2.00	1.0	>2.00	1,500	N	N	N	100	700
K2028C	58 38 17	154 44 35	.20	1.50	1.0	>2.00	1,000	N	N	N	100	1,500
K2029C	58 38 28	154 47 20	.20	1.00	.7	>2.00	500	N	N	N	100	100
K2030C	58 40 30	154 49 20	.20	1.50	2.0	>2.00	1,000	N	N	N	500	70
K2030CD	58 40 30	154 49 20	.50	2.00	7.0	>2.00	1,000	2.0	N	100	5,000	500
K2031C	58 41 10	154 47 10	.50	2.00	1.0	>2.00	1,500	N	N	N	100	300
K2032C	58 42 10	154 44 50	.20	1.50	1.5	>2.00	1,000	N	N	N	500	700
K2033C	58 43 0	154 43 10	.10	.50	30.0	.50	200	N	N	N	<20	50
K2034C	58 42 58	154 43 0	.50	2.00	1.0	>2.00	1,000	N	N	N	100	100
K2036C	58 1 33	155 43 28	.20	1.50	20.0	.30	200	N	N	N	50	>10,000
K2038C	58 5 19	155 43 17	.50	1.50	2.0	>2.00	1,500	N	N	N	70	500
K2039C	58 4 57	155 53 0	2.00	5.00	3.0	1.00	1,000	N	N	N	50	200
K2040C	58 4 55	155 52 35	3.00	5.00	5.0	2.00	1,500	N	N	N	50	500
K2041C	58 5 0	155 51 58	1.00	2.00	1.5	2.00	700	N	N	N	50	300
K2043C	58 0 59	155 49 10	2.00	5.00	20.0	.70	1,000	<1.0	N	N	50	1,000
K2044C	58 1 10	155 49 12	7.00	7.00	10.0	.70	2,000	N	N	N	20	100
K2045C	58 51 32	155 31 12	.10	.70	.5	.70	100	N	N	N	50	300
K2046C	58 37 1	154 21 15	.20	1.50	10.0	1.50	1,000	N	N	N	50	>10,000
K2047C	58 37 15	154 21 14	.10	1.00	10.0	2.00	500	300.0	N	>1,000	50	>10,000
K2048C	58 37 15	154 21 40	.30	2.00	15.0	2.00	1,000	N	N	N	5,000	3,000
K2049C	58 36 35	154 23 45	.50	2.00	30.0	.70	1,000	2.0	N	N	50	>10,000
K2050C	58 34 57	154 27 5	.70	5.00	5.0	1.50	1,000	N	N	N	50	>10,000
K2051C	58 36 40	154 31 9	.50	5.00	3.0	2.00	700	N	N	N	3,000	>10,000
K2052C	58 36 53	154 35 12	.30	3.00	1.5	1.00	500	N	N	N	70	3,000
K2053C	58 41 3	154 35 11	.30	1.50	2.0	>2.00	1,000	N	N	N	100	1,000
K2054C	58 41 12	154 35 41	.30	2.00	2.0	>2.00	500	N	N	N	70	500
K2055C	58 14 17	155 17 9	.50	5.00	15.0	.30	200	N	N	N	50	1,500
K2058C	58 14 3	155 22 15	.30	.50	20.0	.50	300	N	N	N	20	>10,000
K2059C	58 12 46	155 23 39	.30	1.00	.7	.10	100	N	N	N	30	300
K2060C	58 12 2	155 25 30	.30	1.00	20.0	.70	200	N	N	N	20	5,000
K2061C	58 14 35	155 25 19	.30	1.00	.7	.10	200	5.0	N	N	30	500
K2062C	58 14 33	155 27 22	1.00	5.00	1.5	>2.00	1,000	70.0	N	300	100	1,000
K2063C	58 14 53	155 31 32	.50	2.00	1.5	2.00	500	N	N	N	200	500
K2064C	58 12 11	155 36 11	.50	1.00	1.0	1.00	500	N	N	N	50	700
K2065C	58 11 17	155 38 0	.30	1.50	1.0	>2.00	700	N	N	N	50	1,000
K2066C	58 8 43	155 30 27	.20	1.00	20.0	1.00	500	N	N	N	30	5,000
K2066CD	58 8 43	155 30 27	.10	.70	10.0	.70	300	N	N	N	100	>10,000
K2067C	58 9 4	155 35 8	.20	1.00	1.0	1.50	500	N	N	N	100	1,000
K2068C	58 7 50	155 31 0	.30	5.00	3.0	>2.00	1,000	N	N	N	70	500
K2069C	58 7 41	155 32 8	.30	5.00	3.0	>2.00	1,000	N	N	N	500	200
K2070C	58 8 10	155 34 44	1.00	1.50	2.0	1.50	2,000	N	N	N	100	1,000
K2071C	58 6 40	155 33 9	.20	2.00	2.0	>2.00	700	N	N	N	50	300
K2072C	58 45 21	155 33 11	.10	1.00	1.0	.50	500	N	N	N	300	500
K2073C	58 44 17	155 22 35	.70	1.50	1.0	2.00	500	N	N	N	100	>10,000
K2074C	58 49 55	155 34 50	3.00	1.50	1.5	>2.00	1,500	N	N	N	70	>10,000
K2076C	58 44 38	155 23 55	.50	1.50	1.0	.70	300	N	N	N	100	>10,000
K2077C	58 40 58	155 22 0	.50	1.50	1.0	1.00	700	N	N	N	100	500
K2078C	58 33 54	155 37 10	1.00	1.50	1.0	>2.00	1,000	N	N	N	100	200
K2079C	58 48 27	155 43 52	.05	1.00	.2	.05	150	N	N	N	100	200
K2081C	58 50 50	155 43 51	1.00	1.50	1.0	>2.00	1,000	N	N	N	100	700
K2081CD	58 50 50	155 43 51	.50	1.00	1.0	>2.00	700	N	N	N	100	700
K2082C	58 15 47	155 57 21	.15	1.00	.7	>2.00	200	N	N	N	100	700
K2083C	58 8 1	156 16 10	.20	1.00	1.0	>2.00	1,000	N	N	N	100	1,000
K2084C	58 5 19	156 17 57	.50	1.00	1.5	>2.00	700	N	N	N	100	700
K2085C	58 4 34	156 19 40	.07	.50	.5	.03	150	N	N	N	100	500
K2086C	58 4 19	156 8 58	.07	.70	.5	.20	150	N	N	N	100	500

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K2023C	N	200	N	70	70	100	200	<10	50	N	150
K2023CD	N	500	N	200	150	50	500	20	70	10	300
K2025C	N	N	N	10	70	<10	<50	N	N	N	200
K2026C	N	N	N	<10	20	<10	300	<10	<50	N	30
K2027C	N	N	N	10	100	<10	500	<10	50	N	200
K2028C	N	N	N	10	30	<10	300	<10	50	N	20
K2029C	N	N	N	10	50	<10	200	N	70	N	50
K2030C	N	N	N	100	<20	100	300	<10	N	<10	100
K2030CD	N	N	N	100	50	150	300	15	N	30	100
K2031C	N	N	N	10	50	10	700	<10	<50	N	50
K2032C	N	N	N	70	50	50	300	<10	N	<10	50
K2033C	N	N	N	150	<20	200	N	<10	N	100	70
K2034C	N	N	N	50	50	15	300	N	N	N	30
K2036C	N	N	N	200	<20	100	N	N	N	20	20
K2038C	N	N	N	50	50	20	300	<10	70	N	50
K2039C	N	N	N	20	50	20	N	N	N	<10	100
K2040C	N	N	N	30	100	50	N	70	N	20	70
K2041C	N	N	N	20	100	10	<50	N	<50	N	50
K2043C	N	N	N	50	50	100	<50	N	N	100	50
K2044C	N	N	N	70	200	15	N	N	N	100	N
K2045C	N	N	N	N	N	<10	N	N	N	N	N
K2046C	N	N	N	70	30	300	200	20	<50	200	100
K2047C	<2	N	200	50	<20	100	<50	N	N	100	<20
K2048C	N	N	N	70	100	200	200	20	50	200	100
K2049C	<2	N	N	100	20	500	N	50	N	500	100
K2050C	N	N	N	30	30	70	150	N	N	100	50
K2051C	<2	N	N	10	50	20	100	N	N	20	N
K2052C	<2	N	N	10	20	10	N	N	N	N	<20
K2053C	N	N	N	20	30	20	200	<10	N	N	70
K2054C	<2	N	N	10	<20	10	200	N	<50	N	<20
K2055C	<2	N	N	50	<20	50	N	N	N	N	N
K2058C	N	N	N	200	20	300	N	N	N	200	100
K2059C	N	N	N	<10	<20	20	N	N	N	N	50
K2060C	N	N	N	100	<20	500	N	N	N	100	100
K2061C	N	N	N	<10	20	20	N	N	N	N	50
K2062C	N	N	N	20	30	50	50	N	N	<10	1,000
K2063C	<2	N	N	<10	<20	15	<50	N	N	N	N
K2064C	N	N	N	<10	30	200	N	N	N	N	50
K2065C	N	N	N	<10	20	10	100	N	<50	N	<20
K2066C	N	N	N	50	<20	500	N	10	N	N	200
K2066CD	N	N	N	20	N	20	N	N	N	N	500
K2067C	N	N	N	<10	<20	15	N	N	N	N	N
K2068C	<2	N	N	50	<20	15	150	N	<50	10	<20
K2069C	<2	N	N	15	20	20	150	N	<50	20	N
K2070C	N	N	N	15	100	50	<50	N	N	N	<20
K2071C	<2	N	N	20	<20	20	50	N	N	30	<20
K2072C	N	N	N	N	<20	<10	N	N	N	N	20
K2073C	N	N	N	10	70	10	50	N	N	N	20
K2074C	N	N	N	50	500	10	100	N	N	<10	20
K2076C	N	N	N	10	100	<10	N	N	N	N	N
K2077C	N	N	N	<10	20	15	100	N	N	N	50
K2078C	N	N	N	10	70	10	200	10	N	N	70
K2079C	N	N	N	N	N	<10	N	<10	N	N	N
K2081C	N	N	N	10	100	10	200	<10	N	N	50
K2081CD	N	N	N	10	100	10	150	N	N	N	N
K2082C	N	N	N	<10	<20	<10	N	N	N	N	N
K2083C	N	N	N	<10	30	<10	<50	N	N	N	<20
K2084C	N	N	N	10	50	15	N	N	N	N	30
K2085C	N	N	N	N	N	<10	N	N	N	N	N
K2086C	N	N	N	N	<20	<10	N	<10	N	N	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K2023C	N	20	30	200	300	200	200	700	>2,000	N
K2023CD	N	30	200	<200	500	<100	500	N	>2,000	N
K2025C	N	30	N	N	200	N	300	N	>2,000	N
K2026C	N	30	<20	N	200	N	1,000	N	>2,000	N
K2027C	N	50	20	N	200	N	500	N	>2,000	N
K2028C	N	30	20	N	200	N	1,000	N	>2,000	N
K2029C	N	30	20	N	200	N	1,000	N	>2,000	N
K2030C	N	50	20	N	200	N	1,000	N	>2,000	N
K2030CD	N	50	<20	N	200	N	1,000	N	>2,000	<200
K2031C	N	70	30	N	200	N	1,500	N	>2,000	N
K2032C	N	50	<20	N	200	N	1,000	N	>2,000	N
K2033C	N	N	N	N	30	N	150	<500	>2,000	N
K2034C	N	50	<20	N	200	N	1,500	N	>2,000	N
K2036C	N	10	N	5,000	50	N	70	N	>2,000	N
K2038C	N	50	20	N	300	N	1,000	N	>2,000	N
K2039C	N	20	N	1,000	100	N	70	N	>2,000	N
K2040C	N	30	N	1,000	200	N	150	N	>2,000	N
K2041C	N	20	N	<200	200	N	300	N	>2,000	N
K2043C	N	20	N	700	200	N	150	N	>2,000	N
K2044C	N	70	N	700	200	N	50	N	>2,000	N
K2045C	N	200	N	N	100	N	1,500	N	>2,000	N
K2046C	N	<10	N	500	100	N	200	500	>2,000	N
K2047C	N	70	N	200	150	N	1,000	2,000	>2,000	N
K2048C	N	10	N	500	200	N	200	N	>2,000	N
K2049C	N	<10	N	1,000	100	N	200	N	>2,000	N
K2050C	N	30	N	500	150	N	200	N	>2,000	N
K2051C	N	20	N	500	150	N	300	1,500	>2,000	N
K2052C	N	10	N	700	100	N	100	N	>2,000	N
K2053C	N	50	<20	N	200	N	1,000	5,000	>2,000	N
K2054C	N	50	<20	N	300	N	700	N	>2,000	N
K2055C	N	<10	N	700	20	N	100	N	>2,000	N
K2058C	N	10	N	<200	100	N	100	<500	>2,000	N
K2059C	N	10	N	500	20	N	50	N	500	N
K2060C	N	<10	N	<200	100	N	50	N	>2,000	N
K2061C	N	<10	N	500	20	N	50	N	200	N
K2062C	N	30	N	1,000	200	N	200	N	>2,000	<200
K2063C	N	20	N	200	100	N	200	N	>2,000	N
K2064C	N	20	20	<200	70	N	200	N	>2,000	N
K2065C	N	30	<20	N	150	N	500	N	>2,000	N
K2066C	N	10	N	N	50	N	200	<500	>2,000	N
K2066CD	N	20	N	700	50	N	300	1,000	>2,000	N
K2067C	N	20	N	<200	100	N	200	N	>2,000	N
K2068C	N	100	<20	N	200	N	1,000	N	>2,000	N
K2069C	N	70	20	N	200	N	1,000	N	>2,000	N
K2070C	N	20	<20	<200	100	N	200	N	>2,000	N
K2071C	N	100	N	N	200	N	1,000	N	>2,000	N
K2072C	N	50	N	N	30	N	700	N	>2,000	N
K2073C	N	20	N	200	150	<100	200	N	>2,000	N
K2074C	N	50	20	200	200	N	200	N	>2,000	N
K2076C	N	10	N	1,000	50	N	100	N	>2,000	N
K2077C	N	50	<20	N	100	<100	500	N	>2,000	N
K2078C	N	50	50	N	200	N	500	N	>2,000	N
K2079C	N	70	N	N	30	N	1,000	N	>2,000	N
K2081C	N	30	<20	500	200	N	500	N	>2,000	N
K2081CD	N	50	N	N	100	N	500	N	>2,000	N
K2082C	N	20	N	N	100	N	200	N	>2,000	N
K2083C	N	20	N	500	100	N	300	N	>2,000	N
K2084C	N	50	N	N	100	N	1,000	N	>2,000	N
K2085C	N	50	N	N	20	N	200	N	>2,000	N
K2086C	N	20	N	N	30	N	200	N	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K2088C	58 2 49	156 1 22	.20	1.50	1.0	.20	500	N	N	N	100	500
K2090C	58 6 58	156 0 30	<.05	.50	.2	.02	50	N	N	N	100	100
K2091C	58 4 5	155 34 59	.07	1.50	1.0	.05	200	N	N	N	200	500
K2092C	58 4 14	155 34 30	.20	2.00	1.0	>2.00	1,000	N	N	N	100	500
K2093C	58 4 27	155 34 30	.20	1.50	1.5	>2.00	1,500	N	N	N	500	500
K2094C	58 4 21	155 41 42	.50	1.50	2.0	1.00	500	N	N	N	100	>10,000
K2095C	58 13 21	155 54 20	.20	1.00	1.0	>2.00	500	70.0	N	300	100	500
K2096C	58 12 10	156 13 35	.50	1.50	1.0	>2.00	1,000	N	N	N	100	500
K2097C	58 10 9	156 8 5	1.00	1.50	1.0	>2.00	1,000	N	N	N	100	700
K2098C	58 9 40	156 3 27	.50	2.00	1.0	>2.00	1,000	N	N	N	100	700
K2099C	58 12 10	156 1 30	.70	1.50	1.5	>2.00	1,000	N	N	N	150	700
K2100C	58 14 5	156 6 0	.20	2.00	2.0	>2.00	500	N	N	N	50	500
K2102C	58 2 12	156 24 0	.70	1.50	1.0	>2.00	1,000	N	N	N	100	700
K2103C	58 3 12	156 26 22	.70	2.00	1.0	>2.00	1,500	N	N	N	100	700
K2109C	58 35 23	155 17 42	.50	3.00	1.5	2.00	500	N	N	N	200	500
K2113C	58 39 0	155 10 32	.50	5.00	1.5	>2.00	1,000	N	N	N	50	500
K2114C	58 40 12	155 13 50	1.50	2.00	2.0	2.00	1,000	N	N	N	100	1,500
K2115C	58 40 2	155 5 39	1.00	2.00	1.5	>2.00	2,000	N	N	N	100	1,000
K2118C	58 42 0	155 6 21	.70	5.00	3.0	2.00	700	N	N	N	1,500	1,000
K2119C	58 43 5	155 4 7	1.00	2.00	1.5	>2.00	2,000	N	N	N	700	500
K2120C	58 42 50	155 1 24	.50	2.00	1.0	2.00	500	5.0	N	N	100	700
K2121C	58 41 52	154 59 20	2.00	2.00	2.0	1.00	1,500	N	N	N	100	700
K2122C	58 44 0	154 54 45	.50	7.00	2.0	1.00	700	N	N	N	50	500
K2123C	58 47 25	156 24 0	.20	2.00	1.0	>2.00	300	N	N	N	100	300
K2124C	58 48 24	156 23 1	.30	3.00	1.0	>2.00	700	N	N	N	150	700
K2128C	58 51 8	156 18 30	.50	3.00	1.0	>2.00	500	N	N	N	200	500
K2129C	58 49 33	156 18 0	.30	2.00	1.0	>2.00	200	N	N	N	100	700
K2131C	58 46 42	156 4 55	.20	2.00	1.5	>2.00	500	N	N	N	100	300
K2131CD	58 46 42	156 4 55	.30	3.00	1.0	>2.00	500	N	N	N	50	300
K2132C	58 50 19	156 4 38	.50	5.00	1.5	>2.00	1,000	N	N	N	70	200
K2133C	58 52 17	156 0 45	.05	1.00	.5	.20	500	<1.0	N	N	50	200
K2134C	58 52 12	156 7 10	.20	2.00	1.0	2.00	500	N	N	N	50	500
K2135C	58 52 21	156 7 11	.20	2.00	.7	1.50	500	N	N	N	50	700
K2136C	58 53 2	156 13 56	.30	7.00	1.5	>2.00	1,000	N	N	N	70	300
K2137C	58 56 7	156 17 38	.07	2.00	.5	2.00	200	N	N	N	200	500
K2139C	58 58 0	156 6 56	.20	2.00	.7	>2.00	200	N	N	N	100	200
K2140C	58 57 49	156 4 18	.20	2.00	.5	>2.00	300	50.0	N	200	70	300
K2141C	58 57 52	156 4 30	.30	3.00	1.0	>2.00	700	N	N	N	200	200
K2142C	58 43 19	155 8 30	.20	3.00	1.0	1.00	300	N	N	N	50	700
K2143C	58 44 31	155 10 30	.50	5.00	2.0	2.00	500	N	N	N	70	700
K2144C	58 43 57	155 13 0	.10	2.00	.5	.70	200	N	N	N	50	500
K2145C	58 47 50	155 12 30	.30	5.00	1.5	1.50	700	N	N	N	70	5,000
K2146C	58 49 17	155 14 11	.50	3.00	2.0	1.00	500	N	N	N	100	1,000
K2147C	58 52 39	155 17 11	.20	2.00	1.5	.20	300	N	N	N	50	2,000
K2147CD	58 52 39	155 17 11	.10	3.00	1.0	.20	150	1,500.0	N	>1,000	50	500
K2148C	58 52 45	155 17 0	.30	3.00	1.0	>2.00	500	N	N	N	50	300
K2149C	58 53 44	155 23 30	.10	2.00	1.0	1.00	700	N	N	N	50	500
K2150C	58 46 54	155 54 5	.10	2.00	.5	.20	150	N	N	N	50	500
K2151C	58 53 8	155 24 35	.10	2.00	.5	.20	200	N	N	N	50	500
K2152C	58 46 23	155 51 48	.30	2.00	1.0	2.00	500	N	N	N	50	700
K2501C	58 19 34	155 17 15	.70	5.00	2.0	.50	500	1.5	N	N	50	700
K2502C	58 18 47	155 16 28	.20	5.00	1.5	.50	300	N	N	N	50	1,000
K2503C	58 16 43	155 16 21	.20	3.00	1.0	.70	200	N	N	N	50	700
K2504C	58 15 57	155 16 25	.30	3.00	1.5	>2.00	700	N	N	N	50	700
K2507C	58 16 58	155 5 5	.30	1.00	50.0	.20	200	N	N	N	<20	1,000
K2508C	58 18 16	155 4 40	1.50	5.00	2.0	.30	1,500	N	N	N	100	700
K2509C	58 18 30	155 5 10	.20	5.00	5.0	.20	300	2.0	N	N	50	5,000
K2511C	58 19 20	155 9 11	.20	7.00	20.0	.20	200	N	N	N	20	700
K2512C	58 21 0	155 11 11	.30	5.00	10.0	.30	300	N	N	N	20	5,000
K2513C	58 21 0	155 11 21	.10	2.00	1.0	.10	200	N	N	N	N	5,000

