UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical data and sample locality map for aqua-regia leachates of stream sediments analyzed by ICP from the Mt. Katmai quadrangle, and portions of the Naknek, Afognak, and Iliamna quadrangles, Alaska

By

Olga Erlich, J. M. Motooka, George VanTrump Jr.,

and S. E. Church,

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STUDIES RELATED TO AMRAP

The U.S. Geological Survey, is required by the Alaska National Interests Lands Conservation Act (Public Law 96-487, 1980), to survey certain Federal lands to determine their mineral values. Results from the Alaska Mineral Resource Assessment Program (AMRAP) must be made available to the public and be submitted to the President and Congress. This report is one in a series of publications that presents geochemical and mineralogical data determined during the mineral assessment study of the Mt. Katmai quadrangle, and portions of the Naknek, Afognak, and Iliamna quadrangles, Alaska.. The analytical results of aqua-regia leachate studies for the stream sediments collected during the study are presented in this report.

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). This area will be referred to as the Mt. Katmai study area hereafter in this report. The study area comprises approximately 10,000 mi^2 (26,000 km^2) on the northern part of the Alaska Peninsula. The towns of Naknek and King Salmon lie in the western part of the study area. The study area encompasses much of the Katmai National Park and Preserve, part of the Becharof National Wildlife Refuge, and part of the McNeil State Game Preserve. Very few roads exist throughout the quadrangles and access to much of the area is limited to travel by air, boat, or foot.

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 by the ash flow from the Mt. Katmai eruption of 1912 (Fenner, 1920), has been deeply incised. The drainages within the Valley of Ten Thousand Smokes were not sampled. The climate is very wet; rainfall exceeds 200 in. per year.

GENERAL GEOLOGY

Marine sedimentary rocks of the Mt. Katmai study area range in age from Jurassic through early Tertiary. Igneous rocks of Jurassic age formed an early batholithic complex that was the

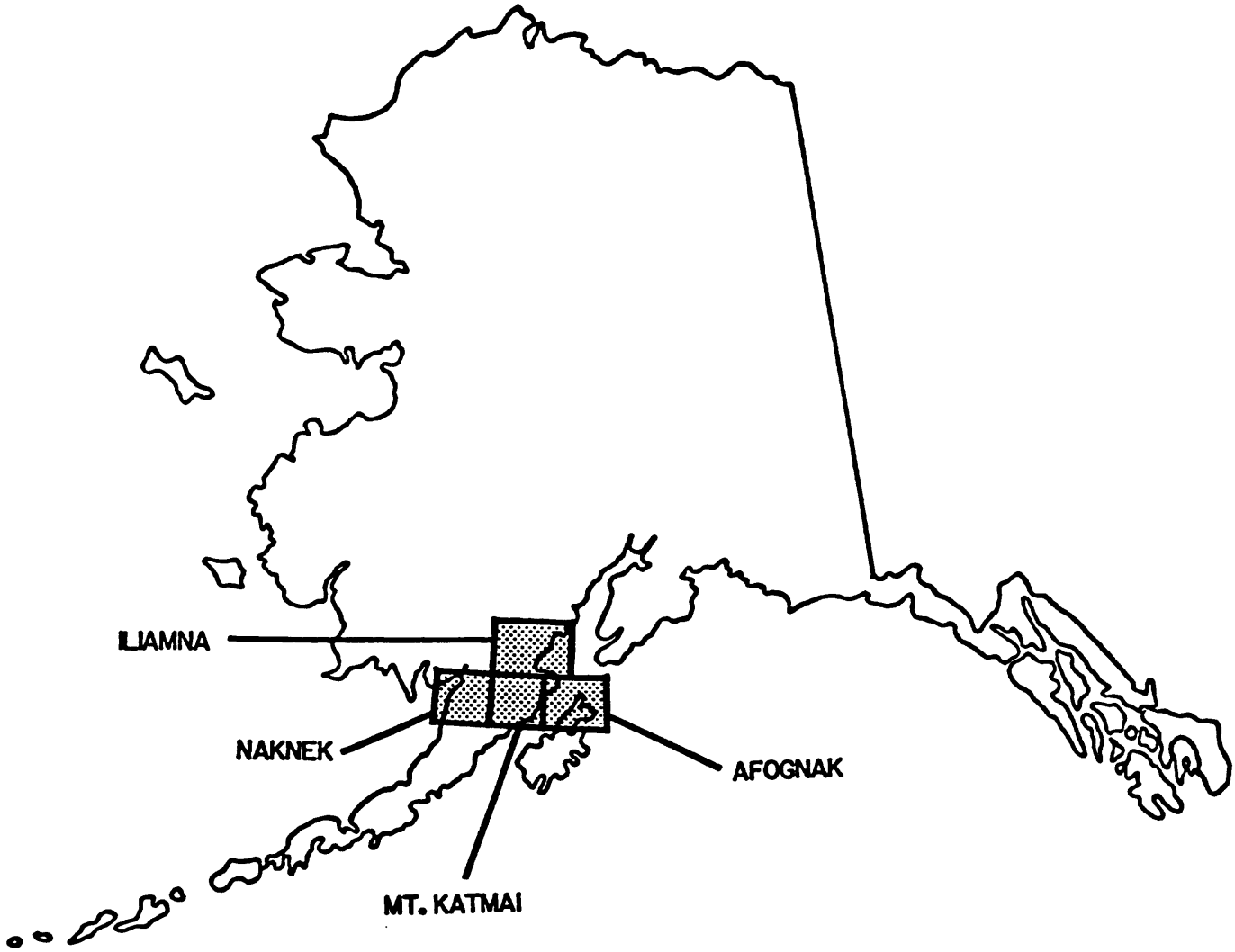

Figure 1. Index map of the Mt. Katmai study area, Alaska.

source for the extensive Naknek formation in the late Jurassic. The Kaguyak Formation of late Cretaceous age overlies the Naknekand 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; Riehle and others, 1987). Basaltic to andesitic volcanic rocks of Quaternary age 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

Geochemical results presented in this report are from stream sediment samples that were collected from active channels of perennial first-order (unbranched) streams and second-order (below the junction of two first-order) streams, as determined from topographic maps (scale 1:63,360). The area of the drainage basins sampled ranged from 2 mi^2 (5 km^2) to about 10 mi^2 (26 km^2). Sampling density was about 1 sample site per 5 mi^2 (13 km^2) for the stream sediments. Areas covered by glacial material were not sampled. Both a heavy-mineral panned concentrate and a stream-sediment sample were collected from as many sites as possible. However, the results presented in this paper are only those of the stream sediments. The 1198 sample localities are shown on plate 1.

Sample Collection

The stream sediment samples collected in the Mt. Katmai study area (Bailey and others, 1986) were used in this study. The samples were wet-sieved on site to minus 2.0 mm (10-mesh) using a stainless steel sieve and a 14-inch gold pan. Composite samples within individual streams were collected whenever possible. At all sites, a representative portion of the sediment was taken directly from the gold pan and saved as the stream sediment sample. Duplicate samples were collected periodically and are designated with a D or R1 and R2 suffixes on sample numbers in the data table. The samples were air-dried in the field and then shipped to the laboratory for analysis.

Sample Preparation

In the laboratory, the stream sediment samples were sieved using an 80-mesh (0.17 mm) stainless steel sieve. The portion of the sediment that passed through the sieve was saved. This minus-80-mesh sediment was then ground to approximately minus-100-mesh (0.15 mm) and used for chemical analysis.

Sample Analysis

One gram of prepared stream sediment sample was weighed into a 50 mL beaker for digestion. Sample weights were determined to a precision of ±2 percent. The sample was first wetted with a small amount of 10 percent HCl (v/v) to react any carbonate minerals present. Following the completion of this reaction, 15 mL of aqua regia (1:3; HNO_3:HCl) was added to each sample. Initial oxidation of the nonsilicate phases present in the sample usually occurred as an immediate, vigorous reaction. When necessary, this reaction was contained by quenching with distilled water from a squirt bottle. The samples were then placed on a hot plate that was heated to a constant temperature of approximately 80°C. The oxidation reaction was usually complete after the samples had been gently heated for approximately ten minutes. The low temperature of the hot plate is necessary to prevent spattering of the samples during the evaporation process. The solution was then taken slowly to dryness. Several mL of 20-percent HCl (v/v) were added to the sample residue and the sample was gently heated. Sample solutions were then filtered through Whatman no. 41 filter paper that had been previously wetted with 10 percent HCL (v/v) and the samples were diluted to constant final volume, usually 10 mL. These sample solutions were aspirated directly into the plasma for analysis.

The Inductively Coupled Plasma (ICP) instrumentation used is commercially available from Applied Research Laboratories. Two instruments were used, the earlier measurements were made on the ICPQ model and the later measurements on a model 34000 ICP. The two instruments have very similar spectral arrays, but the 34000 also had the capability of measuring some of the alkali elements (sodium, potassium, and lithium), and zirconium.

Corrections for spectral interferences and determination of qualifiers designating lower limits of determination and trace concentrations were determined using the procedures described by Church (1981) and Church and others (1983). Because the chemistry of each sample is different and analytical results from ICP utilize a fixed spectral array, the effect of spectral interferences on each element in each sample must be evaluated. This requires that the lower limit of determination for the elements in each sample be verified. The lower limit of determination (N) will also vary because dilutions of the solutions analyzed may be required during analysis. This condition occurs when the sample must be diluted, usually so that the calcium or iron concentrations in the solution analyzed would be within the calibration range of the instrument, so that corrections for possible spectral interferences could be applied. In table 1, we report the minimum determinant concentration for each element in ppm in column 2. We have summarized, in column 3

of table 1, the recommended value of N to be used for each element in table 2 along with the number of samples to which this value applies. In column 4 of table 1, we list the number of samples which have higher values of N in table 2. Values of N that are higher than the recommended N are indicated in table 2 in parentheses, for example N(0.8). We suggest that the values for N assigned in table 1 be used for this data set if a single lower limit (N) is needed. Qualified values (<, trace concentrations) indicate that less than half, but more than one tenth of the total signal measured by the ICP remained after correction for spectral interferences (Church and others, 1983). Analytical results for 1263 samples reported in table 2 are expressed in parts per million and all values are rounded to two significant figures. The major elements are listed first, followed by the minor and trace elements listed by group as shown on the periodic chart of the elements.

Previous studies of stream-sediment leachates analyzed by ICP have shown that the aqua-regia leach procedure can be effectively applied in regional geochemical exploration. Replicate analysis of geochemical exploration standards (USGS, GXR series; Allcott and Lakin, 1974) using ICP analysis of aqua-regia leachates has indicated an analytical precision of approximately 10 percent (Church and others, 1983). They also demonstrated that recoveries for the ore-related metals are greater than 85 percent. Church (1978) evaluated different digestion procedures for use in exploration geochemistry and showed that the aqua-regia leach was the most effective in releasing metals bound in many nonsilicate phases. Further studies (Church and others, 1987) demonstrated that the aqua-regia leach technique resulted in almost complete recovery of elements bound in the hydromorphic oxide phases. They also demonstrated that the application of the aqua-regia leach procedure resulted in high recoveries (generally greater than 90 percent) of metals bound in many carbonate, sulfide, and crystalline iron- and manganese-oxide minerals. These observations were verified by studies of hand-picked mineral separates (purity generally 90-99 percent). In contrast, the effect of leaching rock samples that contain largely silicate phases (standard silicate rocks were used) indicate that much lower total concentrations of transition metals were released from the silicate phases. The aqua-regia leach procedure can therefore be used to enhance the contrast between mineralization and lithologic background in regional geochemical exploration studies (Church and others, 1983; 1987).

ROCK ANALYSIS STORAGE SYSTEM

These analytical results were entered into a computer-based file called Rock Analysis Storage System (RASS). This data base contains both descriptive geological information and the

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).

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Table 1. Minimum determinate values and recommended values of N for aqua-regia leachate data from minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska

[All concentrations in parts per million, -- no values]

Element	Minimum Determinate Value (ppm)	Recommended value of N (no. of N values)	No. of samples having a higher value for N
Na	150	--	--
K	56	--	--
Mg	23	--	--
Ca	13	--	--
Fe	170	--	--
Al	39	--	--
Ti	2.9	2.0 (56)	--
P	15	4.0 (63)	3
Li	.21	.20 (1)	--
B	27	.40 (1215)	--
Be	.017	.015 (1083)	5
Sr	.53	.20 (54)	--
Ba	.025	--	--
La	.90	.90 (21)	--
Ce	.90	.90 (407)	4
Y	.044	.04 (704)	5
Zr	.91	.90 (55)	--
Nb	1.4	1.0 (904)	--
Mn	2.0	--	--
V	.77	.75 (54)	--
Cr	3.6	1.2 (2)	8
Co	2.0	2.0 (22)	1
Ni	1.1	1.0 (57)	--
Cu	.21	.20 (12)	2
Zn	.34	.34 (24)	--
Cd	.37	.40 (1224)	5
Pb	3.6	3.5 (776)	9
Ag	.35	.30 (1252)	5
Mo	.41	.40 (1062)	5
W	9.2	5.0 (1211)	6
Sn	6.0	2.0 (1251)	5
As	5.0	5.0 (1070)	27
Sb	14	5.0 (1202)	3
Bi	16	16.0 (1256)	4

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska
[N, not detected; <, detected but below the limit of determination shown.]

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K0001S	58 30 47	153 58 59	--	--	2,800	3,500	31,000	7,100	760	230	--	N
K0002S	58 29 36	154 2 8	--	--	2,800	3,600	26,000	7,200	800	120	--	N
K0003S	58 32 4	154 5 47	--	--	3,700	5,900	19,000	11,000	880	260	--	N
K0004S	58 31 2	154 11 26	--	--	3,700	1,900	24,000	7,100	530	220	--	N
K0005S	58 31 54	154 7 55	--	--	4,200	5,500	16,000	9,600	560	220	--	N
K0005SR1	58 31 54	154 7 55	--	--	4,400	4,700	12,000	9,400	430	280	--	N
K0005SR2	58 31 54	154 7 55	--	--	4,200	4,500	10,000	8,200	400	230	--	N
K0006S	58 32 38	154 14 42	--	--	4,500	5,700	18,000	8,100	530	250	--	N
K0007S	58 32 37	154 14 53	--	--	3,600	4,800	17,000	7,400	610	200	--	N
K0008S	58 32 9	154 13 39	--	--	8,900	5,100	24,000	13,000	520	400	--	N
K0009S	58 31 54	154 13 55	--	--	9,500	4,400	26,000	11,000	700	190	--	N
K0010S	58 31 29	154 15 59	--	--	4,500	4,900	15,000	8,800	450	210	--	N
K0011S	58 31 9	154 17 26	--	--	4,400	4,100	21,000	8,500	650	260	--	N
K0012S	58 30 52	154 18 27	--	--	3,600	4,000	19,000	7,900	510	210	--	N
K0013S	58 30 46	154 18 30	--	--	2,300	5,000	17,000	9,900	630	150	--	N
K0014S	58 30 29	154 17 41	--	--	1,400	14,000	22,000	21,000	270	68	--	N
K0015S	58 30 50	154 16 10	--	--	3,000	9,200	28,000	16,000	850	150	--	N
K0015SR1	58 30 50	154 16 10	--	--	3,000	9,000	26,000	16,000	940	180	--	N
K0015SR2	58 30 50	154 16 10	--	--	3,000	9,000	25,000	16,000	920	170	--	N
K0016S	58 30 35	154 13 3	--	--	2,500	7,100	23,000	10,000	880	180	--	N
K0017S	58 17 26	154 19 40	--	--	1,800	3,300	110,000	6,400	3,100	130	--	N
K0018S	58 17 19	154 20 6	--	--	2,700	3,400	47,000	8,300	1,200	62	--	N
K0019S	58 17 7	154 21 8	--	--	3,500	3,600	36,000	6,900	1,300	130	--	N
K0020S	58 19 24	154 19 40	--	--	9,300	6,400	45,000	15,000	1,000	150	--	N
K0021S	58 19 57	154 22 16	--	--	4,700	5,400	42,000	9,200	1,100	160	--	N
K0022S	58 20 2	154 22 58	--	--	2,200	2,200	62,000	5,100	1,700	180	--	N
K0023S	58 1 13	154 50 47	--	--	1,800	8,300	9,400	8,700	98	100	--	N
K0024S	58 2 3	154 53 4	--	--	2,800	2,700	100,000	5,100	2,600	160	--	N
K0025S	58 5 38	154 52 55	--	--	2,200	2,600	67,000	3,800	2,200	120	--	N
K0025SR1	58 5 38	154 52 55	--	--	3,100	2,700	110,000	5,200	700	140	--	N
K0025SR2	58 5 38	154 52 55	320	110	3,600	2,800	160,000	4,300	N	N	.74	42
K0026S	58 3 34	154 53 26	--	--	3,000	2,600	76,000	5,300	2,400	130	--	N
K0027S	58 5 31	154 53 2	--	--	2,300	2,100	77,000	5,300	910	79	--	N
K0028S	58 7 57	154 52 23	--	--	2,300	2,600	90,000	4,700	620	69	--	N
K0030S	58 9 34	154 52 28	--	--	2,600	2,800	96,000	4,800	460	78	--	N
K0031S	58 8 8	154 53 12	--	--	2,100	2,800	73,000	4,900	2,700	170	--	N
K0032S	58 6 53	154 53 23	--	--	2,100	2,700	100,000	4,800	450	46	--	N
K0033S	58 5 35	154 55 11	--	--	3,100	2,400	100,000	5,800	1,700	120	--	N
K0034S	58 6 10	154 58 30	--	--	2,900	2,600	68,000	8,400	2,000	99	--	N
K0035S	58 12 22	154 41 28	--	--	2,700	3,400	70,000	5,900	2,500	150	--	N
K0035SR1	58 12 22	154 41 28	--	--	2,400	3,300	56,000	5,400	2,500	220	--	N
K0035SR2	58 12 22	154 41 28	--	--	2,500	3,400	57,000	5,400	2,500	220	--	N
K0036S	58 7 22	155 0 26	--	--	1,900	1,700	50,000	3,800	3,000	160	--	N
K0037S	58 12 18	154 41 34	--	--	3,100	3,300	64,000	5,200	1,900	190	--	N
K0038S	58 11 38	154 42 53	--	--	3,300	5,200	88,000	8,500	4,500	330	--	N
K0039S	58 11 26	154 43 18	370	130	1,800	2,400	58,000	3,300	3,000	N(50)	.62	53
K0040S	58 4 32	154 32 59	450	56	2,200	3,400	84,000	4,900	N	N	.67	N
K0041S	58 6 7	154 30 38	--	--	4,200	2,600	47,000	5,600	1,000	190	--	N
K0042S	58 6 44	154 32 45	390	150	3,400	2,900	59,000	6,800	N	N	2.4	N
K0043S	58 6 56	154 34 49	--	--	2,300	2,600	73,000	3,900	2,200	200	--	N
K0044S	58 6 54	154 36 36	--	--	2,000	2,200	74,000	4,400	1,800	110	--	N
K0045S	58 5 44	154 34 51	--	--	1,500	3,100	57,000	5,900	3,300	290	--	N
K0045SR1	58 5 44	154 34 51	--	--	1,700	3,200	57,000	5,600	2,300	230	--	N
K0045SR2	58 5 44	154 34 51	--	--	1,700	2,900	57,000	5,000	3,300	280	--	N
K0046S	58 9 8	154 35 27	--	--	4,900	3,300	51,000	7,500	1,700	110	--	N
K0047S	58 10 12	154 34 5	--	--	3,000	2,900	86,000	5,100	3,800	250	--	N
K0048S	58 10 36	154 34 32	--	--	2,100	2,000	51,000	4,300	1,500	83	--	N
K0049S	58 10 36	154 34 18	--	--	2,200	1,900	50,000	3,000	1,700	130	--	N
K0050S	58 10 40	154 36 24	--	--	3,400	3,000	120,000	4,600	3,300	260	--	N
K0051S	58 11 15	154 37 54	--	--	2,400	2,200	82,000	4,000	2,200	67	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K0001S	N	21	45	5.1	6.9	.41	--	N	360	81	22	7.3
K0002S	N	22	17	5.5	8.2	.32	--	N	310	64	19	5.8
K0003S	N	49	35	4.5	6.3	1.3	--	N	280	67	17	5.1
K0004S	N	11	39	2.3	2.5	.6	--	N	640	62	18	8.9
K0005S	N	33	21	3.8	5	1.3	--	N	260	43	18	3.9
K0005SR1	N	38	23	2.4	2.2	1.3	--	N	230	38	20	3.5
K0005SR2	N	33	19	3.1	4.4	1.9	--	N	210	32	17	4.1
K0006S	N	32	26	4.1	5.9	1.3	--	N	280	51	19	5.3
K0007S	N	26	21	4.1	6	.5	--	N	220	52	16	4.7
K0008S	N	25	17	2.8	2.8	.94	--	N	340	47	27	8.9
K0009S	N	19	12	3.6	4.2	1.5	--	N	420	45	35	9.5
K0010S	N	24	23	3	3.8	1	--	N	240	41	19	4.8
K0011S	N	27	26	2.9	3.3	.56	--	N	300	65	19	5.6
K0012S	N	22	24	3.5	4.8	.76	--	N	240	58	18	5.8
K0013S	N	26	25	2.2	2.2	.091	--	N	190	54	18	4
K0014S	N	57	12	1	N	N	--	N	190	43	26	5.8
K0015S	N	36	19	1.6	N	N	--	N	350	100	22	8.2
K0015SR1	N	39	21	1.8	N	N	--	N	340	100	30	11
K0015SR2	N	38	19	1.9	N	N	--	N	330	99	30	12
K0016S	N	39	58	2.2	2.6	N	--	N	310	72	17	5.9
K0017S	N	15	9.6	2.2	N	N	--	N	560	200	<28	17
K0018S	N	17	12	2.1	N	N	--	N	320	160	<28	9.7
K0019S	N	18	12	2.3	2	N	--	N	340	120	23	9.7
K0020S	N	42	18	2.1	N	N	--	N	380	92	35	12
K0021S	N	27	26	2.9	2.6	N	--	N	350	140	30	12
K0022S	N	9.4	14	2	N	N	--	N	270	180	57	7.9
K0023S	N	45	3.8	2.6	3.4	2	--	N	200	20	8.6	2.4
K0024S	N	11	12	2.2	N	N	--	N	510	170	<27	19
K0025S	N	12	14	1.7	N	N	--	N	370	150	<21	14
K0025SR1	N	11	13	2.5	N	N	--	N	810	52	89	43
K0025SR2	N	N	13	N	N	5.6	4.8	N	1,100	N	47	32
K0026S	N	14	30	2.2	N	N	--	N	450	150	<23	16
K0027S	N	12	44	2.2	N	N	--	N	460	85	<25	13
K0028S	N	12	6.4	1.5	N	N	--	N	450	75	<25	15
K0030S	N	12	6.9	1.4	N	N	--	N	480	49	<27	15
K0031S	N	13	8.3	1.6	N	N	--	N	390	170	<22	16
K0032S	N	12	6.8	1.5	N	N	--	N	470	69	<24	15
K0033S	N	11	20	2.5	N	N	--	N	520	120	<21	20
K0034S	N	14	30	2.3	N	N	--	N	390	200	<29	12
K0035S	N	26	13	2.3	N	N	--	N	380	190	<24	13
K0035SR1	N	24	10	2.2	.96	N	--	N	420	140	37	19
K0035SR2	N	24	9.4	2.3	1.2	N	--	N	430	130	37	20
K0036S	N	8.2	9.3	1.3	N	N	--	N	310	170	<21	13
K0037S	.47	17	6.9	2.2	N	N	--	N	500	110	<17	19
K0038S	N	26	7.4	2.5	N	N	--	N	430	200	<27	18
K0039S	N	12	9.4	N	N	3.2	1.7	N	370	210	17	10
K0040S	1.3	N	9.1	.9	N	4.9	2.4	N	430	N	26	15
K0041S	N	21	78	2.3	1.4	N	--	N	360	130	<28	11
K0042S	.93	N	12	1	N	4	2.1	N	380	N	24	13
K0043S	.13	13	5.5	1.7	N	N	--	N	450	130	<17	19
K0044S	N	11	13	1.7	N	N	--	N	360	120	<25	14
K0045S	.8	19	7.9	1.8	N	N	--	N	290	170	<17	12
K0045SR1	N	18	9.2	1.8	N	N	--	N	360	140	41	17
K0045SR2	N	16	8.7	2	N	N	--	N	370	170	<34	19
K0046S	N	19	8.5	1.8	N	N	--	N	330	140	<25	12
K0047S	N	15	7.8	2.3	N	N	--	N	470	160	<20	19
K0048S	N	9.2	6.8	1.5	N	N	--	N	280	150	<21	8.9
K0049S	1.4	7.5	1.8	1.3	N	N	--	N	370	110	<15	15
K0050S	N	13	5	2.5	N	N	--	N	740	100	<26	30
K0051S	N	9.4	3.7	1.5	N	N	--	N	460	210	<23	17

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K0001S	8.3	12	41	N	<4.1	N	N	N	N	N	N	N
K0002S	5	7.8	35	N	<4.6	N	N	N	N	N	N	N
K0003S	5	12	31	N	<6.3	N	N	N	N	N	N	N
K0004S	6.7	22	160	N	22	N	N	N	N	N(8.5)	N	N
K0005S	6.7	9.3	25	N	<5	N	N	N	N	N	N	N
K0005SR1	6.4	12	24	N	<5.3	N	N	N	N	N	N	N
K0005SR2	5.9	9.6	21	N	6.6	N	N	N	N	N	N	N
K0006S	6.1	8.6	25	N	8.6	N	N	N	N	<11	<5	N
K0007S	5.4	6.6	26	N	5.9	N	N	N	N	N	N	N
K0008S	14	24	59	N	<8.3	N	N	N	N	N	N	N
K0009S	14	23	60	N	10	N	N	N	N	N	N	N
K0010S	7.8	9.1	26	N	5.7	N	N	N	N	N	N	N
K0011S	6.7	8.4	36	N	6.3	N	N	N	N	N	N	N
K0012S	5.7	7.2	27	N	<5.2	N	N	N	N	N	N	N
K0013S	4.7	9.3	21	N	<5.6	N	N	N	N	N	N	N
K0014S	4.1	11	21	N	<8.3	N	N	N	N	N	N	N
K0015S	4.9	17	43	N	11	N	N	N	N	N	N	N
K0015SR1	5.9	19	52	N	15	N	.45	N	N	N	N	N
K0015SR2	5.6	17	47	N	15	N	.48	N	N	N	N	N
K0016S	4.9	6.7	36	N	9.2	N	N	N	N	N(5.4)	<4.7	N
K0017S	4.7	N	85	N	N	N	N	N	N	N	N	N
K0018S	7.9	8.6	48	N	<3.3	N	N	N	N	N	N	N
K0019S	9.6	10	44	N	7.4	N	N	N	N	N	N	N
K0020S	16	12	48	N	<5.7	N	N	N	N	N	N	N
K0021S	13	14	50	N	<6.3	N	N	N	N	N	N	N
K0022S	9.6	7.1	46	N	<3	N	N	N	N	N	N	N
K0023S	4.3	9.4	17	N	5.9	N	N	N	N	N	N	N
K0024S	7.4	2.2	85	N	N	N	N	N	N	N	N	N
K0025S	6.9	6.1	68	N	N	N	N	N	N	N	N	N
K0025SR1	12	9	140	N	<7.9	N	N	N	N	N	N	N
K0025SR2	N	20	170	N	N	N	N	N	N	6.1	N	N
K0026S	8.5	5.8	75	N	N	N	N	N	N	N	N	N
K0027S	11	9.3	80	N	<4	N	N	N	N	N	N	N
K0028S	6.5	4.6	80	N	N	N	N	N	N	N	N	N
K0030S	6	1.6	88	N	N	N	N	N	N	N	N	N
K0031S	5.6	5.9	69	N	N	N	N	N	N	N	N	N
K0032S	5.7	5.1	83	N	N	N	N	N	N	N	N	N
K0033S	9.1	5.4	88	N	N	N	N	N	N	N	N	N
K0034S	14	11	64	N	N	N	N	N	N	N	N	N
K0035S	6.7	6.4	62	N	N	N	N	N	N	N	N	N
K0035SR1	9.3	9.6	75	N	<3.6	N	N	N	N	N	N	N
K0035SR2	7.5	6.9	74	N	<3.6	N	N	N	N	N	N	N
K0036S	6.1	4.3	60	N	N	N	N	N	N	N	N	N
K0037S	11	7.6	93	N	N	N	N	N	N	N	N	N
K0038S	9.8	5.3	74	N	N	N	N	N	N	N	N	N
K0039S	7.3	8.2	51	N	N	N	N	N	N	N	N	N
K0040S	N	18	95	N	N	N	N	N	N	6.6	N	N
K0041S	18	14	53	N	<4	N	N	N	N	N	N	N
K0042S	N	15	76	N	N	N	N	N	N	6.1	N	N
K0043S	7.4	7	87	N	N	N	N	N	N	N	N	N
K0044S	6.8	7.2	68	N	<5.1	N	N	N	N	N	N	N
K0045S	4.2	6.6	52	N	<3.5	N	N	N	N	N	N	N
K0045SR1	5.5	8.7	64	N	<3.7	N	N	N	N	N	N	N
K0045SR2	6.5	9.5	66	N	<3.5	N	N	N	N	N	N	N
K0046S	12	12	53	N	<4.2	N	N	N	N	N	N	N
K0047S	8.2	8.4	84	N	N	N	N	N	N	N	N	N
K0048S	4.8	5.6	51	N	<2.8	N	N	N	N	N	N	N
K0049S	7.1	16	84	N	<4	N	N	N	N	N	N	N
K0050S	9.3	5.4	130	N	N	N	N	N	N	N	N	N
K0051S	7.6	3.4	82	N	N	N	N	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K0052S	58 6 18	154 36 19	--	--	2,900	2,600	190,000	5,300	2,800	240	--	N
K0053S	58 0 27	154 47 9	280	140	1,900	2,200	80,000	3,700	4,700	<150	1.9	47
K0054S	58 2 12	154 46 47	--	--	2,900	2,400	71,000	5,800	3,600	190	--	N
K0055S	58 2 16	154 46 42	--	--	2,900	3,100	60,000	6,200	2,600	250	--	N
K0055SR1	58 2 16	154 46 42	--	--	3,400	2,300	66,000	6,500	1,300	150	--	N
K0055SR2	58 2 16	154 46 42	--	--	3,700	2,400	73,000	6,900	790	140	--	N
K0056S	58 0 55	154 44 12	--	--	3,900	2,400	120,000	8,000	3,200	230	--	N
K0057S	58 1 2	154 44 1	--	--	3,800	3,000	90,000	12,000	7,200	400	--	N
K0058S	58 2 14	154 43 44	--	--	3,500	2,300	190,000	4,100	1,600	200	--	N
K0059S	58 4 48	154 43 12	--	--	2,500	2,200	67,000	3,800	850	120	--	N
K0060S	58 4 50	154 42 1	--	--	2,800	1,900	130,000	3,800	810	100	--	N
K0061S	58 7 6	154 27 21	--	--	2,600	2,700	99,000	4,100	1,600	180	--	N
K0062S	58 7 32	154 27 39	420	140	2,200	2,400	88,000	3,600	N	N	1	45
K0063S	58 9 45	154 28 1	--	--	2,500	2,000	45,000	4,200	3,100	180	--	N
K0064S	58 10 55	154 29 2	--	--	2,800	2,400	45,000	6,000	1,800	240	--	N
K0065S	58 12 55	154 35 10	--	--	3,300	3,100	100,000	5,300	1,400	180	--	N
K0065SR1	58 12 55	154 35 10	--	--	2,700	4,000	53,000	8,000	4,800	360	--	N
K0065SR2	58 12 55	154 35 10	--	--	2,600	3,600	47,000	6,900	1,600	190	--	N
K0066S	58 13 0	154 35 5	340	140	2,000	2,300	72,000	3,200	3,400	N	N	55
K0067S	58 8 33	154 38 29	--	--	3,400	2,900	150,000	5,500	760	100	--	N
K0068S	58 9 40	154 36 27	--	--	4,100	3,300	100,000	7,500	1,900	190	--	N
K0069S	58 11 21	154 38 39	--	--	4,500	3,300	61,000	7,300	2,200	170	--	N
K0070S	58 10 27	154 42 8	--	--	3,000	2,800	100,000	4,200	690	180	--	N
K0071S	58 10 28	154 41 54	--	--	4,100	3,900	54,000	6,400	2,600	210	--	N
K0072S	58 9 41	154 41 57	--	--	3,600	3,300	83,000	7,100	2,600	240	--	N
K0073S	58 9 37	154 41 40	--	--	3,100	3,800	75,000	5,900	2,400	140	--	N
K0074S	58 6 7	154 43 58	--	--	2,500	2,700	85,000	4,300	2,300	220	--	N
K0075S	58 5 55	154 43 57	--	--	2,800	2,200	57,000	6,300	790	130	--	N
K0075SR1	58 5 55	154 43 57	--	--	3,100	3,000	81,000	6,700	1,700	190	--	N
K0075SR2	58 5 55	154 43 57	--	--	2,900	2,700	62,000	5,400	2,700	240	--	N
K0076S	58 6 49	154 42 35	--	--	2,300	2,400	57,000	4,500	540	94	--	N
K0077S	58 7 39	154 42 31	--	--	2,500	2,500	100,000	4,100	410	110	--	N
K0079S	58 11 42	154 29 44	--	--	1,500	1,300	44,000	2,500	710	98	--	N
K0081S	58 11 42	154 24 21	--	--	3,500	2,200	81,000	6,200	920	130	--	N
K0082S	58 12 6	154 24 40	--	--	1,800	2,000	96,000	3,400	410	99	--	N
K0083S	58 10 16	154 25 51	--	--	1,800	2,300	52,000	4,700	1,500	130	--	N
K0084S	58 8 37	154 25 26	--	--	2,600	2,500	73,000	4,000	530	99	--	N
K0085S	58 8 25	154 59 29	--	--	2,200	3,100	76,000	5,800	2,900	210	--	N
K0085SR1	58 8 25	154 59 29	--	--	2,100	3,100	50,000	6,100	2,600	230	--	N
K0085SR2	58 8 25	154 59 29	--	--	2,000	2,700	46,000	5,200	2,700	180	--	N
K0086S	58 5 56	154 20 39	--	--	3,700	3,300	43,000	12,000	830	230	--	N
K0087S	58 10 16	154 58 30	--	--	2,100	1,800	120,000	3,900	370	92	--	N
K0088S	58 11 43	154 59 40	--	--	1,300	2,900	28,000	9,400	820	85	--	N
K0089S	58 11 44	154 59 27	--	--	1,400	3,400	37,000	6,600	2,400	120	--	N
K0090S	58 10 58	155 1 0	--	--	910	1,500	20,000	2,300	1,100	97	--	N
K0091S	58 10 35	155 2 23	--	--	1,500	2,400	41,000	4,400	490	86	--	N
K0092S	58 9 18	155 3 5	--	--	4,300	3,700	55,000	9,900	1,100	98	--	N
K0093S	58 2 30	154 38 43	--	--	2,500	2,500	72,000	5,100	440	110	--	N
K0095S	58 6 2	155 17 8	--	--	3,400	4,300	37,000	8,200	750	93	--	N
K0095SR1	58 6 2	155 17 8	--	--	3,900	4,200	26,000	8,700	1,300	220	--	N
K0095SR2	58 6 2	155 17 8	--	--	3,700	3,800	25,000	7,800	1,200	240	--	N
K0096S	58 4 13	154 39 20	--	--	1,800	2,100	85,000	3,700	630	130	--	N
K0097S	58 2 28	154 33 23	--	--	2,100	2,500	75,000	3,900	650	120	--	N
K0098S	58 6 9	155 17 6	--	--	3,000	2,400	39,000	6,800	1,200	250	--	N
K0099S	58 1 34	155 13 27	--	--	4,400	4,300	22,000	11,000	470	260	--	N
K0101S	58 11 54	154 41 50	--	--	3,300	3,000	88,000	4,600	500	110	--	N
K0102S	58 10 27	154 48 1	--	--	2,700	2,700	93,000	4,300	1,200	160	--	N
K0103S	58 10 28	154 45 39	610	200	3,500	3,700	110,000	6,800	6,400	N(100)	1.9	46
K0104S	58 10 17	154 45 58	--	--	2,300	2,400	74,000	5,400	1,300	88	--	N
K0105SR1	58 10 15	154 51 19	--	--	3,000	3,300	55,000	5,700	3,100	250	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K0052S	N	9.8	12	2.8	N	N	--	N	870	140	<63	41
K0053S	N	17	18	1.2	N	4.2	2.8	N	520	310	23	14
K0054S	N	14	16	2.2	N	N	--	N	410	190	<25	15
K0055S	.3	23	9.3	2.1	N	N	--	N	320	130	<20	12
K0055SR1	N	17	31	2.8	1.6	N	--	N	500	110	47	22
K0055SR2	N	18	33	3.1	1.8	N	--	N	540	86	<44	23
K0056S	N	17	30	3	N	N	--	N	650	180	<36	23
K0057S	N	32	40	3.6	N	N	--	N	470	300	<34	18
K0058S	N	6.5	7.5	2.9	N	N	--	N	950	76	<58	39
K0059S	.6	13	13	1.8	N	N	--	N	470	54	<15	19
K0060S	N	7.2	7.2	1.9	N	N	--	N	550	100	<54	25
K0061S	N	12	16	2.2	N	N	--	N	650	91	<21	25
K0062S	N	N	7.4	N	N	3.8	2.4	N	560	N	25	17
K0063S	N	11	5.5	1.3	N	N	--	N	330	170	<19	15
K0064S	.69	19	25	2.6	1.9	N	--	N	320	120	<18	11
K0065S	N	15	7.6	2.6	N	N	--	N	660	85	<23	25
K0065SR1	N	23	11	2.5	1.4	N	--	N	370	260	39	18
K0065SR2	N	21	9.3	2.3	1.5	N	--	N	340	100	<28	15
K0066S	5.8	11	13	N	N	3.4	1.3	N	470	260	20	13
K0067S	N	11	11	2.5	N	N	--	N	750	90	<48	29
K0068S	N	18	12	2.3	N	N	--	N	550	100	<26	21
K0069S	N	20	12	2.3	N	N	--	N	390	190	<25	12
K0070S	N	13	6.3	2.4	N	N	--	N	660	40	N(14)	24
K0071S	N	16	22	2.1	N	N	--	N	370	130	<18	15
K0072S	.039	20	8.4	1.8	N	N	--	N	420	140	<20	15
K0073S	N	16	6.3	1.9	N	N	--	N	420	140	<23	15
K0074S	N	12	7.8	1.9	N	N	--	N	500	150	<19	21
K0075S	N	13	33	3.4	3.6	N	--	N	380	78	<27	11
K0075SR1	N	20	16	2.6	N	N	--	N	540	140	57	26
K0075SR2	N	17	15	2.3	N	N	--	N	450	160	<37	23
K0076S	N	12	8.2	1.4	N	N	--	N	380	49	<20	12
K0077S	N	10	9.5	1.7	N	N	--	N	540	66	N(16)	19
K0079S	N	5.5	4.1	1	N	N	--	N	270	72	<19	10
K0081S	N	11	8.5	1.9	N	N	--	N	430	75	<23	15
K0082S	N	7.9	4.8	1.5	N	N	--	N	470	51	N(18)	16
K0083S	N	11	6	1.6	N	N	--	N	310	97	<20	11
K0084S	N	11	7.9	1.5	N	N	--	N	420	77	<17	15
K0085S	N	16	12	1.8	N	N	--	N	370	180	<27	14
K0085SR1	N	19	14	2	N	N	--	N	330	160	41	15
K0085SR2	N	16	12	1.8	N	N	--	N	300	190	29	14
K0086S	N	23	41	2.9	3.3	N	--	N	340	98	28	10
K0087S	N	6.9	8.7	1.8	N	N	--	N	560	51	N(22)	18
K0088S	N	17	15	1.4	N	N	--	N	180	110	<15	5.9
K0089S	N	18	15	1.6	N	N	--	N	230	170	<19	7.9
K0090S	N	7.6	3.5	N	N	N	--	N	190	73	<11	8.1
K0091S	N	13	7.8	1.3	N	N	--	N	260	46	<20	11
K0092S	N	18	11	2	N	N	--	N	350	120	<22	11
K0093S	N	13	12	1.8	N	N	--	N	440	60	<21	13
K0095S	N	29	43	4.4	5.1	N	--	N	290	100	25	8.2
K0095SR1	N	34	55	5.7	8.1	.22	--	N	300	130	32	9.9
K0095SR2	N	31	54	4.8	6.7	N	--	N	270	120	28	9
K0096S	N	9.3	6.2	1.5	N	N	--	N	450	78	<19	16
K0097S	N	12	7.6	1.7	N	N	--	N	430	77	<18	16
K0098S	N	17	13	2.2	1.5	N	--	N	220	97	<22	11
K0099S	N	39	80	7.6	12	1.3	--	N	310	38	20	3.2
K0101S	N	11	3.9	1.7	N	N	--	N	480	64	N(17)	16
K0102S	N	11	5.4	1.7	N	N	--	N	510	95	<22	19
K0103S	N	21	16	1.2	N	4.5	4.6	N	630	410	32	18
K0104S	N	13	21	1.7	N	N	--	N	330	160	<21	12
K0105SR1	N	18	7.9	1.9	N	N	--	N	400	170	39	19