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K2088C	N	N	N	N	<20	<10	N	N	N	N	<20
K2090C	N	N	N	N	N	<10	N	N	N	N	N
K2091C	N	N	N	N	<20	<10	N	N	N	N	20
K2092C	N	N	N	50	20	15	200	N	N	N	50
K2093C	N	N	N	30	<20	10	200	N	N	N	50
K2094C	N	N	N	20	20	20	N	N	N	N	N
K2095C	N	N	N	100	<20	<10	N	N	N	N	100
K2096C	N	N	N	20	100	<10	50	N	50	N	N
K2097C	N	N	N	70	100	10	100	<10	<50	N	20
K2098C	N	N	N	10	100	<10	150	<10	50	N	<20
K2099C	N	N	N	20	100	<10	100	<10	50	N	<20
K2100C	<2	N	N	<10	<20	<10	<50	N	N	N	N
K2102C	N	N	N	10	100	100	200	<10	50	N	N
K2103C	N	N	N	15	150	<10	200	<10	<50	N	20
K2109C	<2	N	N	<10	50	50	50	N	N	N	200
K2113C	<2	N	N	<10	20	<10	100	N	<50	N	N
K2114C	N	N	N	50	100	20	100	N	N	N	20
K2115C	N	N	N	20	150	20	150	N	50	N	N
K2118C	<2	N	100	50	100	200	<50	N	N	N	N
K2119C	N	N	N	20	100	300	300	<10	<50	N	20
K2120C	N	N	N	30	70	2,000	300	50	N	N	N
K2121C	N	N	N	50	150	50	<50	N	N	N	N
K2122C	<2	N	N	<10	<20	<10	50	N	N	N	N
K2123C	<2	N	N	<10	30	<10	100	N	N	N	N
K2124C	<2	N	N	N	50	<10	50	N	N	N	N
K2128C	<2	N	N	<10	70	10	100	N	N	N	200
K2129C	<2	N	N	<10	30	<10	<50	N	N	N	N
K2131C	<2	N	N	<10	50	10	<50	10	N	20	N
K2131CD	<2	N	N	N	20	10	100	N	N	N	N
K2132C	<2	N	N	<10	50	10	200	N	N	N	N
K2133C	N	N	N	N	N	10	<50	N	N	N	N
K2134C	<2	N	N	N	20	10	<50	N	N	N	N
K2135C	<2	N	N	N	20	10	<50	N	N	N	N
K2136C	N	N	N	<10	50	<10	700	N	N	N	N
K2137C	N	N	N	N	50	<10	<50	N	N	N	N
K2139C	<2	N	N	N	20	10	100	N	N	N	N
K2140C	<2	N	N	<10	20	10	<50	N	N	N	N
K2141C	<2	N	N	<10	50	<10	150	N	N	N	N
K2142C	<2	N	N	N	<20	10	100	N	N	N	N
K2143C	<2	N	N	20	20	15	<50	N	N	N	N
K2144C	N	N	N	N	N	<10	<50	N	N	N	N
K2145C	<2	N	N	N	<20	10	150	N	N	N	N
K2146C	<2	N	N	N	<20	20	N	N	N	N	N
K2147C	<2	N	N	<10	20	<10	<50	N	N	N	N
K2147CD	<2	N	N	N	<20	10	N	N	N	N	N
K2148C	<2	N	N	N	20	<10	200	N	N	N	N
K2149C	<2	N	N	N	<20	<10	<50	N	N	N	N
K2150C	<2	N	N	<10	N	15	50	N	N	N	N
K2151C	<2	N	N	N	<20	<10	<50	N	N	N	N
K2152C	<2	N	N	<10	<20	15	<50	N	N	N	N
K2501C	<2	N	N	<10	20	15	N	N	N	N	N
K2502C	<2	N	N	<10	<20	<10	<50	N	N	N	20
K2503C	<2	N	N	<10	<20	10	N	N	N	N	N
K2504C	<2	N	N	<10	20	10	50	N	<50	N	N
K2507C	<2	N	N	200	<20	200	N	N	N	100	30
K2508C	<2	N	N	10	20	200	N	N	N	N	100
K2509C	<2	N	N	20	<20	15	<50	N	N	N	1,500
K2511C	<2	N	N	100	<20	200	N	N	N	30	50
K2512C	<2	N	N	20	<20	20	N	N	N	N	N
K2513C	<2	N	N	N	<20	<10	N	N	N	N	<20

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K2088C	N	50	N	N	50	N	500	N	>2,000	N
K2090C	N	20	N	N	20	N	150	N	>2,000	N
K2091C	N	50	N	N	30	N	1,000	N	>2,000	N
K2092C	N	50	N	N	150	N	1,500	N	>2,000	N
K2093C	N	70	N	N	200	N	1,500	N	>2,000	N
K2094C	N	20	N	1,000	50	N	200	N	>2,000	N
K2095C	N	30	N	N	50	N	500	N	>2,000	N
K2096C	N	20	20	N	150	N	500	N	>2,000	N
K2097C	N	20	30	N	200	N	700	N	>2,000	N
K2098C	N	20	50	N	200	N	1,000	N	>2,000	N
K2099C	N	30	20	N	200	N	500	N	>2,000	N
K2100C	N	50	N	<200	200	N	700	N	>2,000	N
K2102C	N	20	20	N	200	N	500	N	>2,000	N
K2103C	N	30	30	<200	200	N	500	N	>2,000	N
K2109C	N	50	N	<200	200	N	500	N	>2,000	N
K2113C	N	10	N	500	200	N	300	N	>2,000	N
K2114C	N	30	<20	<200	200	200	300	N	>2,000	N
K2115C	N	30	<20	500	300	N	300	N	>2,000	N
K2118C	N	50	N	200	150	N	700	1,000	>2,000	N
K2119C	N	20	<20	N	500	N	500	N	>2,000	N
K2120C	N	20	<20	<200	200	1,000	200	N	>2,000	N
K2121C	N	30	N	1,000	200	N	100	N	>2,000	N
K2122C	N	<10	N	1,000	50	N	150	N	>2,000	N
K2123C	N	70	<20	<200	200	N	700	N	>2,000	N
K2124C	N	50	N	200	200	N	500	N	>2,000	N
K2128C	N	30	N	200	200	N	500	N	>2,000	N
K2129C	N	30	N	<200	150	N	500	N	>2,000	N
K2131C	N	70	N	<200	200	N	1,000	N	>2,000	N
K2131CD	N	70	N	N	200	N	1,000	N	>2,000	N
K2132C	N	100	N	N	300	N	1,000	N	>2,000	N
K2133C	N	100	N	N	20	N	1,000	N	>2,000	N
K2134C	N	50	N	N	100	N	1,000	N	>2,000	N
K2135C	N	30	N	<200	70	N	500	N	>2,000	N
K2136C	N	50	<20	<200	300	N	700	N	>2,000	N
K2137C	N	100	N	N	100	N	1,000	N	>2,000	N
K2139C	N	70	N	N	300	N	2,000	N	>2,000	N
K2140C	N	70	N	N	200	N	1,500	N	>2,000	N
K2141C	N	100	<20	N	300	N	1,000	N	>2,000	N
K2142C	N	30	N	<200	50	N	500	N	>2,000	N
K2143C	N	30	N	<200	100	N	500	N	>2,000	N
K2144C	N	50	N	<200	20	N	500	N	>2,000	N
K2145C	N	30	N	<200	70	N	500	N	>2,000	N
K2146C	N	20	N	500	70	N	200	N	>2,000	N
K2147C	N	20	N	700	20	N	200	N	>2,000	N
K2147CD	N	N	N	1,000	<20	N	20	N	>2,000	N
K2148C	N	50	N	<200	200	<100	1,000	N	>2,000	N
K2149C	N	70	N	<200	50	N	1,000	N	>2,000	N
K2150C	N	50	N	N	20	<100	700	N	>2,000	N
K2151C	N	50	N	<200	20	N	700	N	>2,000	N
K2152C	N	50	N	<200	70	N	500	N	>2,000	N
K2501C	N	<10	N	700	70	N	70	N	2,000	N
K2502C	N	<10	N	500	50	N	100	N	>2,000	N
K2503C	N	<10	N	700	50	N	150	N	>2,000	N
K2504C	N	10	N	500	200	N	200	N	>2,000	N
K2507C	N	N	N	<200	50	N	20	500	500	N
K2508C	N	20	N	700	50	N	70	N	>2,000	N
K2509C	N	<10	N	700	20	N	100	N	>2,000	N
K2511C	N	N	N	1,000	20	N	100	N	>2,000	N
K2512C	N	<10	N	1,500	20	N	150	N	>2,000	N
K2513C	N	N	N	500	<20	N	50	700	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K2514C	58 20 45	155 12 40	.30	3.00	1.5	>2.00	700	N	N	N	70	1,000
K2516C	58 21 39	155 15 40	.20	5.00	1.0	.10	200	N	N	N	50	500
K2517C	58 22 10	155 17 0	.20	3.00	1.0	.50	200	N	N	N	50	700
K2518C	58 24 8	155 23 51	.30	2.00	1.5	>2.00	300	N	N	N	50	700
K2519C	58 25 55	155 12 6	.50	2.00	2.0	.70	500	N	N	N	50	5,000
K2520C	58 26 48	155 11 50	.50	5.00	1.5	1.00	300	N	N	N	50	500
K2521C	58 25 42	155 8 32	.30	3.00	1.5	1.00	300	N	N	N	50	500
K2522C	58 25 40	155 8 45	.30	5.00	2.0	.50	300	N	N	N	50	700
K2524C	58 25 28	155 1 55	.70	5.00	2.0	.70	500	N	N	N	50	1,000
K2526C	58 22 36	154 58 47	.20	2.00	20.0	1.00	100	3.0	N	N	100	200
K2527C	58 21 43	154 58 22	.20	5.00	10.0	.50	200	30.0	N	N	50	7,000
K2527CD	58 21 43	154 58 22	.50	5.00	5.0	1.00	500	20.0	N	N	100	3,000
K2528C	58 20 41	154 57 18	.30	3.00	2.0	>2.00	500	10.0	N	N	100	5,000
K2529C	58 20 12	154 55 15	.50	5.00	10.0	.50	500	5.0	N	N	50	2,000
K2530C	58 19 32	154 59 10	.50	3.00	20.0	.30	300	5.0	<500	N	20	1,000
K2531C	58 19 36	154 59 22	.20	2.00	30.0	.30	200	2,000.0	N	>1,000	30	10,000
K2532C	58 20 9	154 59 10	.07	.50	50.0	.10	200	20.0	500	N	<20	>10,000
K2533C	58 22 2	155 33 1	.30	3.00	1.5	>2.00	300	N	N	N	50	1,500
K2534C	58 22 5	155 33 12	1.00	3.00	3.0	>2.00	1,000	N	N	N	50	700
K2535C	58 21 58	155 30 42	.50	3.00	2.0	2.00	700	N	N	N	50	1,000
K2536C	58 25 48	155 29 50	.30	1.50	1.5	2.00	300	700.0	N	>1,000	20	1,000
K2537C	58 25 54	155 29 52	.50	5.00	2.0	>2.00	500	5.0	N	N	100	700
K2538C	58 19 42	155 27 20	.50	3.00	1.5	1.50	500	N	N	N	70	700
K2539C	58 18 40	155 27 50	.30	7.00	1.5	.50	300	N	N	N	70	500
K2540C	58 17 37	155 31 50	1.00	5.00	2.0	1.00	700	N	N	N	200	700
K2541C	58 17 10	155 35 24	.30	7.00	1.5	.50	700	N	N	N	30	500
K2542C	58 17 50	155 39 0	1.00	7.00	2.0	1.00	1,000	N	N	N	50	200
K2543C	58 22 5	155 38 50	.20	2.00	2.0	.50	200	N	N	N	50	700
K2544C	58 21 58	155 38 30	.50	3.00	1.5	>2.00	700	N	N	N	70	500
K2545C	58 22 25	155 37 52	.50	3.00	2.0	>2.00	700	N	N	N	50	300
K2546C	58 29 12	155 31 20	.30	2.00	1.5	>2.00	300	200.0	N	700	200	2,000
K2548C	58 28 8	155 20 32	1.00	5.00	2.0	2.00	700	N	N	N	50	500
K2549C	58 27 8	155 16 48	3.00	10.00	3.0	>2.00	2,000	N	N	N	100	500
K2550C	58 29 30	155 10 23	1.50	3.00	2.0	1.00	1,000	N	N	N	100	700
K2552C	58 25 35	154 58 5	1.00	10.00	2.0	.30	1,000	N	N	N	50	300
K2553C	58 23 50	154 54 45	1.00	7.00	10.0	2.00	1,000	1.0	N	N	100	700
K2554C	58 25 0	154 52 10	.50	5.00	2.0	1.00	500	5.0	N	N	100	500
K2554CD	58 25 0	154 52 10	1.00	7.00	10.0	1.50	1,500	N	N	N	100	500
K2555C	58 24 52	154 52 30	.70	5.00	20.0	1.00	700	7.0	N	N	100	10,000
K2556C	58 24 52	154 52 57	.70	3.00	5.0	1.50	700	5.0	N	N	200	2,000
K2557C	58 23 38	154 48 6	1.00	3.00	20.0	2.00	300	<1.0	<500	N	50	300
K2558C	58 23 55	154 45 43	.70	3.00	30.0	.50	500	2.0	1,000	N	20	1,500
K2559C	58 25 16	154 45 40	3.00	5.00	15.0	1.00	2,000	100.0	5,000	N	50	300
K2560C	58 27 0	154 46 1	1.50	5.00	10.0	2.00	1,000	5.0	20,000	N	2,000	500
K2561C	58 29 40	154 52 41	.70	5.00	5.0	1.00	700	N	N	N	100	700
K2561CD	58 29 40	154 52 41	2.00	7.00	7.0	2.00	2,000	N	N	N	200	500
K2562C	58 24 0	154 37 48	.30	1.00	50.0	1.00	200	N	N	N	50	2,000
K2563C	58 22 30	154 41 10	1.00	3.00	15.0	1.00	500	N	N	N	50	>10,000
K2564C	58 22 40	154 41 20	1.00	3.00	2.0	1.50	500	N	N	N	50	>10,000
K2565C	58 26 39	154 37 21	5.00	5.00	15.0	1.00	2,000	N	N	N	50	700
K2566C	58 30 8	154 42 30	2.00	7.00	2.0	>2.00	1,500	N	N	N	100	200
K2567C	58 32 38	154 40 20	2.00	5.00	10.0	1.50	1,000	N	N	N	50	3,000
K2568C	58 32 27	154 38 56	.30	2.00	1.5	1.50	700	N	N	N	70	700
K2569C	58 31 0	154 33 18	1.00	5.00	20.0	1.50	700	1.0	N	N	70	500
K2570C	58 31 10	154 33 22	3.00	5.00	7.0	>2.00	2,000	<1.0	N	N	50	500
K2571C	58 30 55	155 2 27	.50	3.00	2.0	2.00	500	N	N	N	50	700
K2572C	58 30 48	154 57 34	.50	5.00	2.0	2.00	500	N	N	N	50	5,000
K2573C	58 32 14	154 54 25	2.00	5.00	5.0	>2.00	2,000	N	N	N	100	200
K2574C	58 34 16	154 39 31	1.50	5.00	30.0	2.00	1,000	N	N	N	20	>10,000
K2575C	58 34 27	154 35 57	.30	2.00	30.0	.50	500	2.0	N	N	20	>10,000

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K2514C	<2	N	N	<10	20	15	50	N	N	N	N
K2516C	<2	N	N	<10	<20	10	N	N	N	N	50
K2517C	<2	N	N	<10	<20	<10	N	N	N	N	<20
K2518C	<2	N	N	<10	<20	10	50	N	N	N	N
K2519C	<2	N	N	<10	50	15	N	N	N	N	<20
K2520C	<2	N	N	<10	<20	<10	50	N	N	N	<20
K2521C	<2	N	N	<10	<20	10	<50	N	N	<10	N
K2522C	<2	N	N	<10	<20	100	<50	N	N	N	200
K2524C	<2	N	N	<10	20	15	N	N	N	N	300
K2526C	<2	N	N	200	50	500	N	300	N	150	1,000
K2527C	<2	70	N	70	20	200	N	500	N	20	10,000
K2527CD	<2	30	N	50	30	150	N	100	N	10	3,000
K2528C	<2	N	N	50	50	20	N	500	N	N	15,000
K2529C	<2	20	N	20	30	70	N	<10	N	50	200
K2530C	<2	150	N	200	<20	200	<50	<10	N	100	2,000
K2531C	<2	N	N	200	<20	150	N	500	N	200	10,000
K2532C	N	70	N	500	N	700	N	10	N	300	15,000
K2533C	<2	N	N	10	<20	20	<50	20	N	N	<20
K2534C	<2	N	N	30	70	300	50	N	<50	N	N
K2535C	<2	N	N	<10	20	10	70	N	N	N	N
K2536C	N	N	N	N	<20	<10	<50	N	N	N	20
K2537C	<2	N	N	10	20	15	50	<10	N	N	<20
K2538C	<2	N	N	<10	20	<10	50	<10	N	<10	20
K2539C	<2	N	N	<10	<20	10	N	N	N	N	150
K2540C	<2	N	N	10	20	15	<50	<10	N	N	N
K2541C	<2	N	N	<10	<20	<10	500	N	N	N	100
K2542C	<2	N	N	10	<20	15	500	N	N	N	N
K2543C	<2	N	N	<10	<20	15	N	N	N	N	20
K2544C	<2	N	N	<10	70	10	50	N	<50	N	N
K2545C	<2	N	N	<10	150	10	150	<10	<50	N	N
K2546C	<2	N	N	<10	<20	10	<50	N	N	N	100
K2548C	<2	N	N	<10	100	10	100	N	N	N	N
K2549C	<2	N	N	50	200	50	100	N	<50	70	20
K2550C	<2	N	N	20	50	20	<50	N	N	N	N
K2552C	<2	N	N	10	<20	<10	300	N	N	N	N
K2553C	<2	N	N	70	70	500	<50	<10	N	70	1,000
K2554C	<2	N	N	10	20	30	N	100	N	N	1,000
K2554CD	<2	N	N	50	70	200	N	<10	N	20	100
K2555C	<2	N	N	100	20	1,000	N	150	N	70	5,000
K2556C	<2	N	50	70	50	3,000	N	2,000	N	20	10,000
K2557C	<2	N	N	150	100	500	N	N	N	200	300
K2558C	<2	N	N	200	50	1,000	N	N	N	200	200
K2559C	<2	500	N	1,000	500	200	50	N	N	100	200
K2560C	N	30	N	1,500	70	500	N	70	N	300	10,000
K2561C	<2	N	N	50	50	20	N	N	N	N	100
K2561CD	<2	N	N	50	100	150	<50	N	N	<10	200
K2562C	N	N	N	200	20	500	N	N	N	200	50
K2563C	<2	N	N	70	150	100	<50	<10	N	20	300
K2564C	<2	N	N	<10	100	20	150	N	N	N	3,000
K2565C	<2	N	N	50	500	70	N	N	N	100	20
K2566C	N	N	N	20	150	50	200	N	50	20	N
K2567C	<2	N	N	30	100	100	100	N	N	30	50
K2568C	<2	N	N	<10	<20	15	N	N	N	N	N
K2569C	<2	N	N	100	100	150	<50	10	<50	150	50
K2570C	N	N	N	50	300	150	200	10	100	150	100
K2571C	<2	N	N	10	<20	15	50	N	<50	N	<20
K2572C	<2	N	N	10	30	20	N	N	N	N	<20
K2573C	N	N	N	20	100	20	200	N	70	N	<20
K2574C	N	N	N	30	150	200	200	<10	<50	100	70
K2575C	<2	N	N	20	<20	200	N	<10	N	150	70

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K2514C	N	20	N	500	200	N	300	N	>2,000	N
K2516C	N	N	N	1,000	<20	N	50	N	>2,000	N
K2517C	N	<10	N	700	20	N	200	N	>2,000	N
K2518C	N	50	N	200	200	N	500	N	>2,000	N
K2519C	N	30	N	500	50	N	300	N	>2,000	N
K2520C	N	15	N	700	50	N	150	N	>2,000	N
K2521C	N	10	N	500	70	N	150	N	>2,000	N
K2522C	N	10	N	700	50	N	100	N	>2,000	N
K2524C	N	10	N	1,000	150	N	100	N	>2,000	N
K2526C	N	20	N	500	100	N	200	N	>2,000	N
K2527C	N	N	N	1,000	20	N	100	<500	>2,000	N
K2527CD	N	10	N	700	100	N	100	500	>2,000	N
K2528C	N	30	N	500	200	N	300	N	>2,000	N
K2529C	N	<10	N	1,000	50	N	70	<500	>2,000	N
K2530C	N	N	N	500	50	1,000	100	N	>2,000	N
K2531C	N	<10	N	500	20	N	500	<500	>2,000	N
K2532C	N	N	N	1,500	<20	N	20	7,000	>2,000	N
K2533C	N	20	N	500	100	N	500	<500	>2,000	N
K2534C	N	30	N	500	200	N	500	N	>2,000	N
K2535C	N	30	N	500	200	N	300	N	>2,000	N
K2536C	N	70	N	<200	150	N	1,000	N	>2,000	N
K2537C	N	20	<20	300	200	N	200	N	>2,000	N
K2538C	N	20	N	500	100	N	300	N	>2,000	N
K2539C	N	10	<20	1,000	70	N	100	N	>2,000	N
K2540C	N	10	N	1,000	100	N	150	N	>2,000	N
K2541C	N	20	N	1,000	50	N	700	N	>2,000	N
K2542C	N	30	N	500	100	N	500	N	>2,000	<200
K2543C	N	15	N	200	30	N	300	N	>2,000	N
K2544C	N	30	N	300	200	N	500	N	>2,000	N
K2545C	N	50	N	200	200	N	1,000	N	>2,000	N
K2546C	N	100	N	<200	200	N	1,000	N	>2,000	200
K2548C	N	50	N	500	100	N	700	N	>2,000	N
K2549C	N	50	N	700	300	N	500	N	>2,000	N
K2550C	N	30	N	500	150	N	200	N	>2,000	N
K2552C	N	20	N	1,000	50	N	500	N	>2,000	N
K2553C	N	30	N	1,000	200	N	100	N	>2,000	N
K2554C	N	20	N	700	100	N	100	N	>2,000	N
K2554CD	N	20	N	1,000	300	N	70	500	>2,000	N
K2555C	N	10	N	700	150	N	70	1,000	>2,000	N
K2556C	N	15	N	700	150	N	100	5,000	>2,000	N
K2557C	N	20	N	700	100	N	100	N	>2,000	N
K2558C	N	<10	N	500	100	N	50	N	>2,000	N
K2559C	N	50	N	500	200	N	200	N	>2,000	N
K2560C	N	30	N	700	500	N	150	N	>2,000	N
K2561C	N	20	N	500	200	N	70	N	>2,000	N
K2561CD	N	50	N	1,000	500	N	200	N	>2,000	N
K2562C	N	N	N	N	70	N	100	500	>2,000	N
K2563C	N	20	N	1,500	150	N	150	N	>2,000	N
K2564C	N	20	N	3,000	70	N	200	N	>2,000	N
K2565C	N	50	N	700	200	N	100	N	>2,000	N
K2566C	N	50	<20	500	300	N	500	N	>2,000	N
K2567C	N	30	<20	700	200	N	200	N	>2,000	N
K2568C	N	<10	N	700	100	N	100	N	>2,000	N
K2569C	N	15	N	500	200	N	200	N	>2,000	N
K2570C	N	50	N	500	500	N	500	N	>2,000	N
K2571C	N	10	N	500	100	N	150	<500	>2,000	N
K2572C	N	20	N	500	100	N	200	2,000	>2,000	N
K2573C	N	50	N	200	500	N	1,000	N	>2,000	N
K2574C	N	20	N	500	200	N	200	N	>2,000	N
K2575C	N	N	N	700	20	N	150	N	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K2576C	58 34 42	154 36 27	.50	3.00	20.0	1.00	1,000	1.0	N	N	50	>10,000
K2577C	58 37 33	154 34 26	.70	5.00	3.0	>2.00	1,000	N	N	N	50	>10,000
K2578C	58 37 30	154 34 24	.50	5.00	5.0	1.50	700	N	N	N	200	>10,000
K2578CD	58 37 30	154 34 24	.50	5.00	2.0	.70	700	N	N	N	100	>10,000
K2579C	58 31 48	154 29 39	.30	1.00	50.0	.70	500	N	N	N	20	>10,000
K2581C	58 35 5	155 32 48	.20	5.00	1.0	>2.00	700	20.0	N	150	50	500
K2582C	58 34 51	155 29 20	.30	5.00	1.5	.50	700	N	N	N	50	700
K2584C	58 30 0	155 28 30	.30	5.00	1.5	1.50	500	N	N	N	50	5,000
K2584CD	58 30 0	155 28 30	.20	5.00	1.5	.70	500	N	N	N	200	500
K2585C	58 40 18	155 47 0	.20	2.00	1.5	2.00	700	N	N	N	50	2,000
K2586C	58 41 52	155 48 1	.20	1.00	1.0	2.00	500	N	N	N	100	300
K2590C	58 49 20	155 58 52	.20	.70	1.0	2.00	500	N	N	N	100	500
K2592C	58 48 50	155 53 1	.30	1.00	1.0	>2.00	500	N	N	N	100	500
K2593C	58 49 0	155 52 30	.70	1.50	2.0	1.50	1,000	N	N	N	100	700
K2594C	58 1 50	155 45 0	.50	10.00	5.0	.70	1,000	N	N	N	200	500
K2595C	58 3 30	155 46 22	.30	5.00	1.0	.50	500	N	N	N	50	300
K2596C	58 5 53	155 48 30	1.00	2.00	3.0	>2.00	1,000	N	N	N	50	500
K2600C	58 0 40	155 50 58	1.00	10.00	3.0	.20	500	N	N	N	50	50
K2602C	58 49 32	155 29 0	.50	5.00	2.0	2.00	2,000	N	N	N	50	1,000
K2603C	58 47 54	155 25 22	.20	2.00	1.0	.20	500	N	N	N	50	1,000
K2604C	58 48 0	155 25 0	.30	.70	.7	.20	200	N	N	N	30	500
K2606C	58 35 0	154 21 13	.50	7.00	30.0	.50	1,500	2.0	N	N	100	700
K2607C	58 35 2	154 20 49	.05	2.00	1.0	>2.00	300	N	N	N	100	>10,000
K2608C	58 36 4	154 24 39	.20	3.00	10.0	>2.00	1,000	N	N	N	500	>10,000
K2609C	58 37 3	154 31 56	.30	3.00	15.0	.70	200	N	N	N	700	>10,000
K2610C	58 38 55	154 31 36	.70	2.00	10.0	2.00	1,000	N	N	N	200	5,000
K2611C	58 38 32	154 32 32	.50	5.00	10.0	1.50	1,000	N	N	N	50	>10,000
K2614C	58 41 49	154 34 42	.50	5.00	2.0	>2.00	1,000	N	N	N	50	500
K2615C	58 41 58	154 34 47	.20	2.00	1.0	>2.00	1,500	N	N	N	100	700
K2616C	58 14 25	155 15 15	1.00	2.00	2.0	.50	700	N	N	N	50	1,000
K2617C	58 14 28	155 14 4	2.00	2.00	3.0	1.00	1,000	N	N	N	50	1,500
K2618C	58 14 19	155 22 48	.70	1.50	1.0	1.00	500	N	N	N	100	1,000
K2619C	58 13 51	155 20 58	1.00	2.00	10.0	.70	1,000	N	N	N	100	5,000
K2620C	58 13 45	155 20 59	2.00	3.00	5.0	.70	1,500	N	N	N	100	3,000
K2620CD	58 13 45	155 20 59	.10	2.00	1.0	.10	150	N	N	N	100	3,000
K2621C	58 11 34	155 31 42	.50	1.50	1.0	>2.00	1,000	N	N	N	100	700
K2622C	58 11 39	155 31 19	.50	2.00	1.5	>2.00	1,000	N	N	N	100	700
K2623C	58 10 50	155 28 5	.50	1.50	2.0	>2.00	1,000	N	N	N	100	1,000
K2624C	58 10 57	155 27 53	.20	.50	30.0	1.00	150	N	N	N	30	>10,000
K2625C	58 12 35	155 32 42	1.00	2.00	2.0	>2.00	1,500	N	N	N	100	2,000
K2626C	58 12 11	155 34 10	1.00	2.00	2.0	2.00	1,500	N	N	N	100	500
K2627C	58 11 40	155 39 30	.20	1.50	1.0	>2.00	700	N	N	N	50	700
K2628C	58 9 36	155 39 30	.30	2.00	1.0	>2.00	500	N	N	N	70	500
K2629C	58 9 39	155 33 29	.50	2.00	1.5	>2.00	1,000	N	N	N	100	700
K2630C	58 9 12	155 37 10	.20	2.00	3.0	>2.00	500	N	N	N	70	700
K2631C	58 8 7	155 36 45	.20	2.00	.7	2.00	700	N	N	N	50	300
K2632C	58 6 55	155 34 3	.10	1.00	1.0	2.00	500	N	N	N	50	500
K2633C	58 5 52	155 33 0	.20	3.00	7.0	>2.00	700	N	N	N	50	200
K2634C	58 46 0	155 30 0	1.50	1.00	1.0	>2.00	700	N	N	N	500	100
K2637C	58 52 38	155 32 40	.15	<.10	.5	1.00	100	50.0	N	300	50	500
K2637CD	58 52 38	155 32 40	.05	.10	.2	.02	70	N	N	N	100	50
K2638C	58 48 22	155 21 25	2.00	1.50	2.0	>2.00	1,500	N	N	N	100	>10,000
K2639C	58 44 20	155 18 0	.50	1.00	1.0	>2.00	500	N	N	N	100	1,000
K2641C	58 43 27	155 35 38	.30	1.00	.7	>2.00	500	N	N	N	100	50
K2642C	58 32 36	155 34 35	2.00	1.50	1.0	2.00	1,000	2.0	N	N	200	300
K2643C	58 32 26	155 31 49	1.50	1.50	1.0	>2.00	1,000	N	N	N	100	300
K2644C	58 47 31	155 44 47	.50	1.00	.5	>2.00	700	N	N	N	100	100
K2645C	58 49 48	155 44 50	.70	1.00	1.0	>2.00	1,000	N	N	N	100	100
K2649C	58 22 43	155 47 26	.20	.50	1.0	1.00	200	N	N	N	100	500
K2650C	58 23 15	155 45 10	.50	1.00	1.0	.20	200	N	N	N	100	200

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K2576C	<2	N	N	20	100	200	N	10	N	100	100
K2577C	<2	N	N	20	100	100	150	<10	<50	100	20
K2578C	<2	N	N	10	<20	100	100	N	N	20	20
K2578CD	<2	N	N	10	20	20	50	N	N	N	N
K2579C	<2	N	N	150	20	200	N	N	N	100	50
K2581C	<2	N	N	<10	20	15	150	50	N	N	<20
K2582C	<2	N	N	10	<20	50	N	50	N	N	N
K2584C	<2	N	N	<10	<20	70	<50	N	N	N	100
K2584CD	<2	N	N	<10	N	15	<50	N	N	N	20
K2585C	N	N	N	<10	<20	10	<50	N	N	N	N
K2586C	N	N	N	N	20	<10	<50	N	N	N	200
K2590C	N	N	N	N	30	<10	50	<10	N	N	50
K2592C	N	N	N	N	50	<10	<50	<10	N	N	50
K2593C	N	N	N	10	100	10	N	N	N	N	100
K2594C	N	N	N	<10	<20	15	200	N	N	N	N
K2595C	N	N	N	N	100	10	100	N	N	N	N
K2596C	N	N	N	20	100	15	50	<10	50	<10	50
K2600C	N	N	N	10	20	20	N	N	N	N	N
K2602C	<2	N	N	<10	20	<10	100	N	N	N	N
K2603C	N	N	N	<10	<20	30	N	N	N	N	50
K2604C	N	N	N	<10	20	20	N	N	N	N	50
K2606C	<2	N	N	50	20	300	300	10	N	200	50
K2607C	N	N	N	N	N	10	100	N	N	N	N
K2608C	<2	N	N	30	<20	100	300	N	N	100	<20
K2609C	<2	N	N	20	20	70	N	20	N	50	N
K2610C	N	N	N	50	50	200	100	10	<50	50	100
K2611C	N	N	N	10	<20	50	300	10	N	50	<20
K2614C	N	N	N	10	20	10	200	N	<50	N	<20
K2615C	N	N	N	N	20	<10	500	<10	N	N	50
K2616C	N	N	N	20	30	20	N	N	N	N	20
K2617C	N	N	N	30	100	200	N	N	N	N	70
K2618C	N	N	N	10	20	10	<50	<10	N	N	20
K2619C	2	N	N	50	20	200	N	N	N	50	70
K2620C	N	N	N	30	50	200	N	N	N	N	70
K2620CD	N	N	N	N	<20	<10	N	N	N	N	<20
K2621C	N	N	N	10	50	10	200	15	<50	N	70
K2622C	N	N	N	10	100	15	200	<10	N	N	20
K2623C	N	N	N	20	50	20	100	N	N	20	50
K2624C	<2	N	N	200	<20	150	N	N	N	200	<20
K2625C	N	N	N	20	100	200	100	N	<50	N	100
K2626C	N	N	N	20	100	300	50	N	<50	N	50
K2627C	N	N	N	<10	20	20	50	N	<50	N	N
K2628C	<2	N	N	<10	<20	<10	<50	N	N	N	N
K2629C	N	N	N	15	70	20	100	N	<50	N	30
K2630C	<2	N	N	15	<20	10	<50	N	N	N	N
K2631C	<2	N	N	N	20	<10	<50	N	N	N	N
K2632C	N	N	N	N	<20	<10	N	N	N	N	N
K2633C	<2	N	N	50	<20	70	200	N	<50	100	20
K2634C	N	N	N	30	200	10	100	N	N	N	20
K2637C	N	N	N	N	<20	<10	N	N	N	N	N
K2637CD	N	N	N	N	N	<10	N	N	N	N	N
K2638C	N	N	N	50	100	10	50	N	N	N	20
K2639C	N	N	N	70	50	10	50	N	N	N	20
K2641C	N	N	N	<10	70	10	100	<10	N	N	50
K2642C	N	N	N	20	50	10	50	<10	N	N	50
K2643C	N	N	N	10	50	10	50	<10	N	N	50
K2644C	N	N	N	<10	50	10	100	<10	N	N	50
K2645C	N	N	N	10	100	10	100	N	N	N	30
K2649C	N	N	N	N	<20	<10	N	N	N	N	N
K2650C	N	N	N	<10	20	<10	N	N	N	N	50

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K2576C	N	N	N	1,000	50	N	100	N	>2,000	N
K2577C	N	30	N	2,000	200	N	500	N	>2,000	N
K2578C	N	10	N	2,000	100	N	200	N	>2,000	N
K2578CD	N	10	N	1,000	150	N	150	N	>2,000	N
K2579C	N	N	N	700	70	N	70	<500	>2,000	N
K2581C	N	100	N	<200	200	N	1,000	N	>2,000	N
K2582C	N	20	N	500	500	200	200	N	>2,000	N
K2584C	N	20	N	500	150	<100	200	N	>2,000	N
K2584CD	N	20	N	700	50	N	300	N	>2,000	N
K2585C	N	100	<20	<200	100	N	1,000	N	>2,000	N
K2586C	N	30	N	N	150	N	300	N	>2,000	N
K2590C	N	50	N	N	150	N	700	N	>2,000	N
K2592C	N	30	N	N	200	N	700	N	>2,000	N
K2593C	N	20	N	1,000	100	N	150	N	>2,000	N
K2594C	N	10	N	1,000	100	N	200	N	>2,000	N
K2595C	N	20	N	300	50	N	200	N	>2,000	N
K2596C	N	30	<20	<200	200	N	300	N	>2,000	N
K2600C	N	<10	N	1,000	50	N	100	N	>2,000	N
K2602C	N	50	N	500	150	N	500	N	>2,000	N
K2603C	N	<10	N	1,000	30	N	70	N	>2,000	N
K2604C	N	<10	<20	500	50	N	50	N	>2,000	N
K2606C	N	20	N	700	70	N	300	N	>2,000	N
K2607C	N	100	N	N	200	N	1,000	N	>2,000	N
K2608C	N	70	N	<200	200	N	1,000	700	>2,000	N
K2609C	N	<10	N	1,000	50	N	200	1,000	>2,000	N
K2610C	N	15	N	700	200	N	300	N	>2,000	N
K2611C	N	15	N	3,000	100	N	200	N	>2,000	N
K2614C	N	50	<20	300	200	N	700	N	>2,000	N
K2615C	N	50	30	N	500	N	1,500	N	>2,000	N
K2616C	N	15	N	1,000	100	N	50	N	2,000	N
K2617C	N	30	20	700	150	N	100	N	>2,000	N
K2618C	N	10	<20	500	100	N	100	N	>2,000	N
K2619C	N	10	N	1,000	100	N	100	N	>2,000	N
K2620C	N	30	N	1,000	200	N	100	N	>2,000	N
K2620CD	N	<10	N	1,000	20	N	100	N	>2,000	N
K2621C	N	30	30	N	200	N	500	N	>2,000	N
K2622C	N	30	<20	N	200	N	500	N	>2,000	N
K2623C	N	30	<20	N	200	N	500	N	>2,000	N
K2624C	N	<10	N	1,000	70	N	200	N	>2,000	N
K2625C	N	50	20	500	200	N	500	N	>2,000	N
K2626C	N	50	30	<200	200	N	500	N	>2,000	<200
K2627C	N	20	<20	N	100	N	300	N	>2,000	<200
K2628C	N	70	N	N	100	N	1,000	N	>2,000	N
K2629C	N	30	20	N	200	N	500	N	>2,000	<200
K2630C	N	50	N	N	100	N	700	N	>2,000	N
K2631C	N	70	N	N	150	N	700	N	>2,000	N
K2632C	N	100	N	N	150	N	1,000	N	>2,000	N
K2633C	N	100	N	N	200	N	1,000	N	>2,000	N
K2634C	N	30	<20	N	200	N	300	N	>2,000	N
K2637C	N	30	N	N	50	N	500	N	>2,000	N
K2637CD	N	70	N	N	20	N	1,000	N	>2,000	N
K2638C	N	50	N	2,000	200	N	300	N	>2,000	N
K2639C	N	50	<20	N	150	N	700	N	>2,000	N
K2641C	N	50	<20	N	150	N	500	N	>2,000	N
K2642C	N	50	20	N	150	<100	700	N	>2,000	N
K2643C	N	50	30	N	200	N	500	N	>2,000	N
K2644C	N	50	<20	N	100	N	500	N	>2,000	N
K2645C	N	50	<20	N	200	N	700	N	>2,000	N
K2649C	N	70	N	N	50	N	700	N	>2,000	200
K2650C	N	50	N	N	50	N	500	N	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K2651C	58 24 22	155 42 18	.70	1.00	1.0	.70	500	N	N	N	100	500
K2652C	58 18 50	155 44 0	.20	1.50	1.0	2.00	300	N	N	N	100	1,000
K2653C	58 16 9	155 40 53	1.50	3.00	1.0	2.00	1,000	N	N	N	100	1,000
K2655C	58 16 30	155 48 35	.50	1.50	1.5	>2.00	700	N	N	N	100	1,000
K2656C	58 14 10	155 58 20	.50	1.00	1.0	>2.00	1,000	70.0	N	200	100	700
K2658C	58 16 22	156 0 47	.20	1.00	1.0	2.00	300	200.0	N	1,000	200	700
K2659C	58 16 53	156 3 43	1.00	1.50	1.5	2.00	1,000	N	N	N	100	1,000
K2660C	58 16 56	156 4 9	.70	1.50	1.0	1.00	700	N	N	N	150	1,000
K2661C	58 21 27	156 2 41	.70	1.00	1.0	>2.00	700	N	N	N	150	300
K2662C	58 27 50	156 9 46	.50	1.00	.7	2.00	300	N	N	N	150	300
K2665C	58 11 25	156 12 32	.50	1.50	1.0	>2.00	1,000	N	N	N	100	500
K2665CD	58 11 25	156 12 32	.70	1.50	1.0	>2.00	1,000	N	N	N	100	700
K2667C	58 9 56	156 6 30	.70	1.50	1.0	>2.00	1,000	N	N	N	100	700
K2668C	58 10 42	156 1 0	1.00	2.00	2.0	>2.00	2,000	N	N	N	100	1,000
K2669C	58 12 10	156 3 45	.70	1.50	1.0	>2.00	2,000	N	N	N	100	1,000
K2670C	58 14 43	156 12 5	.50	3.00	1.5	>2.00	700	N	N	N	50	500
K2672C	58 2 39	156 25 16	2.00	2.00	2.0	.70	1,000	N	N	N	100	500
K2673C	58 5 47	156 21 20	.70	1.50	1.5	2.00	1,000	N	N	N	100	1,000
K2674C	58 8 32	156 32 25	.50	1.00	1.0	>2.00	500	N	N	N	100	700
K2676C	58 40 1	155 23 12	.50	5.00	1.5	1.50	1,000	N	N	N	50	300
K2678C	58 36 27	155 7 7	.50	5.00	1.5	>2.00	700	N	N	N	50	700
K2679C	58 38 17	155 2 9	1.00	10.00	10.0	>2.00	1,500	N	N	N	100	500
K2680C	58 38 46	155 3 38	.70	1.50	1.5	>2.00	1,500	N	N	N	100	500
K2681C	58 42 20	155 4 0	2.00	2.00	2.0	2.00	2,000	N	N	N	70	500
K2682C	58 42 24	155 1 13	.50	7.00	1.5	2.00	500	N	N	N	50	500
K2683C	58 43 1	155 0 0	.30	7.00	1.5	2.00	700	N	N	N	50	300
K2684C	58 42 40	154 58 42	.50	5.00	1.5	2.00	700	20.0	N	50	50	500
K2685C	58 48 0	156 28 17	.20	2.00	1.0	>2.00	500	N	N	N	50	300
K3004C	58 52 42	155 45 12	.10	2.00	.5	>2.00	500	N	N	N	20	100
K3008C	58 46 3	155 44 36	.20	2.00	1.0	>2.00	700	N	N	N	50	200
K3009C	58 1 30	156 16 52	.20	2.00	1.0	1.00	200	N	N	N	50	700
K3009CD	58 1 30	156 16 52	.20	2.00	.7	>2.00	300	N	N	N	50	700
K3010C	58 1 42	156 19 21	.20	2.00	1.0	>2.00	300	N	N	N	50	700
K3011C	58 1 0	156 14 50	1.00	5.00	2.0	>2.00	700	N	N	N	50	700
K3012C	58 1 0	156 14 22	.30	2.00	2.0	2.00	500	N	N	N	50	5,000
K3013C	58 0 40	156 12 0	.30	2.00	1.5	2.00	300	N	N	N	50	500
K3014C	58 0 7	156 10 40	.50	2.00	1.5	>2.00	700	N	N	N	50	700
K3015C	58 0 6	156 9 8	.30	2.00	1.0	1.50	500	N	N	N	50	700
K3017C	58 26 36	155 23 37	.50	3.00	1.5	>2.00	700	N	N	N	50	500
K3018C	58 26 41	155 23 19	.30	2.00	1.0	>2.00	500	N	N	N	70	700
K3019C	58 26 1	155 23 49	.30	5.00	1.0	>2.00	500	N	N	N	50	200
K3020C	58 25 33	155 22 28	.50	3.00	1.5	>2.00	1,000	N	N	N	50	300
K3021C	58 22 30	155 14 0	.30	3.00	10.0	.70	500	1,000.0	N	>1,000	50	1,500
K3022C	58 23 44	155 12 22	.50	5.00	3.0	.70	700	200.0	N	200	50	500
K3023C	58 23 52	155 12 19	.50	5.00	1.0	.30	300	N	N	N	70	700
K3024C	58 25 48	155 13 59	.20	5.00	1.5	.50	300	N	N	N	50	700
K3025C	58 25 45	155 13 30	.30	5.00	2.0	1.00	300	N	N	N	70	700
K3026C	58 24 22	155 4 20	5.00	10.00	7.0	1.00	2,000	N	N	N	50	500
K3027C	58 24 22	155 4 42	1.00	5.00	3.0	.30	500	N	N	N	50	700
K3028C	58 24 32	155 6 40	.70	7.00	3.0	.30	500	N	N	N	50	700
K3029C	58 23 41	155 2 40	.20	5.00	1.5	.30	200	N	N	N	100	500
K3030C	58 22 50	155 0 57	.20	3.00	2.0	.30	500	100.0	N	N	50	>10,000
K3031C	58 21 11	154 59 13	.20	7.00	5.0	.10	200	50.0	N	N	50	5,000
K3032C	58 20 19	154 59 10	.20	3.00	20.0	.30	300	2.0	N	N	20	10,000
K3033C	58 20 14	155 33 35	.50	7.00	2.0	.15	300	N	N	N	50	700
K3034C	58 20 12	155 34 0	.70	5.00	1.5	.50	700	N	N	N	50	1,000
K3037C	58 19 16	155 28 10	.70	20.00	1.0	.10	1,000	N	N	N	50	300
K3038C	58 16 25	155 34 0	.70	5.00	2.0	>2.00	1,500	N	N	N	50	100
K3039C	58 16 15	155 34 10	.50	3.00	1.5	2.00	300	N	N	N	200	1,000
K3040C	58 16 55	155 38 30	.50	7.00	1.5	.50	700	N	N	N	30	500