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K0052S	9.9	2.6	160	N	N(6.1)	N	N	N	N	N	N	N
K0053S	7.2	9.7	74	N	N	N	N	N	N	N	N	N
K0054S	6.7	6.4	68	N	N	N	N	N	N	N	N	N
K0055S	9.5	10	57	N	<4.3	N	N	N	N	N	N	N
K0055SR1	12	10	87	N	<6.4	N	N	N	N	N	N	N
K0055SR2	13	10	94	N	<7	N	N	N	N	N	N	N
K0056S	12	5.5	100	N	N(4.2)	N	N	N	N	N	N	N
K0057S	11	4.7	76	N	N	N	N	N	N	N	N	N
K0058S	11	N	170	N	N(5.9)	N	N	N	N	N	N	N
K0059S	9.3	7.3	100	N	<4.6	N	N	N	N	N	N	N
K0060S	28	7.4	100	N	N	N	N	N	N	N	N	N
K0061S	7.5	5.7	120	N	N	N	N	N	N	N	N	N
K0062S	N	16	81	N	N	N	N	N	N	N	N	N
K0063S	7.6	6.2	64	N	N	N	N	N	N	N	N	N
K0064S	8.8	9	55	N	<4	N	N	N	N	N	N	N
K0065S	8.3	5.6	120	N	N	N	N	N	N	N	N	N
K0065SR1	7.3	9.7	60	N	N	N	<.46	N	N	N	N	N
K0065SR2	6.9	9	56	N	<4.6	N	N	N	N	N	N	N
K0066S	7.8	11	68	N	N	N	N	N	N	N	N	N
K0067S	9.3	2.6	130	N	N(3.6)	N	N	N	N	N	N	N
K0068S	9	7.4	95	N	N(3.9)	N	N	N	N	N	N	N
K0069S	10	9.8	57	N	<3.6	N	N	N	N	N	N	N
K0070S	6.7	3.3	130	N	N	N	N	N	N	N	N	N
K0071S	8.9	9.7	66	N	<3.6	N	N	N	N	N	N	N
K0072S	5.4	6.1	71	N	N	N	N	N	N	N	N	N
K0073S	7.8	4.9	76	N	N	N	N	N	N	N	N	N
K0074S	8.1	8.2	99	N	N	N	N	N	N	N	N	N
K0075S	12	7.2	62	N	<5.4	N	N	N	N	N	N	N
K0075SR1	10	9.9	95	N	<9.2	N	N	N	N	N	N	N
K0075SR2	9.2	10	90	N	<4.8	N	N	N	N	N	N	N
K0076S	7	5.1	63	N	N	N	N	N	N	N	N	N
K0077S	7.4	1.9	92	N	N	N	N	N	N	N	N	N
K0079S	4.9	6.5	46	N	<2.3	N	N	N	N	N	N	N
K0081S	8.6	14	69	N	<7.4	N	N	N	N	N	N	N
K0082S	5.7	1.3	89	N	N	N	N	N	N	N	N	N
K0083S	4.9	7	50	N	<3.3	N	N	N	N	N	N	N
K0084S	6.7	2.9	72	N	N	N	N	N	N	N	N	N
K0085S	6.1	5.4	65	N	N	N	N	N	N	N	N	N
K0085SR1	6.5	8.9	55	N	<3.7	N	N	N	N	N	N	N
K0085SR2	6.8	9.3	51	N	<2.4	N	N	N	N	N	N	N
K0086S	12	9.9	45	N	<6.8	N	N	N	N	N	N	N
K0087S	6.9	N	100	N	N	N	N	N	N	N	N	N
K0088S	3.4	10	28	N	<5	N	N	N	N	N	N	N
K0089S	3.5	6.9	37	N	N	N	N	N	N	N	N	N
K0090S	3.2	3.4	34	N	N	N	N	N	N	N	N	N
K0091S	5	4.4	42	N	<3.7	N	N	N	N	N	N	N
K0092S	9.7	15	52	N	<5.5	N	N	N	N	N	N	N
K0093S	7.3	5.6	77	N	<3.5	N	N	N	N	N	N	N
K0095S	8.2	11	37	N	<4.3	N	N	N	N	N	N	N
K0095SR1	8.2	14	35	N	<5.4	N	N	N	N	N	N	N
K0095SR2	8.1	15	35	N	<6	N	N	N	N	N	N	N
K0096S	6.3	2.5	82	N	N	N	N	N	N	N	N	N
K0097S	6.2	3.4	76	N	N	N	N	N	N	N	N	N
K0098S	10	14	28	N	<5.9	N	N	N	N	N(6.6)	N	N
K0099S	7.2	14	34	N	7.4	N	N	N	N	N	N	N
K0101S	8.1	6.2	80	N	N	N	N	N	N	N	N	N
K0102S	7	1.6	88	N	N	N	N	N	N	N	N	N
K0103S	10	14	97	N	N	N	2.3	N	N	6.1	N	N
K0104S	6.3	7.5	58	N	N	N	N	N	N	N	N	N
K0105SR1	8	8.9	72	N	<5.8	N	N	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K0105SR2	58 10 15	154 51 19	420	140	2,800	2,700	76,000	4,300	N	N	1.5	49
K0106S	58 8 36	154 47 33	--	--	2,100	3,500	20,000	6,100	1,000	300	--	N
K0107S	58 12 54	154 29 37	460	130	2,400	2,600	120,000	5,700	7,500	N(100)	1	48
K0108S	58 12 35	154 32 16	--	--	2,500	2,500	80,000	5,700	6,100	440	--	N
K0110S	58 10 59	154 37 37	--	--	2,400	2,500	120,000	4,400	6,200	330	--	N
K0111S	58 10 24	154 37 9	--	--	2,600	2,200	79,000	5,200	4,800	270	--	N
K0112S	58 5 59	154 40 28	490	200	2,700	3,000	84,000	6,200	5,000	<210	1.9	60
K0113S	58 7 12	154 40 52	--	--	3,400	3,600	100,000	5,600	6,300	320	--	N
K0114S	58 8 33	154 42 36	--	--	2,700	2,900	89,000	5,800	5,500	330	--	N
K0115S	58 8 1	154 41 18	--	--	2,200	2,500	120,000	4,200	3,600	240	--	N
K0115SR1	58 8 1	154 41 18	--	--	2,400	2,300	96,000	3,900	1,100	140	--	N
K0115SR2	58 8 1	154 41 18	--	--	2,300	2,200	100,000	3,600	2,400	190	--	N
K0116S	58 8 53	154 41 46	--	--	6,200	4,800	67,000	11,000	3,400	280	--	N
K0117S	58 8 14	154 21 13	--	--	2,500	2,300	120,000	4,200	5,400	290	--	N
K0118S	58 9 31	154 20 10	470	120	2,300	3,000	120,000	4,100	8,200	<180	.9	46
K0119S	58 9 10	154 18 50	--	--	2,600	2,300	150,000	3,400	2,800	230	--	N
K0120S	58 7 51	154 15 34	--	--	1,700	1,700	51,000	4,700	2,400	200	--	N
K0121S	58 10 41	154 17 6	--	--	1,500	1,700	53,000	5,000	3,200	180	--	N
K0122S	58 11 58	154 20 37	--	--	1,800	2,200	110,000	4,000	6,900	340	--	N
K0123S	58 12 32	154 19 5	--	--	1,800	1,400	93,000	4,100	2,700	140	--	N
K0124S	58 12 7	154 16 44	--	--	1,600	2,500	30,000	5,400	2,200	350	--	N
K0125S	58 12 0	154 13 45	--	--	1,800	1,700	64,000	5,100	3,300	200	--	N
K0125SR1	58 12 0	154 13 45	--	--	2,300	2,800	38,000	7,800	2,100	200	--	N
K0125SR2	58 12 0	154 13 45	--	--	2,300	2,300	37,000	6,800	2,500	310	--	N
K0126S	58 11 49	154 15 38	--	--	2,200	2,600	100,000	5,600	6,900	250	--	N
K0127S	58 18 15	154 11 7	--	--	2,500	2,700	59,000	9,100	2,900	390	--	N
K0128S	58 17 22	154 12 58	--	--	1,900	2,000	61,000	9,800	3,500	290	--	N
K0129S	58 21 35	154 9 1	--	--	4,000	3,300	120,000	7,900	2,100	190	--	N
K0131S	58 19 56	154 13 28	--	--	2,400	2,600	47,000	7,500	2,100	340	--	N
K0132S	58 19 23	154 15 12	--	--	6,300	3,600	81,000	11,000	2,200	660	--	N
K0133S	58 18 47	154 16 49	--	--	4,500	4,200	54,000	11,000	2,100	340	--	N
K0135S	58 19 7	154 22 32	--	--	6,600	7,500	87,000	13,000	2,200	250	--	N
K0135SR1	58 19 7	154 22 32	--	--	4,000	4,200	28,000	7,600	1,000	150	--	N
K0135SR2	58 19 7	154 22 32	--	--	4,600	5,200	40,000	9,200	1,600	210	--	N
K0136S	58 19 45	154 27 11	--	--	6,700	8,100	33,000	15,000	1,000	390	--	N
K0137S	58 19 52	154 27 21	--	--	2,900	2,600	110,000	4,300	3,100	420	--	N
K0138S	58 20 46	154 24 8	--	--	2,700	2,500	35,000	5,900	1,400	260	--	N
K0139S	58 20 50	154 23 57	--	--	1,700	1,700	44,000	2,800	1,000	280	--	N
K0140S	58 14 57	154 16 43	--	--	4,700	2,300	94,000	8,500	2,800	250	--	N
K0141S	58 14 43	154 14 23	--	--	2,200	1,800	99,000	4,100	2,900	220	--	N
K0142S	58 14 37	154 13 58	--	--	2,300	3,900	95,000	6,600	N	670	--	N
K0143S	58 15 43	154 13 33	--	--	2,900	2,200	96,000	10,000	4,700	280	--	N
K0144S	58 15 49	154 11 14	--	--	3,700	3,100	94,000	9,400	4,600	250	--	N
K0145S	58 13 38	154 10 42	--	--	2,400	2,300	140,000	4,200	4,500	300	--	N
K0145SR1	58 13 38	154 10 42	--	--	2,500	2,400	82,000	4,600	1,100	200	--	N
K0145SR2	58 13 38	154 10 42	--	--	2,200	2,300	91,000	4,400	5,400	330	--	N
K0146S	58 12 51	154 12 23	--	--	1,600	2,100	100,000	3,200	4,900	290	--	N
K0147S	58 11 31	154 11 27	--	--	2,100	2,100	57,000	5,400	2,300	260	--	N
K0148S	58 17 31	154 8 15	--	--	4,000	4,900	82,000	12,000	4,000	310	--	N
K0149S	58 14 36	154 33 46	--	--	1,600	1,600	95,000	4,300	2,700	200	--	N
K0150S	58 14 39	154 33 58	--	--	4,300	5,200	90,000	6,900	6,400	360	--	N
K0151S	58 14 51	154 33 9	--	--	4,700	2,600	54,000	7,200	1,800	230	--	N
K0152S	58 13 32	154 29 51	--	--	3,200	3,100	91,000	6,300	5,500	330	--	N
K0153S	58 14 14	154 27 18	--	--	3,300	3,100	71,000	6,300	4,800	290	--	N
K0154S	58 13 10	154 28 1	--	--	5,800	2,500	78,000	9,000	2,100	260	--	N
K0155SR1	58 13 46	154 24 41	--	--	5,700	2,500	35,000	8,500	1,200	210	--	N
K0155SR2	58 13 46	154 24 41	--	--	6,900	2,900	59,000	11,000	2,000	280	--	N
K0156S	58 14 12	154 21 32	--	--	3,300	3,100	53,000	7,600	2,300	210	--	N
K0157S	58 44 20	153 46 43	--	--	2,600	1,800	19,000	5,600	770	180	--	N
K0158S	58 43 36	153 45 18	--	--	2,100	3,800	46,000	7,400	1,900	250	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K0105SR2	N	N	9.7	N	N	3.6	2.3	N	490	N	25	14
K0106S	N	19	12	1.5	1.5	N	--	N	190	79	15	5.8
K0107S	N	11	8.9	1.5	N	7.1	4.5	N	800	490	31	24
K0108S	.026	14	8.4	2	N	N	--	N	360	260	<30	16
K0110S	.091	10	4.6	2	N	N	--	N	500	250	<34	22
K0111S	.17	12	7.4	1.9	N	N	--	N	360	230	<32	17
K0112S	N	13	15	1.3	N	5	4.3	N	530	340	27	20
K0113S	N	14	7.1	2.1	N	N	--	N	460	260	<30	22
K0114S	.47	14	10	1.9	N	N	--	N	400	250	<33	16
K0115S	N	11	5.9	2.1	N	N	--	N	520	180	<31	24
K0115SR1	N	8.7	3.6	2	N	N	--	N	710	100	72	33
K0115SR2	N	7.6	3.4	2.1	N	N	--	N	700	150	<59	33
K0116S	N	28	13	2.2	N	N	--	N	400	230	<36	16
K0117S	N	9.2	7.9	2.2	N	N	--	N	560	230	<34	26
K0118S	N	11	8.2	N	N	5.2	4.1	N	770	520	32	22
K0119S	N	6.9	3.3	2.4	N	N	--	N	760	140	<51	34
K0120S	.59	9.4	20	2.3	1.2	N	--	N	330	160	<24	12
K0121S	1.3	7.5	6.2	1.6	N	N	--	N	300	210	<19	11
K0122S	N	9.4	5.8	1.9	N	N	--	N	430	270	<32	20
K0123S	.95	5.2	4.4	1.5	N	N	--	N	400	150	<33	16
K0124S	1.3	12	7.3	1.7	1.3	N	--	N	190	140	<17	8.4
K0125S	1.4	7.9	9.3	1.5	N	N	--	N	290	190	<27	11
K0125SR1	N	16	15	2	1.3	N	--	N	290	160	33	12
K0125SR2	N	12	13	1.8	1	N	--	N	270	170	27	11
K0126S	N	13	8.1	2.2	N	N	--	N	430	340	<38	21
K0127S	.11	15	7.5	2.3	N	N	--	N	340	200	<27	15
K0128S	.089	8.8	6.1	1.9	N	N	--	N	410	220	<21	14
K0129S	N	21	17	2.8	N	N	--	N	670	130	<39	21
K0131S	.89	16	8.2	2	.9	N	--	N	310	150	<24	10
K0132S	.14	20	14	4.2	4.6	N	--	N	700	190	<22	23
K0133S	N	24	16	2.6	1.7	N	--	N	420	160	<24	13
K0135S	N	35	11	2.8	N	N	--	N	500	150	<38	15
K0135SR1	N	24	6.7	1.8	1.3	N	--	N	320	89	29	11
K0135SR2	N	29	8.3	2.2	1.1	N	--	N	350	130	30	12
K0136S	1.2	51	16	1.7	N	N	--	N	230	95	25	9
K0137S	.15	9.2	4.8	2.6	N	N	--	N	280	340	91	12
K0138S	1.1	13	10	2	1.4	N	--	N	190	140	30	7.5
K0139S	1.2	6.8	5.3	1.7	N	N	--	N	150	170	48	5.5
K0140S	N	14	19	1.9	N	N	--	N	350	250	<35	16
K0141S	N	5.9	4.5	2	N	N	--	N	540	160	<28	23
K0142S	N	16	8.4	2.6	N	N	--	N	480	530	<41	29
K0143S	N	12	12	2	N	N	--	N	390	290	<39	16
K0144S	N	18	11	2.4	N	N	--	N	480	280	<38	22
K0145S	N	8.8	5.4	2.4	N	N	--	N	660	200	<38	27
K0145SR1	N	10	5.4	2.2	N	N	--	N	570	95	57	27
K0145SR2	N	9.5	4.8	2	N	N	--	N	530	280	<46	26
K0146S	.34	8.3	4.9	1.7	N	N	--	N	400	210	<33	17
K0147S	.27	14	41	2.8	1.9	N	--	N	470	200	<20	13
K0148S	N	29	20	3.2	1.4	N	--	N	460	260	<34	18
K0149S	.64	11	41	1.5	N	N	--	N	280	210	<26	9.4
K0150S	N	23	16	2.8	N	N	--	N	490	300	<34	22
K0151S	1.3	26	18	1.7	N	N	--	N	310	140	<32	12
K0152S	N	17	12	2.3	N	N	--	N	420	250	<29	17
K0153S	.43	15	23	2.3	N	N	--	N	420	220	<25	17
K0154S	.85	15	15	2	N	N	--	N	410	180	<31	14
K0155SR1	N	16	12	1.8	1.3	N	--	N	340	120	32	15
K0155SR2	N	18	14	2.1	N	N	--	N	400	180	39	18
K0156S	.85	24	13	2	N	N	--	N	270	160	33	12
K0157S	N	9.9	20	2.4	4.5	1.6	--	N	150	52	18	4.2
K0158S	N	21	12	2.3	1.5	N	--	N	170	230	64	9.4

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K0105SR2	N	14	77	N	N	N	N	N	N	N	N	N
K0106S	7	11	24	N	<4.2	N	N	N	N	N	N	N
K0107S	7.6	18	130	N	N	N	N	N	N	N	N	N
K0108S	5.5	8.9	63	N	N	N	N	N	N	N	N	N
K0110S	5.7	2	93	N	N	N	N	N	N	N	N	N
K0111S	5.2	4.3	68	N	N	N	N	N	N	N	N	N
K0112S	330	80	31,000	N	46	N	N	N	30	N	N	N
K0113S	8.8	5.4	82	N	N	N	N	N	N	N	N	N
K0114S	6	4.5	69	N	N	N	N	N	N	N	N	N
K0115S	5.9	<.56	100	N	N	N	N	N	N	N	N	N
K0115SR1	8.6	2.8	130	N	<4.4	N	N	N	N	N	N	N
K0115SR2	8.3	2.5	120	N	N	N	N	N	N	N	N	N
K0116S	12	9	59	N	N	N	N	N	N	N	N	N
K0117S	7.1	2.7	110	N	N	N	N	N	N	N	N	N
K0118S	7.4	19	130	N	N	N	N	N	N	N	N	N
K0119S	7.8	1.6	150	N	N	N	N	N	N	N	N	N
K0120S	6.9	4.4	50	N	N	N	N	N	N	N	N	N
K0121S	4.6	6.2	52	N	<3.2	N	N	N	N	N	N	N
K0122S	4.6	7	83	N	N	N	N	N	N	N	N	N
K0123S	9.7	5.1	74	N	N	N	N	N	N	N	N	N
K0124S	4.3	11	33	N	<4.2	N	.51	N	N	N	N	N
K0125S	5.8	5.5	57	N	N	N	N	N	N	N	N	N
K0125SR1	8.3	12	59	N	<5.9	N	N	N	N	N	N	N
K0125SR2	8.3	12	53	N	<5.5	N	N	N	N	N	N	N
K0126S	5.7	7	77	N	N	N	N	N	N	N	N	N
K0127S	8	7.5	45	N	<5.2	N	N	N	N	N	N	N
K0128S	6.3	7.8	52	N	<5.3	N	.5	N	N	N	N	N
K0129S	11	2	120	N	N	N	N	N	N	N	N	N
K0131S	4.1	6.6	41	N	<4.8	N	N	N	N	N	N	N
K0132S	15	24	65	N	<10	N	N	N	N	N	N	N
K0133S	8.6	15	63	N	16	N	N	N	N	N	N	N
K0135S	10	6.2	71	N	N(4.1)	N	N	N	N	N	N	N
K0135SR1	7.7	7.2	47	N	<5	N	N	N	N	N	N	N
K0135SR2	8.3	7.4	51	N	<4.6	N	N	N	N	N	N	N
K0136S	9.1	20	37	N	<6.4	N	N	N	N	N	N	N
K0137S	13	8.7	49	N	N	N	N	N	N	N	N	N
K0138S	6.4	12	35	N	<4.1	N	N	N	N	N	N	N
K0139S	8	8.5	26	N	N	N	.46	N	N	N	N	N
K0140S	12	15	55	N	N	N	N	N	N	N	N	N
K0141S	7.7	4.9	100	N	N	N	N	N	N	N	N	N
K0142S	7	14	83	N	N	.57	N	N	10	N	N	33
K0143S	8.1	7	62	N	N	N	N	N	N	N	N	N
K0144S	12	9.1	70	N	N	N	N	N	N	N	N	N
K0145S	6	1.5	120	N	N	N	N	N	N	N	N	N
K0145SR1	7.8	6	100	N	<4.6	N	N	N	N	N	N	N
K0145SR2	7.1	4	93	N	N	N	N	N	N	N	N	N
K0146S	4.6	N	77	N	N	N	N	N	N	N	N	N
K0147S	9.2	8.1	61	N	<4.4	N	N	N	N	N	N	N
K0148S	12	9.8	71	N	<5	N	N	N	N	N	N	N
K0149S	4.2	5	50	N	N	N	N	N	N	N	N	N
K0150S	12	11	80	N	N	N	N	N	N	N	N	N
K0151S	14	13	43	N	<3.8	N	N	N	N	N	N	N
K0152S	6.6	8.5	73	N	<4.5	N	N	N	N	N	N	N
K0153S	7.8	9	71	N	<8.3	N	N	N	N	N	N	N
K0154S	10	17	57	N	N(4)	N	N	N	N	N	N	N
K0155SR1	11	20	47	N	<6	N	.67	N	N	N	N	N
K0155SR2	13	25	56	N	<5.7	N	.69	N	N	N	N	N
K0156S	8.3	11	49	N	<7.5	N	N	N	N	N	N	N
K0157S	5.2	16	19	N	<3.7	N	2	N	N	<12	N	N
K0158S	11	25	23	N	N	N	.96	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K0159S	58 43 0	153 45 30	--	--	2,500	2,400	26,000	5,400	390	210	--	N
K0160S	58 42 50	153 45 40	--	--	2,400	770	120,000	8,300	490	240	--	N
K0161S	58 42 11	153 44 35	--	--	3,600	3,500	22,000	5,800	1,100	300	--	N
K0162S	58 42 22	153 44 21	--	--	2,400	2,300	25,000	3,100	530	320	--	N
K0162SD	58 42 22	153 44 21	--	--	4,300	3,200	59,000	5,500	660	290	--	N
K0163S	58 42 22	153 45 42	--	--	6,400	6,100	48,000	14,000	710	340	--	N
K0164S	58 36 9	154 11 31	--	--	4,200	5,500	19,000	9,800	520	260	--	N
K0165S	58 35 30	154 14 23	--	--	5,200	5,800	32,000	10,000	270	350	--	N
K0166S	58 35 32	154 15 7	--	--	4,500	5,600	15,000	8,900	280	240	--	N
K0167S	58 36 14	154 13 50	--	--	4,300	6,300	16,000	10,000	420	210	--	N
K0168S	58 36 52	154 13 22	--	--	3,000	4,200	7,900	7,100	310	140	--	N
K0169S	58 37 29	154 12 58	--	--	3,900	4,800	12,000	9,000	390	180	--	N
K0170S	58 37 28	154 12 46	--	--	8,300	5,700	22,000	13,000	340	360	--	N
K0171S	58 36 48	154 11 13	--	--	4,000	4,500	13,000	8,300	510	210	--	N
K0172S	58 36 37	154 8 52	--	--	4,500	6,900	21,000	16,000	860	300	--	N
K0173S	58 35 46	154 7 57	--	--	3,600	5,000	20,000	8,200	740	200	--	N
K0174S	58 37 2	154 6 41	--	--	460	1,700	10,000	3,400	490	290	--	N
K0175S	58 37 32	154 6 51	--	--	5,100	7,000	17,000	13,000	500	280	--	N
K0176S	58 38 4	154 6 12	--	--	4,100	6,400	21,000	12,000	1,100	300	--	N
K0177S	58 36 21	154 4 31	--	--	600	1,700	20,000	2,800	1,100	140	--	N
K0178S	58 18 7	154 30 33	--	--	8,900	5,900	30,000	12,000	1,500	470	--	N
K0179S	58 18 12	154 30 13	--	--	2,600	2,000	34,000	3,600	1,400	240	--	N
K0180S	58 16 28	154 36 39	--	--	780	2,000	25,000	2,900	1,400	170	--	N
K0181S	58 16 11	154 31 55	--	--	4,400	2,000	27,000	8,600	810	240	--	N
K0182S	58 17 7	154 26 42	--	--	3,200	4,600	22,000	7,400	780	140	--	N
K0183S	58 17 2	154 24 44	--	--	3,100	5,700	26,000	8,500	680	90	--	N
K0184S	58 15 25	154 29 57	--	--	1,500	1,500	36,000	2,200	560	79	--	N
K0185S	58 22 42	154 14 36	--	--	2,600	2,800	140,000	6,000	2,200	230	--	N
K0185SD	58 22 42	154 14 36	--	--	4,000	6,200	97,000	12,000	6,700	240	--	N
K0186S	58 22 46	154 14 27	--	--	3,200	2,500	46,000	7,400	2,000	210	--	N
K0187S	58 22 53	154 13 21	--	--	2,600	2,700	78,000	4,000	4,300	300	--	N
K0188S	58 22 1	154 17 17	--	--	2,800	3,000	37,000	5,600	2,000	430	--	N
K0189S	58 21 16	154 16 4	--	--	6,300	6,400	76,000	13,000	5,800	450	--	N
K0190S	58 20 52	154 15 26	--	--	2,700	2,300	47,000	5,600	810	160	--	N
K0191S	58 21 13	154 6 12	--	--	4,400	5,600	36,000	13,000	1,700	210	--	N
K0192S	58 21 28	154 3 0	670	320	3,000	2,800	99,000	5,900	N	N	2.1	56
K0193S	58 22 56	154 1 8	--	--	1,200	2,700	23,000	11,000	1,400	270	--	N
K0194S	58 23 52	154 1 48	--	--	1,100	3,200	31,000	7,800	1,300	130	--	N
K0195S	58 25 39	154 12 0	--	--	4,000	6,000	43,000	12,000	1,800	310	--	N
K0196S	58 26 28	154 11 9	--	--	2,700	8,000	22,000	11,000	1,100	310	--	N
K0197S	58 22 52	154 8 10	--	--	7,600	5,800	37,000	12,000	250	330	--	N
K0198S	58 8 17	155 18 40	--	--	1,000	2,400	28,000	5,000	2,000	230	--	N
K0199S	58 6 56	155 18 3	--	--	2,500	3,500	23,000	9,600	960	230	--	N
K0200S	58 6 34	155 16 32	--	--	3,500	3,300	22,000	8,800	1,100	170	--	N
K0201S	58 5 23	155 15 43	--	--	3,600	5,800	17,000	11,000	760	210	--	N
K0202S	58 4 45	155 13 24	--	--	4,200	5,800	19,000	11,000	960	210	--	N
K0203S	58 4 17	155 13 59	--	--	4,300	5,600	16,000	11,000	610	220	--	N
K0204S	58 3 13	155 15 8	--	--	3,200	5,000	14,000	9,400	520	180	--	N
K0205S	58 3 13	155 13 31	--	--	3,700	5,300	11,000	10,000	420	160	--	N
K0206S	58 1 29	155 16 10	--	--	4,300	4,700	14,000	11,000	580	220	--	N
K0207S	58 1 38	155 16 13	--	--	3,400	4,500	17,000	9,100	520	190	--	N
K0208S	58 0 2	155 18 44	--	--	3,300	3,900	15,000	7,900	460	190	--	N
K0209S	58 0 0	155 12 0	--	--	7,000	3,300	21,000	16,000	850	380	--	N
K0210S	58 1 37	155 10 15	--	--	4,600	7,100	20,000	14,000	1,100	280	--	N
K0211S	58 1 44	155 9 0	--	--	3,600	5,100	16,000	9,900	450	210	--	N
K0212S	58 0 34	155 8 20	--	--	2,500	3,800	17,000	9,600	670	340	--	N
K0213S	58 1 6	155 5 54	--	--	4,300	3,200	28,000	9,500	500	300	--	N
K0214S	58 2 8	155 33 26	--	--	7,900	8,500	24,000	15,000	1,200	310	--	N
K0215S	58 2 12	155 33 27	--	--	5,600	10,000	30,000	17,000	980	290	--	N
K0216S	58 2 23	155 32 59	--	--	7,400	8,100	20,000	14,000	700	300	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K0159S	N	14	12	1.5	1.2	N	--	N	110	88	35	6.4
K0160S	N	7	9.7	1.7	N	N	--	N	120	52	N(14)	N
K0161S	N	12	6.7	3.5	6.3	3.2	--	N	170	100	33	6.6
K0162S	N	8.5	3.7	1.8	2	N	--	N	130	120	45	5.9
K0162SD	N	9.1	7.4	1.7	N	N	--	12	200	160	44	4.6
K0163S	N	35	16	2	N	N	--	N	190	77	49	10
K0164S	N	41	38	5.5	8.4	.62	--	N	220	68	19	5.3
K0165S	N	60	100	6	8.5	.98	--	N	340	94	25	7.3
K0166S	N	35	81	5.2	8.5	2.4	--	N	280	44	20	6.5
K0167S	N	30	25	3.7	5	.38	--	N	220	52	18	5
K0168S	N	18	16	2.4	3.2	.82	--	N	160	27	14	4
K0169S	N	24	27	2.6	3.3	.58	--	N	200	38	15	4.8
K0170S	N	55	80	4.8	6.3	2.2	--	N	310	49	26	7.8
K0171S	N	34	54	3.9	5.3	1.2	--	N	180	42	18	4.8
K0172S	N	50	44	5.2	7.5	2.1	--	N	300	78	20	6.7
K0173S	N	32	28	6.5	10	.85	--	N	220	68	21	6.4
K0174S	N	9.5	14	1.2	1.8	1.1	--	N	68	48	<6	3.2
K0175S	N	46	63	4.1	5.2	.84	--	N	240	55	21	6
K0176S	N	46	43	3.6	4.1	.48	--	N	240	85	21	7.4
K0177S	N	8.8	4.9	1.3	1.4	N	--	N	140	80	17	7.2
K0178S	N	26	18	3.3	4.2	.11	--	N	310	95	26	13
K0179S	N	8.2	3.7	1.5	N	N	--	N	180	180	46	9.5
K0180S	N	9.5	6.6	1.4	1.1	N	--	N	160	92	19	8.4
K0181S	N	17	23	2.3	2.6	N	--	N	280	60	22	7.2
K0182S	N	21	4.4	1.5	N	N	--	N	220	65	16	7.8
K0183S	N	25	8.1	2.3	2.4	N	--	N	240	71	21	7.1
K0184S	N	6	2.8	1.4	N	N	--	N	280	41	<19	15
K0185S	N	12	17	3.3	N	N	--	N	660	120	<48	28
K0185SD	N	26	28	3.4	N	N	--	22	570	340	<20	20
K0186S	N	14	31	3.8	5.3	N	--	N	500	130	29	19
K0187S	N	10	11	2.6	N	N	--	N	380	330	50	21
K0188S	N	13	14	2.8	3.2	N	--	N	220	230	55	10
K0189S	N	33	46	4	2.7	N	--	N	510	320	<43	23
K0190S	N	11	21	2.5	2.1	N	--	N	440	130	<20	15
K0191S	N	36	20	2.3	1.7	N	--	N	310	150	25	13
K0192S	N	N	16	2.2	N	4.6	5.1	N	640	N	31	19
K0193S	N	16	19	2.7	3.1	.098	--	N	310	120	23	9.2
K0194S	N	19	12	2.2	1.7	N	--	N	240	120	22	10
K0195S	N	28	37	3	2.3	N	--	N	260	180	44	14
K0196S	N	36	27	2.6	2.7	.12	--	N	150	130	25	7.6
K0197S	N	54	100	5.6	9.6	1	--	N	500	120	42	18
K0198S	N	14	19	2.7	4	N	--	N	230	160	26	11
K0199S	N	23	31	2	1.7	N	--	N	160	99	21	5.8
K0200S	N	29	52	4.9	7	N	--	N	230	83	19	6.3
K0201S	N	32	58	7.6	12	1.8	--	N	240	59	18	4.1
K0202S	N	27	46	5.8	9.5	.43	--	N	280	62	19	6.3
K0203S	N	32	60	3.9	5.3	.7	--	N	220	44	17	3.1
K0204S	N	26	47	4.3	6.6	.57	--	N	200	35	15	2.8
K0205S	N	20	37	3.5	5.2	1	--	N	200	30	13	N
K0206S	N	32	57	5.5	9	1.2	--	N	250	37	16	3.5
K0207S	N	22	41	4.9	7.5	N	--	N	220	51	15	2.2
K0208S	N	28	42	5.9	9.8	.68	--	N	210	39	15	4.2
K0209S	N	47	91	4.9	10	1.9	--	N	430	57	25	12
K0210S	N	32	56	5.7	8.1	1.6	--	N	310	66	19	3.7
K0211S	N	22	42	3.8	5.5	.38	--	N	220	42	14	4.1
K0212S	N	25	51	3.3	5.4	1.1	--	N	310	52	15	4.6
K0213S	N	24	76	5.6	10	2.4	--	N	560	71	23	7.2
K0214S	N	47	65	3.2	3.9	N	--	N	400	86	32	8.8
K0215S	N	57	59	3.3	3.6	N	--	N	600	91	23	7.6
K0216S	N	44	63	4.3	5.9	.69	--	N	260	45	26	6.4