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K2651C	N	N	N	<10	50	15	<50	N	N	N	200
K2652C	N	N	N	<10	<20	<10	N	N	N	N	N
K2653C	N	N	N	10	100	10	200	N	N	N	70
K2655C	N	N	N	<10	<20	<10	N	N	N	N	20
K2656C	<2	N	N	10	50	30	N	N	N	N	1,000
K2658C	N	N	N	<10	<20	<10	N	N	N	N	20
K2659C	N	70	N	<10	100	<10	N	N	N	N	100
K2660C	N	N	N	20	50	<10	<50	N	N	N	100
K2661C	N	N	N	<10	70	<10	1,000	N	N	N	100
K2662C	N	N	N	<10	50	<10	<50	N	N	N	20
K2665C	N	N	N	10	100	<10	150	<10	<50	N	N
K2665CD	N	N	N	10	100	<10	100	N	50	N	20
K2667C	N	N	N	<10	150	<10	100	N	<50	N	<20
K2668C	N	N	N	20	100	10	100	20	50	N	<20
K2669C	N	N	N	<10	50	<10	500	N	N	N	50
K2670C	<2	N	N	<10	20	<10	50	N	50	N	N
K2672C	N	N	N	20	30	<10	<50	N	N	N	N
K2673C	N	N	N	10	100	<10	50	N	<50	N	<20
K2674C	N	N	N	<10	50	<10	50	N	<50	N	<20
K2676C	<2	N	N	<10	20	<10	50	<10	N	N	N
K2678C	<2	N	N	<10	30	10	50	N	N	N	N
K2679C	<2	N	N	50	50	1,500	200	N	N	20	100
K2680C	N	N	N	20	100	10	200	N	70	N	N
K2681C	N	N	N	20	150	150	50	N	<50	N	<20
K2682C	<2	N	N	<10	20	20	100	N	N	N	N
K2683C	<2	N	N	<10	20	200	200	10	N	N	N
K2684C	<2	N	N	10	300	15	50	70	N	N	50
K2685C	<2	N	N	<10	20	<10	100	N	N	N	N
K3004C	<2	N	N	N	150	10	100	50	N	N	N
K3008C	<2	N	N	N	20	10	100	N	N	N	N
K3009C	<2	N	N	<10	20	<10	N	N	N	N	70
K3009CD	<2	N	N	<10	<20	<10	<50	N	N	N	N
K3010C	<2	N	N	<10	20	10	<50	N	N	N	N
K3011C	<2	N	N	20	100	10	100	<10	50	N	N
K3012C	<2	N	N	<10	20	50	<50	N	N	N	300
K3013C	<2	N	N	<10	50	<10	<50	N	N	N	<20
K3014C	<2	N	N	<10	100	<10	50	<10	N	N	20
K3015C	<2	N	N	<10	<20	<10	<50	N	N	N	N
K3017C	<2	N	N	<10	20	15	50	N	N	N	<20
K3018C	<2	N	N	<10	50	10	50	N	N	N	N
K3019C	<2	N	N	<10	<20	20	150	N	N	N	20
K3020C	<2	N	N	<10	70	10	100	N	N	N	<20
K3021C	<2	N	N	100	30	150	<50	200	N	50	300
K3022C	<2	N	N	<10	<20	20	150	<10	N	N	2,000
K3023C	<2	N	N	<10	50	10	<50	N	N	N	100
K3024C	<2	N	N	<10	<20	<10	N	N	N	N	N
K3025C	<2	N	N	10	<20	20	<50	N	N	N	100
K3026C	<2	N	N	50	150	100	N	N	N	<10	<20
K3027C	<2	N	N	10	100	15	<50	<10	N	N	70
K3028C	<2	N	N	10	20	20	N	N	N	N	<20
K3029C	<2	N	N	<10	<20	<10	N	N	N	N	N
K3030C	<2	N	N	<10	<20	15	N	N	N	N	20,000
K3031C	2	N	N	20	<20	100	N	50	N	<10	10,000
K3032C	<2	N	N	100	<20	150	N	N	N	100	700
K3033C	<2	N	N	<10	<20	10	150	<10	N	N	N
K3034C	<2	N	N	<10	<20	<10	100	N	N	N	N
K3037C	<2	N	N	<10	<20	10	2,000	N	N	N	N
K3038C	N	N	N	<10	50	10	300	N	N	N	<20
K3039C	<2	N	N	<10	20	10	<50	N	N	N	N
K3040C	<2	N	N	<10	<20	<10	500	N	N	N	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K2651C	N	70	N	N	100	N	700	N	>2,000	N
K2652C	N	10	N	500	50	N	100	N	>2,000	N
K2653C	N	50	N	1,000	100	N	300	N	>2,000	N
K2655C	N	30	N	500	200	N	150	N	>2,000	N
K2656C	N	50	20	N	150	N	1,000	N	>2,000	N
K2658C	N	50	N	N	70	N	1,000	N	>2,000	N
K2659C	N	50	N	<200	100	N	200	N	>2,000	N
K2660C	N	20	<20	500	100	N	700	N	>2,000	500
K2661C	N	70	<20	N	150	N	2,000	N	>2,000	N
K2662C	N	50	N	N	100	N	700	N	>2,000	N
K2665C	N	30	<20	N	150	N	500	N	>2,000	N
K2665CD	N	30	20	N	150	N	500	N	>2,000	N
K2667C	N	30	30	N	200	N	1,000	N	>2,000	N
K2668C	N	30	20	500	200	N	1,000	N	>2,000	N
K2669C	N	50	20	N	200	N	1,500	N	>2,000	N
K2670C	N	50	N	<200	200	N	500	N	>2,000	N
K2672C	N	15	N	700	70	N	20	N	200	N
K2673C	N	20	<20	500	150	N	200	N	>2,000	N
K2674C	N	20	<20	<200	150	N	300	N	>2,000	N
K2676C	N	30	N	500	100	<100	500	N	>2,000	N
K2678C	N	20	N	500	100	N	200	N	>2,000	N
K2679C	N	30	<20	200	300	N	300	500	>2,000	N
K2680C	N	30	<20	<200	200	<100	200	N	>2,000	N
K2681C	N	50	N	500	300	N	200	N	>2,000	N
K2682C	N	N	N	700	100	<100	100	N	>2,000	N
K2683C	N	10	N	700	150	2,000	200	N	>2,000	N
K2684C	N	20	N	500	150	5,000	200	N	>2,000	N
K2685C	N	70	N	N	200	N	700	N	>2,000	N
K3004C	N	100	N	N	200	150	1,000	N	>2,000	N
K3008C	N	100	N	<200	200	N	1,000	N	>2,000	N
K3009C	N	30	N	200	70	N	200	N	>2,000	N
K3009CD	N	70	N	500	150	N	500	N	>2,000	N
K3010C	N	20	>2,000	500	150	N	300	N	>2,000	N
K3011C	N	50	N	300	200	N	1,000	N	>2,000	N
K3012C	N	70	N	<200	100	N	1,000	1,000	>2,000	N
K3013C	N	50	N	<200	100	N	500	N	>2,000	N
K3014C	N	50	<20	500	300	N	500	N	>2,000	N
K3015C	N	15	N	300	100	N	200	N	>2,000	N
K3017C	N	50	N	300	300	150	300	N	>2,000	N
K3018C	N	30	20	500	200	N	500	N	>2,000	N
K3019C	N	50	N	<200	300	N	700	N	>2,000	N
K3020C	N	20	N	N	300	N	1,000	N	>2,000	N
K3021C	N	10	N	700	50	N	200	N	>2,000	N
K3022C	N	10	N	1,000	500	N	200	N	>2,000	N
K3023C	N	10	N	1,000	20	N	70	N	>2,000	N
K3024C	N	<10	N	700	50	100	100	N	>2,000	N
K3025C	N	30	N	500	50	N	300	N	>2,000	N
K3026C	N	50	N	700	200	N	100	N	>2,000	N
K3027C	N	10	N	1,500	50	N	100	N	>2,000	N
K3028C	N	<10	N	1,000	50	N	70	N	>2,000	N
K3029C	N	<10	N	1,000	20	N	50	N	>2,000	N
K3030C	N	N	N	1,000	100	N	100	N	>2,000	N
K3031C	N	N	N	1,000	<20	N	20	700	>2,000	N
K3032C	N	N	N	1,000	20	N	50	<500	>2,000	N
K3033C	N	<10	N	1,000	20	N	200	N	>2,000	N
K3034C	N	15	N	1,000	70	N	150	N	>2,000	N
K3037C	N	20	N	700	50	N	1,000	N	>2,000	N
K3038C	N	70	N	N	500	N	1,500	N	>2,000	N
K3039C	N	50	N	200	100	N	500	N	>2,000	N
K3040C	N	20	N	1,000	30	N	700	N	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K3042C	58 23 10	155 38 25	.30	5.00	1.0	2.00	500	N	N	N	100	500
K3043C	58 23 20	155 38 36	.50	3.00	1.5	2.00	300	N	N	N	50	1,000
K3044C	58 23 31	155 35 53	.50	5.00	1.5	1.50	700	5.0	N	N	50	700
K3045C	58 27 45	155 31 0	.20	5.00	1.0	>2.00	500	30.0	N	200	70	500
K3046C	58 29 40	155 22 42	.50	5.00	2.0	>2.00	700	N	N	N	3,000	150
K3048C	58 28 15	155 1 5	2.00	10.00	3.0	.50	1,000	N	N	N	70	1,000
K3049C	58 25 38	154 57 9	1.00	5.00	2.0	>2.00	1,500	1,000.0	N	700	70	500
K3051C	58 23 11	154 55 26	1.50	3.00	10.0	2.00	700	2.0	N	N	50	700
K3053C	58 26 49	154 54 45	2.00	7.00	5.0	1.00	2,000	10.0	N	N	50	500
K3054C	58 23 14	154 49 32	1.00	7.00	5.0	1.00	1,000	N	N	N	50	1,000
K3055C	58 23 49	155 26 2	.30	2.00	1.5	2.00	500	20.0	N	100	50	500
K3062C	58 23 36	156 11 29	.20	1.00	1.0	2.00	300	N	N	N	150	500
K3065C	58 21 33	155 55 45	.30	.50	1.0	2.00	300	N	N	N	100	1,000
K3067C	58 24 32	155 55 28	.15	.20	.5	1.50	200	N	N	N	100	100
K3069C	58 33 50	155 50 36	2.00	2.00	2.0	>2.00	1,500	N	2,000	N	300	5,000
K3069CD	58 33 50	155 50 36	1.50	2.00	2.0	>2.00	1,000	N	5,000	N	1,000	3,000
K3070C	58 34 53	155 48 55	.70	1.00	1.0	>2.00	1,000	100.0	N	1,000	150	500
K3071C	58 34 59	155 48 59	1.00	2.00	1.5	>2.00	1,500	N	N	N	200	1,000
K3074C	58 32 33	155 59 50	.50	5.00	1.5	>2.00	1,000	100.0	N	500	100	200
K3075C	58 20 15	155 44 0	.20	2.00	1.0	.30	200	N	N	N	50	200
K3076C	58 19 57	155 44 10	.50	3.00	2.0	>2.00	500	N	N	N	50	500
K3076CD	58 19 57	155 44 10	.50	1.50	1.5	2.00	700	N	N	N	50	700
K3077C	58 2 42	155 46 10	.50	5.00	2.0	.70	300	N	N	N	50	500
K3078C	58 6 30	155 51 12	1.00	5.00	2.0	>2.00	700	N	N	N	50	500
K3079C	58 5 22	155 56 30	3.00	5.00	2.0	2.00	1,500	N	N	N	50	500
K3080C	58 1 30	155 57 58	1.50	5.00	2.0	.50	700	N	N	N	50	200
K3081C	58 0 4	155 47 10	1.00	7.00	2.0	.50	500	N	N	N	50	5,000
K3082C	58 0 3	155 46 28	.50	2.00	20.0	1.00	700	N	N	N	20	200
K3102C	58 50 0	156 27 5	.70	5.00	1.5	>2.00	1,000	N	N	N	100	200
K3102CD	58 50 0	156 27 5	.50	5.00	1.5	>2.00	700	N	N	N	100	300
K3104C	58 51 23	156 14 56	.50	3.00	1.5	>2.00	500	N	N	N	50	300
K3105C	58 51 10	156 14 40	.50	2.00	2.0	>2.00	500	N	N	N	70	700
K3106C	58 49 50	156 11 55	.30	2.00	1.5	2.00	300	N	N	20	100	500
K3108C	58 46 29	156 6 5	2.00	5.00	2.0	2.00	1,000	N	N	N	200	300
K3109C	58 49 41	156 7 2	.20	2.00	1.5	>2.00	500	N	N	N	70	500
K3110C	58 51 23	156 5 59	.20	2.00	1.5	2.00	700	N	N	N	70	300
K3111C	58 52 27	156 5 0	.50	3.00	1.0	2.00	700	N	N	N	70	700
K3112C	58 52 26	156 4 41	.20	2.00	1.5	2.00	700	N	N	N	70	500
K3113C	58 51 46	156 4 12	.10	2.00	.7	2.00	300	N	N	N	70	200
K3114C	58 55 25	156 13 0	.10	1.00	.5	>2.00	150	N	N	N	70	150
K3116C	58 55 12	156 13 6	.30	2.00	1.0	>2.00	500	N	N	N	70	300
K3117C	58 58 13	156 14 35	.20	3.00	1.0	>2.00	300	N	N	N	100	700
K3118C	58 58 2	156 2 2	.20	2.00	.7	1.50	200	500.0	N	1,000	50	300
K3119C	58 58 0	156 1 30	.30	2.00	1.0	>2.00	500	30.0	N	150	100	500
K3120C	58 43 3	155 11 30	.10	2.00	.5	.30	200	N	N	N	100	1,500
K3121C	58 43 34	155 8 40	.10	2.00	.5	1.00	200	N	N	N	50	1,500
K3122C	58 46 8	155 11 44	.30	2.00	2.0	1.00	300	N	N	N	50	1,000
K3122CD	58 46 8	155 11 44	.10	3.00	1.0	1.50	200	N	N	N	50	700
K3123C	58 48 42	155 13 0	.10	1.00	.5	.20	100	N	N	N	70	700
K3124C	58 50 45	155 17 13	.20	1.50	.5	1.00	200	N	N	N	50	150
K3125C	58 50 49	155 17 18	.50	3.00	1.5	2.00	500	N	N	N	50	500
K3126C	58 53 20	155 18 50	.10	2.00	.5	.70	200	700.0	N	>1,000	50	300
K3127C	58 52 2	155 18 0	.30	3.00	1.0	>2.00	500	N	N	N	70	700
K3128C	58 53 21	155 23 12	.10	1.50	.7	.30	300	N	N	N	100	500
K3129C	58 54 17	155 27 35	.10	2.00	.5	1.50	200	N	N	N	200	200
K3130C	58 47 17	155 49 32	.05	.50	.5	1.00	100	N	N	N	30	100
K3132C	58 50 20	155 52 30	.07	2.00	.5	.50	300	N	N	N	50	150
K3133C	58 55 18	155 57 22	.10	1.00	1.0	1.00	200	N	N	N	50	300
K3134C	58 55 18	155 57 14	.20	2.00	1.0	2.00	1,000	N	N	N	50	100
K3136C	58 56 32	155 28 12	.10	2.00	1.0	>2.00	500	N	N	N	50	150