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K0159S	9.4	27	18	N	N	N	1.3	N	N	N	N	N
K0160S	5	33	18	N	N	N	1.3	N	N	N	N	N
K0161S	9.8	27	24	N	<2.5	N	1	N	N	N	N	N
K0162S	12	24	20	N	N	N	.62	N	N	<4.9	N	N
K0162SD	15	29	24	N	N	N	N	N	N	N	N	N
K0163S	18	22	21	N	N	N	1.4	N	N	N	N	N
K0164S	5.6	8.3	21	N	N	N	N	N	N	N	N	N
K0165S	10	11	31	N	N	N	N	N	N	N	N	N
K0166S	7.5	9.5	26	N	N	N	N	N	N	N	N	N
K0167S	6.3	9.3	21	N	N	N	N	N	N	N	N	N
K0168S	4.6	6	14	N	N	N	N	N	N	N	N	N
K0169S	6.1	8.7	20	N	N	N	N	N	N	N	N	N
K0170S	15	25	47	N	N	N	N	N	N	N	N	N
K0171S	7.6	10	24	N	N	N	N	N	N	N	N	N
K0172S	5.8	12	27	N	N	N	N	N	N	N	N	N
K0173S	6.1	7.2	24	N	N	N	N	N	N	N	N	N
K0174S	1.5	7.6	13	N	N	N	N	N	N	N	N	N
K0175S	8.9	14	30	N	N	N	N	N	N	N	N	N
K0176S	8.7	14	37	N	N	N	N	N	N	N	N	N
K0177S	2.9	5.6	28	N	N	N	N	N	N	N	N	N
K0178S	18	21	35	N	N	N	N	N	N	N	N	N
K0179S	9.1	13	37	N	N	N	.89	N	N	N	N	N
K0180S	3.4	17	31	N	N	N	N	N	N	N	N	N
K0181S	7.5	14	30	N	<3.1	N	N	N	N	N	N	N
K0182S	6.1	8.6	28	N	N	N	N	N	N	N	N	N
K0183S	6.9	5.3	36	N	N	N	N	N	N	N	N	N
K0184S	6	5	69	N	N	N	N	N	N	N	N	N
K0185S	10	N	120	N	N	N	N	N	N	N	N	N
K0185SD	9.9	8.7	78	N	N	N	N	N	N	N	N	N
K0186S	14	12	77	N	N	N	N	N	N	N	N	N
K0187S	16	11	68	N	N	N	N	N	N	N	N	N
K0188S	11	14	36	N	N	N	.68	N	N	N(7.3)	N	N
K0189S	14	16	70	N	N	N	N	N	N	N	N	N
K0190S	9.5	12	58	N	<3.5	N	N	N	N	N	N	N
K0191S	9.2	9.6	45	N	N	N	N	N	N	N	N	N
K0192S	N	8.1	120	N	N	N	N	N	N	N	N	N
K0193S	5.2	12	33	N	N	N	.51	N	N	N	N	N
K0194S	3.9	4.6	41	N	N	N	N	N	N	N	N	N
K0195S	13	19	38	N	N	N	.87	N	N	N	N	N
K0196S	7.4	20	30	N	N	N	N	N	N	N	N	N
K0197S	25	24	68	N	N	N	N	N	N	N	N	N
K0198S	5.2	16	32	N	N	N	.69	N	N	N	N	N
K0199S	4.3	13	25	N	N	N	.64	N	N	N	N	N
K0200S	6.1	11	32	N	N	N	N	N	N	N	N	N
K0201S	5.1	13	23	N	N	N	N	N	N	N	N	N
K0202S	6	8.9	27	N	N	N	N	N	N	N	N	N
K0203S	5.9	12	26	N	N	N	N	N	N	N	N	N
K0204S	4.3	7.6	19	N	N	N	N	N	N	N	N	N
K0205S	4.3	7.9	19	N	N	N	N	N	N	N	N	N
K0206S	6.1	9.6	25	N	<2.7	N	N	N	N	N	N	N
K0207S	4.7	7.7	21	N	N	N	N	N	N	N	N	N
K0208S	5.6	6.8	20	N	<5.1	N	.46	N	N	N	N	N
K0209S	11	18	50	N	18	.38	2	N	<2.4	N	<11	N
K0210S	6.5	12	29	N	N	N	N	N	N	N	N	N
K0211S	5	9.4	22	N	N	N	N	N	N	N	N	N
K0212S	5.4	14	31	N	N	N	N	N	N	N	N	N
K0213S	7.6	13	41	N	<3.6	N	N	N	N	N	N	N
K0214S	11	19	43	N	N	N	N	N	N	N	N	N
K0215S	8.4	20	48	N	N	N	N	N	N	N	N	N
K0216S	11	19	32	N	N	N	N	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K0217S	58 1 40	155 30 55	--	--	9,300	11,000	23,000	19,000	1,100	410	--	N
K0217SD	58 1 40	155 30 55	--	--	8,000	12,000	28,000	21,000	1,600	300	--	N
K0218S	58 1 31	155 30 36	--	--	9,700	6,700	25,000	14,000	930	390	--	N
K0219S	58 2 34	155 36 2	--	--	8,600	5,600	22,000	16,000	510	360	--	N
K0220S	58 1 6	155 29 48	--	--	4,600	4,400	17,000	11,000	890	270	--	N
K0221S	58 0 25	155 29 6	--	--	12,000	9,300	28,000	19,000	740	460	--	N
K0222S	58 0 43	155 33 58	--	--	8,100	6,500	17,000	13,000	740	320	--	N
K0223S	58 1 2	155 35 20	--	--	11,000	8,900	27,000	15,000	1,100	420	--	N
K0224S	58 0 3	155 37 9	--	--	5,700	6,100	29,000	12,000	1,700	350	--	N
K0225S	58 0 5	155 39 22	--	--	4,800	9,000	37,000	15,000	940	340	--	N
K0226S	58 0 53	155 26 16	--	--	7,300	5,000	21,000	15,000	620	310	--	N
K0227S	58 4 50	155 29 18	--	--	9,400	6,700	20,000	13,000	750	370	--	N
K0228S	58 4 51	155 29 11	--	--	6,400	5,100	15,000	11,000	600	290	--	N
K0229S	58 4 6	155 29 11	--	--	8,900	7,500	21,000	15,000	850	370	--	N
K0230S	58 3 23	155 29 11	--	--	8,900	7,400	24,000	14,000	810	350	--	N
K0231S	58 3 18	155 29 0	--	--	9,000	8,100	19,000	15,000	530	350	--	N
K0232S	58 3 13	155 29 16	--	--	7,000	7,000	18,000	12,000	740	290	--	N
K0233S	58 3 32	155 9 11	--	--	5,100	5,100	17,000	11,000	760	240	--	N
K0234S	58 3 27	155 9 13	--	--	5,800	5,700	16,000	12,000	700	270	--	N
K0235S	58 2 44	155 7 50	--	--	4,000	5,300	15,000	12,000	660	260	--	N
K0236S	58 1 28	155 4 21	--	--	4,800	5,200	11,000	9,200	360	210	--	N
K0237S	58 3 56	155 2 10	--	--	4,200	7,900	23,000	13,000	1,700	390	--	N
K0238S	58 6 46	155 27 39	--	--	9,500	7,900	21,000	16,000	550	360	--	N
K0239S	58 6 48	155 27 39	--	--	6,900	2,800	29,000	7,800	570	340	--	N
K0240S	58 6 42	155 27 15	--	--	6,200	2,700	26,000	10,000	570	370	--	N
K0241S	58 4 38	155 25 58	--	--	6,800	5,600	15,000	11,000	590	270	--	N
K0242S	58 3 44	155 24 42	--	--	8,400	6,600	17,000	13,000	670	320	--	N
K0243S	58 6 13	155 24 24	--	--	4,700	4,700	22,000	11,000	810	260	--	N
K0244S	58 6 15	155 24 14	--	--	5,500	6,700	22,000	14,000	660	270	--	N
K0245S	58 4 14	155 23 58	--	--	5,700	5,400	20,000	16,000	570	250	--	N
K0246S	58 3 8	155 23 59	--	--	4,400	6,500	20,000	13,000	650	260	--	N
K0247S	58 2 21	155 24 47	--	--	4,600	5,800	15,000	11,000	400	220	--	N
K0248S	58 1 23	155 27 50	--	--	7,600	8,200	20,000	16,000	910	290	--	N
K0249S	58 1 44	155 27 41	--	--	7,800	8,300	21,000	15,000	750	290	--	N
K0249SD	58 1 44	155 27 41	--	--	5,400	6,000	20,000	11,000	850	220	--	N
K0250S	58 13 46	154 43 21	--	--	2,200	3,400	66,000	5,700	4,500	240	--	N
K0251S	58 13 42	154 43 17	--	--	4,100	5,900	31,000	7,100	1,100	66	--	N
K0252S	58 13 26	154 44 24	--	--	2,400	3,100	91,000	4,100	3,900	160	--	N
K0253S	58 13 33	154 45 4	--	--	1,500	1,900	76,000	2,800	5,700	250	--	N
K0254S	58 13 9	154 46 57	510	180	3,100	4,300	82,000	6,600	N	N	1.8	59
K0255S	58 13 17	154 47 57	--	--	3,200	4,000	76,000	7,300	3,100	88	--	N
K0256S	58 14 15	154 46 35	--	--	1,500	1,900	42,000	2,300	4,800	250	--	N
K0257S	58 14 6	154 47 46	--	--	4,900	4,200	81,000	7,800	2,800	350	--	N
K0258S	58 13 21	154 48 59	--	--	3,900	6,700	27,000	10,000	2,100	280	--	N
K0259S	58 14 4	154 50 2	--	--	2,200	2,200	35,000	3,100	2,900	200	--	N
K0260S	58 13 17	154 50 41	--	--	3,200	4,100	79,000	6,300	4,900	160	--	N
K0261S	58 12 51	154 53 52	--	--	7,400	6,200	37,000	13,000	1,900	170	--	N
K0262S	58 13 24	154 54 1	--	--	1,600	3,700	53,000	5,100	4,400	280	--	N
K0263S	58 14 38	154 53 27	--	--	7,400	12,000	36,000	15,000	1,700	210	--	N
K0264S	58 14 38	154 53 39	--	--	3,300	4,900	40,000	6,500	1,800	80	--	N
K0265S	58 13 20	154 55 9	--	--	1,500	3,200	42,000	5,100	2,300	120	--	N
K0266S	58 12 50	154 56 4	--	--	3,800	3,400	45,000	6,700	2,100	170	--	N
K0267S	58 13 18	154 56 8	--	--	960	4,100	25,000	5,400	2,300	270	--	N
K0268S	58 12 32	154 57 18	--	--	1,700	4,400	37,000	6,300	3,300	210	--	N
K0269S	58 11 32	154 57 41	--	--	2,400	4,100	49,000	6,400	2,800	160	--	N
K0270S	58 12 43	155 4 24	--	--	1,700	2,900	68,000	3,900	4,000	220	--	N
K0271S	58 11 43	155 4 26	--	--	1,000	2,700	20,000	3,700	2,000	210	--	N
K0272S	58 11 50	155 4 54	--	--	1,300	4,100	31,000	6,300	2,200	300	--	N
K0273S	58 12 57	155 9 51	--	--	1,100	2,800	26,000	4,000	2,200	170	--	N
K0274S	58 12 55	155 10 5	--	--	1,800	4,300	37,000	6,300	3,000	170	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K0217S	N	55	73	3.4	4.3	1.5	--	N	450	73	29	10
K0217SD	N	65	77	3.5	2.8	.63	--	7.5	450	76	22	6
K0218S	N	38	56	4.6	7.7	.76	--	N	370	56	29	15
K0219S	N	34	50	3.3	4.3	.059	--	N	340	48	23	8
K0220S	N	31	50	4.6	7.1	.42	--	N	230	56	19	6
K0221S	N	57	110	5.1	7.2	1	--	N	390	51	29	10
K0222S	N	35	54	2.5	2.3	.77	--	N	270	46	23	2.6
K0223S	N	49	64	4.4	5.6	.8	--	N	390	62	29	8.2
K0224S	N	40	57	3.2	4.4	.41	--	N	670	87	22	10
K0225S	N	40	27	2.9	3.2	N	--	N	880	87	<16	7.8
K0226S	N	61	130	4.2	6.1	.18	--	N	310	37	21	6.6
K0227S	N	51	82	5	7.4	1.4	--	N	300	44	27	8.1
K0228S	N	39	70	3.9	5.4	1.2	--	N	250	42	20	3.1
K0229S	N	49	88	5	7.3	1.3	--	N	310	49	26	7.8
K0230S	N	48	83	5.1	7.1	.91	--	N	300	53	23	5.7
K0231S	N	48	91	4	5.3	1.5	--	N	310	44	23	6.8
K0232S	N	42	66	3.5	4.5	.94	--	N	230	39	23	6.2
K0233S	N	30	50	3.7	5.3	.52	--	N	240	44	17	4.9
K0234S	N	35	62	4.5	6.9	1.3	--	N	260	38	19	5
K0235S	N	30	54	3.5	4.5	.81	--	N	260	53	18	3.2
K0236S	N	28	50	3.5	5.2	.9	--	N	170	30	16	3.1
K0237S	N	45	53	4	4.7	1.6	--	N	330	99	27	6.9
K0238S	N	46	100	4.7	6.9	1.5	--	N	310	44	25	7.9
K0239S	7.4	17	27	3.4	5.7	N	--	N	280	50	22	14
K0240S	N	17	34	3.4	4.6	1.3	--	N	350	63	23	7.7
K0241S	N	41	79	3.6	4.8	1.3	--	N	230	38	20	N
K0242S	N	47	85	4.8	7.2	1.7	--	N	290	45	24	5.9
K0243S	N	37	49	3.4	4.2	1.1	--	N	290	72	19	4.9
K0244S	N	47	52	3.5	4.3	.99	--	N	290	71	22	7.2
K0245S	N	55	110	5.3	7.7	1.5	--	N	360	52	25	6.8
K0246S	N	53	97	6.4	10	1.5	--	N	300	58	22	6.3
K0247S	N	39	66	4.9	7	1.3	--	N	250	34	19	2
K0248S	N	59	93	5.1	7.1	1.8	--	N	310	55	27	9.6
K0249S	N	68	110	6	8.8	1.8	--	N	310	58	29	9.4
K0249SD	N	40	66	5.4	7.9	.68	--	4.6	260	45	15	3.5
K0250S	N	15	9.2	2	N	N	--	N	340	220	<31	18
K0251S	N	33	11	2.4	2.1	N	--	N	310	110	34	12
K0252S	N	11	4.3	2	N	N	--	N	530	190	<30	26
K0253S	N	6.4	3.7	1.4	N	N	--	N	390	240	<34	18
K0254S	N	N	8	1.3	N	4.2	5.7	N	550	N	26	17
K0255S	N	18	9.3	2.1	N	N	--	N	390	270	<34	18
K0256S	N	6.6	3.5	1.5	N	N	--	N	300	230	27	17
K0257S	N	18	3.9	1.8	N	N	--	N	260	180	<33	28
K0258S	N	33	12	2.1	2	N	--	N	230	120	28	9.5
K0259S	N	9.6	3.6	1.3	N	N	--	N	250	160	24	13
K0260S	N	18	7.1	1.8	N	N	--	N	390	320	<38	21
K0261S	N	29	14	1.8	N	N	--	N	300	140	44	14
K0262S	N	16	6.6	1.3	N	N	--	N	290	210	33	12
K0263S	N	49	18	3.1	3.1	N	--	N	300	120	30	14
K0264S	N	21	8.9	1.3	N	N	--	N	300	170	27	16
K0265S	N	16	9.5	1.2	N	N	--	N	240	180	29	10
K0266S	N	16	14	1.6	N	N	--	N	290	160	30	14
K0267S	N	19	9.4	1.7	1.8	N	--	N	190	150	22	8.8
K0268S	N	21	12	1.4	N	N	--	N	750	190	31	9.3
K0269S	N	20	11	1.6	N	N	--	N	330	150	30	16
K0270S	N	12	9.3	1.8	N	N	--	N	310	280	<32	16
K0271S	N	14	9.5	N	N	N	--	N	150	120	16	4.8
K0272S	N	23	17	2.6	3.8	N	--	N	310	140	22	11
K0273S	N	14	6.2	1.1	N	N	--	N	180	130	20	9.5
K0274S	N	20	9.6	1.3	N	N	--	N	230	210	28	11

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K0217S	13	27	45	N	N	N	N	N	N	N	N	N
K0217SD	10	22	37	N	N	N	N	N	N	N	N	N
K0218S	15	22	53	N	22	.62	2.2	N	<3.3	N	16	N
K0219S	9.2	27	37	N	N	N	3.2	N	N	N	N	N
K0220S	6.5	11	29	N	N	N	N	N	N	N	N	N
K0221S	16	28	52	N	N	N	N	N	N	N	N	N
K0222S	10	18	33	N	N	N	N	N	N	N	N	N
K0223S	14	19	45	N	<6.2	N	N	N	N	N	N	N
K0224S	8.9	18	44	N	N	N	N	N	N	N	N	N
K0225S	4.1	21	85	N	<6.7	N	N	N	N	N	N	N
K0226S	10	13	41	N	N	N	N	N	N	N	N	N
K0227S	12	17	43	N	10	N	<.49	N	N	N	N	N
K0228S	8.8	16	30	N	N	N	N	N	N	N	N	N
K0229S	11	20	38	N	N	N	N	N	N	N	N	N
K0230S	12	18	37	N	N	N	N	N	N	N	N	N
K0231S	12	20	40	N	N	N	N	N	N	N	N	N
K0232S	10	17	31	N	N	N	N	N	N	N	N	N
K0233S	7.1	14	27	N	N	N	N	N	N	N	N	N
K0234S	7.5	12	31	N	N	N	N	N	N	N	N	N
K0235S	5.4	14	29	N	N	N	N	N	N	N	N	N
K0236S	7	12	23	N	N	N	N	N	N	N	N	N
K0237S	7.5	14	39	N	N	N	N	N	N	N	N	N
K0238S	13	23	42	N	N	N	N	N	N	N	N	N
K0239S	13	11	45	N	26	.79	2.9	N	6.5	<19	19	N
K0240S	9.7	20	38	N	N	N	N	N	N	N	N	N
K0241S	8.6	15	30	N	N	N	N	N	N	N	N	N
K0242S	11	19	37	N	N	N	N	N	N	N	N	N
K0243S	6.8	17	33	N	N	N	N	N	N	N	N	N
K0244S	18	35	40	N	N	N	N	N	N	N	N	N
K0245S	13	26	43	N	N	N	N	N	N	N	N	N
K0246S	8.3	14	35	N	N	N	N	N	N	N	N	N
K0247S	6.8	14	27	N	N	N	N	N	N	N	N	N
K0248S	24	36	43	N	N	N	N	N	N	N	N	N
K0249S	13	21	41	N	N	N	N	N	N	N	N	N
K0249SD	7	10	24	N	N	N	N	N	N	N	N	N
K0250S	7	5.3	62	N	N	N	N	N	N	N	N	N
K0251S	14	21	51	N	N	N	N	N	N	N	N	N
K0252S	7.8	3.6	110	N	N	N	N	N	N	N	N	N
K0253S	5.2	<1	74	N	N	N	N	N	N	N	N	N
K0254S	N	12	91	N	N	N	N	N	N	N	N	N
K0255S	8.5	7.6	67	N	N	N	N	N	N	N	N	N
K0256S	5.7	2.7	56	N	N	N	N	N	N	N	N	N
K0257S	27	16	51	N	N	N	N	N	N	N	N	N
K0258S	16	21	40	N	N	N	N	N	N	N	N	N
K0259S	6.9	4.5	47	N	N	N	N	N	N	N	N	N
K0260S	11	9.9	70	N	N	N	N	N	N	N	N	N
K0261S	19	14	43	N	N	N	N	N	N	N	N	N
K0262S	4	2	54	N	N	N	N	N	N	N	N	N
K0263S	15	15	44	N	N	N	N	N	N	N	N	N
K0264S	8.6	9.9	61	N	N	N	N	N	N	N	N	N
K0265S	5	3.9	43	N	N	N	N	N	N	N	N	N
K0266S	10	10	53	N	N	N	N	N	N	N	N	N
K0267S	7.3	12	30	N	N	N	N	N	N	N	N	N
K0268S	4.2	7.7	43	N	N	N	N	N	N	N	N	N
K0269S	8.7	11	64	N	N	N	N	N	N	N	N	N
K0270S	4.7	7.1	59	N	N	N	N	N	N	N	N	N
K0271S	2.4	4.3	25	N	N	N	N	N	N	N	N	N
K0272S	5.1	13	36	N	N	N	N	N	N	N	N	N
K0273S	5.1	6.2	34	N	N	N	N	N	N	N	N	N
K0274S	5.4	7.2	38	N	N	N	N	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K0275S	58 11 58	155 8 19	--	--	1,500	2,700	26,000	3,300	2,100	180	--	N
K0276S	58 10 59	155 6 59	--	--	2,500	4,700	28,000	7,700	1,800	230	--	N
K0277S	58 11 20	155 9 7	--	--	2,200	3,500	76,000	5,100	6,200	290	--	N
K0278S	58 9 59	155 10 0	--	--	2,000	4,800	37,000	6,900	2,400	170	--	N
K0279S	58 9 59	155 10 12	--	--	1,500	3,800	32,000	5,500	2,100	230	--	N
K0280S	58 9 35	155 11 46	--	--	1,100	3,700	39,000	5,500	2,400	120	--	N
K0281S	58 9 17	155 9 54	--	--	1,300	4,000	61,000	5,700	3,000	170	--	N
K0282S	58 8 14	155 15 25	--	--	1,700	1,700	59,000	6,400	2,400	150	--	N
K0283S	58 8 44	155 3 23	--	--	1,900	2,100	72,000	4,100	320	46	--	N
K0284S	58 8 14	155 12 45	--	--	5,700	4,900	31,000	12,000	1,100	280	--	N
K0285S	58 7 38	155 13 50	--	--	4,600	5,100	26,000	13,000	810	210	--	N
K0286S	58 6 27	155 11 56	--	--	5,100	5,700	24,000	12,000	1,100	200	--	N
K0287S	58 6 38	155 9 10	--	--	6,200	5,200	22,000	12,000	760	260	--	N
K0288S	58 8 30	155 9 9	--	--	5,400	6,100	21,000	13,000	520	270	--	N
K0289S	58 7 13	155 22 51	--	--	490	820	18,000	1,800	1,200	87	--	N
K0290S	58 5 51	155 21 2	--	--	2,800	4,100	25,000	9,300	1,200	220	--	N
K0291S	58 5 27	155 20 11	--	--	6,900	8,900	24,000	16,000	690	290	--	N
K0292S	58 4 34	155 20 15	--	--	3,100	5,400	11,000	9,500	290	150	--	N
K0293S	58 2 53	155 20 13	--	--	3,100	5,200	11,000	9,500	300	160	--	N
K0294S	58 3 50	155 21 18	--	--	4,200	5,000	15,000	10,000	290	220	--	N
K0295S	58 2 14	155 22 22	--	--	5,200	5,600	28,000	15,000	940	240	--	N
K0296S	58 1 9	155 22 24	--	--	3,300	6,100	22,000	11,000	570	190	--	N
K0297S	58 7 46	155 27 23	--	--	6,700	4,000	31,000	11,000	400	320	--	N
K0298S	58 5 38	155 4 35	--	--	3,300	4,000	23,000	7,700	1,100	140	--	N
K1000S	58 15 58	155 20 20	--	--	3,900	5,200	29,000	7,500	1,600	79	--	N
K1001S	58 16 16	155 20 12	--	--	3,200	4,600	12,000	7,900	900	110	--	N
K1003S	58 17 46	155 20 1	--	--	4,000	5,600	43,000	11,000	1,400	100	--	N
K1004S	58 18 8	155 20 6	--	--	3,600	5,800	40,000	13,000	3,400	190	--	N
K1005S	58 20 28	155 20 51	610	390	4,000	4,600	50,000	9,200	N	N	5.7	58
K1006S	58 20 44	155 21 55	--	--	2,800	3,500	32,000	5,500	1,500	69	--	N
K1007S	58 15 11	155 19 36	--	--	2,300	2,600	52,000	4,700	3,500	160	--	N
K1008S	58 15 12	155 19 31	--	--	3,000	2,800	41,000	6,000	3,600	190	--	N
K1009S	58 15 20	155 19 0	--	--	4,700	6,300	43,000	13,000	4,300	210	--	N
K1010S	58 16 3	155 19 9	--	--	5,600	7,300	36,000	11,000	1,800	280	--	N
K1011S	58 16 30	155 19 0	--	--	2,200	4,300	42,000	7,000	2,700	220	--	N
K1012S	58 17 31	155 18 12	--	--	1,800	2,300	40,000	3,500	2,800	150	--	N
K1013S	58 17 26	155 18 16	--	--	2,200	3,700	34,000	6,400	2,000	180	--	N
K1014S	58 18 7	155 19 19	--	--	2,500	3,800	16,000	6,700	980	56	--	N
K1015S	58 18 36	155 19 40	--	--	1,500	3,500	32,000	4,500	2,800	170	--	N
K1016S	58 19 43	155 19 32	--	--	1,600	5,900	58,000	8,500	6,200	250	--	N
K1016SD	58 19 43	155 19 32	--	--	2,300	4,300	50,000	7,700	2,600	120	--	N
K1017S	58 17 1	155 22 45	410	240	3,000	3,200	64,000	6,500	N	N	3.3	57
K1018S	58 17 8	155 22 50	--	--	1,400	3,700	27,000	5,800	1,700	90	--	N
K1019S	58 18 55	155 23 32	--	--	2,200	3,100	43,000	4,500	3,300	260	--	N
K1020S	58 18 50	155 23 12	--	--	1,800	2,500	17,000	4,700	1,400	110	--	N
K1021S	58 19 45	155 25 0	--	--	2,000	4,400	24,000	7,500	2,100	230	--	N
K1022S	58 17 8	155 28 5	--	--	2,100	3,500	22,000	7,700	1,400	330	--	N
K1023S	58 17 13	155 27 55	430	660	3,900	2,500	82,000	6,400	N	N	1.4	49
K1024S	58 18 0	155 28 35	--	--	2,900	4,000	59,000	5,300	2,700	300	--	N
K1025S	58 18 10	155 32 0	--	--	2,200	3,400	60,000	5,300	3,200	250	--	N
K1026S	58 18 8	155 31 50	--	--	2,200	2,900	33,000	6,000	2,600	370	--	N
K1027S	58 18 0	155 33 15	--	--	3,200	5,500	30,000	9,900	1,600	430	--	N
K1028S	58 19 46	155 37 5	--	--	1,300	3,100	39,000	5,200	3,700	370	--	N
K1029S	58 19 42	155 37 0	--	--	2,200	4,500	87,000	7,900	N	430	--	N
K1030S	58 19 30	155 37 40	--	--	2,800	8,500	42,000	14,000	4,700	320	--	N
K1031S	58 20 35	155 38 40	--	--	3,200	4,800	26,000	11,000	1,700	200	--	N
K1032S	58 27 5	155 32 35	270	230	3,600	4,400	26,000	8,000	N	N	4.7	N
K1033S	58 27 10	155 32 30	--	--	1,800	2,900	22,000	4,600	1,500	150	--	N
K1034S	58 28 55	155 26 40	--	--	2,800	4,100	25,000	8,300	1,600	310	--	N
K1035S	58 28 58	155 26 48	--	--	2,000	4,100	20,000	7,200	1,200	280	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K0275S	N	14	8.9	1.6	N	1.2	--	N	660	130	18	7.9
K0276S	N	27	28	2.5	2.4	N	--	N	230	120	24	9.6
K0277S	N	15	6.2	1.5	N	N	--	N	340	340	<42	20
K0278S	N	27	14	2	N	N	--	N	300	150	28	13
K0279S	N	18	10	1.6	N	N	--	N	180	160	28	9
K0280S	N	17	22	1.8	1.1	N	--	N	250	240	33	12
K0281S	N	18	24	2.2	N	N	--	N	290	290	38	15
K0282S	N	13	25	1.7	N	N	--	N	240	200	<32	11
K0283S	N	10	11	1.5	N	N	--	N	350	48	<39	13
K0284S	N	48	100	4.9	5.6	.38	--	N	310	91	30	7.3
K0285S	N	41	85	5.9	7.9	.8	--	N	260	81	26	6.8
K0286S	N	39	69	5.9	8.3	.58	--	N	290	84	26	8.2
K0287S	N	45	79	3.9	4.9	.67	--	N	310	61	28	8.6
K0288S	N	69	83	4.9	6.8	1.9	--	N	290	49	24	7.3
K0289S	N	6.4	7.3	N	N	N	--	N	85	110	19	2.5
K0290S	N	32	40	2.3	1.9	N	--	N	240	110	27	6
K0291S	N	72	100	8.4	13	2.4	--	N	310	62	27	6.9
K0292S	N	31	49	4	5.6	1.3	--	N	190	32	14	N
K0293S	N	23	47	4.3	6.6	1.3	--	N	190	26	13	N
K0294S	N	55	88	5.1	7.6	2.2	--	N	270	33	19	2.6
K0295S	N	49	91	8.3	13	1.6	--	N	410	80	29	7.8
K0296S	8.6	43	64	8.4	13	.32	--	N	250	66	23	4.7
K0297S	N	26	20	2.8	2.2	N	--	N	300	62	28	6.3
K0298S	N	28	39	4.1	5	N	--	N	240	71	23	5
K1000S	N	24	13	2.5	2.4	N	--	7	350	87	<17	12
K1001S	N	17	7.8	1.5	1.5	.15	--	4.9	190	54	12	5
K1003S	N	34	24	3.3	2.9	N	--	N	340	92	34	15
K1004S	N	27	22	2.8	2.6	N	--	14	340	170	<20	13
K1005S	3.5	N	48	3.1	N	5.4	3.2	N	460	N	23	12
K1006S	N	17	21	2	1.5	N	--	6.1	330	80	<17	13
K1007S	N	17	18	1.9	N	N	--	N	340	190	34	16
K1008S	N	19	27	2.5	1.6	N	--	N	380	210	36	20
K1009S	N	37	89	4	3.9	N	--	14	450	200	<24	15
K1010S	N	61	87	5.2	6.3	N	--	N	340	130	37	13
K1011S	N	25	15	3	2.4	N	--	N	250	180	34	14
K1012S	N	11	8.2	2.2	1.4	N	--	N	290	170	26	16
K1013S	N	16	13	2.8	2.4	N	--	N	220	140	27	10
K1014S	N	18	17	1.8	1.8	N	--	4.7	220	56	12	5.4
K1015S	N	16	9.5	1.2	N	N	--	N	260	150	24	12
K1016S	N	22	17	1.6	N	N	--	18	330	280	<19	14
K10165D	N	20	19	1.9	N	N	--	12	280	150	<12	9
K1017S	N	N	17	N	N	4	3	N	420	N	24	14
K1018S	N	16	9.2	1.1	N	N	--	6.9	210	88	10	8.8
K1019S	N	15	10	1.9	N	N	--	N	280	210	32	14
K1020S	N	12	10	N	N	N	--	N	200	88	17	6.4
K1021S	N	22	13	1.6	N	N	--	N	220	130	22	8.5
K1022S	N	23	25	1.4	N	N	--	N	150	83	14	5.9
K1023S	N	N	32	N	N	4	2.1	N	490	N	30	18
K1024S	N	23	15	4.1	4.8	N	--	N	470	230	45	18
K1025S	N	16	7.2	2.7	1.3	N	--	N	250	250	<27	8.6
K1026S	N	17	11	2.6	2.7	N	--	N	210	170	28	11
K1027S	N	55	20	3.6	4.7	N	--	N	240	150	31	12
K1028S	N	16	13	2.3	2.1	N	--	N	280	220	38	16
K1029S	N	22	13	2.6	N	N	--	N	430	450	<36	24
K1030S	N	39	20	2.3	N	N	--	16	380	200	21	11
K1031S	N	21	22	2.3	<2.4	N	--	8	290	90	11	7.6
K1032S	.4	N	14	3.5	N	N	N	N	270	N	17	7.4
K1033S	N	13	8.5	1.1	N	N	--	N	260	97	22	6.4
K1034S	N	32	40	1.6	N	N	--	N	220	120	30	10
K1035S	N	24	30	1.3	N	N	--	N	160	99	30	6.2

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K0275S	6.9	64	39	N	N	N	N	N	N	N	N	N
K0276S	7.1	14	38	N	N	N	N	N	N	N	N	N
K0277S	8	2.6	62	N	N	N	N	N	N	N	N	N
K0278S	8.9	10	48	N	N	N	N	N	N	N	N	N
K0279S	6.2	6.6	34	N	N	N	N	N	N	N	N	N
K0280S	4.6	10	38	N	N	N	N	N	N	N	N	N
K0281S	6	7.6	47	N	N	N	N	N	N	N	N	N
K0282S	6.3	14	63	N	N	N	N	N	N	N	N	N
K0283S	5.5	3.5	67	N	N	N	N	N	N	N	N	N
K0284S	9.8	21	49	N	N	N	N	N	N	N	N	N
K0285S	9.3	18	37	N	N	N	N	N	N	N	N	N
K0286S	8.8	15	38	N	N	N	N	N	N	N	N	N
K0287S	11	19	42	N	N	N	N	N	N	N	N	N
K0288S	10	21	42	N	N	N	N	N	N	N	N	N
K0289S	3.1	3.6	17	N	N	N	N	N	N	N	N	N
K0290S	7.1	14	32	N	N	N	N	N	N	N	N	N
K0291S	16	26	41	N	N	N	N	N	N	N	N	N
K0292S	4.4	11	21	N	N	N	N	N	N	N	N	N
K0293S	4.1	9.7	20	N	N	N	N	N	N	N	N	N
K0294S	6.6	14	30	N	N	N	N	N	N	N	N	N
K0295S	9.1	16	39	N	N	N	N	N	N	N	N	N
K0296S	5.1	9.1	21	N	N	N	N	N	N	N	N	N
K0297S	10	19	37	N	N	N	N	N	N	N	N	N
K0298S	6.6	9.3	31	N	N	N	N	N	N	N	N	N
K1000S	8.2	9.8	51	N	N	N	N	N	N	N	N	N
K1001S	5.5	8.9	21	N	N	N	N	N	N	N	N	N
K1003S	9	13	53	N	N	N	N	N	N	N	N	N
K1004S	6.9	13	47	N	N	N	N	N	N	N	N	N
K1005S	N	17	60	N	N	N	N	N	N	N	N	N
K1006S	6.3	7	60	N	N	N	N	N	N	N	N	N
K1007S	6.4	4.9	63	N	N	N	N	N	N	N	N	N
K1008S	9.1	13	73	N	N	N	<.48	N	N	N	N	N
K1009S	10	16	54	N	N	N	N	N	N	N	N	N
K1010S	12	23	51	N	<5	N	N	N	N	N(5.3)	N	N
K1011S	5.8	7.2	44	N	N	N	N	N	N	N	N	N
K1012S	5.7	4.9	57	N	N	N	N	N	N	N	N	N
K1013S	5.4	7.2	37	N	N	N	N	N	N	N	N	N
K1014S	4.8	8.6	29	N	N	N	N	N	N	N	N	N
K1015S	4.2	4.7	50	N	N	N	N	N	N	N	N	N
K1016S	3.9	4.6	55	N	N	N	N	N	N	N	N	N
K1016SD	4.2	3.5	42	N	N	N	N	N	N	N	N	N
K1017S	N	21	65	N	N	N	N	N	N	9.8	N	N
K1018S	3.6	7.4	38	N	N	N	N	N	N	N	N	N
K1019S	5.8	8.9	54	N	<2.7	N	N	N	N	<10	N	N
K1020S	4.2	10	35	N	N	N	N	N	N	N	N	N
K1021S	4.5	7.8	38	N	N	N	N	N	N	N	N	N
K1022S	5.3	42	27	N	N	N	N	N	N	N	N	N
K1023S	N	130	82	N	N	N	N	N	N	13	N	N
K1024S	16	4.2	60	N	N	N	N	N	N	N	N	N
K1025S	10	.99	44	N	N	N	N	N	N	N	N	N
K1026S	7.7	5.4	39	N	N	N	.49	N	N	N	N	N
K1027S	11	8.9	36	N	N	N	.58	N	N	N	N	N
K1028S	5.3	5.9	54	N	N	N	.56	N	N	N	N	N
K1029S	11	5.7	76	N	N	.35	N	N	6	N	N	23
K1030S	7.3	7.2	51	N	N	N	N	N	N	N	N	N
K1031S	6.1	10	35	N	<2.1	N	N	N	N	N	N	N
K1032S	N	14	N	N	N	N	N	N	N	7.3	N	N
K1033S	5.6	5.8	45	N	N	N	N	N	N	N	N	N
K1034S	7	32	29	N	N	N	N	N	N	N	N	N
K1035S	5.6	27	23	N	N	N	N	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K1036S	58 29 25	155 0 40	--	--	4,600	5,500	43,000	9,100	3,000	160	--	N
K1037S	58 29 18	155 0 45	--	--	4,400	4,900	43,000	8,500	3,000	370	--	N
K1038S	58 29 43	154 55 0	--	--	3,700	3,600	20,000	6,400	1,600	190	--	N
K1038SD	58 29 43	154 55 0	--	--	3,600	3,200	40,000	5,500	2,200	140	--	N
K1039S	58 27 51	154 58 45	400	190	3,100	3,200	58,000	7,100	N	N	5.2	62
K1040S	58 24 58	154 56 28	--	--	4,000	5,400	24,000	9,200	1,300	220	--	N
K1041S	58 23 52	154 56 35	--	--	1,300	1,300	17,000	2,700	670	74	--	N
K1042S	58 26 15	154 53 55	--	--	3,700	3,500	36,000	7,100	1,900	220	--	N
K1043S	58 27 18	154 56 10	300	270	7,000	6,300	45,000	14,000	N	N	14	63
K1044S	58 22 30	154 49 50	--	--	1,900	3,800	31,000	2,700	2,800	340	--	N
K1045S	58 24 9	154 48 37	280	210	3,900	5,800	23,000	8,400	N	N	4.9	N
K1049S	58 22 33	154 41 44	--	--	360	370	97,000	14,000	320	400	--	N
K1050S	58 29 49	154 52 30	320	170	3,000	3,100	100,000	4,600	N	N	3.5	55
K1051S	58 24 1	154 39 12	--	--	3,700	4,100	58,000	8,400	2,300	380	--	N
K1052S	58 23 40	154 40 38	--	--	7,700	5,000	26,000	11,000	1,100	310	--	N
K1053S	58 22 5	154 43 55	--	--	1,600	3,500	26,000	3,500	1,700	130	--	N
K1054S	58 26 59	154 35 32	--	--	770	2,200	25,000	3,500	2,000	140	--	N
K1055S	58 28 8	154 37 50	--	--	4,100	5,300	13,000	8,800	490	150	--	N
K1056S	58 31 58	154 39 5	--	--	8,800	7,900	36,000	17,000	1,900	240	--	N
K1057S	58 32 15	154 35 8	--	--	6,200	5,900	19,000	13,000	940	260	--	N
K1058S	58 30 32	154 53 52	--	--	1,500	3,200	37,000	5,400	2,900	230	--	N
K1059S	58 26 28	154 44 53	--	--	5,200	6,700	25,000	11,000	1,600	230	--	N
K1059SD	58 26 28	154 44 53	--	--	7,000	8,300	52,000	13,000	2,800	140	--	N
K1060S	58 29 8	154 41 39	--	--	5,400	8,500	36,000	14,000	2,500	100	--	N
K1061S	58 35 25	154 32 31	1,300	170	33,000	8,600	34,000	14,000	320	N	.73	52
K1062S	58 36 37	154 26 37	--	--	9,800	8,100	28,000	18,000	1,100	200	--	N
K1063S	58 36 55	154 26 41	--	--	13,000	7,200	30,000	19,000	960	410	--	N
K1064S	58 21 26	155 49 10	--	--	2,500	3,700	37,000	12,000	1,800	310	--	N
K1065S	58 24 10	155 46 47	--	--	2,600	3,400	36,000	9,000	1,300	280	--	N
K1066S	58 23 58	155 45 39	--	--	2,200	2,300	25,000	6,700	910	170	--	N
K1067S	58 24 22	155 41 56	--	--	2,900	4,900	33,000	8,700	1,300	280	--	N
K1068S	58 17 17	155 44 10	--	--	2,100	2,900	31,000	9,100	2,200	230	--	N
K1069S	58 16 43	155 41 45	--	--	4,400	3,500	29,000	9,300	1,400	260	--	N
K1070S	58 16 40	155 41 40	--	--	6,700	3,700	26,000	10,000	950	310	--	N
K1071S	58 16 20	155 45 50	--	--	3,800	5,400	27,000	12,000	1,100	180	--	N
K1072S	58 18 45	155 52 10	--	--	1,500	1,700	30,000	5,100	1,200	210	--	N
K1073S	58 18 50	155 52 12	--	--	2,400	2,800	28,000	9,500	990	170	--	N
K1074S	58 15 15	155 48 31	--	--	1,700	2,400	26,000	6,200	1,900	220	--	N
K1076S	58 15 41	156 0 27	--	--	2,600	3,200	90,000	9,200	800	250	--	N
K1077S	58 17 35	156 4 49	--	--	570	1,700	29,000	5,000	700	210	--	N
K1078S	58 22 12	156 0 21	--	--	2,100	4,000	30,000	16,000	2,800	410	--	N
K1079S	58 28 31	156 7 45	--	--	1,900	3,000	19,000	6,700	810	270	--	N
K1080S	58 29 40	156 13 20	--	--	2,100	3,900	22,000	10,000	1,900	320	--	N
K2001S	58 55 42	155 46 56	--	--	3,200	5,400	22,000	12,000	1,600	260	--	N
K2002S	58 54 53	155 48 51	--	--	3,200	5,900	25,000	13,000	980	260	--	N
K2003S	58 54 51	155 49 0	--	--	2,200	3,200	22,000	8,900	1,000	180	--	N
K2004S	58 51 39	155 48 43	--	--	3,500	3,500	20,000	13,000	1,200	280	--	N
K2005S	58 51 39	155 48 51	--	--	2,300	2,700	17,000	9,300	830	260	--	N
K2006S	58 48 45	155 48 35	--	--	2,700	4,800	25,000	15,000	1,400	230	--	N
K2007S	58 48 45	155 48 45	--	--	2,500	3,800	23,000	11,000	1,400	290	--	N
K2010S	58 29 12	156 16 55	--	--	2,900	6,000	32,000	21,000	2,400	410	--	N
K2011S	58 23 42	156 17 3	--	--	3,300	4,600	49,000	16,000	4,900	250	--	N
K2012S	58 20 52	155 59 52	--	--	2,200	4,800	44,000	15,000	3,700	230	--	N
K2013S	58 21 45	155 55 37	--	--	2,000	2,400	44,000	8,700	2,800	230	--	N
K2014S	58 26 21	155 48 16	--	--	1,500	2,200	38,000	3,600	490	110	--	N
K2015S	58 26 16	155 48 18	--	--	4,600	4,400	65,000	15,000	2,500	200	--	N
K2016S	58 26 9	155 40 57	--	--	5,200	7,400	72,000	15,000	2,200	170	--	N
K2017S	58 26 3	155 40 56	--	--	5,800	7,000	51,000	14,000	1,400	250	--	N
K2018S	58 26 12	155 40 10	--	--	4,700	6,800	33,000	11,000	1,100	140	--	N
K2019S	58 33 47	155 51 15	--	--	5,000	6,800	21,000	12,000	390	360	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K1036S	N	28	27	3.4	3.3	N	--	12	370	140	22	13
K1037S	N	25	18	2.4	1.4	N	--	N	320	150	29	11
K1038S	N	18	17	1.8	1.2	.11	--	N	250	92	22	8.3
K1038SD	N	13	11	1.9	N	N	--	8	350	110	<10	11
K1039S	N	N	14	1.6	N	4.9	2	N	420	N	22	12
K1040S	N	42	19	1.5	N	N	--	6.8	310	71	17	10
K1041S	N	16	9.2	N	N	N	--	N	140	47	13	2.7
K1042S	N	16	7.3	1.9	.97	N	--	N	280	140	33	12
K1043S	N	N	12	2.2	N	5.3	3.1	N	480	N	28	11
K1044S	N	10	4.5	1.6	1.3	N	--	N	230	140	<18	9.3
K1045S	.42	N	8.4	1.7	N	3.5	N	N	260	N	15	7.9
K1049S	N	41	65	4.3	N	N	--	8.3	66	86	33	N
K1050S	N	N	18	1.4	N	6.1	3.1	N	660	N	29	19
K1051S	N	22	3	1.9	N	N	--	N	270	160	46	27
K1052S	N	29	15	4.3	6.9	.16	--	9	390	82	24	9.1
K1053S	N	14	7.2	1.6	1.1	N	--	N	230	110	22	11
K1054S	N	12	15	1.1	N	N	--	N	230	140	32	9.6
K1055S	N	45	31	2.3	2	.66	--	N	190	42	17	2.1
K1056S	N	58	120	4.6	5.5	N	--	10	400	99	26	12
K1057S	N	50	89	3	3.9	1.4	--	N	330	62	25	6.4
K1058S	N	17	26	2	1.1	N	--	N	300	180	29	13
K1059S	N	39	23	2.2	1.4	N	--	N	310	110	30	9.3
K1059SD	N	35	21	2.6	N	N	--	12	430	140	<16	10
K1060S	N	41	47	3	<2.2	N	--	12	320	150	24	11
K1061S	N	63	15	N	N	.82	N	N	470	23	16	26
K1062S	N	58	140	4.6	5.3	1.3	--	7.7	350	72	30	8.4
K1063S	N	70	200	6	7	3.7	--	N	370	91	43	12
K1064S	N	19	45	5	7.5	.13	--	N	410	140	31	8
K1065S	N	23	59	2.5	1.7	N	--	N	270	210	57	7.2
K1066S	N	22	66	2.1	1.9	N	--	N	810	92	28	5.1
K1067S	N	20	29	2.4	1.2	N	--	N	240	160	42	8.4
K1068S	N	16	34	2.4	2.6	N	--	N	410	140	25	11
K1069S	N	31	41	2.8	2.9	N	--	N	280	110	31	11
K1070S	N	37	53	3.1	3.5	N	--	N	300	120	34	7.5
K1071S	N	28	58	4.6	7	.88	--	N	390	84	19	8.7
K1072S	N	11	19	2.4	2.7	N	--	N	290	85	20	5.8
K1073S	N	19	58	3.7	5.3	N	--	N	710	76	21	8.4
K1074S	N	12	20	2.1	2.2	N	--	N	370	120	20	8
K1076S	N	24	67	4.8	3.6	N	--	N	310	220	<45	10
K1077S	N	14	68	1.3	N	N	--	N	2,500	40	<15	6.8
K1078S	N	27	58	2.7	2.4	N	--	N	560	130	28	8.9
K1079S	N	30	48	3	4.3	N	--	N	340	59	18	5.7
K1080S	N	28	40	2.3	2.1	N	--	N	340	84	16	4.6
K2001S	N	27	44	3.1	4	N	--	7.6	470	83	19	6
K2002S	N	43	100	4.2	6.9	.3	--	7.4	450	83	17	6.5
K2003S	N	19	42	2.3	2.9	N	--	7.4	380	87	18	6.1
K2004S	N	23	50	3	5	N	--	7.4	280	72	18	8.6
K2005S	N	14	31	2.1	3.5	N	--	6	290	62	14	6
K2006S	N	27	47	2.6	2.6	N	--	7.4	700	89	17	7.7
K2007S	N	19	45	2	2	N	--	7.2	390	92	15	6
K2010S	N	50	77	4.2	4.5	.2	--	11	740	100	15	<4.1
K2011S	N	36	51	3.4	<1.6	N	--	16	440	180	27	7.7
K2012S	N	29	68	6.6	8.2	N	--	12	920	140	20	11
K2013S	N	15	45	6.6	9.3	N	--	11	910	120	17	8.7
K2014S	N	12	29	2.5	<1.6	N	--	9.7	330	120	25	<4.2
K2015S	N	26	85	5.1	5.2	N	--	15	660	180	22	13
K2016S	N	31	66	4.6	3.2	N	--	20	410	240	45	11
K2017S	N	37	52	3.9	<2.1	N	--	18	330	210	49	7.5
K2018S	N	33	48	4.1	5	N	--	10	390	120	31	7.7
K2019S	N	31	76	4.8	7.8	1.5	--	6	680	55	16	11

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K1036S	8.4	7.6	53	N	N	N	N	N	N	N	N	N
K1037S	7.4	7.7	48	N	N	N	N	N	N	N	N	N
K1038S	7.7	10	40	N	N	N	N	N	N	N	N	N
K1038SD	6.3	5.2	51	N	N	N	N	N	N	N	N	N
K1039S	N	14	59	N	N	N	N	N	N	N	N	N
K1040S	9.5	36	78	N	21	N	N	N	N	N	N	N
K1041S	3.8	32	30	N	N	N	N	N	N	N	N	N
K1042S	7.9	15	49	N	N	N	N	N	N	N	N	N
K1043S	N	19	50	N	N	N	N	N	N	8.1	N	N
K1044S	5.4	5.9	44	N	N	N	N	N	N	N	N	N
K1045S	N	35	51	N	N	N	N	N	N	19	N	N
K1049S	4.3	22	14	N	19	N	N	N	N	16	N	N
K1050S	N	16	110	N	N	N	N	N	N	N	N	N
K1051S	25	22	47	N	N	N	N	N	N	N	N	N
K1052S	17	16	40	N	6.4	N	N	N	N	N	N	N
K1053S	5.4	7.8	46	N	N	N	N	N	N	N	N	N
K1054S	6.9	9.3	42	N	N	N	N	N	N	N	N	N
K1055S	6.7	9.5	25	N	N	N	N	N	N	N	N	N
K1056S	15	22	59	N	N	N	N	N	N	N	N	N
K1057S	12	22	43	N	N	N	N	N	N	N	N	N
K1058S	5	11	52	N	N	N	N	N	N	N	N	N
K1059S	8.9	17	130	N	N	N	N	N	N	N	N	N
K1059SD	9.1	16	170	N	N	N	N	N	N	N	N	N
K1060S	10	13	46	N	N	N	N	N	N	N	N	N
K1061S	45	9.5	27	N	N	N	N	N	N	N	N	N
K1062S	14	26	52	N	N	N	N	N	N	N	N	N
K1063S	19	38	65	N	N	N	N	N	N	N	N	N
K1064S	3.8	5.7	37	N	N	N	.54	N	N	N	N	N
K1065S	5.7	14	28	N	N	N	.53	N	N	N	N	N
K1066S	4.4	11	30	N	N	N	N	N	N	N	N	N
K1067S	5.8	12	28	N	N	N	N	N	N	N	N	N
K1068S	3.5	5.9	45	N	N	N	.95	N	N	N	N	N
K1069S	9.5	13	43	N	N	N	N	N	N	N	N	N
K1070S	12	18	46	N	N	N	N	N	N	N	N	N
K1071S	5.2	13	53	N	<3.6	N	.57	N	N	N	N	N
K1072S	2.9	1.9	32	N	<2	N	N	N	N	N	N	N
K1073S	4	5.4	39	N	<4	N	.82	N	N	N	N	N
K1074S	3	5.2	42	N	N	N	.58	N	N	N	N	N
K1076S	4.4	2.2	28	N	N	N	N	N	N	N	N	N
K1077S	1.9	.49	30	N	N	N	N	N	N	N	N	N
K1078S	5.2	8.3	46	N	N	N	N	N	N	N	N	N
K1079S	3.8	2	30	N	N	N	N	N	N	N	N	N
K1080S	3	2.2	36	N	N	N	N	N	N	N	N	N
K2001S	5	2.4	28	N	N	N	N	N	N	N	N	N
K2002S	5.4	6.9	28	N	N	N	N	N	N	N	N	N
K2003S	4.8	5.1	26	N	N	N	N	N	N	N	N	N
K2004S	5.7	5.3	35	N	<4.5	N	.79	N	N	N	N	N
K2005S	5.4	4.5	25	N	<3.1	N	.55	N	N	N	N	N
K2006S	5	6.1	36	N	N	N	N	N	N	N	N	N
K2007S	4.2	4.1	29	N	N	N	N	N	N	N	N	N
K2010S	5	6.1	42	N	8.1	N	N	N	N	N	N	N
K2011S	7.6	4.2	61	N	<3.5	N	N	N	N	N	N	N
K2012S	4.4	3.2	50	N	N	N	N	N	N	N	N	N
K2013S	4.8	N	50	N	6.7	N	N	N	N	N	N	N
K2014S	4	1.9	27	N	N	N	N	N	N	N	N	N
K2015S	8.5	9.4	69	N	<3.5	N	N	N	N	N	N	N
K2016S	7.2	17	46	N	N	N	N	N	N	N	N	N
K2017S	7.6	22	37	N	<2.9	N	N	N	N	N	N	N
K2018S	7.2	13	35	N	N	N	N	N	N	N	N	N
K2019S	6.6	37	60	N	13	N	N	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K2020S	58 34 10	155 54 48	--	--	4,900	5,400	37,000	13,000	570	310	--	N
K2021S	58 35 38	155 56 50	--	--	2,300	7,500	16,000	9,800	670	370	--	N
K2022S	58 35 33	155 55 0	--	--	4,500	5,700	43,000	12,000	1,100	250	--	N
K2023S	58 36 7	155 51 52	--	--	3,100	4,600	17,000	8,800	740	280	--	N
K2023SD	58 36 7	155 51 52	--	--	2,500	4,100	19,000	7,500	730	320	--	N
K2024S	58 30 30	156 1 3	--	--	4,200	6,900	23,000	15,000	940	360	--	N
K2025S	58 33 50	156 13 40	--	--	4,000	5,600	53,000	23,000	4,100	330	--	N
K2026S	58 37 47	154 41 35	--	--	3,300	5,300	17,000	8,300	870	180	--	N
K2027S	58 37 18	154 41 55	--	--	3,900	3,700	24,000	8,500	1,100	200	--	N
K2028S	58 38 17	154 44 35	--	--	4,600	7,100	17,000	12,000	650	270	--	N
K2029S	58 38 28	154 47 20	--	--	3,700	6,000	21,000	9,900	1,300	250	--	N
K2030S	58 40 30	154 49 20	--	--	5,500	7,500	17,000	11,000	480	200	--	N
K2030S	58 40 30	154 49 20	--	--	4,000	8,300	29,000	15,000	1,200	140	--	N
K2031S	58 41 10	154 47 10	--	--	5,700	6,500	22,000	12,000	840	310	--	N
K2032S	58 42 10	154 44 50	--	--	9,300	9,300	28,000	16,000	480	340	--	N
K2033S	58 43 0	154 43 10	--	--	7,800	8,500	42,000	14,000	340	460	--	N
K2034S	58 42 58	154 43 0	--	--	3,500	5,700	28,000	10,000	1,300	290	--	N
K2035S	58 1 14	155 42 40	--	--	12,000	13,000	25,000	21,000	740	450	--	N
K2036S	58 1 33	155 43 28	--	--	7,600	12,000	34,000	20,000	1,300	360	--	N
K2037S	58 2 22	155 44 25	--	--	7,700	8,700	14,000	13,000	510	270	--	N
K2038S	58 5 19	155 43 17	--	--	6,100	8,000	20,000	13,000	630	350	--	N
K2039S	58 4 57	155 53 0	--	--	6,100	11,000	35,000	21,000	2,100	200	--	N
K2040S	58 4 55	155 52 35	--	--	4,900	6,300	24,000	11,000	930	240	--	N
K2041S	58 5 0	155 51 58	--	--	7,500	7,900	35,000	13,000	1,400	100	--	N
K2042S	58 0 30	155 57 30	--	--	12,000	15,000	30,000	25,000	780	170	--	N
K2043S	58 0 59	155 49 10	--	--	5,600	5,600	10,000	9,500	430	170	--	N
K2044S	58 1 10	155 49 12	--	--	14,000	12,000	32,000	17,000	800	90	--	N
K2045S	58 51 32	155 31 12	--	--	2,100	2,300	30,000	8,100	1,100	300	--	N
K2046S	58 37 1	154 21 15	--	--	7,600	6,000	24,000	10,000	230	390	--	N
K2047S	58 37 15	154 21 14	--	--	11,000	7,200	26,000	17,000	770	360	--	N
K2048S	58 37 15	154 21 40	--	--	9,300	5,200	32,000	14,000	1,200	410	--	N
K2049S	58 36 35	154 23 45	--	--	8,800	4,900	20,000	12,000	450	430	--	N
K2050S	58 34 57	154 27 5	--	--	13,000	6,400	34,000	19,000	1,000	470	--	N
K2051S	58 36 40	154 31 9	--	--	7,700	4,600	24,000	13,000	990	330	--	N
K2052S	58 36 53	154 35 12	--	--	6,800	3,600	26,000	12,000	920	310	--	N
K2053S	58 41 3	154 35 11	--	--	5,600	4,200	30,000	9,700	1,400	270	--	N
K2054S	58 41 12	154 35 41	--	--	5,200	6,200	16,000	12,000	350	200	--	N
K2055S	58 14 17	155 17 9	--	--	1,500	3,500	41,000	4,800	1,200	74	--	N
K2057S	58 15 15	155 11 48	--	--	1,500	1,100	11,000	5,400	190	370	--	N
K2058S	58 14 3	155 22 15	--	--	1,900	3,600	40,000	6,300	1,200	110	--	N
K2059S	58 12 46	155 23 39	--	--	1,300	2,500	47,000	3,600	2,600	110	--	N
K2060S	58 12 2	155 25 30	--	--	1,500	1,500	26,000	3,100	690	160	--	N
K2061S	58 14 35	155 25 19	--	--	1,800	2,000	25,000	3,600	1,500	130	--	N
K2062S	58 14 33	155 27 22	--	--	2,500	2,300	33,000	5,500	2,400	330	--	N
K2063S	58 14 53	155 31 32	--	--	4,900	4,300	27,000	9,700	1,600	250	--	N
K2064S	58 12 11	155 36 11	--	--	5,000	4,800	37,000	9,100	1,700	180	--	N
K2065S	58 11 17	155 38 0	--	--	6,000	6,700	23,000	14,000	760	220	--	N
K2066S	58 8 43	155 30 27	--	--	7,500	7,000	36,000	14,000	860	240	--	N
K2066SD	58 8 43	155 30 27	--	--	8,100	7,100	34,000	14,000	1,100	280	--	N
K2067S	58 9 4	155 35 8	--	--	6,300	5,300	23,000	12,000	590	270	--	N
K2068S	58 7 50	155 31 0	--	--	5,200	5,000	21,000	11,000	670	210	--	N
K2069S	58 7 41	155 32 8	--	--	8,900	5,900	23,000	13,000	800	360	--	N
K2070S	58 8 10	155 34 44	--	--	7,300	5,300	32,000	12,000	1,100	330	--	N
K2071S	58 6 40	155 33 9	--	--	5,400	5,300	24,000	11,000	850	270	--	N
K2072S	58 45 21	155 33 11	--	--	2,300	4,000	31,000	7,100	530	240	--	N
K2073S	58 44 17	155 22 35	--	--	4,700	3,600	34,000	8,500	1,300	330	--	N
K2074S	58 49 55	155 34 50	--	--	5,600	5,200	25,000	9,700	1,100	320	--	N
K2075S	58 49 55	155 27 0	--	--	990	2,100	11,000	5,300	830	330	--	N
K2076S	58 44 38	155 23 55	--	--	4,200	4,600	37,000	6,500	1,300	170	--	N
K2077S	58 40 58	155 22 0	--	--	1,300	5,400	36,000	6,800	1,100	280	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K2020S	N	38	110	4.1	4.7	N	--	7.7	3,500	61	21	11
K2021S	N	37	68	3.4	4.2	1.4	--	4.6	670	45	8.8	N
K2022S	N	37	79	4.3	5	N	--	12	570	130	37	8.4
K2023S	N	29	68	2.5	<2.2	.95	--	5.5	270	57	17	N
K2023SD	N	21	55	2	1.6	N	--	4.3	260	54	12	N
K2024S	N	68	67	3.3	4.9	N	--	N	1,100	84	20	8.7
K2025S	N	50	120	4.5	4.7	N	--	17	740	180	32	12
K2026S	N	29	21	4.2	6.1	.56	--	N	200	61	19	7.1
K2027S	N	26	48	2.9	3.9	N	--	N	320	82	22	11
K2028S	N	46	31	5	7	.65	--	N	250	59	23	7.2
K2029S	N	42	28	7.5	12	.64	--	N	260	84	26	8
K2030S	N	45	18	3.3	4.1	.67	--	N	250	55	21	8.2
K2030S	N	45	20	1.8	1.1	N	--	N	260	84	21	12
K2031S	N	39	28	3.4	4.6	1	--	N	310	80	26	9.5
K2032S	N	76	41	5	6.4	1.5	--	N	380	83	34	11
K2033S	N	28	20	4.8	6.7	.51	--	N	560	120	38	14
K2034S	N	26	20	3.3	4	.56	--	N	330	96	28	11
K2035S	N	110	72	3.6	3.2	.58	--	N	340	58	39	9
K2036S	N	64	46	2.9	2	N	--	N	440	130	31	12
K2037S	N	61	47	2.7	2.8	.83	--	N	260	41	23	7.8
K2038S	N	36	48	6.4	9.5	.84	--	N	240	56	24	7.3
K2039S	N	57	42	2.4	1.6	N	--	N	320	130	22	15
K2040S	N	39	18	3.7	4.7	.26	--	N	260	87	24	7.6
K2041S	N	43	19	1.7	N	N	--	N	320	110	26	19
K2042S	N	76	40	2.2	.91	N	--	N	330	66	27	13
K2043S	N	37	45	2.1	2.5	.74	--	N	210	42	14	7.5
K2044S	N	57	20	1.7	N	N	--	N	330	83	26	16
K2045S	N	17	32	2.6	3	N	--	N	270	130	31	8
K2046S	N	78	62	5.2	7.3	3.5	--	N	350	49	26	7.8
K2047S	N	120	180	6.3	8	3.3	--	N	380	63	41	12
K2048S	N	65	170	5.9	8.3	2.2	--	N	430	97	43	15
K2049S	N	55	96	4.7	5.9	2.8	--	3.9	290	43	25	6.8
K2050S	N	69	190	6.3	8.3	2.6	--	N	460	88	47	15
K2051S	N	53	130	4.5	5.9	1.8	--	N	340	71	32	9.6
K2052S	N	42	130	4.1	4.8	1.1	--	6.1	370	91	26	8.7
K2053S	N	42	65	4.4	5.3	.66	--	N	350	120	31	11
K2054S	N	34	26	4	5.2	1.1	--	N	250	49	23	5.7
K2055S	N	20	13	2	1.2	N	--	N	260	120	33	22
K2057S	N	14	30	1.8	3	.82	--	N	69	30	8.1	2.5
K2058S	N	17	15	2.6	2.5	N	--	N	270	180	27	13
K2059S	N	14	5.6	1.6	N	N	--	N	230	290	43	16
K2060S	N	10	18	1.4	1.2	N	--	4.7	98	96	17	5.9
K2061S	N	13	8.1	1.1	N	N	--	4.1	240	86	<13	11
K2062S	N	18	14	1.9	1	N	--	N	250	170	30	13
K2063S	N	34	21	2.7	2.4	N	--	N	300	110	30	10
K2064S	N	52	63	4.8	5.6	N	--	N	310	140	36	15
K2065S	N	67	94	6.7	10	1.1	--	N	300	74	26	8.4
K2066S	N	54	48	6.3	8.2	.71	--	N	390	110	32	12
K2066SD	N	47	76	4.5	5.2	N	--	7	430	69	<17	7.2
K2067S	N	76	140	6.2	9	2.1	--	N	300	71	28	7.6
K2068S	N	42	84	6.4	10	1.3	--	N	250	54	21	7
K2069S	N	66	140	6.9	9.9	2.4	--	N	300	64	35	7.9
K2070S	N	62	130	6.1	8	1.2	--	N	330	120	35	12
K2071S	N	49	92	11	17	2	--	N	280	74	26	6.6
K2072S	N	30	63	2.5	2.8	N	--	N	1,400	82	22	6.9
K2073S	N	34	53	2.5	2.9	N	--	8.3	320	150	33	9.7
K2074S	N	34	54	2.5	2.8	N	--	5.8	1,400	100	22	8.7
K2075S	N	13	16	1.5	2	.52	--	3.2	210	55	9.6	3
K2076S	N	33	82	3.6	5	N	--	N	430	120	27	11
K2077S	N	24	76	2.3	1.8	N	--	N	1,800	120	28	9.6