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K3042C	<2	N	N	<10	<20	<10	<50	N	N	N	N
K3043C	<2	N	N	<10	<20	10	<50	N	N	N	N
K3044C	<2	N	N	<10	20	10	100	N	N	N	<20
K3045C	<2	N	N	<10	<20	10	<50	N	N	N	N
K3046C	<2	N	N	10	30	20	100	N	N	N	N
K3048C	<2	N	N	20	30	10	N	N	N	10	<20
K3049C	<2	N	N	50	100	200	50	N	<50	10	2,000
K3051C	<2	N	N	70	70	150	<50	50	N	50	1,500
K3053C	<2	N	N	50	100	100	N	N	N	10	7,000
K3054C	<2	N	N	20	20	100	N	N	N	<10	300
K3055C	<2	N	N	<10	50	20	50	N	N	N	N
K3062C	N	N	N	N	20	<10	<50	N	N	N	100
K3065C	N	N	N	N	20	<10	1,000	N	N	N	150
K3067C	N	N	N	N	<20	<10	N	N	N	N	70
K3069C	N	N	N	50	200	150	100	<10	50	10	20,000
K3069CD	N	N	N	50	200	200	100	<10	70	N	>50,000
K3070C	N	N	N	10	100	<10	100	N	N	N	100
K3071C	N	N	N	<10	100	10	200	N	N	N	150
K3074C	<2	N	N	<10	50	<10	100	N	N	N	20
K3075C	N	N	N	N	200	20	50	N	N	N	N
K3076C	N	N	N	30	30	15	N	N	N	N	N
K3076CD	N	N	N	20	20	300	N	N	N	N	70
K3077C	N	N	N	<10	<20	10	N	N	N	N	N
K3078C	<2	N	N	<10	100	<10	50	<10	<50	N	<20
K3079C	N	N	N	20	150	10	50	N	N	20	30
K3080C	N	N	N	15	70	10	N	N	N	N	N
K3081C	<2	N	N	10	50	500	N	N	N	N	N
K3082C	N	N	N	20	100	200	<50	50	N	50	50
K3102C	<2	N	N	<10	100	<10	200	<10	N	N	N
K3102CD	<2	N	N	<10	100	<10	150	N	<50	N	<20
K3104C	<2	N	N	<10	70	<10	50	N	N	N	N
K3105C	<2	N	N	<10	50	10	<50	<10	N	N	N
K3106C	<2	N	N	N	20	10	50	N	N	N	N
K3108C	<2	N	N	15	200	20	70	N	N	N	N
K3109C	<2	N	N	<10	20	<10	50	N	N	N	N
K3110C	<2	N	N	<10	20	<10	50	20	N	N	<20
K3111C	<2	N	N	<10	20	10	50	<10	N	N	N
K3112C	<2	N	N	<10	20	15	<50	N	N	N	N
K3113C	N	N	N	N	20	10	100	20	N	N	N
K3114C	N	N	N	N	30	<10	<50	N	N	N	N
K3116C	<2	N	N	N	50	10	<50	N	N	N	N
K3117C	N	N	N	N	50	<10	50	N	N	N	N
K3118C	N	N	N	N	30	10	<50	N	N	N	N
K3119C	<2	N	N	N	<20	10	<50	N	N	N	N
K3120C	<2	N	N	N	N	10	50	N	N	N	N
K3121C	<2	N	N	N	<20	<10	<50	15	N	N	N
K3122C	<2	N	N	30	<20	10	N	N	N	N	N
K3122CD	<2	N	N	30	N	<10	<50	N	N	N	N
K3123C	<2	N	N	N	N	<10	<50	N	N	N	N
K3124C	N	N	N	N	<20	<10	<50	N	N	N	N
K3125C	<2	N	N	N	20	10	50	N	N	N	N
K3126C	<2	N	N	N	<20	<10	50	N	N	N	N
K3127C	<2	N	N	N	<20	<10	100	N	N	N	N
K3128C	N	N	N	N	N	15	N	N	N	N	N
K3129C	N	N	N	N	<20	<10	<50	N	N	N	N
K3130C	<2	N	N	N	50	<10	50	N	N	N	70
K3132C	N	N	N	N	N	10	50	N	N	N	N
K3133C	<2	N	N	N	<20	10	<50	N	N	N	N
K3134C	N	N	N	N	<20	10	150	N	N	N	N
K3136C	N	N	N	N	50	<10	50	N	N	N	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K3042C	N	20	N	500	100	N	300	N	>2,000	N
K3043C	N	15	N	500	100	N	200	N	>2,000	N
K3044C	N	20	N	500	100	N	200	N	>2,000	N
K3045C	N	50	N	200	200	N	700	N	>2,000	N
K3046C	N	50	N	200	300	N	700	N	>2,000	N
K3048C	N	20	N	700	100	N	70	N	200	N
K3049C	N	30	N	500	1,000	N	200	N	>2,000	N
K3051C	N	20	N	700	200	N	100	N	>2,000	N
K3053C	N	20	N	700	300	N	100	1,500	>2,000	N
K3054C	N	15	N	700	70	N	50	N	>2,000	N
K3055C	N	70	N	200	200	N	500	N	>2,000	N
K3062C	N	70	N	N	150	N	1,000	N	>2,000	200
K3065C	N	50	<20	N	50	N	1,000	N	>2,000	N
K3067C	N	70	N	N	100	N	1,000	N	>2,000	N
K3069C	N	70	20	500	1,500	<100	500	N	>2,000	N
K3069CD	N	30	N	200	3,000	N	500	N	>2,000	N
K3070C	N	50	20	N	500	N	500	N	>2,000	N
K3071C	N	30	<20	300	200	N	500	N	>2,000	N
K3074C	N	100	20	<200	200	N	1,000	N	>2,000	N
K3075C	N	70	N	<200	50	N	500	N	>2,000	N
K3076C	N	50	N	200	500	N	300	N	>2,000	N
K3076CD	N	20	30	200	100	N	200	N	>2,000	N
K3077C	N	10	N	500	70	N	100	N	>2,000	N
K3078C	N	30	N	200	200	N	500	N	>2,000	N
K3079C	N	30	N	1,000	200	N	200	N	>2,000	N
K3080C	N	20	N	1,000	100	N	100	N	>2,000	N
K3081C	N	10	N	700	100	N	100	N	>2,000	N
K3082C	N	15	N	500	200	N	150	N	>2,000	N
K3102C	N	100	<20	N	500	N	1,000	N	>2,000	N
K3102CD	N	50	20	<200	300	N	500	N	>2,000	N
K3104C	N	50	N	<200	200	N	500	N	>2,000	N
K3105C	N	20	N	500	200	N	300	N	>2,000	N
K3106C	N	50	N	<200	100	N	500	N	>2,000	N
K3108C	N	50	N	N	200	N	700	N	>2,000	N
K3109C	N	50	N	N	100	N	700	N	>2,000	N
K3110C	N	70	N	<200	100	N	700	N	>2,000	N
K3111C	N	50	N	200	100	150	700	N	>2,000	N
K3112C	N	30	N	200	100	N	500	N	>2,000	N
K3113C	N	100	N	N	100	N	1,500	N	>2,000	N
K3114C	N	100	N	N	100	N	1,500	N	>2,000	N
K3116C	N	70	N	N	200	N	1,500	N	>2,000	N
K3117C	N	50	N	200	150	N	700	N	>2,000	N
K3118C	N	100	N	N	70	N	1,500	N	>2,000	N
K3119C	N	50	N	<200	200	N	1,000	N	>2,000	N
K3120C	N	50	N	200	20	N	500	N	>2,000	N
K3121C	N	50	N	N	50	100	700	N	>2,000	N
K3122C	N	<10	N	<200	50	<100	100	N	>2,000	N
K3122CD	N	10	N	<200	50	N	200	N	>2,000	N
K3123C	N	20	N	<200	20	N	200	N	>2,000	N
K3124C	N	100	N	N	70	N	1,500	N	>2,000	N
K3125C	N	30	N	200	100	N	500	N	>2,000	N
K3126C	N	70	N	N	50	N	700	N	>2,000	N
K3127C	N	30	N	<200	200	N	700	N	>2,000	N
K3128C	N	50	N	<200	20	N	700	N	>2,000	N
K3129C	N	100	N	N	100	N	1,000	N	>2,000	N
K3130C	N	30	N	200	500	<100	300	N	>2,000	N
K3132C	N	100	N	N	50	N	2,000	N	>2,000	N
K3133C	N	100	N	N	70	N	1,000	N	>2,000	N
K3134C	N	200	N	N	100	N	2,000	N	>2,000	N
K3136C	N	100	N	N	200	N	1,500	N	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K3137C	58 56 14	155 21 42	.20	2.00	.5	2.00	1,000	N	N	N	3,000	1,000
K3138C	58 54 19	155 18 52	.05	2.00	.5	.30	300	N	N	N	50	50
K3139C	58 54 2	155 14 49	.10	2.00	.7	.70	500	N	N	N	150	200
K3141C	58 52 32	155 12 2	.20	5.00	1.0	1.00	300	N	N	N	30	100
K3141CD	58 52 32	155 12 2	.10	3.00	.5	1.50	500	10.0	N	50	20	100
K3143C	58 46 24	155 17 56	.10	3.00	.5	1.00	300	N	N	N	20	150
K3144C	58 50 40	155 22 25	.05	1.00	.5	.70	300	N	N	N	20	>10,000
K3145C	58 51 8	155 24 33	.15	3.00	.7	2.00	500	N	N	N	50	200
K3300C	58 42 17	154 49 43	.15	2.00	2.0	>2.00	1,000	N	N	N	50	1,000
K3301C	58 44 5	154 40 27	.15	3.00	7.0	2.00	500	50.0	N	150	500	5,000
K3302C	58 44 10	154 40 34	.20	3.00	1.0	>2.00	500	N	N	N	5,000	3,000
K3303C	58 43 56	154 41 0	<.05	2.00	10.0	.50	300	100.0	1,000	1,000	500	>10,000
K3304C	58 42 11	154 39 50	.20	1.50	5.0	1.50	300	N	N	N	50	500
K3305C	58 43 0	154 32 30	.20	3.00	.5	>2.00	1,000	N	N	N	100	200
K3306C	58 40 38	154 11 46	.20	2.00	7.0	.20	500	N	N	N	2,000	>10,000
K3308C	58 40 16	154 6 8	.10	2.00	7.0	1.00	500	N	N	N	5,000	500
K3309C	58 40 50	153 52 20	.05	1.00	50.0	.50	100	10.0	1,000	<20	30	7,000
K3310C	58 40 49	153 52 2	.10	1.50	20.0	.70	500	2.0	<500	N	20	500
K3311C	58 37 44	153 48 58	.20	3.00	2.0	>2.00	300	5.0	500	N	3,000	2,000
K3312C	58 39 36	153 41 50	.30	2.00	5.0	>2.00	300	>10,000.0	3,000	>1,000	300	>10,000
K3313C	58 42 43	153 39 3	.20	1.50	15.0	1.00	500	1.0	1,000	N	50	5,000
K3314C	58 41 2	153 34 10	.15	2.00	1.0	.50	300	10.0	N	N	100	2,000
K3315C	58 42 43	153 30 15	.20	2.00	1.0	1.00	700	N	N	N	100	200
K3316C	58 45 5	153 27 25	.05	3.00	.7	>2.00	300	N	5,000	N	2,000	500
K3317C	58 54 47	153 22 57	.10	1.00	1.0	1.00	200	N	N	N	200	500
K3318C	58 53 14	153 20 45	.15	1.50	1.0	>2.00	500	N	500	N	300	1,500
K3319C	58 51 3	153 24 15	.10	2.00	2.0	2.00	200	N	500	N	100	200
K3319CD	58 51 3	153 24 15	.05	1.00	1.5	.30	200	N	<500	N	70	500
K3320C	58 47 30	153 26 3	.05	1.00	15.0	.30	300	N	1,000	N	50	3,000
K3321C	58 56 25	153 32 48	.10	1.00	1.0	1.00	200	N	N	N	100	500
K3322C	58 56 50	153 34 10	.15	.50	20.0	1.00	200	N	N	N	50	10,000
K3323C	58 56 48	153 34 32	.50	2.00	2.0	.70	300	N	N	N	70	2,000
K3325C	58 53 57	153 43 14	.10	2.00	5.0	1.00	300	10.0	1,000	30	200	5,000
K3326C	58 53 45	153 43 20	.05	.50	10.0	.50	200	2.0	1,500	N	50	3,000
K3327C	59 2 16	154 0 2	.15	3.00	1.0	>2.00	2,000	N	N	N	200	100
K3329C	58 57 0	153 53 30	.15	3.00	3.0	>2.00	1,500	N	N	N	1,000	700
K3330C	58 53 30	153 55 42	.05	2.00	3.0	>2.00	300	N	N	N	50	5,000
K3331C	58 49 13	153 59 33	.15	2.00	2.0	>2.00	300	N	N	N	3,000	>10,000
K3332C	58 49 0	153 59 40	.10	2.00	20.0	1.00	300	1.0	N	N	20	>10,000
K3333C	58 48 59	153 59 52	.05	3.00	2.0	.30	500	N	N	N	1,000	>10,000
K3334C	58 49 1	153 51 43	.05	1.00	5.0	2.00	200	N	N	20	70	>10,000
K3335C	58 52 28	153 52 45	.15	3.00	5.0	>2.00	1,000	N	N	N	5,000	7,000
K3336C	58 50 47	153 46 50	.10	3.00	1.0	>2.00	500	N	N	N	100	5,000
K3337C	58 54 18	154 47 52	.10	1.00	.7	.20	200	N	N	N	50	500
K3338C	58 52 36	154 40 35	.20	2.00	1.0	.20	200	N	N	N	70	500
K3339C	58 50 50	154 41 25	.20	3.00	1.5	>2.00	500	N	N	N	70	1,500
K3340C	58 48 26	154 40 12	.70	3.00	2.0	1.00	1,000	N	N	N	50	200
K3340CD	58 48 26	154 40 12	.20	2.00	1.0	2.00	500	N	N	N	50	200
K3341C	58 48 32	154 40 32	.20	2.00	.5	.70	100	5.0	N	20	50	500
K3342C	58 49 48	154 51 37	.30	7.00	5.0	>2.00	1,000	50.0	N	N	50	1,000
K3343C	58 46 29	154 46 40	.20	5.00	1.0	.50	200	N	N	N	50	1,000
K3344C	58 48 5	154 52 50	.30	2.00	2.0	.50	200	N	N	N	70	300
K3345C	58 45 37	155 1 58	.50	3.00	2.0	>2.00	1,000	N	2,000	N	50	300
K3346C	58 49 58	154 8 18	.15	3.00	1.0	2.00	1,000	N	N	N	1,500	1,000
K3347C	58 54 19	154 9 48	.20	7.00	7.0	1.00	500	N	<500	N	5,000	7,000
K3348C	58 56 41	154 4 25	.20	5.00	5.0	>2.00	700	N	N	N	200	100
K3349C	58 56 44	154 4 10	.10	5.00	7.0	1.00	500	N	500	N	200	150
K3351C	58 46 10	154 2 38	.05	3.00	1.0	.70	700	N	N	N	>5,000	>10,000
K3352C	58 44 1	153 52 38	.05	2.00	5.0	.10	300	N	N	N	1,000	3,000
K3353C	58 46 57	154 4 11	1.00	5.00	1.0	.50	700	N	N	N	>5,000	5,000

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K3137C	N	N	N	N	50	<10	100	N	N	N	N
K3138C	N	N	N	N	<20	<10	50	N	N	N	N
K3139C	N	N	N	N	<20	<10	100	N	N	N	N
K3141C	N	N	N	N	20	<10	200	20	N	N	N
K3141CD	N	N	N	N	<20	<10	200	N	N	N	N
K3143C	N	N	N	N	<20	<10	100	N	N	N	N
K3144C	N	N	N	N	<20	<10	<50	N	N	N	N
K3145C	N	N	N	N	<20	10	150	N	N	N	<20
K3300C	N	N	N	10	20	15	500	N	<50	N	<20
K3301C	<2	N	N	150	<20	100	50	N	N	15	N
K3302C	N	N	N	20	30	10	100	N	N	<10	N
K3303C	N	N	N	70	<20	50	50	N	N	50	N
K3304C	N	N	N	N	N	<10	100	N	N	N	N
K3305C	N	N	N	N	<20	<10	500	N	N	N	<20
K3306C	N	N	N	10	<20	50	N	10	N	50	<20
K3308C	<2	N	N	20	<20	200	N	10	N	100	<20
K3309C	N	20	N	500	<20	500	N	50	N	300	500
K3310C	N	N	N	200	<20	100	100	N	N	200	300
K3311C	N	500	N	70	30	500	100	200	<50	10	2,000
K3312C	N	N	150	500	20	200	N	500	<50	20	1,000
K3313C	N	N	N	100	20	100	N	N	N	150	200
K3314C	<2	N	N	<10	<20	100	N	1,000	N	N	1,500
K3315C	2	N	N	10	50	10	N	N	N	N	<20
K3316C	N	<20	N	100	100	70	50	20	50	10	300
K3317C	<2	N	N	20	20	20	N	50	N	N	50
K3318C	<2	N	N	50	30	15	N	N	N	N	200
K3319C	N	N	N	70	20	200	N	N	N	15	20
K3319CD	N	N	N	50	<20	20	N	N	N	N	100
K3320C	N	N	N	70	<20	300	N	N	N	70	20
K3321C	N	N	N	<10	<20	300	N	N	N	N	N
K3322C	N	N	N	50	100	200	N	N	N	100	<20
K3323C	<2	N	N	10	50	200	N	N	N	50	N
K3325C	<2	N	N	200	<20	200	N	N	N	100	10,000
K3326C	N	N	N	500	<20	20	N	N	N	500	200
K3327C	N	N	N	<10	<20	<10	300	N	<50	N	N
K3329C	<2	N	N	10	30	30	300	<10	<50	10	N
K3330C	N	N	N	<10	<20	15	100	N	N	10	N
K3331C	<2	N	N	15	30	15	200	N	N	50	N
K3332C	N	500	N	70	<20	100	50	N	N	500	100
K3333C	N	N	N	<10	<20	15	200	N	N	10	N
K3334C	2	N	N	100	<20	20	N	N	N	70	20
K3335C	N	N	N	10	50	30	200	N	N	10	<20
K3336C	<2	N	N	<10	20	10	70	N	N	N	<20
K3337C	<2	N	N	<10	<20	20	N	N	N	N	<20
K3338C	<2	N	N	<10	N	50	N	N	N	N	<20
K3339C	<2	N	N	10	<20	70	50	N	N	N	<20
K3340C	<2	N	N	20	20	20	200	N	N	N	N
K3340CD	<2	N	N	10	20	100	200	N	N	N	N
K3341C	<2	N	N	N	<20	20	<50	N	N	N	200
K3342C	<2	1,000	50	100	20	200	200	20	N	20	1,000
K3343C	N	N	N	<10	<20	<10	N	N	N	N	<20
K3344C	N	N	N	15	20	50	N	N	50	N	N
K3345C	<2	<20	<50	50	50	20	100	N	N	N	<20
K3346C	N	N	N	<10	<20	15	200	N	N	N	N
K3347C	N	N	50	20	<20	50	70	<10	N	20	<20
K3348C	N	N	N	10	20	150	200	N	N	20	20
K3349C	N	N	N	<10	<20	100	N	N	N	N	N
K3351C	<2	N	N	N	<20	30	500	N	N	N	N
K3352C	N	N	N	50	<20	10	300	N	N	50	50
K3353C	N	N	N	N	<20	10	300	N	N	N	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K3137C	N	100	N	N	70	N	2,000	N	>2,000	N
K3138C	N	70	N	N	50	N	1,500	N	>2,000	N
K3139C	N	100	N	N	50	N	1,500	N	>2,000	N
K3141C	N	100	N	N	70	N	1,500	N	>2,000	N
K3141CD	N	100	N	N	100	N	1,500	N	>2,000	N
K3143C	N	100	N	<200	50	N	1,500	N	>2,000	N
K3144C	N	70	N	700	20	N	1,500	N	>2,000	N
K3145C	N	150	N	N	100	N	2,000	N	>2,000	N
K3300C	N	50	<20	N	500	N	1,000	N	>2,000	N
K3301C	N	50	N	N	100	N	700	N	>2,000	N
K3302C	N	30	N	200	200	N	300	N	>2,000	N
K3303C	N	50	N	500	50	N	1,000	700	>2,000	200
K3304C	N	50	N	N	70	N	1,500	N	>2,000	N
K3305C	N	70	N	N	200	N	1,000	N	>2,000	N
K3306C	N	N	N	2,000	50	N	70	N	>2,000	N
K3308C	N	30	N	N	100	N	300	N	>2,000	N
K3309C	N	N	N	<200	50	500	50	500	>2,000	N
K3310C	N	<10	N	N	100	N	200	2,000	>2,000	N
K3311C	N	20	N	<200	300	N	200	N	>2,000	N
K3312C	N	50	N	1,000	100	200	200	10,000	>2,000	N
K3313C	N	<10	N	N	100	N	150	500	>2,000	N
K3314C	N	10	N	200	100	N	100	7,000	>2,000	N
K3315C	N	<10	N	500	100	N	50	N	>2,000	N
K3316C	N	50	N	N	200	N	200	700	>2,000	N
K3317C	N	10	N	<200	100	N	200	500	>2,000	N
K3318C	N	30	N	500	100	N	150	N	>2,000	N
K3319C	N	<10	20	300	70	N	150	N	>2,000	N
K3319CD	N	10	N	N	20	N	100	N	>2,000	N
K3320C	N	N	N	N	30	N	50	N	>2,000	N
K3321C	N	30	N	N	70	N	700	N	>2,000	N
K3322C	N	N	N	N	100	N	200	1,000	>2,000	N
K3323C	N	10	N	300	70	N	150	N	>2,000	N
K3325C	N	20	N	<200	100	N	200	N	>2,000	N
K3326C	N	N	N	N	50	N	100	<500	>2,000	N
K3327C	N	50	<20	N	300	N	1,000	N	>2,000	N
K3329C	N	30	20	<200	200	N	700	N	>2,000	N
K3330C	N	70	50	N	100	N	1,000	N	>2,000	N
K3331C	N	50	N	200	200	N	500	N	>2,000	N
K3332C	N	<10	N	3,000	70	N	300	2,000	>2,000	N
K3333C	N	50	N	2,000	20	N	700	2,000	>2,000	N
K3334C	N	50	N	200	100	N	700	N	>2,000	N
K3335C	N	70	30	1,500	200	N	1,000	1,000	>2,000	N
K3336C	N	30	N	<200	200	N	200	N	>2,000	N
K3337C	N	N	N	200	30	N	50	N	>2,000	N
K3338C	N	N	N	500	50	1,000	20	N	>2,000	N
K3339C	N	50	<20	N	200	N	200	N	>2,000	N
K3340C	N	<10	N	500	150	200	200	N	>2,000	500
K3340CD	N	20	N	<200	100	<100	200	N	>2,000	300
K3341C	N	N	N	500	70	100	100	N	>2,000	N
K3342C	N	20	N	<200	300	1,500	500	2,000	>2,000	N
K3343C	N	N	N	500	30	N	100	N	>2,000	N
K3344C	N	<10	N	<200	100	100	70	N	>2,000	N
K3345C	N	20	N	N	200	300	500	N	>2,000	N
K3346C	N	30	N	2,000	100	N	300	2,000	>2,000	N
K3347C	N	20	N	2,000	100	N	500	700	>2,000	N
K3348C	N	15	N	N	200	N	500	N	>2,000	N
K3349C	N	15	N	<200	100	N	200	N	>2,000	N
K3351C	N	20	N	3,000	70	N	500	N	>2,000	N
K3352C	N	20	N	200	50	N	700	N	>2,000	N
K3353C	N	70	N	500	50	N	700	N	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K3356C	58 50 5	154 13 28	.70	2.00	5.0	.10	1,000	N	N	N	>5,000	300
K3358CD	58 46 53	154 13 36	.20	2.00	2.0	.50	700	N	N	N	1,000	1,000
K3360C	58 42 50	154 14 44	.05	3.00	7.0	.50	500	N	N	N	>5,000	>10,000
K3362C	58 59 0	154 47 12	.05	2.00	.5	.10	300	N	N	30	100	1,500
K3363C	58 57 23	154 51 10	.10	.70	1.0	.10	200	N	N	N	70	3,000
K3364C	58 38 48	154 16 47	.10	2.00	2.0	.70	500	N	N	N	500	500
K3365C	58 56 17	154 56 57	<.05	1.00	.2	.20	200	N	N	N	70	500
K3366C	58 38 42	154 16 50	.10	1.50	5.0	2.00	700	N	N	N	200	200
K3368C	58 51 31	154 14 1	<.05	1.00	.1	.30	300	N	N	N	200	100
K3370C	58 46 23	154 31 55	.10	1.50	1.0	1.50	500	N	N	N	1,000	500
K3372CD	58 52 3	154 27 45	.15	3.00	.7	>2.00	500	1,500.0	N	>1,000	200	300
K3373C	58 53 56	154 19 49	.07	2.00	.7	.30	300	N	N	N	50	200
K3374C	58 56 53	154 18 6	.10	2.00	.7	2.00	500	N	N	N	100	200
K3375C	58 55 6	154 14 12	.10	2.00	.5	>2.00	500	N	N	N	100	500
K3377C	58 58 50	154 24 52	.15	1.50	1.5	1.00	500	500.0	N	>1,000	100	300
K3378C	58 59 39	154 16 50	.05	1.00	2.0	.50	300	20.0	N	200	30	100
K3380C	58 58 33	154 27 10	.07	2.00	5.0	.50	300	N	N	N	5,000	300
K3381C	58 57 13	154 31 36	.05	1.50	.2	.05	200	N	N	N	70	300
K3382C	58 57 9	154 31 35	<.05	1.00	.2	>2.00	300	N	N	N	50	1,000
K3384C	58 47 26	155 5 30	.70	2.00	1.0	2.00	1,000	N	N	N	500	500
K3385C	58 58 58	154 35 35	.30	3.00	1.0	>2.00	1,000	N	N	N	100	300
K3386C	58 59 56	154 32 58	.10	1.50	10.0	1.50	200	N	N	N	150	2,000
K3387C	58 59 48	154 36 45	.20	2.00	1.0	2.00	300	N	N	N	70	500
K3388C	58 50 36	154 36 49	.15	2.00	.5	2.00	300	N	N	N	50	500
K3390C	58 51 3	154 57 50	.20	2.00	.7	.70	500	N	N	N	50	700
K3390CD	58 51 3	154 57 50	.30	2.00	1.5	1.00	500	N	N	N	50	500
K3391C	58 57 55	156 1 0	.15	2.00	1.0	>2.00	500	300.0	N	1,000	500	200
K3394C	58 53 29	154 57 48	.15	1.50	2.0	2.00	300	N	N	N	100	5,000
K3395C	58 59 59	154 58 47	.20	2.00	.7	>2.00	500	N	N	N	500	2,000
K3402C	58 36 57	154 19 25	<.05	2.00	2.0	.70	300	N	N	N	50	1,000
K3403C	58 37 12	154 26 56	.15	2.00	5.0	.70	500	N	N	N	30	>10,000
K3404C	58 33 42	154 31 45	.10	2.00	1.5	.50	300	N	N	N	50	1,500
K3405C	58 41 14	155 1 15	.15	3.00	.7	2.00	500	N	N	N	50	300
K3413C	58 16 18	155 26 22	<.05	1.50	10.0	2.00	200	N	N	N	<20	700
K3414C	58 16 10	155 26 20	.50	10.00	10.0	>1.00	500	10.0	N	N	70	2,000
K3418C	58 25 36	155 27 55	.15	3.00	.7	>2.00	1,000	N	N	N	50	200
K3421C	58 25 32	155 27 50	.20	2.00	1.0	.30	300	N	N	N	50	700
K3422C	58 26 40	154 48 32	.20	3.00	1.0	.30	300	N	N	N	50	500
K4001C	58 26 20	154 44 50	.50	3.00	20.0	1.00	500	20.0	500	N	50	1,000
K4002C	58 29 8	154 47 20	.70	10.00	2.0	.30	500	N	N	N	70	700
K4003C	58 24 13	154 40 40	1.50	7.00	3.0	1.00	1,000	N	N	N	50	700
K4004C	58 26 11	154 36 50	.50	5.00	2.0	.70	300	N	N	N	50	3,000
K4005C	58 24 50	154 35 5	.30	3.00	30.0	.30	700	N	N	N	<20	>10,000
K4006C	58 31 43	154 40 39	.50	3.00	30.0	2.00	1,000	N	N	N	50	1,000
K4007C	58 31 42	154 40 51	1.00	3.00	30.0	2.00	1,000	<1.0	N	N	5,000	500
K4008C	58 31 52	154 36 36	1.00	5.00	20.0	2.00	1,000	1.0	N	N	300	10,000
K4009C	58 31 40	154 35 10	.70	2.00	2.0	>2.00	700	N	N	N	100	3,000
K4010C	58 30 50	154 34 5	.70	5.00	20.0	2.00	1,000	<1.0	N	N	70	500
K4011C	58 30 28	155 4 38	.30	2.00	2.0	1.00	300	N	N	N	70	1,000
K4012C	58 31 36	155 0 24	.50	5.00	2.0	2.00	700	N	N	N	50	700
K4013C	58 32 20	154 56 50	1.50	5.00	2.0	1.00	700	N	N	N	50	700
K4014C	58 33 52	154 40 47	1.00	2.00	30.0	2.00	700	N	N	N	<20	>10,000
K4015C	58 34 37	154 38 7	.30	5.00	5.0	.50	500	N	N	N	50	>10,000
K4016C	58 34 18	154 30 35	1.00	2.00	30.0	.70	700	N	<500	N	20	7,000
K4017C	58 33 37	154 29 27	5.00	10.00	7.0	.70	1,000	N	N	N	50	100
K4018C	58 34 25	154 26 52	1.50	2.00	50.0	.70	2,000	7.0	<500	N	20	>10,000
K4018CD	58 34 25	154 26 52	.30	2.00	30.0	1.00	1,000	5.0	N	N	50	>10,000
K4034C	58 35 16	155 34 40	.30	5.00	1.5	1.50	700	N	N	N	50	700
K4036C	58 33 22	155 24 5	.50	5.00	1.5	2.00	700	N	N	N	200	700
K4037C	58 30 12	155 25 20	.50	2.00	2.0	>2.00	700	N	3,000	N	100	1,500

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K3356C	N	N	N	<10	<20	20	N	N	N	N	N
K3358CD	<2	N	N	<10	<20	20	50	N	N	N	N
K3360C	5	N	N	50	<20	70	<50	N	N	50	<20
K3362C	N	N	N	<10	<20	20	300	N	N	N	N
K3363C	N	N	N	<10	<20	15	N	300	N	N	500
K3364C	N	N	N	10	100	15	<50	N	N	N	N
K3365C	N	N	N	<10	<20	20	N	15	N	N	20
K3366C	N	N	N	20	<20	20	100	N	N	N	N
K3368C	N	N	N	N	<20	N	<50	N	N	N	N
K3370C	N	N	N	N	<20	10	<50	N	N	N	N
K3372CD	<2	N	N	<10	<20	20	<50	N	<50	N	20
K3373C	N	N	N	<10	<20	<10	70	N	N	N	200
K3374C	<2	N	N	N	50	<10	N	N	N	N	<20
K3375C	N	N	N	N	20	<10	<50	N	N	N	<20
K3377C	<2	N	N	10	<20	20	N	N	N	N	N
K3378C	<2	N	N	<10	20	<10	N	N	N	N	N
K3380C	<2	N	N	100	N	20	N	N	N	50	N
K3381C	<2	N	N	N	<20	<10	N	N	N	N	N
K3382C	<2	N	N	N	<20	<10	50	N	N	N	N
K3384C	N	N	N	<10	<20	30	50	20	N	N	N
K3385C	<2	N	N	<10	<20	20	100	<10	<50	N	N
K3386C	<2	20	N	100	<20	20	N	N	N	10	N
K3387C	N	N	N	15	<20	70	50	<10	N	20	N
K3388C	N	N	N	<10	<20	50	100	N	N	N	50
K3390C	<2	N	N	<10	<20	30	<50	N	N	N	N
K3390CD	<2	1,000	N	15	<20	50	50	N	N	N	50
K3391C	<2	N	N	<10	50	20	100	N	N	N	N
K3394C	<2	N	N	20	50	500	50	50	N	N	70
K3395C	N	N	N	<10	30	10	50	N	N	N	20
K3402C	N	N	N	10	N	20	100	N	N	<10	20
K3403C	<2	N	N	10	<20	50	100	N	N	50	20
K3404C	<2	N	N	<10	N	15	N	<10	N	<10	<20
K3405C	2	N	N	<10	20	20	100	10	N	N	N
K3413C	N	N	N	30	<20	200	N	N	N	50	<20
K3414C	2	N	N	70	50	500	<50	500	N	<10	700
K3418C	<2	N	N	<10	<20	10	100	N	N	N	<20
K3421C	2	N	N	<10	<20	<10	N	N	N	N	N
K3422C	<2	N	N	<10	<20	15	N	N	N	N	100
K4001C	<2	N	N	50	<20	500	N	N	N	20	15,000
K4002C	<2	N	N	<10	<20	20	N	N	N	N	20
K4003C	<2	N	N	10	70	20	50	N	N	N	N
K4004C	<2	N	N	10	50	20	N	N	N	10	<20
K4005C	<2	N	N	100	<20	200	N	N	N	50	100
K4006C	N	N	N	20	20	200	50	<10	<50	100	50
K4007C	<2	N	N	50	100	200	100	<10	<50	200	100
K4008C	<2	N	N	70	100	200	200	50	50	200	100
K4009C	N	N	N	20	150	100	100	10	50	20	150
K4010C	<2	N	N	50	70	150	100	10	70	150	50
K4011C	<2	N	N	10	<20	10	N	N	<50	N	50
K4012C	<2	N	N	10	100	20	100	N	<50	N	N
K4013C	<2	N	N	10	30	20	N	N	N	N	N
K4014C	N	N	N	10	70	200	<50	<10	N	20	<20
K4015C	<2	N	N	10	<20	20	N	N	N	N	N
K4016C	<2	N	N	200	100	200	N	N	N	150	70
K4017C	<2	N	N	50	100	30	N	N	N	50	30
K4018C	<2	N	N	100	50	1,000	N	30	N	500	200
K4018CD	<2	N	N	70	50	500	<50	20	N	200	150
K4034C	<2	N	N	<10	<20	15	50	<10	N	N	<20
K4036C	<2	N	N	<10	<20	30	<50	50	N	N	150
K4037C	N	N	N	50	20	50	300	20	N	<10	100

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K3356C	N	<10	N	<200	50	N	150	N	>2,000	N
K3358CD	N	20	N	300	100	N	150	N	>2,000	N
K3360C	N	10	N	1,000	50	N	200	N	>2,000	N
K3362C	N	30	N	200	30	N	300	N	>2,000	N
K3363C	N	15	N	200	50	N	200	N	>2,000	N
K3364C	N	50	N	N	70	N	500	N	>2,000	N
K3365C	N	N	N	N	20	N	70	N	>2,000	N
K3366C	N	50	N	N	200	N	500	N	>2,000	N
K3368C	N	10	N	N	30	N	100	N	>2,000	N
K3370C	N	30	N	N	100	N	500	N	>2,000	N
K3372CD	N	20	N	N	200	N	500	N	>2,000	N
K3373C	N	<10	N	500	30	100	150	N	>2,000	N
K3374C	N	50	N	200	150	N	300	N	>2,000	N
K3375C	N	50	N	N	150	N	500	N	>2,000	N
K3377C	N	30	N	<200	150	N	200	N	>2,000	N
K3378C	N	10	N	N	100	N	150	N	>2,000	N
K3380C	N	20	N	N	70	N	200	N	>2,000	N
K3381C	N	N	N	N	20	N	100	N	>2,000	N
K3382C	N	30	N	N	150	N	300	N	>2,000	N
K3384C	N	20	N	N	150	100	300	N	>2,000	N
K3385C	N	50	50	<200	200	300	500	N	>2,000	N
K3386C	N	20	N	<200	150	200	200	N	>2,000	N
K3387C	N	10	N	200	70	200	200	N	>2,000	200
K3388C	N	10	<20	200	150	N	200	N	>2,000	200
K3390C	N	<10	N	<200	100	N	100	N	>2,000	N
K3390CD	N	20	N	500	100	N	200	N	>2,000	N
K3391C	N	70	<20	N	200	N	700	N	>2,000	N
K3394C	N	10	N	1,500	100	N	100	N	>2,000	N
K3395C	N	50	N	N	200	N	1,000	N	>2,000	200
K3402C	N	100	N	N	50	N	1,500	N	>2,000	N
K3403C	N	<10	N	2,000	70	N	200	N	>2,000	N
K3404C	N	N	N	700	50	N	50	N	>2,000	N
K3405C	N	10	N	1,000	100	<100	150	N	>2,000	N
K3413C	N	10	N	N	100	N	200	N	>2,000	N
K3414C	<200	<10	1,500	1,000	150	N	70	N	2,000	N
K3418C	N	20	N	N	200	N	500	N	>2,000	N
K3421C	N	<10	N	700	70	N	30	N	>2,000	N
K3422C	N	<10	N	500	70	N	20	N	700	N
K4001C	N	N	N	500	50	N	100	2,000	>2,000	N
K4002C	N	<10	N	1,000	30	N	50	N	500	N
K4003C	N	30	N	1,000	100	N	150	N	>2,000	N
K4004C	N	10	N	1,000	50	N	50	N	>2,000	N
K4005C	N	N	N	1,000	20	N	50	N	>2,000	N
K4006C	N	<10	N	200	100	N	500	N	>2,000	N
K4007C	N	10	N	500	200	N	200	N	>2,000	N
K4008C	N	20	N	500	300	N	500	N	>2,000	N
K4009C	N	10	<20	500	200	N	200	N	>2,000	N
K4010C	N	15	N	500	300	N	300	N	>2,000	N
K4011C	N	10	N	200	70	N	100	N	>2,000	N
K4012C	N	20	N	500	100	N	200	N	>2,000	N
K4013C	N	20	N	700	100	N	100	N	>2,000	N
K4014C	N	<10	N	500	100	N	200	N	>2,000	N
K4015C	N	N	N	1,000	20	N	100	N	>2,000	N
K4016C	N	<10	N	500	100	N	100	500	>2,000	N
K4017C	N	20	N	1,500	100	N	50	N	>2,000	N
K4018C	N	20	N	500	100	N	200	<500	>2,000	N
K4018CD	N	30	N	1,500	100	N	500	5,000	>2,000	N
K4034C	N	70	N	500	200	N	500	N	>2,000	N
K4036C	N	50	N	N	200	100	1,000	N	>2,000	N
K4037C	N	30	N	1,000	200	500	300	N	>2,000	<200

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K4038C	58 40 32	155 48 58	.50	3.00	1.5	2.00	500	N	N	N	50	100
K4040C	58 44 19	156 0 40	.70	1.50	1.0	>2.00	700	N	N	N	100	700
K4041C	58 47 37	155 56 30	.20	1.00	.5	>2.00	500	N	N	N	100	500
K4043C	58 51 27	155 57 18	.20	1.00	1.5	1.50	200	N	N	N	100	500
K4045C	58 51 40	155 53 31	1.00	1.50	1.5	>2.00	700	N	N	N	100	700
K4046C	58 51 32	155 53 13	.20	1.00	1.0	>2.00	700	N	N	N	100	700
K4047C	58 35 38	155 44 0	.10	1.50	.5	1.00	200	N	N	N	70	700
K4048C	58 21 45	155 41 45	.30	2.00	1.0	1.00	500	N	N	N	50	300
K4048CD	58 21 45	155 41 45	1.00	1.50	1.5	1.50	1,000	N	N	N	50	700
K4049C	58 21 32	155 42 0	.30	2.00	1.0	.70	300	N	N	N	70	300
K4050C	58 21 12	155 41 28	.50	5.00	2.0	.70	500	N	N	N	70	1,500
K4052C	58 9 13	156 18 18	.10	1.00	.5	.03	700	N	N	N	100	1,000
K4053C	58 4 50	156 12 40	.30	1.00	1.5	>2.00	700	N	N	N	100	700
K4054C	58 4 41	156 12 39	.10	1.00	.5	1.00	200	N	N	N	100	1,000
K4055C	58 4 42	156 12 14	.10	.70	.5	.05	100	N	N	N	100	500
K4056C	58 3 10	156 4 30	.10	.50	.7	.02	200	N	N	N	100	700
K4057C	58 1 25	156 0 8	.70	1.50	1.5	1.00	300	N	N	N	100	100
K4058C	58 6 38	156 3 40	.70	1.50	1.5	>2.00	700	N	N	N	100	700
K4059C	58 4 45	155 37 59	.07	1.50	.5	.20	200	N	N	N	100	1,000
K4060C	58 5 23	155 35 4	.05	.50	.2	.07	150	N	N	N	500	100
K4061C	58 5 23	155 40 22	.07	1.50	.5	.10	200	N	N	N	100	700
K4062C	58 7 37	155 47 42	.10	1.50	.2	.10	200	N	N	N	100	700
K4063C	58 11 39	155 42 11	.10	.50	.3	1.00	150	N	N	N	100	700
K4064C	58 13 55	155 50 12	<.05	.50	1.0	.30	200	N	N	N	100	50
K4102C	58 55 40	155 3 55	.20	2.00	.5	1.00	200	20.0	N	200	70	500
K4103C	58 54 57	155 3 13	.50	2.00	1.5	.70	500	N	N	N	50	500
K4104C	58 54 16	155 3 42	.50	3.00	.7	2.00	500	N	N	N	300	500
K4105C	58 53 31	155 6 10	.50	1.50	1.0	>2.00	500	N	N	N	500	300
K4106C	58 52 0	155 5 10	.50	1.50	2.0	>2.00	500	100.0	N	700	1,000	300
K4107C	58 51 42	155 5 8	2.00	5.00	1.0	>2.00	1,500	N	N	N	1,500	2,000
K4108C	58 48 48	155 3 37	.50	2.00	1.0	>2.00	700	50.0	N	500	100	700
K4109C	58 46 52	155 0 15	.30	3.00	1.0	>2.00	500	N	N	N	50	500
K4110C	58 38 9	154 54 29	.10	2.00	.7	>2.00	300	N	N	N	50	500
K4111C	58 39 17	154 57 12	.10	5.00	1.0	.50	300	N	N	N	50	500
K4112C	58 41 32	154 54 36	.30	3.00	.7	.70	300	N	N	N	70	500
K4113C	58 44 2	154 45 25	.20	3.00	.7	>2.00	1,000	N	N	N	100	300
K4114C	58 32 52	154 25 8	.10	3.00	5.0	1.00	500	N	N	N	700	700
K4115C	58 31 22	154 26 17	.05	1.50	7.0	1.00	300	5.0	1,000	N	100	5,000
K4116C	58 37 33	154 39 54	.15	3.00	.7	>2.00	500	N	N	N	1,500	300
K4117C	58 39 35	154 35 0	.20	3.00	1.0	1.50	500	N	N	N	100	5,000
K4118C	58 39 44	154 35 0	.50	2.00	2.0	1.00	1,000	N	N	N	500	3,000
K4119C	58 42 4	154 29 35	.50	3.00	7.0	2.00	1,000	5.0	N	N	50	>10,000
K4120C	58 40 30	154 11 47	.05	1.50	5.0	.10	300	N	N	N	>5,000	>10,000
K4121C	58 42 48	154 8 11	.15	2.00	1.0	1.50	500	N	N	N	200	500
K4122C	58 40 5	154 1 38	.10	5.00	1.0	>2.00	1,000	N	N	N	5,000	>10,000
K4123C	58 38 49	153 56 30	.20	3.00	7.0	.50	500	5.0	3,000	20	500	>10,000
K4124C	58 38 54	153 56 35	.10	5.00	7.0	.50	300	1.0	N	N	>5,000	1,000
K4125C	58 38 5	153 45 37	.15	5.00	.7	>2.00	500	N	N	N	2,000	1,000
K4126C	58 40 22	153 39 40	.15	1.00	10.0	1.00	300	2.0	2,000	N	50	>10,000
K4126CD	58 40 22	153 39 40	.20	1.50	5.0	2.00	500	10.0	700	30	100	10,000
K4127C	58 38 30	153 38 25	.50	1.50	2.0	>2.00	300	N	N	N	2,000	700
K4128C	58 43 34	153 35 45	.15	2.00	10.0	.50	300	N	N	N	50	5,000
K4129C	58 44 22	153 28 34	.10	2.00	2.0	>2.00	500	N	<500	N	300	300
K4130C	58 55 37	153 23 17	.10	1.50	2.0	>2.00	200	N	N	N	100	1,000
K4131C	58 51 50	153 22 13	.10	2.00	10.0	.50	300	200.0	3,000	300	50	1,500
K4132C	58 48 57	153 23 15	.15	1.00	3.0	>2.00	300	N	<500	N	50	10,000
K4133C	58 45 45	153 27 10	.15	3.00	1.5	>2.00	300	N	3,000	N	200	200
K4134C	58 16 45	154 30 15	.10	1.00	30.0	.50	200	N	N	N	20	2,000
K4135C	58 29 20	154 13 40	.15	2.00	20.0	.20	300	2.0	1,500	N	20	5,000
K4136C	58 57 41	153 27 40	.15	2.00	3.0	>2.00	300	<1.0	N	N	1,500	3,000

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K4038C	<2	N	N	<10	50	20	200	N	N	N	20
K4040C	N	N	N	<10	100	10	<50	N	N	N	500
K4041C	N	N	N	N	30	10	<50	30	N	10	50
K4043C	N	N	N	N	20	<10	N	N	N	N	50
K4045C	N	N	N	<10	50	<10	<50	N	N	N	150
K4046C	N	N	N	N	20	<10	50	N	N	N	50
K4047C	N	N	N	N	N	10	N	N	N	N	N
K4048C	N	N	N	<10	<20	<10	200	N	N	N	N
K4048CD	N	N	N	20	30	300	N	N	N	N	50
K4049C	<2	N	N	N	<20	<10	<50	N	N	N	N
K4050C	<2	N	N	<10	<20	<10	N	N	N	N	<20
K4052C	N	N	N	N	<20	<10	N	N	N	N	N
K4053C	N	N	N	10	50	10	<50	N	N	N	20
K4054C	N	N	N	<10	<20	<10	N	N	N	N	<20
K4055C	N	N	N	N	N	<10	N	N	N	N	N
K4056C	N	N	N	N	<20	20	N	N	N	N	N
K4057C	N	N	N	<10	100	<10	N	N	N	N	N
K4058C	N	N	N	15	50	<10	<50	N	N	N	<20
K4059C	N	N	N	N	<20	<10	N	N	N	N	N
K4060C	N	N	N	<10	N	<10	N	N	N	N	N
K4061C	N	N	N	N	<20	<10	N	N	N	N	<20
K4062C	N	N	N	N	N	<10	N	N	N	N	N
K4063C	N	N	N	N	<20	<10	N	N	N	N	N
K4064C	N	N	N	N	N	<10	N	N	N	N	N
K4102C	N	N	N	<10	20	<10	<50	N	N	N	N
K4103C	<2	N	N	10	20	50	50	N	N	<10	N
K4104C	<2	N	N	<10	20	20	50	N	N	N	N
K4105C	N	N	N	10	70	10	50	N	N	N	N
K4106C	N	N	N	10	200	30	N	N	N	N	N
K4107C	N	N	N	10	<20	<10	N	N	<50	<10	N
K4108C	<2	N	N	<10	20	30	N	N	N	N	<20
K4109C	<2	N	N	<10	<20	20	200	N	N	N	N
K4110C	<2	N	N	<10	<20	10	50	N	<50	N	N
K4111C	<2	N	N	<10	<20	10	50	N	N	N	N
K4112C	N	N	N	<10	<20	10	100	N	N	N	N
K4113C	N	N	N	<10	<20	<10	500	N	<50	N	<20
K4114C	<2	N	N	20	<20	100	50	<10	N	70	<20
K4115C	N	N	N	50	<20	70	50	N	N	100	150
K4116C	<2	N	N	<10	20	<10	100	N	N	N	N
K4117C	N	N	N	N	<20	20	100	N	N	N	N
K4118C	<2	N	N	10	<20	20	50	N	N	N	N
K4119C	N	N	N	15	50	50	100	10	<50	50	<20
K4120C	<2	N	N	10	<20	100	N	10	N	50	<20
K4121C	<2	N	N	<10	<20	10	100	N	<50	N	N
K4122C	N	N	N	20	50	30	100	N	<50	<10	20
K4123C	<2	N	N	70	20	100	N	N	N	100	300
K4124C	5	N	N	50	<20	100	N	N	N	70	100
K4125C	N	N	N	<10	50	70	100	N	<50	N	50
K4126C	N	N	100	300	50	500	N	200	N	50	500
K4126CD	<2	N	N	100	30	500	N	500	N	50	1,000
K4127C	<2	N	N	20	150	1,000	200	30	50	<10	50
K4128C	N	N	N	70	<20	100	<50	N	N	70	70
K4129C	<2	N	N	20	<20	500	200	10	N	N	20
K4130C	N	N	N	100	100	20	50	N	50	50	<20
K4131C	N	N	N	100	<20	30	N	N	N	10	100
K4132C	N	N	N	50	100	70	N	N	N	<10	N
K4133C	N	N	N	100	70	30	200	N	N	70	N
K4134C	N	N	N	200	<20	200	N	N	N	300	20
K4135C	N	N	N	100	<20	70	N	15	N	50	200
K4136C	<2	N	N	50	70	500	50	100	N	30	200