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K2020S	8	76	120	N	15	N	<4.9	N	N	N	N	N
K2021S	4	38	99	<.14	8.9	N	N	N	N	N	N	N
K2022S	11	23	52	N	8.2	N	<.56	N	N	N	N	N
K2023S	5.5	96	48	N	8.7	N	N	N	N	N	N	N
K2023SD	4.3	73	34	N	<2.7	N	N	N	N	N	N	N
K2024S	4.7	29	40	N	<6.8	N	.74	N	N	N	N	N
K2025S	9.2	4.8	83	N	9.2	N	N	N	N	N	N	N
K2026S	5.8	6.4	31	N	N	N	N	N	N	N	N	N
K2027S	8.6	12	47	N	N	N	N	N	N	N	N	N
K2028S	7.1	11	27	N	N	N	N	N	N	N	N	N
K2029S	6.2	8.2	32	N	N	N	N	N	N	N	N	N
K2030S	7.3	13	28	N	N	N	N	N	N	N	N	N
K2030S	7.1	12	30	N	N	N	N	N	N	N	N	N
K2031S	7.3	15	32	N	N	N	N	N	N	N	N	N
K2032S	11	19	36	N	N	N	N	N	N	N	N	N
K2033S	11	20	45	N	N	N	N	N	N	N	N	N
K2034S	6.7	14	38	N	N	N	N	N	N	N	N	N
K2035S	15	29	42	N	N	N	N	N	N	N	N	N
K2036S	8.2	27	39	N	N	N	N	N	N	N	N	N
K2037S	11	18	32	N	N	N	N	N	N	N	N	N
K2038S	8.7	18	28	N	N	N	N	N	N	N	N	N
K2039S	7.6	17	29	N	N	N	N	N	N	N	N	N
K2040S	7.4	13	31	N	N	N	N	N	N	N	N	N
K2041S	12	21	43	N	N	N	N	N	N	N	N	N
K2042S	13	32	28	N	N	N	N	N	N	N	N	N
K2043S	7.9	15	22	N	N	N	N	N	N	N	N	N
K2044S	12	16	27	N	N	N	N	N	N	N	N	N
K2045S	5.4	4.5	35	N	N	N	N	N	N	N	N	N
K2046S	15	30	57	N	<4.3	N	N	N	N	N	N	N
K2047S	19	34	59	N	<4.3	N	N	N	N	N	N	N
K2048S	18	29	63	N	<4.5	N	<.53	N	N	N	N	N
K2049S	14	28	51	.94	<4.1	N	N	N	N	N	N	N
K2050S	21	36	71	N	N	N	N	N	N	N	N	N
K2051S	13	23	48	N	N	N	N	N	N	N	N	N
K2052S	13	20	52	<1	<4.4	N	N	N	N	N	N	N
K2053S	10	16	51	N	N	N	N	N	N	N	N	N
K2054S	7.3	11	27	N	<3.1	N	N	N	N	N	N	N
K2055S	10	10	67	N	N	N	N	N	N	N	N	N
K2057S	2	17	9.3	N	N	N	N	N	N	N	N	N
K2058S	9.3	19	39	N	N	N	<.4	N	N	N	N	N
K2059S	9.1	4.6	45	N	N	N	N	N	N	N	N	N
K2060S	6.5	11	19	<.92	<2.3	N	.8	N	N	<10	N	N
K2061S	4.7	4.5	54	1.2	N	N	N	N	N	N	N	N
K2062S	7.4	26	43	N	<2	N	N	N	N	<12	N	N
K2063S	8.4	20	46	N	<2.8	N	N	N	N	N	N	N
K2064S	11	15	49	N	N	N	N	N	N	N	N	N
K2065S	28	17	49	N	N	N	N	N	N	N	N	N
K2066S	12	26	50	N	N	N	<.41	N	N	N	N	N
K2066SD	10	17	43	N	N	N	N	N	N	N	N	N
K2067S	11	22	44	N	<3.6	N	N	N	N	N	N	N
K2068S	8.3	17	32	N	N	N	N	N	N	N	N	N
K2069S	13	25	44	N	<3.8	N	N	N	N	N	N	N
K2070S	13	27	52	N	<3.4	N	N	N	N	N	N	N
K2071S	8.9	17	32	N	N	N	N	N	N	N	N	N
K2072S	4.5	3.9	23	N	N	N	.44	N	N	N	N	N
K2073S	7.9	5.8	47	<1	<4.3	N	N	N	N	N(6.7)	N	N
K2074S	4.5	4.1	43	<1.1	<3.1	N	N	N	N	N(5.8)	N	N
K2075S	2.5	3.9	19	.64	N	N	N	N	N	N(5.4)	N	N
K2076S	4.4	3.2	46	N	N	N	N	N	N	N	N	N
K2077S	4.3	8.5	25	N	N	N	1.2	N	N	N(8.4)	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K2078S	58 33 54	155 37 10	--	--	1,500	2,500	27,000	4,500	1,300	400	--	N
K2079S	58 48 27	155 43 52	--	--	1,400	1,700	17,000	3,900	730	210	--	N
K2080S	58 49 5	155 43 40	--	--	700	3,400	4,500	3,200	360	350	--	N
K2081S	58 50 50	155 43 51	--	--	1,700	1,600	19,000	5,900	940	270	--	N
K2081SD	58 50 50	155 43 51	--	--	2,900	3,500	34,000	12,000	1,900	230	--	N
K2082S	58 15 47	155 57 21	--	--	1,300	1,200	15,000	2,800	200	130	--	N
K2083S	58 8 1	156 16 10	--	--	1,700	3,400	24,000	11,000	1,500	320	--	N
K2084S	58 5 19	156 17 57	--	--	2,100	2,400	23,000	16,000	1,400	250	--	N
K2085S	58 4 34	156 19 40	--	--	2,300	2,200	23,000	14,000	1,700	280	--	N
K2086S	58 4 19	156 8 58	--	--	1,500	4,100	23,000	14,000	1,100	260	--	N
K2087S	58 4 16	156 9 18	--	--	1,600	2,800	25,000	12,000	1,500	350	--	N
K2088S	58 2 49	156 1 22	--	--	5,500	7,300	32,000	26,000	1,500	260	--	N
K2089S	58 6 22	156 5 57	--	--	1,500	5,300	36,000	14,000	2,600	740	--	N
K2090S	58 6 58	156 0 30	--	--	4,200	7,500	32,000	17,000	1,500	200	--	N
K2091S	58 4 5	155 34 59	--	--	8,100	8,000	22,000	16,000	450	310	--	N
K2092S	58 4 14	155 34 30	--	--	7,000	6,900	20,000	13,000	450	260	--	N
K2093S	58 4 27	155 34 30	--	--	8,500	7,400	22,000	15,000	480	340	--	N
K2094S	58 4 21	155 41 42	--	--	4,600	10,000	37,000	16,000	1,900	160	--	N
K2095S	58 13 21	155 54 20	--	--	4,800	4,500	41,000	13,000	950	170	--	N
K2096S	58 12 10	156 13 35	--	--	1,600	4,300	28,000	12,000	2,100	370	--	N
K2097S	58 10 9	156 8 5	--	--	2,400	5,700	24,000	11,000	1,400	250	--	N
K2098S	58 9 40	156 3 27	--	--	3,200	4,400	20,000	16,000	1,700	340	--	N
K2099S	58 12 10	156 1 30	--	--	2,400	4,300	17,000	12,000	1,600	210	--	N
K2100S	58 14 5	156 6 0	--	--	2,800	4,800	33,000	14,000	2,400	370	--	N
K2101S	58 29 12	156 17 4	--	--	2,300	4,700	16,000	18,000	1,400	510	--	N
K2102S	58 2 12	156 24 0	--	--	1,600	3,600	28,000	11,000	1,600	390	--	N
K2103S	58 3 12	156 26 22	--	--	1,600	6,400	17,000	13,000	1,300	520	--	N
K2104S	58 6 8	156 26 11	--	--	3,500	4,800	24,000	32,000	1,700	440	--	N
K2105S	58 9 42	156 27 31	--	--	1,300	1,300	20,000	21,000	1,600	420	--	N
K2106S	58 10 21	156 24 30	--	--	1,500	1,900	18,000	18,000	1,600	370	--	N
K2107S	58 32 20	156 15 15	210	230	1,900	3,600	12,000	9,000	490	390	1.9	N
K2108S	58 32 38	156 16 2	290	250	2,300	3,800	15,000	12,000	600	380	1.7	N
K2109S	58 35 23	155 17 42	--	--	2,500	7,400	19,000	14,000	1,000	280	--	N
K2110S	58 36 37	155 14 54	290	170	1,400	5,400	12,000	7,200	640	270	4.8	N
K2111S	58 34 30	155 15 3	350	120	680	3,600	12,000	3,000	790	240	2	N
K2112S	58 36 18	155 10 48	--	--	880	3,100	4,900	4,400	530	280	--	N
K2113S	58 39 0	155 10 32	330	110	2,600	4,900	14,000	6,800	510	300	5.2	N
K2114S	58 40 12	155 13 50	300	470	2,600	4,500	14,000	5,600	540	270	2.6	N
K2115S	58 40 2	155 5 39	240	170	4,500	2,800	16,000	7,100	400	240	5.1	N
K2116S	58 40 1	155 5 32	--	--	5,700	4,100	22,000	11,000	1,600	310	--	N
K2117S	58 35 21	155 5 23	380	100	490	4,200	76,000	2,400	680	N	.21	N
K2118S	58 42 0	155 6 21	430	250	9,700	7,800	26,000	14,000	310	260	6.1	N
K2119S	58 43 5	155 4 7	--	--	9,100	4,700	24,000	12,000	450	290	--	N
K2120S	58 42 50	155 1 24	--	--	3,700	2,400	33,000	7,400	1,400	430	--	N
K2121S	58 41 52	154 59 20	--	--	2,600	3,400	19,000	8,800	1,100	270	--	N
K2122S	58 44 0	154 54 45	--	--	2,200	4,300	36,000	8,400	3,300	480	--	N
K2123S	58 47 25	156 24 0	--	--	2,200	3,500	13,000	7,600	1,000	310	--	N
K2124S	58 48 24	156 23 1	220	180	1,800	3,400	14,000	6,200	460	210	1.2	N
K2125S	58 49 14	156 20 52	--	--	1,900	2,100	18,000	9,800	1,200	240	--	N
K2126S	58 49 48	156 29 38	--	--	1,800	1,100	16,000	16,000	760	380	--	N
K2127S	58 51 51	156 20 12	--	--	1,500	3,800	23,000	11,000	540	350	--	N
K2128S	58 51 8	156 18 30	320	250	1,900	3,200	11,000	6,900	610	230	1.4	N
K2129S	58 49 33	156 18 0	--	--	1,900	3,100	8,500	9,200	690	300	--	N
K2130S	58 48 4	156 12 0	310	220	1,500	3,400	9,200	7,800	570	570	1.7	N
K2131S	58 46 42	156 4 55	--	--	1,700	2,300	14,000	9,000	1,400	380	--	N
K2131SD	58 46 42	156 4 55	--	--	2,200	3,500	30,000	12,000	1,400	250	--	N
K2132S	58 50 19	156 4 38	280	200	1,700	4,200	18,000	7,000	530	500	1.4	N
K2133S	58 52 17	156 0 45	250	210	2,200	4,400	39,000	7,500	900	550	1.3	N
K2134S	58 52 12	156 7 10	290	290	2,700	4,500	38,000	11,000	740	300	1.8	N
K2135S	58 52 21	156 7 11	240	270	2,700	3,900	26,000	6,500	880	400	1.2	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K2078S	N	14	33	2.8	3.7	N	--	5.1	410	100	<14	6
K2079S	N	11	19	1.9	2.1	N	--	4.1	180	81	15	3.2
K2080S	N	17	18	1.4	1.8	1.4	--	1.4	51	28	9.1	N
K2081S	N	15	22	2.5	3.3	N	--	4.7	220	79	14	3.9
K2081SD	N	25	34	3.6	3.8	N	--	8.3	370	100	<13	5.3
K2082S	N	5.7	12	1.1	1.3	N	--	2.2	130	42	<7	2.2
K2083S	N	29	49	2.9	4.2	N	--	6.2	710	77	<12	6.9
K2084S	N	27	95	3.5	6.6	.51	--	N	550	90	20	11
K2085S	N	23	66	2.7	3.7	N	--	6.2	420	86	<13	7.3
K2086S	N	35	66	3.4	5.2	N	--	N	350	64	17	7.2
K2087S	N	26	56	2.8	4.2	N	--	5.8	1,100	74	<9.6	6.2
K2088S	N	53	67	4	4.9	N	--	N	460	110	26	14
K2089S	N	33	65	3	2.4	N	--	N	1,600	130	<16	9.5
K2090S	N	49	42	2.5	1.6	N	--	N	300	120	26	12
K2091S	N	63	110	6.5	9.4	1.6	--	N	310	58	31	6.9
K2092S	N	56	95	6	9	1.3	--	N	250	59	28	6
K2093S	N	68	120	5.9	8.2	1.6	--	N	290	64	30	7.4
K2094S	N	66	58	3.8	3.6	N	--	N	560	190	37	13
K2095S	N	30	33	3.8	4.5	.22	--	N	460	110	27	12
K2096S	N	31	69	3.5	5.3	N	--	N	870	82	<16	5.7
K2097S	N	26	44	2.6	2.6	N	--	N	1,300	72	16	6.8
K2098S	N	37	85	3.4	3.6	.66	--	N	190	59	16	4
K2099S	N	34	63	4.4	6.6	1.2	--	N	210	70	16	4.5
K2100S	N	32	70	5	6.1	N	--	N	280	91	24	8.4
K2101S	N	40	79	3.9	5.8	3.4	--	N	330	63	15	3.1
K2102S	N	25	49	3.3	3.9	N	--	N	220	69	<16	5.9
K2103S	N	38	45	2.9	3.5	.52	--	N	310	68	13	4.7
K2104S	N	45	140	6	11	4.9	--	N	590	78	25	8.4
K2105S	N	16	65	3.3	4.1	2.2	--	N	860	62	15	6.7
K2106S	N	20	64	3.2	5.1	1.8	--	N	270	59	11	4.9
K2107S	.32	30	70	3	5.2	4.3	2.4	N	310	39	8.6	4.5
K2108S	.38	32	76	3.1	4.9	4.2	2.8	N	910	50	11	6.7
K2109S	N	32	36	2.1	1.7	.92	--	N	250	83	15	4.8
K2110S	.28	16	16	3.1	N	5	N	N	200	44	11	4.4
K2111S	.25	14	8.6	1.4	N	3.6	N	N	120	57	5.8	3.9
K2112S	N	13	13	1.8	1.2	3.5	--	N	54	31	6.9	N
K2113S	.27	16	14	1.6	N	3.7	N	N	290	47	12	5.6
K2114S	.24	15	35	2.2	N	3.5	N	N	200	44	9.3	5.5
K2115S	.26	12	12	1	N	2.8	N	N	270	44	18	7.1
K2116S	N	17	14	1.5	N	N	--	N	310	83	26	6.5
K2117S	.25	15	21	N	N	3.8	1	N	540	62	4	5.3
K2118S	.38	59	22	2.1	N	3.9	N	N	450	62	20	12
K2119S	N	20	13	2.9	2.9	1.6	--	N	460	55	24	7.6
K2120S	N	13	61	2.9	2.6	N	--	N	200	130	50	9.2
K2121S	N	29	57	1.3	N	N	--	N	150	78	22	5.5
K2122S	N	17	14	2.1	1.9	N	--	N	500	160	23	12
K2123S	N	29	62	3.6	6.1	1.1	--	N	240	56	19	6.3
K2124S	.23	25	56	2.3	N	3	2.1	N	290	35	8.6	5.1
K2125S	N	20	41	3.2	5.4	.3	--	N	300	95	27	10
K2126S	N	13	59	2.5	4.2	N	--	N	190	51	18	4.8
K2127S	N	26	87	2.8	4.5	N	--	4.5	1,200	39	10	5.3
K2128S	.22	25	53	2.7	N	2.9	2.8	N	140	34	9.6	4.4
K2129S	N	29	77	3	5.2	1.6	--	N	150	41	14	3
K2130S	.21	25	65	3.1	4.7	2.6	1.9	N	340	31	8.3	3.5
K2131S	N	22	47	2.1	2.6	N	--	N	200	79	22	4.2
K2131SD	N	23	48	2.5	2.5	N	--	6.5	270	78	<17	3.9
K2132S	.24	33	75	2.1	N	3	2.1	N	1,200	40	6.5	7.3
K2133S	.48	32	76	2.6	N	4.1	2.8	N	2,500	100	15	9.2
K2134S	.5	39	93	2.7	4.6	4.3	4.5	N	1,900	92	15	11
K2135S	.45	37	74	2.9	N	4.8	4	N	810	93	17	8.1

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K2078S	3.7	4	31	<1	<5	N	N	N	N	<10	N	N
K2079S	3.8	2.1	21	<.75	N	N	N	N	N	<5.2	N	N
K2080S	1.3	5.6	11	.37	N	N	N	N	N	<8.8	N	N
K2081S	4	2.3	31	<.82	<2.9	N	N	N	N	N(7.2)	N	N
K2081SD	4.9	2.9	38	N	N	N	N	N	N	N	N	N
K2082S	1.1	.81	14	.65	N	N	N	N	N	<4.1	N	N
K2083S	4.5	3.3	34	<.8	<6.1	N	N	N	N	N	N	N
K2084S	6.4	10	43	N	<6.6	N	.61	N	N	N	N	N
K2085S	6.9	8.8	35	<.95	<3.2	N	N	N	N	N	N	N
K2086S	3.8	4.6	27	N	N	N	.45	N	N	N	N	N
K2087S	3.9	4.8	29	<.83	<4.3	N	N	N	N	N	N	N
K2088S	9.7	22	38	N	N	N	N	N	N	N	N	N
K2089S	3.1	2.1	41	N	N	N	N	N	N	N	N	N
K2090S	9.6	9.5	36	N	N	N	N	N	N	N	N	N
K2091S	13	27	42	N	N	N	N	N	N	N	N	N
K2092S	13	21	37	N	N	N	N	N	N	N	N	N
K2093S	13	26	43	N	N	N	N	N	N	N	N	N
K2094S	9.7	19	48	N	N	N	N	N	N	N	N	N
K2095S	4.4	10	43	N	N	N	N	N	N	N	N	N
K2096S	2.8	2.9	34	N	N	N	N	N	N	N	N	N
K2097S	3.9	8.7	32	N	N	N	.54	N	N	N	N	N
K2098S	5	5.6	34	N	N	N	N	N	N	N	N	N
K2099S	4.3	3.7	33	N	N	N	N	N	N	N	N	N
K2100S	7.4	7.2	34	N	N	N	.78	N	N	N	N	N
K2101S	3.9	6.7	31	N	N	N	N	N	N	N	N	N
K2102S	4.6	14	22	N	N	N	.41	N	N	N	N	N
K2103S	4.5	5.5	23	N	N	N	N	N	N	N	N	N
K2104S	9.6	17	46	N	N	N	N	N	N	N	N	N
K2105S	3.6	8.4	37	N	N	N	.53	N	N	N	N	N
K2106S	3.6	7.8	33	N	N	N	.42	N	N	N	N	N
K2107S	4.7	7.7	33	N	N	N	N	N	N	7.7	N	N
K2108S	6.2	8	41	N	12	N	N	12	N	10	N	N
K2109S	3.4	13	36	N	N	N	N	N	N	N	N	N
K2110S	7.9	19	24	N	N	N	N	N	N	12	N	N
K2111S	4	7.8	21	N	N	N	N	9.3	N	5.9	N	N
K2112S	3	9.9	15	N	N	N	N	N	N	N	N	N
K2113S	7.9	11	30	N	10	N	N	11	N	14	N	N
K2114S	6.2	23	29	N	N	N	N	N	N	39	N	N
K2115S	11	13	27	N	9.4	N	N	11	N	8.1	N	N
K2116S	8.6	12	29	N	N	N	N	N	N	N	N	N
K2117S	5	6.6	21	N	8.2	N	N	N	N	16	N	N
K2118S	31	20	52	N	14	N	N	9.8	N	11	N	N
K2119S	13	20	33	N	N	N	N	N	N	N	N	N
K2120S	8.8	71	25	N	N	N	1.3	N	N	<20	N	N
K2121S	6.5	18	22	N	N	N	N	N	N	N	N	N
K2122S	5.4	7.2	39	N	N	N	N	N	N	N	N	N
K2123S	4.6	3.6	25	N	<2.2	N	.61	<4.1	N	N	N	N
K2124S	5.5	4.7	27	N	N	N	N	9.5	N	8	N	N
K2125S	6.6	3.8	33	N	<4.8	N	1.5	N	N	N	N	N
K2126S	5.6	5.5	30	N	N	N	.43	N	N	N	N	N
K2127S	3.1	28	24	N	4.5	N	N	N	N	N	N	N
K2128S	5.4	5.1	25	N	N	N	N	N	N	7.2	N	N
K2129S	5.2	4.6	22	N	N	N	N	N	N	N	N	N
K2130S	4.5	4.8	24	N	N	N	N	N	N	12	N	N
K2131S	4.7	3.2	26	N	N	N	N	N	N	N	N	N
K2131SD	5	2.2	29	N	N	N	N	N	N	N	N	N
K2132S	4.6	4.2	40	N	N	N	N	10	N	14	N	N
K2133S	7.6	8.7	44	N	9.2	N	N	10	N	18	N	N
K2134S	8.5	9.2	45	N	11	N	N	11	N	13	N	N
K2135S	9.2	8	41	N	8.5	N	N	9.5	N	10	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K2136S	58 53 2	156 13 56	--	--	2,100	3,200	11,000	11,000	780	400	--	N
K2137S	58 56 7	156 17 38	210	180	1,300	2,800	11,000	5,000	240	440	1.2	N
K2138S	58 57 25	156 8 37	--	--	1,500	2,400	13,000	12,000	540	760	--	N
K2139S	58 58 0	156 6 56	150	220	2,100	2,600	15,000	12,000	460	520	1.9	N
K2140S	58 57 49	156 4 18	230	220	2,100	3,200	24,000	9,200	1,200	280	1.7	N
K2141S	58 57 52	156 4 30	210	260	2,200	2,800	16,000	9,000	530	310	1.9	N
K2142S	58 43 19	155 8 30	--	--	2,800	3,500	23,000	8,600	1,200	220	--	N
K2143S	58 44 31	155 10 30	--	--	1,700	2,300	16,000	5,200	640	190	--	N
K2144S	58 43 57	155 13 0	230	220	2,200	3,100	31,000	6,800	N	N	3	N
K2145S	58 47 50	155 12 30	280	260	2,300	3,100	23,000	5,000	N	N	1.7	N
K2146S	58 49 17	155 14 11	--	--	1,600	1,200	16,000	8,200	900	360	--	N
K2147S	58 52 39	155 17 11	370	230	2,700	5,600	22,000	8,900	N	N	1.6	N
K2147SD	58 52 39	155 17 11	--	--	2,900	5,900	32,000	14,000	2,700	280	--	N
K2148S	58 52 45	155 17 0	--	--	2,200	4,100	24,000	9,800	2,100	360	--	N
K2149S	58 53 44	155 23 30	--	--	2,300	6,000	66,000	9,900	1,400	350	--	N
K2150S	58 46 54	155 54 5	240	270	3,400	3,400	30,000	8,700	N	N	2	N
K2151S	58 53 8	155 24 35	--	--	1,300	1,900	21,000	5,400	1,200	260	--	N
K2152S	58 46 23	155 51 48	--	--	4,100	3,600	38,000	11,000	1,600	360	--	N
K2153S	58 59 4	155 58 35	--	--	2,200	4,900	13,000	9,100	470	270	--	N
K2154S	58 58 27	155 57 13	--	--	1,200	2,100	6,500	7,000	420	140	--	N
K2155S	58 55 30	155 54 5	--	--	1,400	2,900	20,000	11,000	290	610	--	N
K2156S	58 55 18	155 50 57	--	--	1,800	1,600	18,000	5,900	1,200	300	--	N
K2501S	58 19 34	155 17 15	--	--	2,000	3,300	64,000	4,500	5,600	330	--	N
K2502S	58 18 47	155 16 28	--	--	2,000	3,400	45,000	5,200	4,500	300	--	N
K2503S	58 16 43	155 16 21	460	190	3,000	3,700	120,000	6,000	N	N	2.6	51
K2504S	58 15 57	155 16 25	--	--	2,400	4,400	20,000	6,600	1,400	86	--	N
K2505S	58 15 51	155 11 58	--	--	1,000	2,200	27,000	5,800	2,300	210	--	N
K2506S	58 17 12	155 10 16	--	--	1,200	3,200	24,000	5,900	1,900	78	--	N
K2507S	58 16 58	155 5 5	740	150	2,400	4,000	110,000	6,200	N	N	.98	57
K2508S	58 18 16	155 4 40	--	--	1,400	2,700	71,000	3,200	4,200	250	--	N
K2509S	58 18 30	155 5 10	--	--	1,500	2,400	51,000	3,200	5,300	260	--	N
K2510S	58 18 49	155 7 15	--	--	2,200	4,200	37,000	6,600	3,200	120	--	N
K2511S	58 19 20	155 9 11	--	--	740	1,300	27,000	1,600	2,200	130	--	N
K2512S	58 21 0	155 11 11	--	--	670	1,100	27,000	1,700	820	48	--	N
K2513S	58 21 0	155 11 21	--	--	1,300	2,100	45,000	2,900	3,700	220	--	N
K2514S	58 20 45	155 12 40	--	--	2,000	3,000	24,000	5,500	1,500	79	--	N
K2515S	58 20 48	155 14 1	--	--	1,200	2,800	20,000	5,400	1,600	110	--	N
K2516S	58 21 39	155 15 40	380	83	2,800	2,700	140,000	4,000	N	N	1.2	40
K2517S	58 22 10	155 17 0	--	--	1,600	2,000	57,000	2,200	1,800	97	--	N
K2518S	58 24 8	155 23 51	360	340	5,800	5,200	48,000	11,000	N	N	10	62
K2519S	58 25 55	155 12 6	--	--	3,300	4,000	61,000	5,900	1,900	94	--	N
K2520S	58 26 48	155 11 50	--	--	3,300	4,400	32,000	20,000	2,100	180	--	N
K2521S	58 25 42	155 8 32	280	130	2,000	3,000	90,000	3,000	N	N	1.9	46
K2522S	58 25 40	155 8 45	--	--	2,900	5,300	100,000	9,000	6,200	420	--	N
K2523S	58 26 20	155 0 50	--	--	1,900	4,800	27,000	10,000	2,200	250	--	N
K2524S	58 25 28	155 1 55	450	150	3,200	3,400	97,000	5,700	N	N	3.1	58
K2525S	58 24 40	155 0 35	--	--	9,200	6,200	27,000	17,000	1,200	330	--	N
K2526S	58 22 36	154 58 47	450	220	3,200	3,000	140,000	5,000	N	N	.88	52
K2527S	58 21 43	154 58 22	--	--	1,000	1,600	23,000	1,800	2,400	190	--	N
K2527SD	58 21 43	154 58 22	--	--	1,200	1,800	31,000	2,600	2,000	140	--	N
K2528S	58 20 41	154 57 18	--	--	2,200	2,300	31,000	4,300	2,100	180	--	N
K2529S	58 20 12	154 55 15	--	--	3,700	5,600	51,000	7,000	4,300	310	--	N
K2530S	58 19 32	154 59 10	--	--	1,700	3,500	27,000	4,200	2,300	150	--	N
K2531S	58 19 36	154 59 22	--	--	1,200	2,000	29,000	2,400	2,500	160	--	N
K2532S	58 20 9	154 59 10	--	--	1,900	2,600	79,000	3,200	5,000	160	--	N
K2533S	58 22 2	155 33 1	--	--	4,400	4,800	46,000	9,200	3,700	290	--	N
K2534S	58 22 5	155 33 12	--	--	3,200	2,800	38,000	9,300	2,700	200	--	N
K2535S	58 21 58	155 30 42	--	--	2,800	3,300	36,000	5,800	2,900	360	--	N
K2536S	58 25 48	155 29 50	--	--	3,200	3,500	31,000	7,500	2,900	360	--	N
K2537S	58 25 54	155 29 52	450	210	4,200	3,200	40,000	7,800	N	N	5.5	64

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K2136S	N	26	49	2.6	4.4	.71	--	N	300	48	18	6
K2137S	.19	18	44	2.8	N	2.7	.97	N	400	25	7.2	3.7
K2138S	N	21	66	2.4	4	.57	--	N	450	43	16	4.2
K2139S	.41	19	79	3.4	6.8	4.3	2.6	N	250	52	13	4.8
K2140S	.44	19	50	2.2	N	2.9	2.6	N	380	91	20	6.4
K2141S	.31	21	65	3	N	3	1.4	N	340	45	12	4.6
K2142S	N	15	27	2.4	2.8	N	--	7.9	240	92	17	6.4
K2143S	N	10	14	1.8	2.5	.48	--	N	150	91	17	6.5
K2144S	.49	N	27	2.7	N	N	N	N	210	N	19	5.6
K2145S	.38	N	46	3.8	5.5	N	N	N	270	N	14	6.7
K2146S	N	11	26	2.1	3.5	N	--	N	210	86	21	6.6
K2147S	.46	N	77	5.1	8.3	N	N	N	560	N	10	7.1
K2147SD	N	36	71	3.5	3.5	N	--	8.4	630	100	<13	5.9
K2148S	N	28	55	3.5	5.3	N	--	N	470	120	25	9.1
K2149S	10	50	110	2.9	<1.3	N	--	11	3,300	140	26	13
K2150S	.52	N	49	3.9	5.3	N	N	N	370	N	18	7.9
K2151S	N	13	28	2	2.6	N	--	N	400	120	30	6.8
K2152S	N	22	50	4.2	5.8	N	--	N	400	190	44	11
K2153S	N	29	71	2.4	3.4	.9	--	4.1	330	40	11	N
K2154S	N	17	43	1.7	2.7	.48	--	3.2	84	23	8.7	<3.3
K2155S	N	22	76	2.9	4.3	.98	--	8.5	480	99	19	<3.1
K2156S	N	11	26	1.7	1.7	N	--	N	290	88	18	5.3
K2501S	N	14	11	2.6	N	N	--	N	350	280	<29	21
K2502S	N	18	19	2.4	1.4	N	--	N	290	250	34	18
K2503S	N	N	12	1.8	N	4.9	4.5	N	790	N	35	25
K2504S	N	16	16	2.1	2.3	N	--	6.6	200	79	14	7.9
K2505S	N	19	19	1.6	.96	N	--	N	150	150	23	9.4
K2506S	N	17	14	N	N	N	--	6.9	170	96	<11	6.4
K2507S	N	N	13	N	N	4.2	3.9	N	610	N	27	22
K2508S	N	11	6.4	2.6	.98	N	--	N	300	270	<34	20
K2509S	N	10	9.1	2.2	1.1	N	--	N	370	270	34	23
K2510S	N	17	16	1.9	1	N	--	11	310	150	<17	13
K2511S	N	6.2	2.8	1.1	N	N	--	N	200	140	20	11
K2512S	N	6.4	4.5	N	N	N	--	N	170	61	19	6.9
K2513S	N	11	8.1	1.9	1	N	--	N	300	210	29	18
K2514S	N	15	13	2	2.2	N	--	5.8	250	75	<10	9.2
K2515S	N	14	15	1.5	1.9	N	--	6.9	190	88	<11	8
K2516S	N	N	6.2	1.4	N	5.7	5.3	N	880	N	37	30
K2517S	N	6.1	3.9	1.1	N	N	--	N	500	100	37	24
K2518S	N	N	20	2.3	N	4.7	3.5	N	450	N	28	11
K2519S	N	23	31	2.6	<1.1	N	--	7.6	440	90	16	18
K2520S	N	42	51	2.3	2.1	N	--	N	300	160	33	11
K2521S	N	N	10	2.3	6.1	6.7	3.6	N	550	N	26	17
K2522S	N	27	24	2.9	N	N	--	N	420	280	N(16)	15
K2523S	N	22	15	2	1.4	.14	--	N	230	150	20	6.8
K2524S	N	N	9.5	1.4	N	5.3	3.8	N	670	N	26	23
K2525S	N	38	35	3.3	3.9	.58	--	N	490	85	37	14
K2526S	N	N	10	1.4	N	6.2	5.1	N	890	N	40	31
K2527S	N	8.7	8.7	N	N	N	--	N	220	130	15	8.9
K2527SD	N	9.8	10	N	N	N	--	6.8	210	96	<9.5	7.1
K2528S	N	17	21	1.6	N	N	--	N	270	150	33	13
K2529S	N	29	12	3.1	2.5	N	--	N	410	270	57	21
K2530S	N	17	7.1	1.4	N	N	--	N	250	150	28	14
K2531S	N	9.5	6.5	1.3	N	N	--	N	220	160	20	13
K2532S	N	10	33	1.8	N	N	--	N	470	300	<33	25
K2533S	N	35	41	3.6	3.3	N	--	N	400	230	43	19
K2534S	N	21	23	3.2	3.7	4.2	--	N	430	180	46	29
K2535S	N	22	17	1.9	1.1	N	--	N	280	160	29	9.7
K2536S	N	17	13	2.5	2.8	N	--	N	330	150	34	13
K2537S	N	N	14	1.8	N	3.6	2.1	N	400	N	21	9.6

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K2136S	5	4.8	27	N	<2.8	N	.63	<3.2	N	N	N	N
K2137S	4	7.1	24	N	N	N	N	N	N	11	N	N
K2138S	3.4	3.6	25	N	N	N	N	N	N	N	N	N
K2139S	6.9	6.2	33	N	9.8	N	N	10	N	10	N	N
K2140S	8.1	5.2	38	N	8.9	N	N	9.9	N	8.7	N	N
K2141S	5.8	5.8	32	N	N	N	N	N	N	8.2	N	N
K2142S	3.6	61	24	N	<2.9	N	N	N	N	N	N	N
K2143S	3.3	7.1	18	N	N	N	.58	N	N	N(6.1)	N	N
K2144S	N	9.7	N	N	N	N	N	N	N	16	N	N
K2145S	N	11	N	N	N	N	N	N	N	8.8	N	N
K2146S	3.7	6.2	31	N	<3.6	N	.79	<3.9	N	N	N	N
K2147S	N	13	N	N	N	N	N	N	N	9.4	N	N
K2147SD	3.8	7.8	51	N	N	N	N	N	N	N	N	N
K2148S	4.2	4.2	57	N	<2.8	N	1	N	N	N	N	N
K2149S	4.2	9.4	45	N	N	N	N	N	N	N	N	N
K2150S	N	9.4	N	N	N	N	N	N	N	9.6	N	N
K2151S	4.3	2.8	30	<.34	N	N	.61	<6.4	N	N	N	N
K2152S	9.3	9.2	31	N	N	N	.74	N	N	N	N	N
K2153S	3.1	39	21	N	<3.5	N	N	N	N	N	N	N
K2154S	2.5	4.4	13	N	4.6	N	N	N	N	N	N	N
K2155S	2.7	7.6	25	N	<2	N	N	N	N	N	N	N
K2156S	4.2	2.8	27	N	N	N	N	N	N	N	N	N
K2501S	6.2	6.2	67	N	N	N	N	N	N	N	N	N
K2502S	7.8	13	56	N	N	N	<.48	N	N	N	N	N
K2503S	N	13	140	N	N	N	N	N	N	N	N	N
K2504S	5.2	7.8	29	N	N	N	N	N	N	N	N	N
K2505S	3.5	8.5	34	N	N	N	N	N	N	N	N	N
K2506S	2.1	3.1	29	N	N	N	N	N	N	N	N	N
K2507S	N	25	97	N	N	N	N	N	N	9.7	N	N
K2508S	6.5	4.9	70	N	N	N	N	N	N	N	N	N
K2509S	6	7.7	77	N	N	N	N	N	N	N	N	N
K2510S	5.2	4.8	50	N	N	N	N	N	N	N	N	N
K2511S	3.1	3.3	39	N	N	N	N	N	N	N	N	N
K2512S	2.9	3	33	N	N	N	N	N	N	N	N	N
K2513S	5.2	7.6	60	N	N	N	N	N	N	N	N	N
K2514S	4.7	7.8	41	N	N	N	N	N	N	N	N	N
K2515S	3.4	6.6	30	N	N	N	N	N	N	N	N	N
K2516S	N	13	160	N	N	N	N	N	N	N	N	N
K2517S	5.9	1.5	83	N	N	N	N	N	N	N	N	N
K2518S	N	18	50	N	N	N	N	N	N	N	N	N
K2519S	7.5	6.7	85	N	N	N	N	N	N	N	N	N
K2520S	9	15	44	N	N	N	N	N	N	N	N	N
K2521S	N	15	93	N	N	N	N	N	N	N	N	N
K2522S	7.6	4.8	68	N	N	N	N	N	N	N	N	N
K2523S	4.6	15	37	N	N	N	N	N	N	N	N	N
K2524S	N	14	120	N	N	N	N	N	N	N	N	N
K2525S	15	36	97	N	33	N	N	N	N	N	N	N
K2526S	N	38	160	N	N	N	N	N	N	N	N	N
K2527S	4.8	13	57	N	<2.2	N	N	N	N	N	N	N
K2527SD	3.7	8.9	44	N	N	N	N	N	N	N	N	N
K2528S	7.3	18	48	N	<2.1	N	N	N	N	N	N	N
K2529S	12	14	76	N	N	N	N	N	N	N	N	N
K2530S	5.6	12	58	N	<2.1	N	N	N	N	N	N	N
K2531S	4.5	11	50	N	N	N	N	N	N	N	N	N
K2532S	8.3	180	400	N	38	N	N	N	N	N	N	N
K2533S	10	13	65	N	N	N	<.55	N	N	N	N	N
K2534S	11	390	72	N(.5)	N	N	N	N	N	N	N	N
K2535S	7	5.2	45	N	N	N	N	N	N	N	N	N
K2536S	6.5	7.6	39	N	N	N	.46	N	N	N	N	N
K2537S	N	13	37	N	N	N	N	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K2538S	58 19 42	155 27 20	--	--	3,200	3,900	57,000	7,100	4,400	410	--	N
K2539S	58 18 40	155 27 50	--	--	1,600	2,300	30,000	3,900	2,700	260	--	N
K2540S	58 17 37	155 31 50	440	210	3,100	3,300	62,000	6,600	N	N	4.1	60
K2541S	58 17 10	155 35 24	--	--	2,500	3,700	31,000	3,300	1,700	270	--	N
K2542S	58 17 50	155 39 0	--	--	3,600	3,400	24,000	7,500	1,500	260	--	N
K2543S	58 22 5	155 38 50	--	--	2,100	3,300	31,000	7,100	1,700	220	--	N
K2544S	58 21 58	155 38 30	--	--	2,600	3,800	22,000	8,000	1,600	270	--	N
K2545S	58 22 25	155 37 52	--	--	3,200	4,600	25,000	9,200	1,900	260	--	N
K2546S	58 29 12	155 31 20	--	--	4,800	5,100	24,000	9,700	1,400	340	--	N
K2547S	58 29 36	155 30 0	--	--	2,400	4,200	14,000	7,100	750	320	--	N
K2548S	58 28 8	155 20 32	--	--	5,200	6,000	35,000	12,000	2,100	170	--	N
K2549S	58 27 8	155 16 48	--	--	6,000	6,800	25,000	11,000	1,400	130	--	N
K2550S	58 29 30	155 10 23	--	--	1,700	2,700	84,000	5,200	3,900	160	--	N
K2551S	58 27 22	155 0 25	--	--	3,300	2,500	19,000	13,000	1,100	260	--	N
K2552S	58 25 35	154 58 5	660	130	620	2,700	8,900	3,500	N	N	.61	80
K2553S	58 23 50	154 54 45	--	--	1,300	2,300	21,000	3,000	1,400	130	--	N
K2554S	58 25 0	154 52 10	--	--	2,400	4,500	27,000	3,900	1,900	210	--	N
K2554SD	58 25 0	154 52 10	--	--	5,800	13,000	63,000	11,000	3,700	450	--	N
K2555S	58 24 52	154 52 30	400	230	2,800	3,100	84,000	4,500	N	N	2.1	61
K2556S	58 24 52	154 52 57	--	--	2,400	2,500	34,000	3,800	2,700	230	--	N
K2557S	58 23 38	154 48 6	620	190	3,500	4,200	110,000	6,000	N	N	2.4	47
K2558S	58 23 55	154 45 43	--	--	1,600	4,000	32,000	4,600	2,300	210	--	N
K2559S	58 25 16	154 45 40	--	--	2,400	3,500	52,000	4,400	4,600	280	--	N
K2560S	58 27 0	154 46 1	--	--	1,900	2,600	89,000	3,800	5,200	260	--	N
K2561S	58 29 40	154 52 41	--	--	2,300	2,700	67,000	3,900	4,400	250	--	N
K2561SD	58 29 40	154 52 41	--	--	5,000	4,100	85,000	7,400	5,000	440	--	N
K2562S	58 24 0	154 37 48	--	--	4,300	2,500	29,000	7,400	1,100	140	--	N
K2563S	58 22 30	154 41 10	--	--	1,100	1,500	29,000	3,600	1,700	100	--	N
K2564S	58 22 40	154 41 20	--	--	1,200	1,800	61,000	3,900	4,100	160	--	N
K2565S	58 26 39	154 37 21	--	--	2,900	4,900	28,000	7,100	2,300	210	--	N
K2566S	58 30 8	154 42 30	--	--	9,100	10,000	32,000	17,000	1,900	170	--	N
K2567S	58 32 38	154 40 20	--	--	5,600	5,600	41,000	16,000	2,200	180	--	N
K2568S	58 32 27	154 38 56	--	--	7,600	5,900	37,000	17,000	1,700	330	--	N
K2569S	58 31 0	154 33 18	--	--	11,000	8,500	37,000	16,000	1,900	370	--	N
K2570S	58 31 10	154 33 22	--	--	11,000	9,300	34,000	18,000	1,900	190	--	N
K2571S	58 30 55	155 2 27	--	--	8,100	5,900	70,000	15,000	4,100	180	--	N
K2572S	58 30 48	154 57 34	--	--	3,900	3,900	27,000	6,300	1,600	110	--	N
K2573S	58 32 14	154 54 25	--	--	3,100	5,900	44,000	9,700	2,800	150	--	N
K2574S	58 34 16	154 39 31	--	--	8,400	6,600	46,000	17,000	2,100	220	--	N
K2575S	58 34 27	154 35 57	--	--	9,000	7,800	49,000	16,000	1,700	110	--	N
K2576S	58 34 42	154 36 27	--	--	9,600	8,600	34,000	17,000	1,500	230	--	N
K2577S	58 37 33	154 34 26	--	--	14,000	8,500	35,000	24,000	930	290	--	N
K2578S	58 37 30	154 34 24	--	--	12,000	8,300	40,000	22,000	1,300	230	--	N
K2578SD	58 37 30	154 34 24	--	--	9,900	6,500	35,000	17,000	1,100	260	--	N
K2579S	58 31 48	154 29 39	--	--	3,700	5,400	26,000	11,000	1,300	120	--	N
K2580S	58 35 59	154 28 23	--	--	6,800	6,400	25,000	11,000	410	190	--	N
K2581S	58 35 5	155 32 48	--	--	2,000	3,400	39,000	7,300	1,400	150	--	N
K2582S	58 34 51	155 29 20	--	--	3,600	5,300	74,000	11,000	2,400	180	--	N
K2583S	58 32 28	155 27 30	--	--	6,100	7,700	50,000	13,000	1,700	550	--	N
K2584S	58 30 0	155 28 30	--	--	2,800	4,300	33,000	7,700	1,800	260	--	N
K2584SD	58 30 0	155 28 30	--	--	2,200	3,300	27,000	5,300	1,800	170	--	N
K2585S	58 40 18	155 47 0	--	--	2,800	7,000	50,000	13,000	2,100	230	--	N
K2586S	58 41 52	155 48 1	--	--	1,900	3,600	34,000	8,300	2,800	150	--	N
K2587S	58 44 42	156 5 33	--	--	1,900	4,500	68,000	11,000	580	950	--	N
K2588S	58 47 49	155 58 10	--	--	3,500	7,300	27,000	29,000	1,700	450	--	N
K2589S	58 48 38	155 59 20	--	--	2,700	5,200	20,000	22,000	1,100	480	--	N
K2590S	58 49 20	155 58 52	--	--	3,500	7,000	62,000	20,000	2,400	310	--	N
K2591S	58 50 5	155 55 5	--	--	2,300	2,900	30,000	23,000	1,200	360	--	N
K2592S	58 48 50	155 53 1	--	--	3,700	3,100	36,000	14,000	1,600	400	--	N
K2593S	58 49 0	155 52 30	--	--	5,100	4,400	76,000	13,000	3,600	250	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K2538S	N	20	9.7	2.4	N	N	--	N	340	200	<25	12
K2539S	N	12	5.9	1.5	1.2	N	--	N	240	140	23	11
K2540S	N	N	12	1.4	N	4.1	3.1	N	440	N	22	14
K2541S	N	26	11	2.4	2.5	N	--	N	210	150	30	9.3
K2542S	N	19	13	2.2	2.9	N	--	N	210	130	27	8.4
K2543S	N	15	15	1.7	1.1	N	--	N	260	110	24	8
K2544S	N	25	24	2.3	1.9	N	--	N	440	120	29	8.2
K2545S	N	24	20	2.3	2	N	--	N	270	120	27	8
K2546S	N	21	22	2.4	2	N	--	N	270	110	29	7.4
K2547S	N	21	13	1.4	1.2	.95	--	N	200	65	19	5.3
K2548S	N	45	22	3.3	2.7	N	--	N	300	170	34	12
K2549S	N	37	28	2.4	2.7	N	--	7.5	300	79	16	10
K2550S	N	16	18	2.6	N	N	--	N	410	220	<33	19
K2551S	N	30	65	3.3	5.7	1.5	--	N	280	75	24	11
K2552S	N	N	8.1	N	N	2.3	1.4	N	83	N	5.9	3.1
K2553S	N	9.6	6.7	1.1	N	N	--	N	200	89	15	7.5
K2554S	N	16	7.6	1.6	.95	N	--	N	240	120	23	10
K2554SD	N(.02)	41	18	3.5	2	N(.08)	--	N	430	230	47	16
K2555S	N	N	26	1.3	N	5	2.5	N	560	N	22	20
K2556S	9.2	24	11	1.5	1	N	--	N	310	170	29	14
K2557S	3.3	N	9.9	1.7	N	5.5	4.6	N	710	N	42	23
K2558S	N	16	10	1.4	N	N	--	N	210	140	<19	7.7
K2559S	N	12	8.9	2.1	N	N	--	N	410	220	35	24
K2560S	N	10	6.7	1.9	N	N	--	N	360	290	54	19
K2561S	N	8.1	4.4	1.3	N	N	--	N	430	210	<33	19
K2561SD	N(.04)	18	10	N	N(3.6)	N(.16)	--	N	570	390	78	22
K2562S	N	11	19	2.2	<2.3	N	--	7.1	240	84	12	8.8
K2563S	N	10	33	1.1	N	N	--	N	240	110	26	11
K2564S	N	11	95	1.6	N	N	--	17	290	200	34	12
K2565S	N	41	30	2.2	1.6	N	--	N	260	140	35	11
K2566S	N	55	53	3.8	4.4	N	--	9.9	400	94	25	13
K2567S	N	41	100	3.8	4	N	--	12	490	130	25	13
K2568S	N	53	230	5	6.9	1.7	--	N	590	140	40	15
K2569S	N	60	83	3.6	3.6	N	--	N	430	110	41	13
K2570S	N	59	96	4.3	5.3	N	--	9.4	440	82	31	13
K2571S	N	58	100	5.2	3.9	N	--	23	590	260	36	18
K2572S	N	18	32	2.7	3.2	N	--	7.1	300	82	15	9.4
K2573S	N	26	26	3.2	3.1	N	--	11	370	140	24	12
K2574S	N	55	160	4.4	4.6	N	--	12	490	130	27	14
K2575S	N	56	180	4.6	4.1	N	--	13	450	150	36	14
K2576S	N	61	170	4.3	5	N	--	9.4	390	91	29	12
K2577S	N	69	230	6.2	8.1	2.2	--	10	550	86	37	13
K2578S	N	75	210	5.8	6.7	.79	--	11	500	100	37	13
K2578SD	N	57	150	4.5	5.1	N	--	7.3	410	65	<21	11
K2579S	N	36	40	2.8	3.1	N	--	9.5	260	99	26	8.1
K2580S	N	63	140	4.3	6.1	1.4	--	5.9	380	51	20	7.4
K2581S	N	22	43	2.2	<1.1	N	--	10	540	120	22	6.4
K2582S	N	31	71	3.5	<1.5	N	--	19	810	220	34	12
K2583S	N	35	100	4.7	4.7	.93	--	12	390	160	17	<4.2
K2584S	N	25	18	2.3	2.1	N	--	N	270	150	30	12
K2584SD	N	13	6.5	1.4	N	N	--	7.8	230	97	<11	7.2
K2585S	N	47	66	3.6	<2.2	N	--	11	1,900	120	20	<5.4
K2586S	N	23	22	1.9	N	N	--	11	460	130	13	8.3
K2587S	N	45	110	3.1	1.7	N	--	N	950	88	<22	7.2
K2588S	N	60	110	3.6	4.1	1.9	--	10	500	94	16	<3.8
K2589S	N	56	96	3.8	5.9	1.7	--	N	380	67	18	8.3
K2590S	N	65	99	4.8	4.2	N	--	15	1,600	170	30	11
K2591S	N	45	130	3.6	6.5	N	--	N	970	94	23	15
K2592S	N	29	65	2.6	3.2	N	--	N	580	150	28	13
K2593S	N	29	70	3.2	.94	N	--	N	970	250	<44	16

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K2538S	6.5	5.8	52	N	N	N	N	N	N	N	N	N
K2539S	4.3	4	47	N	N	N	.48	N	N	N	N	N
K2540S	N	14	67	N	N	N	N	N	N	N	N	N
K2541S	6.8	5.3	35	N	5.1	N	N	N	N	26	<3.3	N
K2542S	7.3	8.5	34	N	N	N	N	N	N	N	N	N
K2543S	3.4	4.7	31	N	N	N	N	N	N	N	N	N
K2544S	5.8	8.5	35	N	N	N	N	N	N	N	N	N
K2545S	6.4	9.6	37	N	N	N	N	N	N	N	N	N
K2546S	8.8	15	33	N	N	N	N	N	N	N	N	N
K2547S	5.9	16	32	N	N	N	N	N	N	N	N	N
K2548S	12	15	48	N	N	N	N	N	N	N	N	N
K2549S	12	9.9	37	N	N	N	N	N	N	N	N	N
K2550S	5.7	3.9	74	N	N	N	N	N	N	N	N	N
K2551S	10	23	39	N	<5.7	N	.57	N	N	N	N	N
K2552S	N	8.3	8	N	N	N	N	N	N	N	N	N
K2553S	5.3	7.4	42	N	N	N	N	N	N	N	N	N
K2554S	7.7	12	50	N	N	N	N	N	N	N	N	N
K2554SD	16	21	75	N	N(4)	N(.6)	N(.8)	N(6)	N(4)	N	N	N
K2555S	N	48	120	N	N	N	N	N	N	N	N	N
K2556S	6.9	70	81	N	22	N	3	N	N	N	N	N
K2557S	N	24	110	N	N	N	N	N	N	8.1	N	N
K2558S	6.7	9.5	35	N	N	N	N	N	N	N	N	N
K2559S	9.4	10	88	N	N	N	N	N	N	N	N	N
K2560S	8	8.2	69	N	N	N	N	N	N	N	N	N
K2561S	6.1	3.9	77	N	N	N	N	N	N	N	N	N
K2561SD	12	14	110	N(.8)	<8.9	N(1.2)	N(1.6)	N(12)	N(8)	N(8)	N(10)	N(32)
K2562S	11	11	38	N	<1.9	N	N	N	N	N	N	N
K2563S	10	7.3	60	N	N	N	N	N	N	N	N	N
K2564S	6.5	6.3	63	N	N	N	N	N	N	<6.9	N	N
K2565S	9.3	11	46	N	N	N	N	N	N	N	N	N
K2566S	17	19	49	N	<2.1	N	N	N	N	N	N	N
K2567S	11	15	60	N	<2.4	N	N	N	N	N	N	N
K2568S	17	28	71	N	N	N	N	N	N	N	N	N
K2569S	16	24	59	N	N	N	N	N	N	N	N	N
K2570S	16	27	57	N	<3	N	N	N	N	N	N	N
K2571S	14	18	91	N	<2.2	N	N	N	N	N	N	N
K2572S	6.9	7.6	49	N	N	N	N	N	N	N	N	N
K2573S	6.3	7.1	57	N	N	N	N	N	N	N	N	N
K2574S	15	21	67	N	N	N	N	N	N	N	N	N
K2575S	17	23	71	N	N	N	N	N	N	N	N	N
K2576S	17	23	56	N	<2.8	N	N	N	N	N	N	N
K2577S	22	39	75	N	<3.3	N	N	N	N	N	N	N
K2578S	21	32	74	N	<3.5	N	N	N	N	N	N	N
K2578SD	14	20	52	N	N	N	N	N	N	N	N	N
K2579S	9.2	18	38	N	5.6	N	N	N	N	N	N	N
K2580S	11	17	42	N	<2.7	N	N	N	N	N	N	N
K2581S	4.7	6.9	35	N	<2.3	N	N	N	N	N	N	N
K2582S	7.3	50	48	N	N	N	N	N	N	N	N	N
K2583S	5.7	240	34	N	N	N	1.9	N	N	N	N	N
K2584S	6.9	33	45	N	<3	N	N	N	N	N(7.2)	N	N
K2584SD	4.2	5.5	32	N	N	N	N	N	N	N	N	N
K2585S	4.4	2.3	43	N	<4.3	N	N	N	N	N	N	N
K2586S	3.7	1.4	46	N	<4.5	N	N	N	N	N	N	N
K2587S	3.1	N	21	N	N	N	N	N	N	N(9.6)	N	N
K2588S	4.9	12	42	N	7	N	N	N	N	N	N	N
K2589S	5	9.9	42	N	<6.1	N	.47	N	N	N	N	N
K2590S	6.1	3.8	54	N	5.5	N	N	N	N	N	N	N
K2591S	8.1	7.5	60	N	<7.7	N	.67	N	N	N	N	N
K2592S	6.2	4.6	48	N	<4.5	N	.58	N	N	N	N	N
K2593S	7.7	1	100	N	N	N	N	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K2594S	58 1 50	155 45 0	--	--	9,800	16,000	28,000	25,000	1,300	310	--	N
K2595S	58 3 30	155 46 22	--	--	12,000	7,100	32,000	15,000	1,000	330	--	N
K2596S	58 5 53	155 48 30	--	--	9,000	6,900	28,000	17,000	1,200	420	--	N
K2597S	58 4 5	155 55 42	--	--	7,800	8,300	26,000	25,000	1,300	400	--	N
K2600S	58 0 40	155 50 58	--	--	12,000	19,000	28,000	30,000	1,200	270	--	N
K2601S	58 49 33	155 29 24	--	--	2,000	2,900	21,000	8,800	880	410	--	N
K2602S	58 49 32	155 29 0	--	--	1,600	3,400	33,000	5,700	1,000	350	--	N
K2603S	58 47 54	155 25 22	--	--	2,400	3,400	26,000	11,000	1,400	330	--	N
K2604S	58 48 0	155 25 0	--	--	4,100	5,400	46,000	15,000	1,500	300	--	N
K2605S	58 48 22	155 25 10	--	--	440	1,100	6,100	3,600	490	300	--	N
K2606S	58 35 0	154 21 13	--	--	10,000	6,000	26,000	16,000	560	400	--	N
K2607S	58 35 2	154 20 49	--	--	5,600	4,100	32,000	8,700	820	330	--	N
K2608S	58 36 4	154 24 39	--	--	3,300	4,500	38,000	7,700	2,000	180	--	N
K2609S	58 37 3	154 31 56	--	--	8,900	4,700	29,000	11,000	1,200	330	--	N
K2610S	58 38 55	154 31 36	--	--	7,600	4,200	33,000	12,000	1,500	350	--	N
K2611S	58 38 32	154 32 32	--	--	7,600	6,100	25,000	12,000	670	320	--	N
K2612S	58 36 25	154 37 39	--	--	900	2,300	15,000	5,300	900	240	--	N
K2614S	58 41 49	154 34 42	--	--	5,300	4,800	23,000	11,000	970	280	--	N
K2615S	58 41 58	154 34 47	--	--	5,300	5,800	26,000	9,100	520	300	--	N
K2616S	58 14 25	155 15 15	--	--	1,300	2,600	58,000	3,800	4,100	260	--	N
K2617S	58 14 28	155 14 4	--	--	1,800	2,700	42,000	3,900	2,300	140	--	N
K2617SD	58 14 28	155 14 4	--	--	1,000	2,400	20,000	4,500	1,300	230	--	N
K2618S	58 14 19	155 22 48	--	--	4,700	4,300	60,000	8,200	3,600	260	--	N
K2619S	58 13 51	155 20 58	--	--	3,200	2,900	41,000	4,500	1,900	120	--	N
K2620S	58 13 45	155 20 59	--	--	1,200	1,800	32,000	3,500	2,700	270	--	N
K2620SD	58 13 45	155 20 59	--	--	1,600	3,100	50,000	4,900	3,300	110	--	N
K2621S	58 11 34	155 31 42	--	--	6,000	6,000	22,000	9,400	780	200	--	N
K2622S	58 11 39	155 31 19	--	--	5,800	5,900	23,000	12,000	760	270	--	N
K2623S	58 10 50	155 28 5	--	--	7,600	5,200	23,000	11,000	860	340	--	N
K2624S	58 10 57	155 27 53	--	--	5,700	3,000	31,000	8,500	640	270	--	N
K2625S	58 12 35	155 32 42	--	--	4,600	4,500	23,000	8,900	720	190	--	N
K2626S	58 12 11	155 34 10	--	--	5,100	4,800	25,000	10,000	1,200	210	--	N
K2627S	58 11 40	155 39 30	--	--	4,900	5,400	20,000	12,000	730	200	--	N
K2628S	58 9 36	155 39 30	--	--	5,000	4,200	29,000	9,500	1,300	250	--	N
K2629S	58 9 39	155 33 29	--	--	5,700	5,400	21,000	10,000	900	250	--	N
K2630S	58 9 12	155 37 10	--	--	7,300	7,000	22,000	16,000	600	250	--	N
K2631S	58 8 7	155 36 45	--	--	5,900	4,200	21,000	12,000	660	280	--	N
K2632S	58 6 55	155 34 3	--	--	6,400	5,200	19,000	12,000	340	250	--	N
K2633S	58 5 52	155 33 0	--	--	5,000	4,200	13,000	8,200	560	240	--	N
K2634S	58 46 0	155 30 0	--	--	3,600	5,200	26,000	9,500	730	240	--	N
K2635S	58 47 2	155 32 5	--	--	2,000	4,300	29,000	8,200	680	290	--	N
K2636S	58 47 10	155 32 21	--	--	2,700	3,500	30,000	7,300	1,200	370	--	N
K2637S	58 52 38	155 32 40	--	--	990	890	26,000	2,000	280	48	--	N
K2637SD	58 52 38	155 32 40	--	--	3,300	3,500	150,000	10,000	2,200	400	--	N
K2638S	58 48 22	155 21 25	--	--	2,600	3,000	22,000	8,900	830	320	--	N
K2639S	58 44 20	155 18 0	--	--	2,700	3,600	26,000	6,900	1,100	250	--	N
K2640S	58 42 44	155 35 52	--	--	320	2,200	31,000	1,800	410	280	--	N
K2641S	58 43 27	155 35 38	--	--	2,000	3,600	26,000	6,300	1,100	150	--	N
K2642S	58 32 36	155 34 35	--	--	870	1,800	23,000	3,200	1,900	270	--	N
K2643S	58 32 26	155 31 49	--	--	1,800	4,700	31,000	7,400	1,900	350	--	N
K2644S	58 47 31	155 44 47	--	--	3,100	3,600	31,000	7,700	680	300	--	N
K2645S	58 49 48	155 44 50	--	--	4,000	4,000	38,000	7,800	1,100	350	--	N
K2646S	58 51 20	155 43 50	--	--	1,800	1,900	8,900	5,600	320	330	--	N
K2648S	58 24 5	155 49 30	--	--	820	1,500	32,000	3,200	440	210	--	N
K2649S	58 22 43	155 47 26	--	--	2,400	3,600	28,000	9,100	1,500	310	--	N
K2650S	58 23 15	155 45 10	--	--	2,000	2,600	31,000	6,400	1,200	140	--	N
K2651S	58 24 22	155 42 18	--	--	3,300	4,900	36,000	11,000	780	230	--	N
K2652S	58 18 50	155 44 0	--	--	4,100	3,800	38,000	9,300	1,300	130	--	N
K2653S	58 16 9	155 40 53	--	--	4,200	3,700	39,000	9,100	2,100	240	--	N
K2654S	58 16 23	155 48 45	--	--	4,800	3,600	31,000	15,000	1,100	370	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K2594S	N	86	55	3.4	3.2	N	--	N	370	99	34	14
K2595S	N	50	49	4.3	5	N	--	N	350	100	39	14
K2596S	N	47	56	3.4	3.5	N	--	N	370	96	36	10
K2597S	N	48	76	3.1	4.4	N	--	N	470	79	21	13
K2600S	N	90	43	3	3.3	N	--	N	430	82	21	15
K2601S	N	25	49	2.6	3.7	N	--	N	640	95	26	8.4
K2602S	N	29	83	2.3	2.6	N	--	N	4,600	99	26	13
K2603S	N	30	67	2.8	4.3	N	--	N	870	110	27	12
K2604S	N	38	75	3.2	3.6	N	--	N	650	140	34	13
K2605S	N	5.9	9.8	N	1.7	.7	--	1.9	110	32	4.6	N
K2606S	N	82	140	6	8	3	--	N	330	68	37	11
K2607S	N	44	100	6.7	9.8	1.6	--	N	320	100	35	11
K2608S	N	25	19	5.3	6.6	N	--	N	310	130	33	15
K2609S	N	52	120	4.5	5.1	1.1	--	N	330	100	30	12
K2610S	N	59	130	4.8	5.4	1.1	--	N	390	120	40	12
K2611S	N	64	130	7	9.7	2.5	--	N	320	72	34	9.5
K2612S	N	12	18	2.3	2.6	1.8	--	4.1	190	72	9.5	4.2
K2614S	N	37	46	3.7	5	.55	--	N	300	81	24	9
K2615S	N	55	100	5.5	7.1	3.1	--	N	320	80	31	7.4
K2616S	N	13	13	2.2	1.4	N	--	N	290	300	<34	19
K2617S	N	15	6.4	1.7	N	N	--	N	310	190	32	20
K2617SD	N	16	11	1.1	N	N	--	4.6	130	91	13	5.6
K2618S	N	23	12	2.7	N	N	--	N	450	230	<36	23
K2619S	N	19	22	2.6	1.9	N	--	N	360	120	31	22
K2620S	N	9.3	13	1.7	1.5	N	--	7.7	230	180	21	9.8
K2620SD	N	12	12	1.8	N	N	--	13	310	160	N	12
K2621S	N	47	71	4.4	6	.81	--	N	270	65	26	8.6
K2622S	N	50	64	3.9	4.7	.14	--	N	250	67	24	8
K2623S	N	50	86	4.5	5.9	1.2	--	N	280	77	28	8.9
K2624S	N	27	27	3.2	3.8	N	--	N	290	68	24	9.9
K2625S	N	36	52	3.5	4.2	N	--	N	240	65	20	7.7
K2626S	N	47	63	4.3	5.5	.38	--	N	280	92	29	9.3
K2627S	N	49	87	6.2	9.5	1.2	--	N	280	63	20	6.5
K2628S	N	58	96	7.4	11	.38	--	N	300	110	32	8.1
K2629S	N	51	76	6	8.4	1.3	--	N	260	74	28	6.5
K2630S	N	88	150	8	13	2.6	--	N	310	61	27	7.9
K2631S	N	62	130	5.3	7.7	1.5	--	N	310	66	25	6.9
K2632S	N	63	120	6.5	9.7	2.3	--	N	270	41	23	6.4
K2633S	N	40	69	4.5	7	1.5	--	3.4	200	38	16	4.7
K2634S	N	39	57	3	3.8	N	--	N	310	100	28	7.9
K2635S	N	36	93	2.4	2.5	N	--	N	1,900	62	21	9.6
K2636S	N	28	56	2.7	3.1	N	--	N	510	130	32	9.4
K2637S	N	6.6	13	1.4	N	N	--	N	200	71	26	4.9
K2637SD	N(.04)	22	50	4.3	N(3.6)	N(.16)	--	N	650	470	150	13
K2638S	N	21	43	2.1	2.4	N	--	5.4	240	86	17	5
K2639S	N	22	31	2.8	3.3	N	--	N	270	110	25	6.8
K2640S	N	14	15	N	N	N	--	2.1	790	31	<7.3	2.3
K2641S	N	21	28	3.7	4.9	N	--	N	260	110	26	7.3
K2642S	N	8.6	17	1.5	1.1	N	--	4.8	190	110	<13	6.2
K2643S	N	29	36	3	3	N	--	N	240	160	24	9.6
K2644S	N	25	53	3	3.8	N	--	N	490	110	25	8.3
K2645S	N	33	54	4.3	5.7	N	--	N	560	170	41	11
K2646S	N	24	31	3.4	5.3	2.7	--	3.1	170	33	7.8	3.8
K2648S	N	12	55	1.2	N	N	--	N	350	68	24	N
K2649S	N	20	50	2	N	N	--	N	360	130	35	5.8
K2650S	N	21	38	1.6	N	N	--	N	210	140	38	6.6
K2651S	N	33	55	2.6	1.8	N	--	N	260	150	46	6.8
K2652S	N	22	42	2.2	1.7	N	--	N	470	100	29	15
K2653S	N	35	37	3.5	3.9	N	--	N	320	160	39	14
K2654S	N	19	30	3.6	4.9	5.8	--	N	960	97	22	24

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K2594S	12	27	36	N	N	N	N	N	N	N	N	N
K2595S	16	23	40	N	N	N	N	N	N	N	N	N
K2596S	13	25	42	N	N	N	N	N	N	N	N	N
K2597S	11	27	38	N	N	N	N	N	N	N	N	N
K2600S	11	31	26	N	N	N	N	N	N	N	N	N
K2601S	4.7	6.1	30	N	<2.6	N	N	N	N	N	N	N
K2602S	5.4	2.9	39	N	N	N	N	N	N	N(7.4)	N	N
K2603S	4.7	5.3	37	N	<3.8	N	N	N	N	N	N	N
K2604S	6.9	8	53	N	N	N	N	N	N	N	N	N
K2605S	1.2	8.5	11	.37	N	N	N	N	N	<4.8	N	N
K2606S	17	35	67	N	<5	N	N	N	N	N	N	N
K2607S	12	18	45	N	<3.2	N	.64	N	N	N	N	N
K2608S	7.3	6.7	56	N	N	N	N	N	N	N	N	N
K2609S	15	24	55	N	<3.4	N	N	N	N	N	N	N
K2610S	15	24	62	N	N	N	N	N	N	N	N	N
K2611S	13	23	47	N	<3.6	N	N	N	N	N	N	N
K2612S	2.5	6.4	24	<.61	<2.5	N	N	N	N	<7.6	N	N
K2614S	8.2	16	41	N	N	N	N	N	N	N	N	N
K2615S	11	18	45	N	N	N	N	N	N	N	N	N
K2616S	7.2	8.2	50	N	N	N	<.56	N	N	N	N	N
K2617S	7.7	7.2	64	N	N	N	N	N	N	N	N	N
K2617SD	3.4	7.2	28	<.81	6.3	N	N	N	N	<6	N	N
K2618S	10	12	83	N	N	N	N	N	N	N	N	N
K2619S	9.5	9.5	88	N	N	N	N	N	N	N	N	N
K2620S	4.7	10	42	<1.5	N	N	N	N	N	N(5.3)	N	N
K2620SD	4.9	5.7	49	N	N	N	N	N	N	N	N	N
K2621S	11	18	37	N	N	N	N	N	N	N(7.9)	N	N
K2622S	10	18	31	N	N	N	N	N	N	N	N	N
K2623S	12	23	40	N	<3.1	N	N	N	N	N	N	N
K2624S	12	21	37	N	N	N	.44	N	N	N	N	N
K2625S	8.1	13	29	N	N	N	N	N	N	N	N	N
K2626S	8.7	15	37	N	N	N	N	N	N	N	N	N
K2627S	7.6	14	32	N	N	N	N	N	N	N	N	N
K2628S	8.5	14	41	N	N	N	N	N	N	N	N	N
K2629S	9.4	18	34	N	<2.6	N	N	N	N	N	N	N
K2630S	28	22	49	N	N	N	N	N	N	N	N	N
K2631S	12	20	45	N	<3.3	N	N	N	N	N	N	N
K2632S	10	21	36	N	N	N	N	N	N	N	N	N
K2633S	7.8	14	28	.73	<3.3	N	N	N	N	N	N	N
K2634S	5.4	6.5	29	N	N	N	N	N	N	N	N	N
K2635S	4.4	5.5	27	N	N	N	N	N	N	N	N	N
K2636S	5.7	4.5	32	N	<2.5	N	.52	N	N	<9.6	N	N
K2637S	5.4	1.4	29	N	N	N	N	N	N	N	N	N
K2637SD	13	N(.6)	86	N(.8)	N(8)	N(1.2)	N(1.6)	N(12)	N(8)	N(8)	N(10)	N(32)
K2638S	3.9	8.2	32	<.89	<5.6	N	N	N	N	N	N	N
K2639S	4.4	4.3	26	N	N	N	N	N	N	N	N	N
K2640S	2.9	N	13	<.77	<3.7	N	N	N	N	12	N	N
K2641S	12	3	28	N	N	N	N	N	N	N	N	N
K2642S	2.4	2.6	29	<1.1	N	N	N	N	N	N	N	N
K2643S	3.5	9.7	32	N	N	N	N	N	N	<11	N	N
K2644S	8.6	6.9	29	N	N	N	N	N	N	N	N	N
K2645S	9.8	7.3	34	N	N	N	.71	N	N	N	N	N
K2646S	2.9	6.9	21	.59	6.4	N	1	N	N	<11	N	N
K2648S	1.6	1.5	16	N	N	N	N	N	N	N	N	N
K2649S	3.9	10	30	N	N	N	N	N	N	N	N	N
K2650S	4.4	7.1	28	N	N	N	N	N	N	N	N	N
K2651S	7.3	19	32	N	N	N	N	N	N	N	N	N
K2652S	6	14	70	N	N	N	N	N	N	N	N	N
K2653S	10	9.1	56	N	N	N	<.47	N	N	N	N	N
K2654S	5.6	21	170	N	<5.8	N	1.1	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K2655S	58 16 30	155 48 35	--	--	2,400	3,400	17,000	6,900	640	320	--	N
K2656S	58 14 10	155 58 20	--	--	3,100	3,500	27,000	8,600	890	220	--	N
K2657S	58 11 55	155 58 7	--	--	2,600	4,000	19,000	16,000	1,600	330	--	N
K2658S	58 16 22	156 0 47	--	--	2,800	4,200	70,000	16,000	5,800	440	--	N
K2659S	58 16 53	156 3 43	--	--	1,500	2,000	22,000	5,500	870	250	--	N
K2660S	58 16 56	156 4 9	--	--	1,900	2,700	86,000	6,500	1,100	190	--	N
K2661S	58 21 27	156 2 41	--	--	1,700	3,200	28,000	10,000	2,300	280	--	N
K2662S	58 27 50	156 9 46	--	--	3,000	3,800	23,000	9,100	940	140	--	N
K2663S	58 28 45	156 12 25	--	--	2,700	5,200	23,000	18,000	1,800	470	--	N
K2664S	58 30 25	156 16 35	270	220	1,600	5,300	43,000	9,200	440	240	2	N
K2665S	58 11 25	156 12 32	--	--	1,800	5,200	27,000	13,000	2,600	420	--	N
K2665SD	58 11 25	156 12 32	--	--	1,600	4,000	26,000	10,000	1,900	160	--	N
K2666S	58 10 26	156 9 30	250	300	1,900	5,100	41,000	9,100	690	180	4.1	N
K2667S	58 9 56	156 6 30	--	--	2,100	4,300	37,000	12,000	1,300	660	--	N
K2668S	58 10 42	156 1 0	--	--	3,200	5,000	31,000	15,000	2,200	340	--	N
K2669S	58 12 10	156 3 45	--	--	2,500	4,400	30,000	13,000	2,300	290	--	N
K2670S	58 14 43	156 12 5	--	--	1,200	3,000	28,000	8,400	950	460	--	N
K2671S	58 29 56	156 18 10	230	230	2,300	4,400	17,000	10,000	670	290	1.5	N
K2672S	58 2 39	156 25 16	--	--	1,900	5,800	22,000	13,000	1,900	470	--	N
K2673S	58 5 47	156 21 20	--	--	2,300	2,200	37,000	9,400	1,300	72	--	N
K2674S	58 8 32	156 32 25	430	330	3,500	3,300	29,000	9,700	1,700	89	1.2	N
K2675S	58 30 10	156 14 20	--	--	1,700	3,400	49,000	14,000	1,000	1,300	--	N
K2676S	58 40 1	155 23 12	--	--	780	3,200	25,000	4,700	2,200	280	--	N
K2677S	58 35 8	155 11 55	240	97	700	3,500	13,000	4,500	800	310	1.7	N
K2678S	58 36 27	155 7 7	--	--	3,000	5,200	24,000	8,600	2,300	370	--	N
K2679S	58 38 17	155 2 9	--	--	8,300	5,800	25,000	14,000	990	430	--	N
K2680S	58 38 46	155 3 38	--	--	8,100	4,400	20,000	13,000	1,000	310	--	N
K2681S	58 42 20	155 4 0	--	--	2,100	3,200	17,000	6,900	1,400	330	--	N
K2682S	58 42 24	155 1 13	300	700	2,200	3,000	14,000	5,400	580	410	2.7	N
K2683S	58 43 1	155 0 0	300	610	2,000	2,200	12,000	5,000	620	300	1.4	N
K2684S	58 42 40	154 58 42	--	--	2,400	3,000	35,000	7,600	3,500	410	--	N
K2685S	58 48 0	156 28 17	230	220	2,600	3,600	22,000	7,700	580	390	1.3	N
K2686S	58 48 0	156 28 0	--	--	2,900	3,900	15,000	16,000	1,100	440	--	N
K3001S	58 54 45	155 45 56	--	--	1,300	4,500	14,000	6,600	680	450	--	N
K3002S	58 54 18	155 47 34	--	--	3,300	5,600	16,000	13,000	1,100	270	--	N
K3003S	58 53 45	155 44 20	--	--	3,200	3,200	16,000	13,000	760	180	--	N
K3004S	58 52 42	155 45 12	--	--	980	3,400	11,000	5,300	980	140	--	N
K3005S	58 51 55	155 46 8	--	--	2,100	6,800	17,000	17,000	1,700	200	--	N
K3006S	58 49 23	155 48 52	--	--	1,400	2,200	11,000	11,000	790	160	--	N
K3007S	58 50 8	155 48 48	--	--	3,000	4,000	34,000	9,300	1,600	240	--	N
K3008S	58 46 3	155 44 36	--	--	2,900	4,700	34,000	11,000	1,200	250	--	N
K3009S	58 1 30	156 16 52	--	--	2,400	5,000	23,000	9,100	1,600	94	--	N
K3009SD	58 1 30	156 16 52	--	--	3,600	7,900	34,000	17,000	2,000	220	--	N
K3010S	58 1 42	156 19 20	--	--	3,900	6,300	51,000	15,000	3,600	140	--	N
K3011S	58 1 0	156 14 50	--	--	4,000	4,700	62,000	11,000	3,500	220	--	N
K3012S	58 1 0	156 14 22	--	--	4,200	6,800	32,000	17,000	1,800	270	--	N
K3013S	58 0 40	156 12 0	--	--	5,200	8,600	30,000	21,000	2,300	210	--	N
K3014S	58 0 7	156 10 40	--	--	3,300	5,800	27,000	12,000	1,900	150	--	N
K3015S	58 0 6	156 9 8	--	--	4,300	9,400	43,000	17,000	2,600	150	--	N
K3016S	58 0 3	156 7 4	--	--	4,300	4,500	24,000	11,000	1,600	310	--	N
K3017S	58 26 36	155 23 37	--	--	2,700	4,000	25,000	15,000	1,600	260	--	N
K3018S	58 26 41	155 23 19	--	--	5,600	5,400	34,000	11,000	1,900	250	--	N
K3019S	58 26 1	155 23 49	--	--	4,900	5,000	30,000	10,000	1,400	250	--	N
K3020S	58 25 33	155 22 28	--	--	4,300	6,000	15,000	9,900	1,100	170	--	N
K3021S	58 22 30	155 14 0	--	--	1,200	1,600	75,000	2,500	2,000	130	--	N
K3022S	58 23 44	155 12 22	310	68	3,200	2,800	190,000	4,100	N	N	1	43
K3023S	58 23 52	155 12 19	--	--	1,300	2,500	41,000	3,300	2,800	110	--	N
K3024S	58 25 48	155 13 59	--	--	2,900	4,100	51,000	6,400	3,400	120	--	N
K3025S	58 25 45	155 13 30	490	300	3,400	3,700	76,000	6,600	N	N	4.7	56
K3026S	58 24 22	155 4 20	420	95	2,300	2,600	120,000	4,000	N	N	.88	57