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K4038C	N	100	<20	N	200	N	1,500	N	>2,000	N
K4040C	N	30	N	N	200	N	500	N	>2,000	N
K4041C	N	50	N	N	100	<100	500	N	>2,000	N
K4043C	N	30	N	N	100	N	500	N	>2,000	N
K4045C	N	50	N	<200	200	N	200	N	>2,000	N
K4046C	N	50	N	N	300	N	700	N	>2,000	N
K4047C	N	70	N	<200	70	N	700	N	>2,000	N
K4048C	N	70	N	N	100	N	1,000	N	>2,000	N
K4048CD	N	30	20	N	100	N	200	N	>2,000	N
K4049C	N	50	N	<200	50	N	500	N	>2,000	N
K4050C	N	10	N	500	70	N	200	N	>2,000	N
K4052C	N	N	N	<200	30	N	100	N	>2,000	N
K4053C	N	70	N	N	200	N	500	N	>2,000	N
K4054C	N	15	N	200	50	N	150	N	>2,000	N
K4055C	N	20	N	N	30	N	200	N	>2,000	N
K4056C	N	20	N	N	20	N	300	N	>2,000	N
K4057C	N	50	N	<200	50	N	500	N	>2,000	N
K4058C	N	30	N	N	150	N	300	N	>2,000	N
K4059C	N	10	N	N	20	N	300	N	>2,000	N
K4060C	N	70	N	N	30	N	1,000	N	>2,000	N
K4061C	N	50	N	N	20	N	500	N	>2,000	N
K4062C	N	50	N	N	50	N	1,000	N	>2,000	N
K4063C	N	50	N	N	50	N	500	N	>2,000	N
K4064C	N	50	N	N	50	N	500	N	>2,000	N
K4102C	N	10	N	300	70	N	100	N	>2,000	N
K4103C	N	20	N	<200	70	N	100	N	>2,000	N
K4104C	N	30	N	200	100	N	150	N	>2,000	N
K4105C	N	30	N	500	100	N	100	N	>2,000	N
K4106C	N	20	N	200	500	2,000	70	N	>2,000	N
K4107C	N	15	N	N	150	N	150	N	>2,000	N
K4108C	N	50	N	N	100	<100	500	N	>2,000	N
K4109C	N	15	N	200	200	150	200	N	>2,000	<200
K4110C	N	30	N	<200	100	N	300	N	>2,000	N
K4111C	N	N	N	500	30	N	100	N	>2,000	N
K4112C	N	<10	N	500	70	N	150	N	>2,000	N
K4113C	N	20	N	N	200	N	500	N	>2,000	N
K4114C	N	30	N	200	70	N	300	700	>2,000	N
K4115C	N	50	N	N	70	N	500	N	>2,000	N
K4116C	N	50	N	N	100	N	700	N	>2,000	N
K4117C	N	15	N	500	70	N	150	N	>2,000	N
K4118C	N	10	N	500	70	N	100	N	>2,000	N
K4119C	N	15	N	1,000	100	N	300	N	>2,000	N
K4120C	N	N	N	1,000	20	N	50	5,000	>2,000	N
K4121C	N	10	N	200	100	N	150	N	>2,000	N
K4122C	N	30	N	500	200	N	500	N	>2,000	N
K4123C	N	10	N	2,000	100	N	100	N	>2,000	N
K4124C	N	10	N	N	50	N	50	1,000	>2,000	N
K4125C	N	50	N	<200	200	N	300	N	>2,000	N
K4126C	N	10	N	1,000	100	N	200	10,000	>2,000	N
K4126CD	N	30	N	500	150	N	200	2,000	>2,000	N
K4127C	N	50	N	N	200	N	200	N	>2,000	N
K4128C	N	N	N	300	50	N	150	2,000	>2,000	N
K4129C	N	20	N	N	100	N	700	N	>2,000	N
K4130C	N	30	20	<200	200	N	100	2,000	>2,000	N
K4131C	N	N	N	300	50	N	200	N	>2,000	N
K4132C	N	15	N	200	200	N	150	N	>2,000	N
K4133C	N	30	N	N	300	N	500	N	>2,000	N
K4134C	N	N	N	<200	100	N	20	500	500	N
K4135C	N	N	N	200	20	N	20	N	2,000	N
K4136C	N	30	N	200	200	N	200	2,000	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K4138C	58 57 23	153 40 30	.70	2.00	2.0	.70	500	N	N	N	150	500
K4139C	58 53 9	153 47 10	.10	3.00	10.0	>2.00	700	N	N	N	700	7,000
K4140C	59 3 30	154 5 0	.15	3.00	2.0	>2.00	1,000	N	N	N	1,000	70
K4141C	59 3 3	153 57 26	.15	3.00	2.0	>2.00	700	N	N	N	50	300
K4142C	59 2 8	153 50 53	.10	5.00	5.0	>2.00	500	N	N	N	500	200
K4142CD	59 2 8	153 50 53	.10	3.00	7.0	>2.00	500	N	N	N	500	500
K4143C	59 0 33	153 51 29	.10	3.00	5.0	2.00	1,000	N	N	N	50	500
K4144C	58 57 15	153 51 24	.15	3.00	1.0	>2.00	1,000	N	N	N	5,000	200
K4145C	58 52 5	153 58 38	.10	3.00	3.0	1.50	500	N	N	N	50	10,000
K4146C	58 47 44	153 45 55	.10	5.00	2.0	>2.00	1,000	N	N	N	100	200
K4147C	58 47 47	153 48 25	.10	1.50	20.0	1.00	300	10.0	N	N	50	3,000
K4148C	58 49 49	153 50 47	.15	2.00	10.0	.70	300	N	N	N	50	5,000
K4149C	58 51 41	153 51 18	.20	3.00	1.0	>2.00	500	N	N	N	2,000	1,500
K4150C	58 54 33	153 50 48	.15	3.00	1.0	>2.00	700	N	N	N	>5,000	300
K4151C	58 55 11	154 49 43	.70	5.00	2.0	2.00	1,000	N	N	N	50	200
K4152C	58 52 27	154 46 20	.30	7.00	1.0	2.00	500	N	N	N	70	500
K4153C	58 50 5	154 43 50	.10	2.00	.7	2.00	200	N	N	N	50	100
K4154C	58 48 30	154 42 27	.20	1.50	2.0	.70	100	N	N	N	50	500
K4155C	58 49 58	154 50 45	.20	2.00	3.0	.30	200	5.0	N	N	100	700
K4156C	58 48 23	154 48 52	.30	7.00	1.5	>2.00	700	N	N	N	50	500
K4157C	58 46 20	154 47 53	.30	2.00	1.0	>2.00	700	N	N	N	50	500
K4158C	58 46 58	154 52 54	.50	5.00	2.0	2.00	500	N	N	N	50	200
K4159C	58 45 50	154 58 11	.20	3.00	1.0	1.00	500	N	N	200	50	500
K4160C	58 48 30	154 59 40	.50	2.00	2.0	2.00	500	N	N	N	70	200
K4161C	58 51 37	154 9 38	.10	5.00	1.0	.50	1,000	N	N	N	5,000	500
K4162C	59 1 28	154 7 9	.20	5.00	2.0	2.00	500	N	N	N	100	200
K4163C	58 57 18	154 9 13	.70	7.00	3.0	>2.00	1,500	N	N	N	100	200
K4165C	58 59 37	153 53 57	<.05	1.50	5.0	2.00	70	N	N	N	1,000	200
K4165CD	58 59 37	153 53 57	1.00	5.00	2.0	.30	700	N	N	N	2,000	500
K4166C	58 45 0	154 0 34	.15	3.00	3.0	1.00	500	>10,000.0	N	>1,000	>5,000	>10,000
K4167C	58 46 36	154 3 58	<.05	3.00	2.0	.70	500	700.0	N	N	>5,000	>10,000
K4168C	58 44 0	153 52 54	<.05	.30	20.0	.10	100	10.0	N	N	200	>10,000
K4169C	58 43 52	153 54 51	.10	2.00	.7	.70	300	1,000.0	5,000	>1,000	20	>10,000
K4170C	58 46 3	154 7 0	.10	3.00	.7	.70	1,000	N	N	N	2,000	500
K4171C	58 50 41	154 0 59	<.05	3.00	.7	.30	700	N	N	N	50	7,000
K4176C	58 44 20	154 22 25	1.00	3.00	2.0	.30	500	N	N	N	>5,000	>10,000
K4177C	58 56 55	154 58 4	<.05	1.00	.1	.20	200	N	N	N	70	700
K4178C	58 56 40	154 45 30	<.05	2.00	2.0	1.00	300	N	N	N	50	500
K4179C	58 56 42	154 45 42	.05	1.00	2.0	.20	200	N	N	N	50	700
K4180C	58 39 50	154 18 52	.10	2.00	3.0	.50	300	N	N	N	1,000	>10,000
K4180CD	58 49 50	154 18 52	.15	3.00	3.0	>2.00	1,000	N	N	N	1,000	>10,000
K4181C	58 41 20	154 18 30	.10	3.00	1.0	2.00	1,000	N	N	N	1,500	3,000
K4182C	58 45 37	154 21 12	.15	3.00	1.0	1.00	1,000	N	N	N	700	700
K4183C	58 49 12	154 18 40	.05	1.50	.3	.50	300	N	N	N	5,000	700
K4184C	58 47 28	154 27 36	.05	3.00	1.0	1.00	500	N	N	N	>5,000	200
K4186C	58 50 0	154 32 10	.10	2.00	1.0	2.00	300	N	N	N	2,000	700
K4187C	58 52 10	154 21 35	.10	3.00	.7	>2.00	1,000	N	N	N	700	700
K4188C	58 58 52	154 17 6	.20	2.00	3.0	.70	1,000	N	N	N	50	200
K4189C	58 51 55	154 13 12	.05	1.50	.2	1.00	300	N	N	N	3,000	200
K4190C	58 53 49	154 18 24	.15	2.00	.5	>2.00	500	N	N	N	50	700
K4191C	58 59 8	154 23 40	.15	1.00	.5	.20	200	N	N	N	70	500
K4192C	58 55 45	154 26 48	.20	3.00	1.5	>2.00	1,000	N	N	N	100	5,000
K4193C	58 55 50	154 26 36	.20	3.00	2.0	>2.00	500	N	N	N	70	300
K4194C	58 54 8	154 36 30	.10	2.00	.5	2.00	200	N	N	N	50	500
K4195C	58 53 20	154 36 5	.10	1.50	.5	.50	300	N	N	N	50	500
K4196C	58 50 28	155 8 30	.15	2.00	.5	2.00	500	N	N	N	50	500
K4197C	58 58 29	154 58 48	.20	3.00	3.0	>2.00	1,000	N	N	N	500	>10,000
K4197CD	58 58 29	154 58 48	.10	1.50	2.0	1.50	300	15.0	N	30	500	5,000
K4198C	58 57 47	154 38 22	.20	2.00	1.0	>2.00	500	N	N	N	50	300
K4199C	58 59 2	154 39 4	.15	1.50	.5	>2.00	300	N	N	N	100	100

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K4138C	<2	N	N	20	100	200	100	N	N	50	N
K4139C	N	N	N	70	100	700	<50	N	N	20	500
K4140C	N	N	N	20	<20	50	300	<10	<50	<10	N
K4141C	<2	N	N	10	<20	30	200	N	<50	10	N
K4142C	N	N	N	50	<20	70	100	<10	N	10	<20
K4142CD	N	N	N	10	<20	200	200	N	N	50	20
K4143C	N	N	N	<10	20	30	70	N	N	<10	N
K4144C	<2	N	N	10	30	<10	200	N	50	N	N
K4145C	N	N	N	<10	<20	15	200	N	N	20	N
K4146C	N	N	N	<10	50	20	<50	N	N	N	N
K4147C	N	N	N	70	30	500	N	50	N	100	3,000
K4148C	N	N	N	100	<20	70	N	30	N	70	N
K4149C	<2	N	N	<10	50	15	100	50	<50	N	N
K4150C	N	N	N	N	30	<10	200	N	N	N	N
K4151C	<2	N	70	20	50	20	300	50	N	N	100
K4152C	<2	N	N	<10	<20	50	300	20	N	N	100
K4153C	N	20	N	N	<20	20	200	N	N	N	N
K4154C	<2	N	N	50	<20	70	N	N	N	N	N
K4155C	2	N	N	10	<20	200	N	N	N	N	<20
K4156C	<2	30	<50	<10	20	300	500	N	N	N	30
K4157C	N	N	50	<10	<20	<10	100	N	N	N	20
K4158C	<2	N	N	10	20	50	100	N	N	N	N
K4159C	<2	N	N	<10	20	15	150	N	N	N	N
K4160C	N	100	N	15	20	50	200	N	N	<10	N
K4161C	N	N	N	N	<20	15	200	<10	N	N	N
K4162C	N	N	<50	<10	<20	20	50	N	N	N	N
K4163C	N	N	N	<10	100	30	200	N	70	N	N
K4165C	N	N	N	<10	<20	20	N	N	N	<10	N
K4165CD	N	N	N	<10	<20	20	200	N	N	N	<20
K4166C	<2	150	N	50	<20	200	100	100	N	10	300
K4167C	N	100	150	20	<20	10	100	N	N	N	700
K4168C	N	N	N	100	<20	30	N	N	N	100	5,000
K4169C	N	N	N	10	<20	10	50	N	N	N	5,000
K4170C	N	N	N	N	<20	10	200	N	N	N	N
K4171C	N	N	N	N	N	10	200	N	N	N	N
K4176C	N	N	N	N	<20	20	100	N	N	N	N
K4177C	N	N	N	N	<20	20	N	10	N	N	N
K4178C	N	N	N	10	<20	50	300	N	N	10	N
K4179C	N	N	N	20	<20	20	N	N	N	N	N
K4180C	N	N	N	N	N	30	<50	N	N	20	<20
K4180CD	<2	N	N	10	<20	100	200	N	N	100	20
K4181C	N	N	N	N	<20	10	200	N	N	N	<20
K4182C	<2	N	N	<10	20	10	200	N	N	N	<20
K4183C	<2	N	N	N	<20	<10	N	N	N	N	N
K4184C	5	N	N	N	<20	10	200	N	N	N	<20
K4186C	<2	N	N	10	<20	10	N	N	N	N	<20
K4187C	<2	N	N	<10	<20	<10	200	N	N	N	N
K4188C	<2	N	N	10	50	15	<50	N	N	N	N
K4189C	N	N	N	N	N	10	50	N	N	N	<20
K4190C	N	N	N	N	20	10	50	N	N	N	20
K4191C	<2	N	N	<10	<20	10	N	N	N	N	N
K4192C	N	N	N	10	30	15	50	10	<50	N	50
K4193C	<2	N	N	15	50	20	50	N	<50	N	N
K4194C	<2	N	N	<10	<20	15	N	N	N	N	N
K4195C	<2	N	N	<10	<20	20	<50	10	N	N	N
K4196C	<2	N	N	<10	<20	10	50	N	N	N	N
K4197C	<2	30	<50	100	30	100	100	700	N	<10	1,000
K4197CD	<2	100	N	70	<20	50	50	700	N	N	1,000
K4198C	<2	N	N	<10	<20	30	<50	N	N	N	<20
K4199C	N	N	N	N	<20	10	<50	N	N	N	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K4138C	N	20	N	200	200	N	200	N	>2,000	N
K4139C	N	50	N	<200	500	N	300	<500	>2,000	N
K4140C	N	50	<20	N	200	N	1,000	N	>2,000	N
K4141C	N	30	N	N	200	N	500	N	>2,000	N
K4142C	N	30	N	N	150	N	700	N	>2,000	N
K4142CD	N	30	N	N	100	N	500	N	>2,000	N
K4143C	N	20	N	<200	150	N	500	N	>2,000	N
K4144C	N	20	<20	N	200	N	500	N	>2,000	N
K4145C	N	30	N	200	100	N	500	N	>2,000	N
K4146C	N	30	N	N	500	N	100	N	>2,000	N
K4147C	N	<10	N	N	100	N	50	5,000	>2,000	N
K4148C	N	N	N	1,000	100	N	100	N	>2,000	N
K4149C	N	30	N	200	200	N	300	N	>2,000	N
K4150C	N	30	N	N	200	N	500	N	>2,000	N
K4151C	N	70	N	N	200	300	700	N	>2,000	200
K4152C	N	<10	N	500	150	N	200	N	>2,000	N
K4153C	N	20	N	N	200	N	500	N	>2,000	300
K4154C	N	20	N	<200	50	500	200	N	>2,000	N
K4155C	N	<10	N	500	50	N	50	N	>2,000	<200
K4156C	N	50	N	<200	200	N	1,000	N	>2,000	N
K4157C	N	50	N	N	150	N	1,000	N	>2,000	N
K4158C	N	<10	N	500	150	N	150	N	>2,000	N
K4159C	N	10	N	500	70	100	150	N	>2,000	N
K4160C	N	15	20	N	200	200	500	N	>2,000	N
K4161C	N	20	N	300	70	N	200	N	>2,000	N
K4162C	N	30	N	N	200	N	500	N	>2,000	N
K4163C	N	50	20	200	500	N	500	N	>2,000	N
K4165C	N	<10	N	N	70	N	100	N	>2,000	N
K4165CD	N	50	N	<200	50	N	500	N	>2,000	N
K4166C	N	20	N	3,000	100	200	300	N	>2,000	N
K4167C	N	30	N	3,000	50	N	500	5,000	>2,000	N
K4168C	N	N	N	7,000	20	100	100	<500	>2,000	N
K4169C	N	20	N	10,000	70	<100	200	N	>2,000	N
K4170C	N	20	N	300	100	N	300	N	>2,000	N
K4171C	N	30	N	1,000	30	N	500	N	>2,000	N
K4176C	N	10	N	3,000	50	N	200	N	>2,000	N
K4177C	N	N	N	<200	20	500	50	N	>2,000	N
K4178C	N	30	N	N	70	N	1,000	N	>2,000	N
K4179C	N	N	N	200	50	N	20	N	2,000	N
K4180C	N	50	N	<200	50	N	700	N	>2,000	N
K4180CD	N	30	<20	<200	100	N	500	N	>2,000	N
K4181C	N	100	N	N	200	N	1,000	N	>2,000	N
K4182C	N	50	N	<200	100	N	500	N	>2,000	N
K4183C	N	20	N	N	70	N	150	N	>2,000	N
K4184C	N	20	N	N	70	N	500	N	>2,000	N
K4186C	N	30	N	300	100	N	300	N	>2,000	N
K4187C	N	50	N	N	200	N	500	N	>2,000	N
K4188C	N	50	N	<200	200	N	500	N	>2,000	N
K4189C	N	70	N	N	100	N	1,000	N	>2,000	N
K4190C	N	30	N	<200	150	N	500	N	>2,000	N
K4191C	N	<10	N	<200	30	N	100	N	>2,000	N
K4192C	N	30	N	300	200	N	200	N	>2,000	N
K4193C	N	20	N	500	200	N	200	N	>2,000	N
K4194C	N	N	N	200	20	N	50	N	>2,000	N
K4195C	N	N	N	<200	50	200	50	N	>2,000	N
K4196C	N	15	N	500	100	N	150	N	>2,000	N
K4197C	N	20	N	1,000	200	N	1,000	5,000	>2,000	200
K4197CD	N	10	N	200	150	N	200	700	>2,000	N
K4198C	N	20	20	N	500	N	1,000	N	>2,000	N
K4199C	N	100	N	N	200	N	1,000	N	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K4200C	58 50 49	154 36 0	.15	3.00	.7	2.00	300	N	N	N	50	500
K4201C	58 52 19	154 58 22	.20	1.50	1.0	>2.00	500	N	N	N	1,000	700
K4202C	58 54 18	154 54 47	.15	3.00	2.0	>2.00	500	N	N	N	50	200
K4500C	58 37 59	154 53 58	1.00	3.00	2.0	>2.00	2,000	N	N	N	100	300
K4501C	58 39 12	154 56 5	.20	3.00	2.0	1.00	500	N	N	N	500	300
K4502C	58 41 55	154 53 11	.30	2.00	10.0	>2.00	500	N	N	N	50	500
K4503C	58 44 22	154 45 5	.10	2.00	.7	2.00	300	50.0	N	N	20	>10,000
K4504C	58 40 16	154 42 6	.20	2.00	.5	>2.00	1,000	N	N	N	50	200
K4505C	58 32 40	154 25 25	.05	2.00	1.0	>2.00	500	N	N	N	2,000	700
K4506C	58 38 18	154 38 32	.20	3.00	5.0	2.00	1,000	N	N	N	100	10,000
K4507C	58 39 2	154 38 52	.10	2.00	20.0	2.00	300	N	N	N	5,000	200
K4508C	58 44 30	154 34 55	.20	3.00	2.0	>2.00	1,000	N	N	N	>5,000	>10,000
K4509C	58 42 9	154 27 18	.50	3.00	5.0	>2.00	3,000	N	N	N	1,000	1,000
K4510C	58 43 55	154 8 20	.50	3.00	5.0	>2.00	1,000	2.0	700	N	5,000	700
K4512C	58 41 55	154 3 0	.20	2.00	2.0	>2.00	1,000	N	N	N	>5,000	3,000
K4513C	58 38 22	153 53 55	.20	3.00	10.0	>2.00	500	50.0	700	>1,000	700	3,000
K4514C	58 39 54	153 46 25	.10	2.00	1.0	>2.00	500	N	500	N	1,000	10,000
K4515C	58 42 45	153 39 0	.20	5.00	2.0	1.50	500	N	N	N	50	700
K4516C	58 41 27	153 36 40	.15	2.00	1.0	2.00	500	N	N	N	500	3,000
K4517C	58 41 50	153 33 41	.20	1.50	5.0	1.00	500	N	N	N	200	>10,000
K4518C	58 43 50	153 30 53	.10	2.00	5.0	.70	200	N	3,000	N	200	1,000
K4519C	58 48 20	153 26 50	.15	2.00	2.0	1.00	300	N	10,000	N	200	1,000
K4520C	58 56 43	153 23 52	.20	2.00	5.0	1.00	500	N	N	N	100	3,000
K4520CD	58 56 43	153 23 52	.15	2.00	3.0	1.00	300	N	N	N	500	700
K4521C	58 51 26	153 23 30	.20	2.00	2.0	1.50	300	N	N	N	500	300
K4522C	58 49 22	153 23 6	.70	1.50	2.0	>2.00	1,000	N	N	N	700	1,000
K4524C	58 17 7	154 30 30	.05	1.00	20.0	.50	300	N	N	N	20	1,000
K4525C	58 28 43	154 13 12	1.00	5.00	3.0	.10	500	N	N	N	50	700
K4526C	58 32 13	153 57 13	.15	2.00	1.5	2.00	300	N	N	N	70	1,000
K4527C	58 57 26	153 30 17	.15	.20	30.0	.50	300	2.0	500	N	50	10,000
K4528C	58 56 2	153 36 54	.70	1.50	30.0	.70	300	1.0	3,000	N	1,000	100
K4529C	58 56 33	153 41 38	2.00	5.00	5.0	.70	1,000	N	N	N	>5,000	200
K4530C	58 53 37	153 45 9	.20	1.00	20.0	.30	300	10.0	1,000	N	50	2,000
K4531C	59 2 52	154 5 40	.05	3.00	7.0	>2.00	500	N	N	N	50	10,000
K4532C	59 3 30	153 52 56	.10	3.00	.7	>2.00	500	N	N	N	50	3,000
K4533C	58 57 34	153 49 45	.20	3.00	1.0	>2.00	1,000	N	N	N	200	300
K4535C	58 55 59	153 54 22	.15	2.00	2.0	>2.00	500	N	N	N	5,000	200
K4536C	58 51 25	153 58 20	.05	1.50	20.0	.30	500	<1.0	N	N	200	>10,000
K4537C	58 47 20	153 48 20	.20	1.50	20.0	1.00	500	5.0	N	N	200	2,000
K4538C	58 47 7	153 48 40	.10	3.00	1.0	>2.00	300	N	N	N	700	500
K4539C	58 47 16	153 49 10	.10	2.00	7.0	1.00	300	5.0	1,000	N	50	2,000
K4540C	58 51 3	153 51 6	.20	3.00	15.0	>2.00	500	N	N	N	>5,000	>10,000
K4541C	58 52 16	153 50 41	.70	10.00	1.0	2.00	300	N	N	N	>5,000	100
K4542C	58 56 35	153 46 16	3.00	2.00	20.0	2.00	5,000	N	N	N	20	2,000
K4543C	58 55 50	154 50 57	.20	1.00	.5	.30	100	N	N	N	200	500
K4544C	58 52 53	154 46 4	.30	2.00	1.0	.50	300	N	N	N	150	700
K4545C	58 51 5	154 43 25	.30	7.00	1.5	>2.00	500	N	N	N	70	200
K4546C	58 54 7	154 51 30	.50	2.00	2.0	>2.00	500	50.0	N	100	2,000	300
K4547C	58 51 37	154 51 32	.10	1.50	5.0	1.50	500	10.0	<500	N	50	>10,000
K4548C	58 51 11	154 51 0	.30	2.00	2.0	>2.00	500	N	N	N	50	1,500
K4549C	58 50 34	154 51 30	.20	1.00	1.5	2.00	200	N	N	N	50	1,500
K4550C	58 47 10	154 47 17	.30	2.00	3.0	>2.00	500	N	N	N	70	10,000
K4551C	58 45 21	154 42 8	.70	5.00	2.0	>2.00	700	N	N	N	100	300
K4553C	58 45 37	154 52 0	.07	2.00	.7	>2.00	500	N	N	N	50	1,000
K4554C	58 45 48	155 0 45	.10	2.00	1.0	.70	200	N	N	N	50	200
K4557C	58 50 28	154 5 57	.15	5.00	.5	.20	700	N	N	N	>5,000	50
K4558C	58 55 40	154 9 50	.20	5.00	5.0	1.00	500	1.0	N	N	500	10,000
K4558CD	58 55 40	154 9 50	.05	3.00	3.0	.05	300	N	N	N	>5,000	>10,000
K4559C	58 58 58	154 5 23	.10	2.00	1.0	1.50	300	N	N	N	700	200
K4560C	58 58 50	154 5 34	.20	5.00	3.0	>2.00	1,000	N	N	N	1,000	100