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K2655S	N	21	37	2.1	2.1	1.9	--	N	310	56	14	4.3
K2656S	N	19	30	3.1	5	1.4	--	N	320	79	17	8.5
K2657S	N	31	83	3.9	4.3	1.8	--	N	450	64	19	6.8
K2658S	N	24	54	4.8	3	N	--	N	600	250	<29	15
K2659S	N	15	38	2.5	2.8	N	--	N	270	83	20	4.2
K2660S	N	17	48	3.6	1.3	N	--	N	330	230	<50	11
K2661S	N	21	51	3.9	3.9	N	--	N	370	110	25	8.3
K2662S	N	37	67	2.8	3.1	N	--	N	330	100	24	3.3
K2663S	N	44	73	4	5.8	.56	--	N	390	86	20	9.1
K2664S	.45	41	81	3.1	N	6.9	2	N	1,100	67	6.7	12
K2665S	N	34	67	3.8	4.7	N	--	N	880	89	<16	8.6
K2665SD	N	25	46	2.6	2.7	N	--	5.7	750	69	<9.4	5.5
K2666S	.39	35	120	2.9	N	5.3	4.8	N	4,500	49	7.9	10
K2667S	N	30	67	4	4.5	N	--	N	400	90	<19	4.3
K2668S	.086	37	74	4.9	6.5	N	--	N	310	100	23	6.9
K2669S	N	27	64	3.8	4.8	N	--	N	450	110	25	8.8
K2670S	N	23	50	2.2	1.3	N	--	N	340	45	<14	2.1
K2671S	.38	38	83	3.1	5.3	5	3.2	N	460	57	9	5.4
K2672S	N	36	52	3.2	4.2	N	--	N	630	83	15	7.5
K2673S	N	17	38	2.2	N	N	--	N	520	79	25	14
K2674S	.55	27	55	2.5	N	3.9	6.4	N	410	120	15	9.4
K2675S	N	33	74	3.3	1.8	N	--	N	400	75	<21	3.9
K2676S	N	14	15	1.3	N	N	--	N	340	120	16	7.1
K2677S	.28	9.7	7.4	1.9	N	4.7	N	N	230	56	6.4	4.3
K2678S	7.2	33	22	1.9	1.3	.22	--	N	330	120	20	5.9
K2679S	N	45	29	2.2	1.9	N	--	N	340	72	30	11
K2680S	N	21	15	1.2	N	.16	--	N	360	61	29	5.2
K2681S	N	15	15	1.2	N	N	--	N	170	82	18	4.8
K2682S	.26	25	45	1.6	N	3.3	N	N	140	56	16	6.2
K2683S	.2	12	42	2.5	N	2.6	N	N	120	40	11	5.8
K2684S	N	14	26	1.9	N	N	--	N	290	170	26	12
K2685S	.35	24	62	2.9	4.5	3.9	2.7	N	1,300	59	13	7.9
K2686S	N	32	92	4.3	6.3	2.4	--	N	190	66	22	4.3
K3001S	N	17	23	1.5	1.2	.13	--	4.5	200	57	12	N
K3002S	N	27	45	2.8	3.8	N	--	5.8	210	54	14	4.9
K3003S	N	19	46	2.5	3.7	.22	--	6.1	160	52	14	7.1
K3004S	N	17	17	1.5	2	N	--	4.5	230	51	9.2	3.7
K3005S	N	37	34	2	2.2	N	--	7.3	240	75	<10	7.2
K3006S	N	12	27	1.9	2.9	.17	--	4.7	250	45	9.5	4.2
K3007S	N	21	44	2.8	3.7	N	--	9.8	800	120	22	9.5
K3008S	N	28	55	3.2	3.9	N	--	8.9	1,100	100	<19	9.8
K3009S	N	29	28	2.1	2.3	N	--	8.2	250	110	15	8.9
K3009SD	N	43	42	2.6	2.2	N	--	9.4	350	100	<13	7.2
K3010S	N	37	38	3.1	2.2	N	--	16	400	200	<22	15
K3011S	N	28	47	4.2	4.3	N	--	19	440	250	<28	16
K3012S	N	41	61	4.9	7.4	N	--	10	460	110	<17	10
K3013S	N	48	64	3.2	4	N	--	11	460	130	26	12
K3014S	N	33	36	2.2	2	N	--	9.2	330	110	19	9.5
K3015S	N	52	47	3	2.7	N	--	14	410	160	<24	14
K3016S	N	27	20	2.6	2.7	N	--	N	280	120	34	13
K3017S	N	25	49	3.1	4.4	N	--	7.5	550	80	17	7.6
K3018S	N	35	23	3.7	4.1	N	--	N	330	130	36	13
K3019S	N	29	17	2.7	2.2	N	--	N	290	130	35	12
K3020S	N	23	14	2.6	3.4	.77	--	5.9	250	62	15	6
K3021S	N	6.6	4.5	1.1	N	N	--	N	310	110	<16	9.9
K3022S	N	N	5	2.2	6.1	7	8.4	N	1,300	N	58	37
K3023S	N	9.1	4.2	1.2	N	N	--	9.5	280	130	<15	14
K3024S	N	19	21	2.6	1.8	N	--	12	410	150	<17	18
K3025S	N	N	33	2.6	N	5.2	4.6	N	530	N	24	16
K3026S	N	N	6.4	N	N	5	5	N	730	N	32	24

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K2655S	2.6	6.3	34	N	<3.6	N	N	N	N	N	N	N
K2656S	4.4	5.6	35	N	N	N	N	N	N	N	N	N
K2657S	5	7	37	N	N	N	.7	N	N	N	N	N
K2658S	5.9	2.4	60	N	N	N	N	N	N	N	N	N
K2659S	4.8	3.4	26	N	N	N	N	N	N	N	N	N
K2660S	7.5	2	30	N	N	N	N	N	N	N	N	N
K2661S	4	3.7	36	N	N	N	N	N	N	N	N	N
K2662S	4.4	3.6	37	N	N	N	N	N	N	N	N	N
K2663S	5.3	5.3	42	N	N	N	.43	N	N	N	N	N
K2664S	6	8.2	40	N	N	N	N	N	N	16	N	N
K2665S	4.4	3.9	38	N	N	N	N	N	N	N	N	N
K2665SD	2.7	1.7	29	N	N	N	N	N	N	N	N	N
K2666S	8.1	9.3	47	N	12	N	N	12	N	17	N	N
K2667S	3.4	2.3	29	N	N	N	N	N	N	N	N	N
K2668S	6.8	6.7	36	N	N	N	N	N	N	N	N	N
K2669S	5.1	5	37	N	N	N	N	N	N	N	N	N
K2670S	2.1	1.3	22	N	N	N	N	N	N	N	N	N
K2671S	5.2	6.5	29	N	8.2	N	N	9.5	N	9.2	N	N
K2672S	5.8	5.5	28	N	N	N	.46	N	N	N	N	N
K2673S	8.7	4.9	59	N	N	N	N	N	N	N	N	N
K2674S	13	11	45	N	12	N	N	12	N	8.1	N	N
K2675S	3.2	1.8	29	N	N	N	N	N	N	N	N	N
K2676S	2.8	3	29	N	N	N	1.3	N	N	N	N	N
K2677S	4.5	9.8	25	N	N	N	N	11	N	5.8	N	N
K2678S	6.6	7.8	37	N	N	N	N	N	N	N	N	N
K2679S	13	26	41	N	N	N	N	N	N	N	N	N
K2680S	11	18	30	N	N	N	N	N	N	N	N	N
K2681S	6.2	8.7	23	N	N	N	N	N	N	N	N	N
K2682S	8.5	18	19	N	8.4	N	N	11	N	9.6	N	N
K2683S	7.7	46	15	N	N	N	1.4	N	N	8	N	N
K2684S	7.6	13	40	N	N	N	N	N	N	N	N	N
K2685S	7.5	6.6	38	N	8.8	N	N	9.7	N	11	N	N
K2686S	6.8	9.3	29	N	N	N	N	N	N	N	N	N
K3001S	2.3	5.5	15	N	N	N	N	N	N	N	N	N
K3002S	4.3	3.7	26	N	N	N	N	N	N	N	N	N
K3003S	5.3	6.2	23	N	<3.5	N	.66	N	N	N	N	N
K3004S	2.1	1.7	14	N	N	N	N	<3.1	N	N	N	N
K3005S	3.8	7.1	24	N	N	N	N	N	N	N	N	N
K3006S	3.5	4.6	19	N	<2.6	N	N	N	N	N	N	N
K3007S	6.6	4.4	34	N	N	N	.49	N	N	N	N	N
K3008S	5.4	3.6	29	N	N	N	.55	N	N	N	N	N
K3009S	6.1	4.9	27	N	N	N	N	N	N	N	N	N
K3009SD	6.3	5.5	31	N	N	N	N	N	N	N	N	N
K3010S	9.2	5.6	44	N	N	N	N	N	N	N	N	N
K3011S	9.6	6.6	47	N	N	N	N	N	N	N	N	N
K3012S	6.6	7.8	36	N	N	N	N	N	N	N	N	N
K3013S	10	13	44	N	N	N	N	N	N	N	N	N
K3014S	7.5	6.4	32	N	N	N	N	N	N	N	N	N
K3015S	8.8	7.8	40	N	N	N	N	N	N	N	N	N
K3016S	9.8	18	40	N	N	N	N	N	N	N	N	N
K3017S	4.6	4.7	39	N	N	N	.68	N	N	N	N	N
K3018S	12	15	44	N	N	N	N	N	N	N	N	N
K3019S	9.5	16	39	N	N	N	N	N	N	N	N	N
K3020S	6.9	10	25	N	N	N	N	<4.6	N	N	N	N
K3021S	3.4	5.2	64	N	N	N	N	N	N	N	N	N
K3022S	N	16	210	N	N	N	N	N	N	N	N	N
K3023S	4.3	2.8	56	N	N	N	N	N	N	N	N	N
K3024S	7.4	10	73	N	N	N	N	N	N	N	N	N
K3025S	N	16	83	N	N	N	N	N	N	N	N	N
K3026S	N	15	120	N	N	N	N	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K3027S	58 24 22	155 4 42	640	130	2,500	3,300	110,000	5,000	N	N	1.1	61
K3028S	58 24 32	155 6 40	--	--	1,400	1,900	36,000	2,400	4,200	400	--	N
K3029S	58 23 41	155 2 40	--	--	1,800	4,700	54,000	6,300	5,300	360	--	N
K3029SD	58 23 41	155 2 40	--	--	2,500	5,100	46,000	8,200	2,800	110	--	N
K3030S	58 22 50	155 0 57	--	--	2,600	5,200	26,000	5,100	1,800	180	--	N
K3031S	58 21 11	154 59 13	470	140	3,200	3,300	160,000	4,700	N	N	1.1	41
K3032S	58 20 19	154 59 10	--	--	1,600	2,100	44,000	2,700	2,200	75	--	N
K3033S	58 20 14	155 33 35	--	--	2,300	4,200	72,000	8,200	6,000	440	--	N
K3034S	58 20 12	155 34 0	--	--	2,400	4,500	72,000	8,000	6,100	270	--	N
K3035S	58 20 34	155 33 41	--	--	5,400	7,200	53,000	13,000	3,000	170	--	N
K3036S	58 24 30	155 29 45	--	--	1,500	2,800	22,000	4,600	2,300	230	--	N
K3037S	58 19 16	155 28 10	--	--	2,900	5,200	33,000	6,800	1,400	180	--	N
K3038S	58 16 25	155 34 0	--	--	4,000	4,600	42,000	9,100	3,400	460	--	N
K3039S	58 16 15	155 34 10	--	--	4,100	4,900	41,000	10,000	2,800	230	--	N
K3040S	58 16 55	155 38 30	--	--	3,400	4,400	32,000	8,700	3,100	410	--	N
K3041S	58 18 40	155 39 5	--	--	2,000	2,800	30,000	5,500	2,700	410	--	N
K3042S	58 23 10	155 38 25	500	220	2,200	3,400	39,000	7,200	N	N	2.4	64
K3043S	58 23 20	155 38 36	--	--	8,900	7,400	35,000	18,000	1,200	250	--	N
K3044S	58 23 31	155 35 53	--	--	2,500	5,900	30,000	9,600	1,900	120	--	N
K3045S	58 27 45	155 31 0	--	--	3,400	4,200	24,000	8,300	1,800	330	--	N
K3046S	58 29 40	155 22 42	--	--	7,400	9,400	27,000	18,000	1,900	200	--	N
K3047S	58 28 19	155 8 10	--	--	2,800	5,100	96,000	8,700	5,200	120	--	N
K3048S	58 28 15	155 1 5	--	--	4,600	7,200	140,000	13,000	9,800	290	--	N
K3049S	58 25 38	154 57 9	--	--	11,000	4,600	31,000	14,000	1,400	270	--	N
K3050S	58 25 36	154 47 16	--	--	10,000	5,600	38,000	18,000	430	310	--	N
K3051S	58 23 11	154 55 26	--	--	1,800	3,100	32,000	2,900	1,500	130	--	N
K3052S	58 25 28	154 53 36	--	--	1,600	3,900	20,000	5,600	1,500	150	--	N
K3053S	58 26 49	154 54 45	--	--	6,100	6,400	83,000	13,000	5,300	240	--	N
K3054S	58 23 14	154 49 32	450	250	3,300	4,900	93,000	6,000	N	N	5.3	58
K3055S	58 23 49	155 26 2	--	--	3,100	4,000	35,000	7,100	2,200	100	--	N
K3062S	58 23 36	156 11 29	--	--	2,800	3,000	120,000	5,800	3,600	360	--	N
K3063S	58 23 31	156 11 35	--	--	4,200	5,800	33,000	20,000	2,600	230	--	N
K3064S	58 22 20	156 16 9	--	--	4,100	5,000	26,000	24,000	1,700	470	--	N
K3065S	58 21 33	155 55 45	--	--	2,500	2,600	53,000	13,000	3,500	170	--	N
K3066S	58 21 35	155 55 28	--	--	2,200	2,200	41,000	10,000	3,900	260	--	N
K3067S	58 24 32	155 55 28	--	--	2,600	4,400	53,000	14,000	4,200	160	--	N
K3068S	58 27 48	155 45 16	--	--	1,200	4,100	21,000	5,700	1,400	130	--	N
K3069S	58 33 50	155 50 36	--	--	12,000	6,600	32,000	17,000	430	390	--	N
K3069SD	58 33 50	155 50 36	--	--	7,900	6,600	28,000	15,000	740	380	--	N
K3070S	58 34 53	155 48 55	--	--	6,300	7,000	59,000	14,000	3,300	310	--	N
K3071S	58 34 59	155 48 59	--	--	5,800	5,800	53,000	15,000	2,100	180	--	N
K3072S	58 31 18	156 2 52	--	--	2,200	5,200	24,000	13,000	2,400	410	--	N
K3073S	58 32 12	155 58 19	--	--	2,600	5,100	20,000	12,000	1,400	230	--	N
K3074S	58 32 33	155 59 50	--	--	2,700	4,700	23,000	12,000	1,100	310	--	N
K3075S	58 20 15	155 44 0	--	--	2,200	3,200	25,000	9,300	1,300	230	--	N
K3076S	58 19 57	155 44 10	--	--	2,300	2,100	30,000	13,000	930	320	--	N
K3076SD	58 19 57	155 44 10	--	--	2,900	3,700	38,000	18,000	1,700	340	--	N
K3077S	58 2 42	155 46 10	--	--	7,200	16,000	31,000	27,000	1,400	230	--	N
K3078S	58 6 30	155 51 12	--	--	4,700	5,700	24,000	16,000	1,400	350	--	N
K3079S	58 5 22	155 56 30	--	--	8,600	7,300	29,000	20,000	1,500	290	--	N
K3080S	58 1 30	155 57 58	--	--	6,800	8,400	31,000	24,000	1,600	360	--	N
K3081S	58 0 4	155 47 10	--	--	11,000	16,000	31,000	27,000	920	380	--	N
K3082S	58 0 3	155 46 28	--	--	6,800	8,000	14,000	13,000	540	270	--	N
K3095S	58 35 47	155 9 23	360	120	790	4,300	8,900	2,600	570	300	1.6	N
K3097S	58 37 34	155 13 27	260	100	410	4,000	6,200	1,600	340	240	.5	N
K3099S	58 49 4	156 22 46	--	--	1,700	3,000	13,000	9,300	790	430	--	N
K3100S	58 49 46	156 22 19	--	--	1,700	2,200	9,500	12,000	810	370	--	N
K3101S	58 49 39	156 25 30	--	--	2,100	3,100	11,000	11,000	840	320	--	N
K3102S	58 50 0	156 27 5	210	160	1,600	2,100	6,500	4,600	410	200	1.2	N
K3102SD	58 50 0	156 27 5	--	--	2,100	4,300	11,000	9,600	1,200	200	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K3027S	N	N	12	2.3	N	5.7	5.5	N	670	N	29	21
K3028S	N	7.3	4	1.6	1.1	N	--	N	250	190	24	11
K3029S	N	19	5.4	2	N	N	--	N	310	230	33	17
K3029SD	N	21	8.2	1.7	N	N	--	12	280	150	<11	9.3
K3030S	N	16	30	1.5	N	N	--	N	420	110	24	10
K3031S	N	N	22	1.7	N	6.7	6.4	N	1,100	N	42	34
K3032S	N	10	28	1.9	1.2	N	--	N	440	190	35	23
K3033S	N	23	12	2	N	N	--	N	330	280	<22	12
K3034S	N	19	11	2.5	N	N	--	N	430	300	<43	18
K3035S	N	42	33	3.5	2.9	N	--	15	430	170	25	15
K3036S	N	13	8.4	1.4	.95	N	--	N	210	120	24	9.6
K3037S	N	30	9.4	2.6	3.1	N	--	9.3	220	120	26	9.1
K3038S	N	28	15	2.4	1.5	N	--	N	330	160	29	12
K3039S	N	38	46	3.5	3	N	--	N	360	190	36	15
K3040S	N	24	16	2.2	1.9	N	--	N	270	170	34	13
K3041S	N	14	11	1.6	.97	N	--	N	210	130	21	7.2
K3042S	N	N	26	1.3	N	3.4	1.4	N	470	N	16	7.5
K3043S	N	58	80	4.5	5.5	N	--	N	650	110	39	13
K3044S	N	30	21	2.1	<1.7	N	--	8.8	540	110	16	9.5
K3045S	N	19	16	2.7	3.1	N	--	N	270	120	31	8.9
K3046S	N	38	21	3.6	4.4	.56	--	9.9	390	93	27	11
K3047S	N	34	29	3.2	N	N	--	28	740	360	34	19
K3048S	N	32	47	4.8	N	N	--	34	780	440	34	31
K3049S	N	30	14	2.1	<1.2	N	--	10	600	88	36	12
K3050S	N	87	59	2.1	N	N	--	8.2	480	54	34	16
K3051S	N	10	5.8	1.4	N	N	--	N	250	110	22	8.6
K3052S	N	29	12	.97	N	N	--	6.6	230	85	13	6.4
K3053S	N	33	15	3.2	N	N	--	20	640	240	34	21
K3054S	3.5	N	18	1.7	N	5.9	2.6	N	590	N	28	18
K3055S	N	23	17	2.1	<1.5	N	--	9.4	310	110	21	12
K3062S	N	15	31	4	N	N	--	30	460	370	44	14
K3063S	N	47	100	4.3	4.4	N	--	12	400	120	20	7.6
K3064S	N	40	72	6.1	8.6	4.9	--	11	420	98	33	<5
K3065S	N	16	62	8.7	12	N	--	12	400	140	9.2	9
K3066S	N	13	39	7.6	13	N	--	14	290	130	8.1	14
K3067S	N	25	54	2.8	<1.2	N	--	15	820	190	16	11
K3068S	N	22	12	1.6	N	N	--	7.9	190	93	13	<5.4
K3069S	N	35	220	4.9	6.8	1.1	--	9.8	720	73	29	11
K3069SD	N	30	190	3.9	4.6	.82	--	5.7	590	62	<14	6
K3070S	N	45	56	5.1	6	N	--	19	560	220	33	17
K3071S	N	31	100	4	4.2	N	--	15	550	170	24	14
K3072S	N	29	30	2.6	<2.1	.25	--	8.6	410	98	16	N
K3073S	N	31	35	2.6	<2.5	N	--	7.3	290	69	14	<3.8
K3074S	N	34	54	3.5	5.3	N	--	N	380	74	20	8.6
K3075S	N	25	45	2.4	2.3	N	--	N	220	120	24	8
K3076S	N	23	43	3.7	5.3	6.2	--	N	800	110	20	31
K3076SD	N	25	42	3.5	3.7	5.1	--	8.4	950	98	<10	25
K3077S	N	100	41	3.1	2.1	N	--	N	310	130	25	14
K3078S	N	50	54	3.2	3.7	N	--	N	280	110	23	9.4
K3079S	N	50	62	3.5	4.8	N	--	N	400	96	19	14
K3080S	N	55	62	3.1	3.7	N	--	N	380	120	24	13
K3081S	N	84	54	3.3	3.4	N	--	N	500	98	28	14
K3082S	N	71	49	3.3	3.4	1	--	N	230	40	23	6.5
K3095S	.2	11	5.9	2.1	N	3.2	N	N	120	42	5.6	3.4
K3097S	.14	13	3.7	1	N	2.8	N	N	59	30	3.6	2.7
K3099S	N	25	67	3.3	6	1.3	--	N	240	46	14	8.2
K3100S	N	22	62	3	5.2	1.2	--	N	140	52	17	5.1
K3101S	N	27	64	3.4	5.6	1.3	--	N	100	52	14	2.2
K3102S	.15	14	32	2.7	4.6	2.2	1.3	N	76	23	7.4	3.7
K3102SD	N	25	44	3.4	5	.98	--	3.9	120	36	9.4	3.4

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K3027S	N	18	99	N	N	N	N	N	N	N	N	N
K3028S	5.2	5	44	N	N	N	N	N	N	N	N	N
K3029S	4.8	5.9	53	N	N	N	N	N	N	N	N	N
K3029SD	5.4	15	45	N	N	N	N	N	N	N	N	N
K3030S	8.4	10	82	N	18	N	N	N	N	N	N	N
K3031S	N	23	190	N	N	N	N	N	N	6.5	N	N
K3032S	9	16	96	N	<2.4	N	N	N	N	N	N	N
K3033S	7.7	2.4	55	N	N	N	N	N	N	N	N	N
K3034S	9	2.2	78	N	N	N	N	N	N	N	N	N
K3035S	10	8.6	63	N	N	N	N	N	N	N	N	N
K3036S	3.8	4.8	31	N	N	N	N	N	N	N	N	N
K3037S	14	5.6	41	N	N	N	N	N	N	N	N	N
K3038S	7.6	10	49	N	N	N	N	N	N	N	N	N
K3039S	7.6	13	53	N	N	N	N	N	N	N	N	N
K3040S	6.6	10	43	N	N	N	N	N	N	N	N	N
K3041S	5	4.4	36	N	N	N	N	N	N	N	N	N
K3042S	N	10	34	N	N	N	N	N	N	N	N	N
K3043S	13	23	49	N	N	N	N	N	N	N	N	N
K3044S	5.4	5	40	N	N	N	N	N	N	N	N	N
K3045S	6.5	8.9	28	N	N	N	N	N	N	N	N	N
K3046S	12	18	41	N	<2.5	N	N	N	N	N	N	N
K3047S	7.3	8.2	94	N	N	N	N	N	N	N	N	N
K3048S	11	9.2	120	N	N	N	N	N	N	N	N	N
K3049S	16	24	94	N	21	N	N	N	N	N	N	N
K3050S	20	49	90	N	23	N	<.56	N	N	N	N	N
K3051S	7.4	8	48	N	N	N	N	N	N	N	N	N
K3052S	4	8.6	35	N	4.1	N	N	N	N	N	N	N
K3053S	11	16	110	N	6.1	N	N	N	N	N	N	N
K3054S	N	22	100	N	N	N	N	N	N	8.3	N	N
K3055S	7.3	9.1	46	N	N	N	N	N	N	N	N	N
K3062S	9.1	N	59	N	N	N	N	N	N	N	N	N
K3063S	6.2	5.9	51	N	9.2	N	N	N	N	N	N	N
K3064S	8.5	15	39	N	10	N	N	N	N	N	N	N
K3065S	4.2	<.48	48	N	<2	N	N	N	N	N	N	N
K3066S	4.6	.93	49	N	7.5	N	1.4	N	N	N	N	N
K3067S	4.9	4.1	67	N	N	N	N	N	N	N	N	N
K3068S	2.6	2.2	35	N	N	N	N	<3.4	N	N	N	N
K3069S	17	27	91	N	22	N	N	N	N	N	N	N
K3069SD	12	21	57	N	<7.8	N	N	N	N	N	N	N
K3070S	13	16	71	N	<5.1	N	N	N	N	N	N	N
K3071S	11	9.4	69	N	5.1	N	N	N	N	N	N	N
K3072S	4	4.3	48	N	4.9	N	N	N	N	N	N	N
K3073S	4	6.6	37	N	7.2	N	N	N	N	N	N	N
K3074S	4.5	4.8	37	N	<5.4	N	.86	N	N	N	N	N
K3075S	4.1	14	28	N	N	N	.45	N	N	N	N	N
K3076S	5.4	19	54	N	<3.2	N	1.5	N	N	N	N	N
K3076SD	4.6	14	52	N	N	N	N	N	N	N	N	N
K3077S	9.2	24	30	N	N	N	N	N	N	N	N	N
K3078S	8	12	33	N	N	N	N	N	N	N	N	N
K3079S	12	24	34	N	N	N	N	N	N	N	N	N
K3080S	10	24	36	N	N	N	N	N	N	N	N	N
K3081S	9.9	31	33	N	N	N	N	N	N	N	N	N
K3082S	9.9	19	28	N	<2.9	N	N	N	N	N	N	N
K3095S	3.9	14	17	N	N	N	N	N	N	5.5	N	N
K3097S	3.1	8	14	N	N	N	N	N	N	5.5	N	N
K3099S	4.3	3.7	22	N	<4.5	N	1.1	<3	N	N	N	N
K3100S	5	5.3	25	N	N	N	.44	N	N	N	N	N
K3101S	4.4	4.4	22	N	N	N	N	N	N	N	N	N
K3102S	5.1	3.4	19	N	N	N	N	N	N	5	N	N
K3102SD	3.7	2.9	18	N	<2.8	N	N	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K3103S	58 51 35	156 21 0	--	--	2,000	2,800	11,000	14,000	760	480	--	N
K3104S	58 51 23	156 14 56	230	260	2,000	2,800	15,000	9,900	790	380	1.4	N
K3105S	58 51 10	156 14 40	--	--	2,000	3,300	17,000	13,000	1,000	560	--	N
K3106S	58 49 50	156 11 55	220	220	2,100	2,900	15,000	8,700	680	310	1.1	N
K3107S	58 47 43	156 9 37	--	--	1,400	2,400	4,800	9,800	870	200	--	N
K3108S	58 46 29	156 6 5	180	180	1,900	2,600	19,000	15,000	630	370	.93	N
K3109S	58 49 41	156 7 2	260	190	2,100	3,500	23,000	7,500	930	260	1.9	N
K3110S	58 1 23	156 5 59	--	--	1,800	2,900	22,000	12,000	1,000	500	--	N
K3111S	58 52 27	156 5 0	270	310	2,400	3,700	23,000	6,700	560	400	1.1	N
K3112S	58 52 26	156 4 41	260	98	660	3,600	12,000	3,000	760	300	1.1	N
K3113S	58 51 46	156 4 12	200	190	1,700	2,500	20,000	5,900	N	N	1.7	N
K3114S	58 55 25	156 13 0	170	200	2,000	2,200	17,000	13,000	560	440	2.5	N
K3115S	58 58 8	156 14 50	200	220	1,500	3,300	16,000	6,000	330	340	1.5	N
K3116S	58 55 12	156 13 6	300	260	1,900	3,100	22,000	10,000	810	580	2.4	N
K3117S	58 58 13	156 14 35	260	180	1,300	2,300	9,800	6,200	490	290	1.5	N
K3118S	58 58 2	156 2 2	220	300	2,200	3,700	20,000	11,000	740	410	2.1	N
K3119S	58 58 0	156 1 30	190	220	1,800	2,800	16,000	7,400	750	280	1.6	N
K3120S	58 43 3	155 11 30	280	180	2,300	4,400	22,000	8,400	N	N	3.6	N
K3121S	58 43 34	155 8 40	--	--	3,100	6,500	17,000	11,000	840	220	--	N
K3122S	58 46 8	155 11 44	320	480	3,100	2,400	26,000	6,400	N	N	1.7	N
K3122SD	58 46 8	155 11 44	--	--	4,600	3,300	50,000	10,000	1,100	250	--	N
K3123S	58 48 42	155 13 0	210	300	3,000	3,700	44,000	7,300	N	N	2.8	N
K3124S	58 50 45	155 17 13	200	180	2,600	2,300	17,000	9,700	N	N	1.3	N
K3125S	58 50 49	155 17 18	--	--	4,500	5,600	49,000	19,000	3,100	140	--	N
K3126S	58 53 20	155 18 50	210	240	1,800	2,700	22,000	5,600	N	N	1.3	N
K3127S	58 52 2	155 18 0	--	--	4,800	5,700	44,000	14,000	1,100	160	--	N
K3128S	58 53 21	155 23 12	--	--	2,400	3,300	43,000	8,200	1,900	430	--	N
K3129S	58 54 17	155 27 35	--	--	1,800	2,600	32,000	7,600	1,300	390	--	N
K3130S	58 47 17	155 49 32	--	--	4,900	4,800	27,000	15,000	1,600	360	--	N
K3131S	58 46 58	155 48 22	--	--	2,000	3,400	21,000	11,000	1,100	200	--	N
K3132S	58 50 20	155 52 30	--	--	3,000	4,500	32,000	13,000	1,200	300	--	N
K3133S	58 55 18	155 57 22	--	--	1,900	3,300	33,000	8,900	1,200	530	--	N
K3134S	58 55 18	155 57 14	--	--	2,400	3,000	24,000	7,300	1,400	460	--	N
K3135S	58 55 35	155 58 5	--	--	980	2,100	11,000	6,700	260	270	--	N
K3136S	58 56 32	155 28 12	--	--	1,800	3,300	29,000	10,000	560	230	--	N
K3137S	58 56 14	155 21 42	--	--	2,000	5,500	110,000	12,000	680	780	--	N
K3138S	58 54 19	155 18 52	220	180	1,800	2,800	26,000	7,200	N	N	1.6	N
K3139S	58 54 2	155 14 49	170	150	1,400	2,500	17,000	4,900	N	N	1.7	N
K3140S	58 52 32	155 13 5	--	--	910	3,200	15,000	8,700	1,100	280	--	N
K3141S	58 52 32	155 12 2	190	110	2,200	2,500	16,000	6,400	N	N	1.6	N
K3141SD	58 52 32	155 12 2	--	--	2,400	3,000	33,000	8,500	1,400	160	--	N
K3142S	58 47 12	155 17 10	--	--	2,800	5,200	11,000	9,500	360	270	--	N
K3143S	58 46 24	155 17 56	250	200	2,500	3,200	19,000	7,100	N	N	1.7	N
K3144S	58 50 40	155 22 25	--	--	2,100	4,400	31,000	8,500	840	290	--	N
K3145S	58 51 8	155 24 33	--	--	1,900	4,700	30,000	9,400	1,100	270	--	N
K3152S	58 23 50	154 37 40	--	--	5,800	6,200	36,000	12,000	15	210	--	N
K3154S	58 25 22	154 33 41	--	--	1,200	6,600	160,000	7,100	340	430	--	N
K3300S	58 42 17	154 49 43	--	--	4,900	6,300	26,000	12,000	1,600	360	--	N
K3301S	58 44 5	154 40 27	--	--	4,800	5,700	67,000	11,000	2,200	310	--	N
K3302S	58 44 10	154 40 34	--	--	4,100	3,900	32,000	8,300	1,000	340	--	N
K3303S	58 43 56	154 41 0	--	--	5,100	4,700	47,000	10,000	850	390	--	N
K3304S	58 42 11	154 39 50	--	--	3,900	5,300	19,000	11,000	1,200	370	--	N
K3305S	58 43 0	154 32 30	--	--	4,000	6,900	17,000	14,000	800	270	--	N
K3306S	58 40 38	154 11 46	--	--	9,600	5,600	22,000	15,000	490	490	--	N
K3307S	58 44 38	154 6 11	220	680	6,300	9,800	19,000	16,000	360	210	12	N
K3308S	58 40 16	154 6 8	230	720	7,300	6,700	27,000	14,000	360	260	12	N
K3309S	58 40 50	153 52 20	--	--	8,500	2,100	62,000	12,000	670	400	--	N
K3310S	58 40 49	153 52 2	710	450	9,300	7,200	32,000	21,000	340	230	10	N
K3311S	58 37 44	153 48 58	370	440	3,600	2,900	22,000	9,800	310	280	4.7	N
K3312S	58 39 36	153 41 50	--	--	4,100	2,100	40,000	12,000	1,300	400	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K3103S	N	25	65	3.4	6.5	1.2	--	N	210	57	17	5.4
K3104S	.29	21	63	3.3	5.8	3.6	3	N	130	43	11	5.2
K3105S	N	29	67	3	4.6	.83	--	N	350	57	20	6.4
K3106S	.32	23	53	2.4	N	3.4	2.7	N	280	52	13	5.9
K3107S	N	23	72	3.8	7.3	4.4	--	N	47	51	12	3.5
K3108S	.45	25	82	2.6	5.1	4.2	4.8	N	1,000	64	14	7.7
K3109S	.43	24	58	2.6	N	3.2	2.8	N	540	86	15	6.5
K3110S	N	26	84	2.5	3.6	N	--	N	2,000	74	22	6.2
K3111S	.34	30	77	2.7	N	4.1	2.3	N	870	62	12	6.8
K3112S	.25	11	4.9	1.4	N	3.5	N	N	130	55	6.2	3.9
K3113S	.28	N	65	3.6	18	3.5	3.8	N	700	N	9.5	6.7
K3114S	.36	15	56	3	6	3.5	2	N	370	50	11	5.2
K3115S	.22	21	62	2.2	N	2.8	1.7	N	2,000	30	7.2	6.3
K3116S	.4	23	62	3.2	15	3.4	4.1	N	430	65	14	6.5
K3117S	.16	17	46	2.9	N	2.5	N	N	180	21	6.6	2.9
K3118S	.38	26	71	2.3	N	3.2	3.4	N	480	62	14	5.9
K3119S	.29	20	59	2.1	N	2.7	2.4	N	330	51	11	4.8
K3120S	.4	N	42	1.4	N	N	N	N	180	N	12	5.2
K3121S	N	21	34	2.4	2.7	.18	--	N	220	89	22	6.3
K3122S	.34	N	29	1.7	N	N	N	N	210	N	24	9.3
K3122SD	N	15	30	2.1	N	N	--	8.8	250	110	35	8.1
K3123S	.61	N	48	3.7	4.8	N	N	N	350	N	20	7.5
K3124S	.39	N	46	3.2	6	N	N	N	350	N	9.5	5.7
K3125S	N	46	92	4.8	7.2	N	--	17	800	200	39	15
K3126S	.32	N	44	1.5	N	N	N	N	620	N	11	5.8
K3127S	N	42	64	4	5.1	N	--	12	620	130	42	10
K3128S	N	20	61	3.2	4	N	--	N	1,300	190	48	13
K3129S	N	17	38	2.7	3.5	N	--	N	480	160	46	11
K3130S	N	30	90	3.8	5.5	N	--	8.6	480	78	20	9.2
K3131S	N	21	50	2.3	3	N	--	6	870	58	15	8
K3132S	N	25	63	2.8	3.2	N	--	8.2	1,700	81	22	9.5
K3133S	N	24	65	3.7	5.2	N	--	9	400	100	23	6.3
K3134S	N	22	59	3.3	4.6	N	--	N	1,100	100	25	6.6
K3135S	N	20	57	1.4	1.4	.4	--	N	530	34	12	N
K3136S	N	23	79	2.2	<2.2	N	--	5.3	1,500	57	9.8	5.7
K3137S	N(.04)	61	290	4	N(3.6)	N(.16)	--	N	20,000	100	75	22
K3138S	.3	N	53	1.3	N	N	N	N	1,000	N	12	5.9
K3139S	.3	N	63	3.2	5.9	N	N	N	610	N	11	5
K3140S	N	20	27	1.9	2.5	N	--	4.9	80	47	13	<3.3
K3141S	.28	N	32	2.9	4.5	N	N	N	340	N	10	5.2
K3141SD	N	18	29	2.2	1.6	N	--	7.6	380	100	<17	4.4
K3142S	N	23	46	2.1	3	.72	--	5.1	200	49	13	<3.3
K3143S	.34	N	22	1.8	N	N	N	N	220	N	13	5
K3144S	N	27	89	2.8	3.7	N	--	8.1	2,100	92	26	10
K3145S	N	28	66	2.9	3.7	N	--	8.3	840	100	21	7.6
K3152S	N	80	17	3	4.5	.68	--	5.9	400	41	37	9.6
K3154S	N	34	56	5.5	N	N	--	5.8	560	51	16	N
K3300S	N	31	23	4.5	6.5	.45	--	N	360	100	33	9.1
K3301S	N	26	28	4.2	3.3	N	--	N	420	230	55	12
K3302S	N	18	25	2.7	2.5	N	--	N	350	96	31	7.3
K3303S	N	23	25	3.1	2.3	N	--	N	410	140	37	8.1
K3304S	N	45	40	3.1	3.7	.49	--	N	260	88	27	7.3
K3305S	N	41	25	4.1	5.6	.57	--	N	250	54	25	5.5
K3306S	N	79	110	5.4	7.7	3.4	--	N	360	42	37	9.9
K3307S	.34	37	34	2.4	N	3.6	N	N	290	43	18	7.3
K3308S	.38	56	120	4.3	N	6.2	3.7	N	330	53	22	8
K3309S	N	21	23	1.9	N	N	--	N	300	110	57	14
K3310S	.37	43	32	1.3	N	3.4	N	N	430	55	25	11
K3311S	.4	21	34	2.1	N	5.6	N	N	290	63	14	16
K3312S	N	14	24	3.5	3.9	N	--	N	550	100	34	13