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K4200C	2	N	N	<10	<20	30	50	N	N	N	N
K4201C	<2	20	N	15	150	50	200	20	<50	N	100
K4202C	<2	N	N	70	20	70	100	50	N	N	300
K4500C	<2	N	N	10	100	10	50	N	N	N	N
K4501C	<2	N	N	<10	20	50	100	N	N	N	N
K4502C	<2	N	N	20	20	10	100	N	N	50	20
K4503C	N	N	N	10	<20	20	100	N	N	10	200
K4504C	N	N	N	N	<20	10	200	N	N	N	<20
K4505C	N	N	N	<10	<20	15	50	N	N	N	N
K4506C	N	N	N	<10	<20	50	200	N	N	N	N
K4507C	<2	N	N	10	<20	100	50	N	N	10	<20
K4508C	<2	N	N	15	20	15	200	N	N	N	N
K4509C	N	N	N	20	200	100	50	N	<50	50	N
K4510C	N	N	N	20	50	500	200	20	50	200	200
K4512C	<2	N	N	10	50	500	50	N	<50	20	50
K4513C	N	300	N	70	70	500	200	200	N	70	<20
K4514C	N	200	N	10	100	200	50	200	N	N	5,000
K4515C	<2	N	N	10	50	700	300	N	N	N	50
K4516C	N	N	N	10	20	20	100	N	N	N	<20
K4517C	<2	N	N	100	20	300	N	N	N	100	50
K4518C	<2	N	N	100	<20	100	100	N	N	50	30
K4519C	<2	N	N	70	20	50	N	N	N	10	200
K4520C	<2	N	N	500	50	30	N	N	N	10	<20
K4520CD	<2	N	N	100	50	20	N	N	N	<10	N
K4521C	<2	N	N	50	50	500	N	N	N	N	N
K4522C	N	N	N	10	200	15	N	N	N	10	N
K4524C	N	N	N	150	<20	100	N	N	N	200	50
K4525C	N	N	N	20	70	20	N	N	N	N	N
K4526C	N	N	N	<10	<20	10	50	N	N	N	N
K4527C	N	N	N	200	20	200	N	N	N	500	200
K4528C	N	N	N	500	100	100	N	N	N	500	500
K4529C	2	N	N	20	300	30	N	<10	N	70	<20
K4530C	N	N	N	200	50	50	N	N	N	300	700
K4531C	N	N	N	<10	<20	20	100	N	N	20	<20
K4532C	N	N	N	N	<20	10	200	N	N	N	<20
K4533C	<2	N	N	<10	20	10	200	10	<50	N	N
K4535C	<2	N	N	<10	20	20	300	N	<50	N	70
K4536C	N	N	N	100	<20	100	N	N	N	500	200
K4537C	N	N	N	150	20	500	N	N	N	200	50
K4538C	<2	N	N	<10	<20	10	200	N	N	N	100
K4539C	<2	N	N	70	<20	700	50	150	N	10	3,000
K4540C	<2	N	N	100	70	70	200	20	<50	150	300
K4541C	7	N	N	N	200	10	100	<10	N	10	N
K4542C	N	N	N	100	500	30	N	N	N	100	N
K4543C	2	N	N	<10	<20	50	<50	N	N	N	N
K4544C	<2	N	N	<10	<20	30	N	N	N	N	<20
K4545C	N	N	N	10	<20	200	500	15	<50	N	N
K4546C	<2	300	50	10	100	70	<50	20	N	N	200
K4547C	N	200	70	70	<20	30	N	N	N	N	2,000
K4548C	<2	N	N	70	<20	20	<50	10	N	<10	200
K4549C	<2	N	N	<10	<20	100	N	500	N	N	500
K4550C	N	N	<50	<10	20	50	100	N	N	N	N
K4551C	N	N	<50	10	30	20	100	N	<50	N	N
K4553C	N	N	N	N	<20	20	200	N	N	N	<20
K4554C	N	N	N	10	<20	20	50	N	N	N	N
K4557C	N	N	N	N	<20	<10	200	N	N	N	N
K4558C	N	N	N	15	<20	70	<50	N	N	N	200
K4558CD	N	N	N	50	N	30	<50	N	N	<10	<20
K4559C	<2	N	N	N	N	70	<50	N	N	N	<20
K4560C	N	N	N	10	20	70	300	N	50	N	<20

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K4200C	N	<10	N	500	100	200	150	N	>2,000	N
K4201C	N	50	<20	1,000	500	N	200	N	>2,000	N
K4202C	N	20	N	<200	200	N	500	N	>2,000	N
K4500C	N	50	N	200	500	N	500	N	>2,000	N
K4501C	N	15	N	200	70	N	200	N	>2,000	N
K4502C	N	30	N	N	200	N	500	1,000	>2,000	N
K4503C	N	15	N	2,000	70	N	500	3,000	>2,000	N
K4504C	N	50	N	N	200	N	500	N	>2,000	N
K4505C	N	100	N	N	150	N	1,000	N	>2,000	N
K4506C	N	20	N	<200	100	N	500	N	>2,000	N
K4507C	N	10	N	N	100	N	500	N	>2,000	N
K4508C	N	50	N	1,500	200	N	500	N	>2,000	N
K4509C	N	50	N	200	500	N	300	N	>2,000	N
K4510C	N	15	N	500	200	N	200	N	>2,000	N
K4512C	N	50	N	N	200	N	200	N	>2,000	N
K4513C	N	30	<20	<200	300	1,500	500	N	>2,000	N
K4514C	N	50	N	500	500	N	700	N	>2,000	N
K4515C	N	20	N	200	150	N	500	N	2,000	N
K4516C	N	20	N	N	70	N	500	1,500	>2,000	N
K4517C	N	20	N	500	100	N	200	7,000	>2,000	N
K4518C	N	10	N	N	100	N	300	N	>2,000	<200
K4519C	N	10	N	500	50	N	150	N	>2,000	N
K4520C	N	20	N	N	100	N	200	N	>2,000	N
K4520CD	N	20	N	200	100	N	100	N	>2,000	N
K4521C	N	20	N	200	200	100	200	N	>2,000	N
K4522C	N	30	N	200	200	N	150	N	>2,000	N
K4524C	N	N	N	N	70	N	50	N	1,500	N
K4525C	N	15	N	500	50	N	20	N	1,000	N
K4526C	N	20	N	N	100	N	200	N	>2,000	N
K4527C	N	N	N	N	200	N	50	700	1,000	N
K4528C	N	10	N	N	100	<100	150	N	>2,000	N
K4529C	N	30	N	N	100	N	70	N	>2,000	N
K4530C	N	N	N	N	70	N	30	1,500	500	N
K4531C	N	20	<20	N	100	N	500	N	>2,000	N
K4532C	N	50	N	N	150	N	500	N	>2,000	N
K4533C	N	30	<20	N	300	N	700	N	>2,000	N
K4535C	N	30	N	<200	150	N	500	N	>2,000	N
K4536C	N	<10	N	1,000	50	N	100	N	>2,000	N
K4537C	N	N	N	<200	200	N	70	2,000	2,000	N
K4538C	N	20	<20	N	200	N	200	N	>2,000	N
K4539C	N	10	N	N	100	N	200	5,000	>2,000	N
K4540C	N	50	N	1,000	200	N	500	N	>2,000	N
K4541C	N	20	N	N	100	N	100	N	>2,000	N
K4542C	N	50	N	N	1,000	N	50	500	700	N
K4543C	N	N	N	200	50	N	20	N	>2,000	N
K4544C	N	N	N	300	70	<100	50	N	>2,000	N
K4545C	N	<10	50	<200	500	500	700	N	>2,000	<200
K4546C	N	100	N	N	300	100	500	N	>2,000	N
K4547C	N	50	N	1,000	70	N	200	2,000	>2,000	N
K4548C	N	20	N	N	200	N	200	N	>2,000	N
K4549C	N	N	N	N	70	100	100	2,000	>2,000	N
K4550C	N	20	N	500	200	N	500	N	>2,000	N
K4551C	N	15	30	<200	200	N	200	N	>2,000	N
K4553C	N	20	N	N	100	N	500	N	>2,000	N
K4554C	N	N	N	N	100	200	100	N	>2,000	N
K4557C	N	50	N	200	50	N	500	N	>2,000	N
K4558C	N	20	N	200	100	N	300	500	>2,000	N
K4558CD	N	20	N	5,000	20	N	200	<500	>2,000	N
K4559C	N	<10	N	N	100	N	150	N	>2,000	N
K4560C	N	20	20	N	200	N	700	N	>2,000	N

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
K4561C	58 59 27	153 54 0	.20	5.00	7.0	2.00	1,000	N	N	N	1,000	1,000
K4562C	58 44 35	153 58 42	<.05	1.50	2.0	.30	200	200.0	1,500	1,000	700	>10,000
K4563C	58 44 8	153 52 41	1.00	2.00	.7	.10	300	N	N	N	100	1,000
K4564C	58 44 41	153 57 19	<.05	1.50	3.0	.50	300	N	N	<20	3,000	>10,000
K4566C	58 51 0	153 59 5	1.00	5.00	1.0	.30	1,000	N	N	N	<20	>10,000
K4567C	58 48 2	154 6 9	.05	5.00	.7	.10	1,000	N	N	N	1,000	5,000
K4572C	58 41 29	154 23 47	.05	1.00	20.0	.10	300	N	500	N	20	3,000
K4573C	58 57 36	154 45 55	.05	2.00	.5	.10	300	N	N	<20	100	7,000
K4574C	58 56 32	154 45 50	.20	1.00	10.0	>2.00	200	N	N	N	200	>10,000
K4575C	58 39 45	154 17 44	.10	2.00	.7	1.00	700	N	N	N	2,000	5,000
K4579C	58 46 57	154 29 7	.05	2.00	3.0	>2.00	500	5.0	N	N	2,000	500
K4579CD	58 46 57	154 29 7	.15	2.00	5.0	>2.00	500	N	N	N	1,000	200
K4580C	58 47 55	154 25 52	<.05	3.00	.5	1.00	500	N	N	N	1,000	200
K4581C	58 50 6	154 32 27	<.05	1.00	<.1	.50	200	N	N	N	50	100
K4582C	58 52 25	154 22 59	.20	2.00	2.0	2.00	1,000	N	N	N	150	500
K4583C	58 55 30	154 18 50	.20	2.00	1.0	1.50	1,000	N	N	N	50	300
K4585C	58 57 35	154 13 35	.20	2.00	1.0	>2.00	1,000	N	N	20	100	300
K4586C	58 58 35	154 17 17	.20	3.00	1.5	>2.00	500	N	N	N	50	300
K4587C	58 55 52	154 17 25	.20	3.00	.7	>2.00	1,000	N	N	N	50	200
K4588C	58 57 22	154 27 47	1.00	3.00	5.0	>2.00	1,000	N	N	N	2,000	2,000
K4589C	58 53 42	154 37 28	.10	1.50	.7	.70	200	N	N	N	50	500
K4590C	58 53 32	154 37 56	.15	2.00	.5	1.50	300	N	N	N	50	200
K4591C	58 59 37	155 1 42	.30	2.00	3.0	>2.00	500	N	N	N	5,000	>10,000
K4592C	58 55 28	154 56 10	.15	2.00	10.0	>2.00	300	N	N	N	1,500	300
K4593C	58 56 45	154 39 50	.50	3.00	7.0	>2.00	1,000	N	N	N	200	700
K4594C	58 56 48	154 39 59	<.05	1.00	2.0	1.00	200	N	N	N	20	100
K4595C	58 57 28	154 39 47	.70	2.00	1.0	>2.00	1,000	N	N	N	200	1,000
K4596C	58 53 22	154 39 14	.20	2.00	.7	2.00	300	N	N	N	1,000	700
K4596CD	58 53 22	154 39 14	.20	3.00	1.0	>2.00	500	N	N	N	1,500	200
K4599C	58 59 59	154 56 27	.15	1.00	.2	1.00	300	N	N	N	2,000	70
K4600C	58 53 3	154 56 33	.50	3.00	1.0	>2.00	1,000	N	N	N	100	500

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
K4561C	N	N	<50	20	20	100	100	<10	N	50	<20
K4562C	N	N	N	50	<20	10	N	50	N	N	500
K4563C	<2	N	N	<10	<20	15	N	N	N	N	N
K4564C	N	N	N	<10	<20	20	<50	N	N	N	N
K4566C	N	N	N	<10	<20	<10	300	N	N	N	N
K4567C	N	N	N	N	<20	<10	300	N	N	N	<20
K4572C	N	N	N	70	<20	50	N	N	N	100	20
K4573C	N	N	N	N	20	50	200	N	N	N	20
K4574C	N	N	N	70	300	100	N	N	N	100	<20
K4575C	N	N	N	N	N	10	100	N	N	N	N
K4579C	<2	N	N	20	<20	20	150	10	<50	N	N
K4579CD	<2	N	N	100	<20	200	200	50	<50	50	20
K4580C	N	N	N	N	<20	<10	100	N	N	N	N
K4581C	<2	N	N	N	<20	<10	50	N	N	N	N
K4582C	<2	N	N	50	<20	20	50	N	N	N	200
K4583C	<2	N	N	<10	<20	15	<50	N	N	N	<20
K4585C	<2	N	N	<10	20	10	N	N	N	N	<20
K4586C	<2	30	N	<10	50	50	<50	10	<50	N	N
K4587C	N	N	N	<10	20	10	50	N	N	N	<20
K4588C	N	N	N	20	20	50	150	N	<50	N	20
K4589C	N	<20	N	<10	<20	<10	50	10	N	N	20
K4590C	N	20	N	N	<20	20	100	N	N	N	N
K4591C	N	N	N	20	100	70	N	100	N	<10	70
K4592C	<2	N	N	100	20	200	200	N	N	15	N
K4593C	<2	N	N	70	<20	30	N	N	N	20	30
K4594C	N	N	N	50	N	20	<50	N	N	N	N
K4595C	<2	N	N	10	100	50	100	N	N	N	50
K4596C	<2	N	N	10	20	200	100	100	N	N	100
K4596CD	N	500	N	50	100	200	200	500	N	N	1,000
K4599C	N	N	N	N	<20	10	N	N	N	N	N
K4600C	N	N	N	15	<20	20	150	10	N	N	50

Table 3. Analyses of heavy-mineral-concentrate samples from the Mt. Katmai study area, Alaska--(cont.)

Sample	Sb-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
K4561C	N	10	N	N	200	N	200	N	>2,000	N
K4562C	N	N	N	5,000	70	N	100	1,500	>2,000	N
K4563C	N	N	N	500	20	N	50	N	>2,000	N
K4564C	N	<10	N	5,000	50	N	150	10,000	>2,000	N
K4566C	N	10	N	2,000	70	N	200	N	>2,000	N
K4567C	N	50	N	1,500	50	N	700	N	>2,000	N
K4572C	N	N	N	<200	50	N	70	N	>2,000	N
K4573C	N	50	N	200	100	100	700	N	>2,000	N
K4574C	N	50	N	1,000	1,000	N	150	N	>2,000	N
K4575C	N	100	N	N	150	N	1,000	N	>2,000	N
K4579C	N	30	N	<200	200	N	200	N	>2,000	N
K4579CD	N	50	N	N	200	N	1,000	N	>2,000	N
K4580C	N	20	N	N	100	N	300	N	>2,000	N
K4581C	N	N	N	N	50	N	100	N	>2,000	N
K4582C	N	20	N	1,000	200	N	300	N	>2,000	N
K4583C	N	30	N	500	100	N	200	2,000	>2,000	N
K4585C	N	10	N	500	100	N	150	N	>2,000	N
K4586C	N	30	N	700	200	N	200	N	>2,000	N
K4587C	N	20	N	500	200	N	300	N	>2,000	N
K4588C	N	50	N	500	500	N	200	N	>2,000	N
K4589C	N	10	N	<200	50	200	200	N	>2,000	N
K4590C	N	20	N	N	100	N	500	N	>2,000	N
K4591C	N	30	<20	1,000	300	N	200	N	>2,000	N
K4592C	N	20	N	300	150	<100	200	700	>2,000	N
K4593C	N	20	N	N	200	N	200	1,000	>2,000	N
K4594C	N	70	N	N	100	N	1,000	N	>2,000	N
K4595C	N	70	<20	N	500	N	500	N	>2,000	N
K4596C	N	15	N	500	100	100	200	N	>2,000	<200
K4596CD	N	50	20	N	100	<100	1,000	N	>2,000	200
K4599C	N	<10	N	N	100	N	150	N	>2,000	N
K4600C	N	10	<20	300	200	N	500	N	>2,000	N