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K3103S	5	6.8	23	N	<3	N	.56	N	N	N	N	N
K3104S	6.9	6.7	36	N	9.1	N	N	9.4	N	9.3	N	N
K3105S	6.3	8.2	29	N	N	N	N	N	N	N	N	N
K3106S	7.3	6.3	29	N	8.8	N	N	10	N	8	N	N
K3107S	4	11	16	N	<3.6	N	.49	N	N	N	N	N
K3108S	7.4	7.9	40	N	10	N	N	11	N	10	N	N
K3109S	6.9	6.7	39	N	8.1	N	N	11	N	11	N	N
K3110S	4.2	3.5	33	N	N	N	N	N	N	N	N	N
K3111S	6.6	6.7	33	N	7.6	N	N	9.2	N	11	N	N
K3112S	4.5	8.9	23	N	N	N	N	9.9	N	5	N	N
K3113S	N	4.7	32	N	N	N	N	13	N	12	N	N
K3114S	6.5	6.4	36	N	10	N	N	11	N	14	N	N
K3115S	5.2	4.3	33	N	8.3	N	N	11	N	14	N	N
K3116S	7.3	7.4	38	N	7.9	N	N	9.2	N	14	N	N
K3117S	4.1	4.5	23	N	N	N	N	N	N	8.3	N	N
K3118S	6.4	6.1	36	N	9.6	N	N	11	N	9.3	N	N
K3119S	5.2	4.2	31	N	8	N	N	9.4	N	6.6	N	N
K3120S	N	21	N	N	N	N	N	N	N	20	N	N
K3121S	4.1	8.2	19	N	N	N	.68	<4.1	N	N	N	N
K3122S	N	11	N	N	N	N	N	N	N	12	N	N
K3122SD	13	5.5	22	N	N	N	N	N	N	N	N	N
K3123S	N	10	N	N	N	N	N	N	N	13	N	N
K3124S	N	7.2	N	N	N	N	N	N	N	6.6	N	N
K3125S	7.1	18	80	N	<3.8	N	N	N	N	N	N	N
K3126S	N	7.5	N	N	N	N	N	N	N	8.8	N	N
K3127S	6.2	9.1	44	N	4.9	N	N	N	N	N	N	N
K3128S	7	3	50	N	N	N	1.1	N	N	N	N	N
K3129S	6.7	4.8	34	N	<3.6	N	1.6	N	N	N	N	N
K3130S	6	120	44	N	7.9	N	<.42	N	N	N	N	N
K3131S	4.3	12	34	N	4.7	N	N	N	N	N	N	N
K3132S	4.9	15	35	N	5.1	N	N	N	N	N	N	N
K3133S	4.4	87	25	N	5.2	N	N	N	N	N	N	N
K3134S	5.4	2.8	30	N	N	N	N	N	N	N	N	N
K3135S	1.8	2	15	N	N	N	N	N	N	N	N	N
K3136S	3.2	36	39	N	<3.9	N	N	N	N	N	N	N
K3137S	6.4	N	100	N(.8)	<12	N(1.2)	N(1.6)	N(12)	N(8)	N(8)	N(10)	N(32)
K3138S	N	7.9	N	N	N	N	N	N	N	8.9	N	N
K3139S	N	6	N	N	N	N	N	N	N	9.4	N	N
K3140S	1.9	5.2	15	N	4.4	N	N	<3	N	N	N	N
K3141S	N	5.7	N	N	N	N	N	N	N	8.6	N	N
K3141SD	3.4	1.6	28	N	N	N	N	N	N	N	N	N
K3142S	2.8	28	19	N	4.8	N	N	N	N	N	N	N
K3143S	N	9.3	N	N	N	N	N	N	N	6.7	N	N
K3144S	4.5	13	36	N	<2.9	N	N	N	N	N	N	N
K3145S	4.1	15	38	N	N	N	N	N	N	N	N	N
K3152S	21	32	78	N	8.5	N	N	N	N	31	N	N
K3154S	1.8	N	12	N	5.6	N	N	N	N	<7.4	N	N
K3300S	8.2	11	39	N	<5.8	N	N	N	N	N	N	N
K3301S	8.6	17	45	N	N	N	N	N	N	N	N	N
K3302S	7.6	12	35	N	<3.1	N	N	N	N	N	N	N
K3303S	9	17	39	N	<3.3	N	N	N	N	N	N	N
K3304S	6.1	16	32	N	<4.3	N	.43	N	N	N	N	N
K3305S	6.5	9.7	28	N	<4.3	N	N	N	N	N	N	N
K3306S	18	30	62	N	<8.9	N	<.48	N	N	N	N	N
K3307S	13	17	38	N	8.5	N	N	N	N	5.5	N	N
K3308S	18	28	59	N	9.5	N	N	N	N	8.4	N	N
K3309S	16	170	38	N	<9.8	N	9.1	N	N	<25	N	N
K3310S	20	29	130	N	29	N	N	N	N	50	N	N
K3311S	15	25	48	N	14	N	1.3	N	N	39	N	N
K3312S	8.8	120	150	N	<9.4	N	1.2	N	N	51	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K3313S	58 42 43	153 39 3	360	160	1,900	3,300	18,000	4,400	530	85	1.6	N
K3314S	58 41 2	153 34 10	200	190	1,800	2,300	21,000	12,000	710	170	5.2	N
K3315S	58 42 43	153 30 15	200	130	1,900	1,900	16,000	13,000	420	220	2.9	N
K3316S	58 45 5	153 27 25	--	--	2,800	1,700	17,000	6,800	140	420	--	N
K3317S	58 54 47	153 22 57	310	320	3,300	2,700	61,000	6,000	1,100	N	3.3	N
K3318S	58 53 14	153 20 45	290	250	5,200	2,900	24,000	11,000	360	110	6.7	N
K3319S	58 51 3	153 24 15	310	200	2,700	2,700	25,000	3,400	830	130	1.4	N
K3319SD	58 51 3	153 24 15	--	--	2,300	2,500	33,000	3,800	990	210	--	N
K3320S	58 47 30	153 26 3	--	--	2,300	3,800	39,000	5,900	1,200	220	--	N
K3321S	58 56 25	153 32 48	270	390	5,300	2,400	58,000	5,900	880	N	5.4	N
K3322S	58 56 50	153 34 10	320	440	4,500	2,400	43,000	5,800	690	15	4.8	N
K3323S	58 56 48	153 34 32	260	120	7,100	1,800	29,000	2,500	1,700	N	.72	N
K3324S	58 55 22	153 43 38	170	470	10,000	6,200	30,000	16,000	600	460	24	N
K3325S	58 53 57	153 43 14	410	500	6,700	6,000	28,000	12,000	290	250	17	N
K3326S	58 53 45	153 43 20	250	340	6,400	8,400	34,000	10,000	300	200	15	N
K3327S	59 2 16	154 0 2	--	--	7,000	6,300	20,000	14,000	770	230	--	N
K3328S	59 2 10	153 59 50	--	--	7,900	8,200	24,000	14,000	940	300	--	N
K3329S	58 57 0	153 53 30	--	--	7,000	7,300	31,000	14,000	870	570	--	N
K3330S	58 53 30	153 55 42	350	630	6,000	30,000	61,000	9,400	N	N	16	27
K3331S	58 49 13	153 59 33	--	--	11,000	9,200	39,000	15,000	270	390	--	N
K3332S	58 49 0	153 59 40	--	--	6,100	7,500	26,000	8,500	120	520	--	N
K3333S	58 48 59	153 59 52	--	--	7,400	12,000	25,000	9,900	260	280	--	N
K3334S	58 49 1	153 51 43	--	--	4,100	2,300	31,000	6,100	390	310	--	N
K3335S	58 52 28	153 52 45	--	--	4,400	2,900	24,000	6,300	180	270	--	N
K3336S	58 50 47	153 46 50	--	--	8,200	5,000	30,000	12,000	800	340	--	N
K3337S	58 54 18	154 47 52	--	--	3,300	1,600	38,000	5,300	500	460	--	N
K3338S	58 52 36	154 40 35	--	--	3,600	2,100	35,000	7,500	660	310	--	N
K3339S	58 50 50	154 41 25	--	--	2,600	1,600	20,000	3,800	590	300	--	N
K3340S	58 48 26	154 40 12	--	--	1,400	2,600	39,000	3,800	2,100	350	--	N
K3340SD	58 48 26	154 40 12	--	--	1,600	2,400	26,000	3,400	1,300	390	--	N
K3341S	58 48 32	154 40 32	--	--	2,800	2,400	31,000	5,300	1,200	360	--	N
K3342S	58 49 48	154 51 37	--	--	2,500	1,800	15,000	5,300	480	260	--	N
K3343S	58 46 29	154 46 40	--	--	1,600	2,300	39,000	3,300	2,600	410	--	N
K3344S	58 48 5	154 52 50	--	--	2,900	1,800	25,000	6,400	1,000	350	--	N
K3345S	58 45 37	155 1 58	--	--	2,900	2,000	19,000	6,400	920	260	--	N
K3346S	58 49 58	154 8 18	--	--	7,000	7,200	18,000	10,000	320	330	--	N
K3347S	58 54 19	154 9 48	--	--	6,700	9,700	20,000	12,000	610	330	--	N
K3348S	58 56 41	154 4 25	--	--	7,200	8,100	17,000	13,000	590	280	--	N
K3349S	58 56 44	154 4 10	--	--	6,400	6,400	18,000	10,000	640	320	--	N
K3350S	58 45 38	154 2 20	--	--	5,900	5,200	19,000	11,000	770	310	--	N
K3351S	58 46 10	154 2 38	--	--	7,400	5,900	34,000	13,000	41	370	--	N
K3352S	58 44 1	153 52 38	--	--	4,000	4,800	49,000	8,000	530	400	--	N
K3353S	58 46 57	154 4 11	--	--	7,400	4,000	27,000	10,000	410	330	--	N
K3354S	58 46 38	154 9 35	--	--	7,800	11,000	20,000	16,000	1,300	370	--	N
K3355S	58 46 30	154 9 28	--	--	6,500	8,500	17,000	13,000	980	290	--	N
K3356S	58 50 5	154 13 28	--	--	7,800	6,800	19,000	13,000	820	270	--	N
K3357S	58 49 30	154 14 20	--	--	4,300	3,500	12,000	7,200	520	150	--	N
K3358S	58 46 53	154 13 36	--	--	6,200	7,000	17,000	12,000	1,200	330	--	N
K3358SD	58 46 53	154 13 36	--	--	10,000	11,000	27,000	19,000	1,100	360	--	N
K3359S	58 42 48	154 14 52	--	--	8,500	5,100	23,000	12,000	530	380	--	N
K3360S	58 42 50	154 14 44	--	--	9,200	5,400	25,000	12,000	720	380	--	N
K3361S	58 42 30	154 23 5	--	--	7,600	5,000	23,000	12,000	720	290	--	N
K3362S	58 59 0	154 47 12	--	--	2,300	2,900	56,000	4,100	240	620	--	N
K3363S	58 57 23	154 51 10	--	--	2,600	2,000	31,000	5,100	390	390	--	N
K3364S	58 38 48	154 16 47	--	--	6,300	7,600	20,000	14,000	590	230	--	N
K3365S	58 56 17	154 56 57	--	--	3,100	1,900	79,000	5,500	1,100	390	--	N
K3366S	58 38 42	154 16 50	--	--	5,100	8,900	21,000	14,000	670	230	--	N
K3367S	58 45 4	154 21 36	--	--	8,700	5,000	24,000	13,000	890	340	--	N
K3368S	58 51 31	154 14 1	--	--	6,500	6,200	18,000	13,000	920	330	--	N
K3369S	58 46 36	154 31 58	--	--	2,800	2,300	17,000	4,700	660	370	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K3313S	.3	10	13	1.3	N	3.4	2.3	N	170	68	17	5.6
K3314S	.42	10	25	2.2	5.8	3.9	1.5	N	660	60	13	9.9
K3315S	.32	8.4	21	2.1	6.3	4.1	1.8	N	660	40	12	7.1
K3316S	N	10	25	5.5	11	.97	--	N	510	46	33	10
K3317S	.98	12	13	.93	N	3.7	1.1	12	410	310	88	13
K3318S	.34	11	20	1.3	N	3.2	1	N	500	68	21	10
K3319S	.48	8.8	7.1	1.5	N	3.7	2	N	140	140	37	5.7
K3319SD	N	10	8.1	1.6	1.3	N	--	N	140	190	64	4.6
K3320S	N	19	10	1.5	N	N	--	N	140	170	63	6.3
K3321S	.93	8.8	17	N	N	2.8	1.1	N	260	290	68	8.7
K3322S	.59	9.3	18	N	N	3.1	1.4	N	200	170	44	8.9
K3323S	.59	6.8	8.3	N	N	1.9	2.3	N	170	190	39	9.2
K3324S	.46	72	41	5.5	8.9	6.5	2.8	N	420	53	31	11
K3325S	.39	23	32	1.7	N	4.1	N	N	330	62	30	10
K3326S	.37	20	22	1.3	N	3.2	N	N	300	70	29	14
K3327S	N	61	53	3.9	4.6	.27	--	N	280	55	24	5.8
K3328S	N	66	49	4	4	.5	--	N	280	61	29	6
K3329S	N	65	49	5.5	7.9	N	--	N	300	84	36	7.6
K3330S	N	N	59	5.5	7.7	N	N	N	430	N	34	10
K3331S	N	69	100	6.1	8.2	.4	--	N	380	64	44	8.7
K3332S	N	45	91	4.8	7.9	1.5	--	N	370	49	32	7.8
K3333S	N	49	78	4.6	6.4	1.1	--	N	290	49	34	6.6
K3334S	N	17	37	3	3.5	N	--	N	270	94	39	6.7
K3335S	N	22	40	3.8	5.3	1.9	--	N	350	48	29	7.2
K3336S	N	19	29	3.6	4.6	N	--	N	400	66	26	8.4
K3337S	N	16	39	2.3	2.4	N	--	N	400	110	53	8.2
K3338S	N	26	47	2	1.2	N	--	N	300	95	38	6.2
K3339S	N	7.4	50	1.4	1.5	N	--	N	160	78	39	4.9
K3340S	N	13	20	1.9	1	N	--	N	170	160	35	7.9
K3340SD	N	11	27	1.9	1.9	N	--	N	160	110	30	5.4
K3341S	N	15	40	1.7	.99	N	--	N	230	110	29	6.8
K3342S	N	11	21	1.3	1.3	.14	--	N	270	43	19	6.6
K3343S	N	8.7	7.7	1.9	1.3	N	--	N	240	160	<23	8.5
K3344S	N	11	43	1.9	1.5	N	--	N	230	74	24	7.3
K3345S	N	18	46	1.6	1.1	N	--	N	170	65	23	5.9
K3346S	N	59	58	3	3.1	1	--	N	270	41	28	5
K3347S	N	71	47	3.5	4.2	.67	--	N	280	53	27	6.7
K3348S	N	48	38	2.5	1.9	.3	--	N	260	44	25	4.6
K3349S	N	53	38	3.1	3.3	.69	--	N	240	45	27	5.5
K3350S	N	32	25	2.8	3.2	.93	--	N	320	56	26	6.6
K3351S	N	62	45	4.3	5.3	N	--	N	300	54	38	8.1
K3352S	N	24	11	3.8	4.1	N	--	N	170	260	66	6.2
K3353S	N	36	66	4.1	5.1	.32	--	N	260	65	35	4.8
K3354S	.2	42	29	3.8	4.1	1	--	N	270	57	31	7.4
K3355S	N	39	32	3.1	2.5	.87	--	N	230	53	26	4.7
K3356S	N	77	64	3.4	3.3	.95	--	N	280	49	27	5.2
K3357S	N	28	36	2.4	2.5	1.1	--	N	260	38	20	3.3
K3358S	N	44	27	2.8	2	.82	--	N	230	53	26	3.6
K3358SD	.14	73	46	3.9	3.3	.12	--	N	350	65	35	8.9
K3359S	N	66	160	4.8	4.7	3	--	N	310	51	32	5.5
K3360S	N	66	130	4.5	4.9	2.6	--	N	330	59	29	6.6
K3361S	N	52	99	4.2	4.6	2	--	N	330	63	30	6.4
K3362S	N	14	42	4.2	4.5	N	--	N	190	220	110	3.8
K3363S	N	24	36	1.7	N	N	--	N	220	100	44	N
K3364S	N	39	62	4.2	4.9	1.6	--	N	280	58	23	5
K3365S	N	18	41	2.6	N	N	--	N	240	200	73	3
K3366S	N	32	29	5.3	6.7	.94	--	N	270	66	25	4.8
K3367S	N	50	96	4.3	4.6	2.1	--	N	360	60	31	6.7
K3368S	N	110	87	3.8	4	1.7	--	N	350	54	24	4.3
K3369S	N	10	20	2	2.9	2.1	--	N	210	63	18	5.7

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K3313S	9.6	25	20	N	N	N	N	N	N	13	N	N
K3314S	10	19	110	N	27	N	2.7	N	N	120	N	N
K3315S	9.5	15	70	N	14	N	1.4	N	N	17	N	N
K3316S	18	42	98	<.32	14	N	.94	N	N	96	N	N
K3317S	21	36	37	N	10	N	1.3	N	N	12	N	N
K3318S	17	22	86	N	19	N	N	N	N	71	N	N
K3319S	17	21	20	N	N	N	N	N	N	7.9	N	N
K3319SD	13	15	20	N	N	N	N	N	N	N	N	N
K3320S	12	22	24	N	N	N	N	N	N	N	N	N
K3321S	28	16	33	N	9.1	N	1.2	N	N	18	N	N
K3322S	25	23	30	N	8.4	N	1.2	N	N	16	N	N
K3323S	55	12	29	N	N	N	N	N	N	6.1	N	N
K3324S	30	19	60	N	14	N	N	N	N	28	N	N
K3325S	26	32	64	N	12	N	N	N	N	18	N	N
K3326S	26	22	81	N	13	N	N	N	N	36	N	N
K3327S	9.2	13	29	N	<5.6	N	N	N	N	N	N	N
K3328S	10	16	30	N	<6.4	N	N	N	N	N	N	N
K3329S	16	11	39	N	<7.7	N	N	N	N	N	N	N
K3330S	N	17	N	N	N	N	N	N	N	7.7	N	N
K3331S	25	25	63	N	<8.8	N	N	N	N	N	N	N
K3332S	21	19	53	N	7.5	N	N	N	N	N	N	N
K3333S	16	15	42	N	7.3	N	N	N	N	N	N	N
K3334S	16	20	39	N	<5.5	N	N	N	N	N	N	N
K3335S	14	17	44	N	5.5	N	N	N	N	N	N	N
K3336S	14	14	40	N	<7.4	N	N	N	N	N	N	N
K3337S	11	43	69	N	14	N	1.5	N	N	N	N	N
K3338S	8.7	73	57	N	13	N	3.4	N	N	N	N	N
K3339S	6.2	18	29	N	N	N	N	N	N	N	N	N
K3340S	4.9	17	30	N	N	N	N	N	N	N	N	N
K3340SD	5	15	24	N	N	N	N	N	N	N	N	N
K3341S	7.1	20	46	N	<2	N	N	N	N	N	N	N
K3342S	6.6	23	84	N	5.9	N	N	N	N	<15	N	N
K3343S	3.6	5.2	47	N	N	N	N	N	N	N	N	N
K3344S	9.3	31	35	N	N	N	N	N	N	25	N	N
K3345S	7.5	23	25	N	N	N	N	N	N	<9.8	N	N
K3346S	11	15	36	N	N	N	N	N	N	N	N	N
K3347S	11	16	32	N	N	N	N	N	N	N	N	N
K3348S	9	14	31	N	N	N	N	N	N	N	N	N
K3349S	9.8	13	30	N	N	N	N	N	N	N	N	N
K3350S	9.7	14	34	N	N	N	N	N	N	N	N	N
K3351S	21	22	58	N	N	N	N	N	N	N	N	N
K3352S	13	15	28	N	N	N	N	N	N	N	N	N
K3353S	17	14	43	N	N	N	N	N	N	N	N	N
K3354S	10	15	32	N	N	N	N	N	N	N	N	N
K3355S	9.9	15	30	N	N	N	N	N	N	N	N	N
K3356S	10	16	31	N	N	N	N	N	N	N	N	N
K3357S	7.3	9.2	26	N	N	N	N	N	N	N	N	N
K3358S	9.2	13	29	N	N	N	N	N	N	N	N	N
K3358SD	14	23	42	N	<8.1	N	N	N	N	N	N	N
K3359S	15	29	49	N	N	N	N	N	N	N	N	N
K3360S	14	28	51	N	N	N	N	N	N	N	N	N
K3361S	12	20	43	N	N	N	N	N	N	N	N	N
K3362S	16	39	25	N	N	N	N	N	N	N	N	N
K3363S	9.2	31	38	N	<4.2	N	N	N	N	N	N	N
K3364S	9	14	34	N	N	N	N	N	N	N	N	N
K3365S	11	55	34	N	<3.6	N	2.5	N	N	N	N	N
K3366S	6.8	9.8	26	N	N	N	N	N	N	N	N	N
K3367S	13	24	46	N	N	N	N	N	N	N	N	N
K3368S	9.4	17	39	N	N	N	N	N	N	N	N	N
K3369S	6.6	15	28	N	4.6	N	N	N	N	<11	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K3370S	58 46 23	154 31 55	--	--	3,600	3,300	40,000	7,000	1,900	280	--	N
K3371S	58 49 38	154 24 53	--	--	2,900	8,700	9,900	13,000	150	150	--	N
K3372S	58 52 3	154 27 45	--	--	2,400	2,000	17,000	5,100	970	260	--	N
K3372SD	58 52 3	154 27 45	--	--	23	13	170	39	8.1	N	--	N
K3373S	58 53 56	154 19 49	--	--	7,400	5,000	21,000	12,000	460	230	--	N
K3374S	58 56 53	154 18 6	--	--	6,700	4,300	20,000	11,000	710	220	--	N
K3375S	58 55 6	154 14 12	--	--	6,300	6,200	17,000	14,000	860	150	--	N
K3376S	58 55 15	154 14 0	--	--	7,000	5,700	19,000	15,000	650	170	--	N
K3377S	58 58 50	154 24 52	--	--	6,500	5,300	30,000	11,000	930	220	--	N
K3378S	58 59 39	154 16 50	--	--	3,900	3,300	26,000	9,700	860	190	--	N
K3379S	58 59 30	154 16 0	--	--	4,600	4,400	22,000	14,000	1,000	210	--	N
K3380S	58 58 33	154 27 10	--	--	5,600	6,700	28,000	13,000	370	220	--	N
K3381S	58 57 13	154 31 36	--	--	1,900	1,500	54,000	3,500	290	110	--	N
K3382S	58 57 9	154 31 35	--	--	2,700	2,000	26,000	5,100	1,100	270	--	N
K3383S	58 55 10	154 32 57	--	--	3,000	2,000	20,000	5,600	780	200	--	N
K3384S	58 47 26	155 5 30	--	--	3,000	3,400	38,000	8,200	1,000	230	--	N
K3385S	58 58 58	154 35 35	--	--	840	2,000	36,000	2,900	2,900	460	--	N
K3386S	58 59 56	154 32 58	--	--	4,400	3,000	48,000	9,100	480	390	--	N
K3387S	58 59 48	154 36 45	--	--	3,500	6,000	35,000	13,000	900	370	--	N
K3388S	58 50 36	154 36 49	--	--	1,800	1,800	13,000	3,100	570	360	--	N
K3389S	58 50 37	154 36 38	--	--	2,600	1,700	20,000	4,400	430	330	--	N
K3390S	58 51 3	154 57 50	--	--	1,900	2,000	30,000	4,600	670	370	--	N
K3391S	58 57 55	156 1 0	--	--	2,100	1,600	14,000	8,300	740	400	--	N
K3394S	58 53 29	154 57 48	--	--	5,500	2,100	49,000	6,800	440	880	--	N
K3395S	58 59 59	154 58 47	--	--	2,100	1,700	17,000	6,300	670	480	--	N
K3402S	58 36 57	154 19 25	--	--	4,300	8,800	30,000	4,000	7.1	450	--	N
K3402S	58 36 57	154 19 25	510	350	17,000	42,000	36,000	2,000	2.9	860	2.9	43
K3403S	58 37 12	154 26 56	--	--	8,400	5,100	30,000	11,000	650	430	--	N
K3404S	58 33 42	154 31 45	--	--	5,400	7,300	27,000	14,000	1,300	380	--	N
K3405S	58 41 14	155 1 15	--	--	1,900	2,800	45,000	5,000	2,500	550	--	N
K3407S	58 41 40	155 1 37	--	--	1,100	1,500	9,900	3,300	510	310	--	N
K3413S	58 16 18	155 26 22	--	--	5,100	1,300	45,000	6,600	960	440	--	N
K3414S	58 16 10	155 26 20	--	--	2,700	2,000	24,000	5,100	1,400	340	--	N
K3418S	58 25 36	155 27 55	--	--	2,900	2,700	34,000	5,800	1,400	360	--	N
K3420S	58 28 11	155 27 16	--	--	1,900	1,800	43,000	3,300	3,000	290	--	N
K3422S	58 26 40	154 48 32	--	--	2,600	2,600	69,000	3,700	4,800	460	--	N
K3607S	58 54 15	154 53 8	260	210	1,700	1,900	17,000	4,600	42	180	1.1	N
K3622S	58 4 32	154 44 10	240	250	4,100	2,800	30,000	9,400	520	280	9.2	N
K3625S	58 0 23	155 39 15	210	100	940	1,800	340,000	3,900	41	N	.76	N
K4001S	58 26 20	154 44 50	--	--	4,500	6,200	36,000	9,900	2,200	210	--	N
K4001SD	58 26 20	154 44 50	--	--	5,700	7,100	63,000	12,000	3,600	200	--	N
K4002S	58 29 8	154 47 20	--	--	1,400	3,300	19,000	4,500	1,400	190	--	N
K4002SD	58 29 8	154 47 20	--	--	1,400	3,400	33,000	4,200	2,600	140	--	N
K4003S	58 24 13	154 40 40	--	--	2,800	4,100	37,000	6,200	2,000	250	--	N
K4004S	58 26 11	154 36 50	--	--	1,200	2,900	24,000	4,500	1,800	150	--	N
K4005S	58 24 50	154 35 5	--	--	2,500	7,400	36,000	9,100	1,300	110	--	N
K4006S	58 31 43	154 40 39	--	--	6,000	7,100	33,000	11,000	2,200	150	--	N
K4007S	58 31 42	154 40 51	--	--	6,800	6,900	24,000	12,000	970	190	--	N
K4008S	58 31 52	154 36 36	--	--	9,400	8,900	32,000	16,000	1,700	190	--	N
K4009S	58 31 40	154 35 10	--	--	5,300	6,000	35,000	12,000	1,900	190	--	N
K4010S	58 30 50	154 34 5	--	--	8,500	9,100	31,000	16,000	2,000	220	--	N
K4011S	58 30 28	155 4 38	--	--	6,400	8,000	79,000	13,000	5,900	230	--	N
K4012S	58 31 36	155 0 24	--	--	6,500	7,700	86,000	16,000	5,500	160	--	N
K4013S	58 32 20	154 56 50	--	--	2,100	4,000	58,000	5,800	3,900	150	--	N
K4014S	58 33 52	154 40 47	--	--	13,000	9,200	46,000	25,000	1,700	330	--	N
K4015S	58 34 37	154 38 6	--	--	8,000	5,600	31,000	11,000	1,700	160	--	N
K4016S	58 34 18	154 30 35	--	--	5,300	14,000	35,000	24,000	2,100	190	--	N
K4017S	58 33 37	154 29 27	--	--	1,500	42,000	32,000	71,000	1,700	<30	--	N
K4018S	58 34 25	154 26 52	--	--	7,500	9,100	23,000	8,900	310	340	--	N
K4018SD	58 34 25	154 26 52	--	--	7,800	9,200	31,000	9,500	500	240	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K3370S	N	16	14	2.7	1.9	N	--	N	300	140	<23	8.6
K3371S	N	68	29	2.6	2.6	.66	--	N	190	21	12	2.3
K3372S	N	9.6	15	1.4	1.5	.47	--	N	220	73	17	5.8
K3372SD	N	.053	.025	N	N	N	--	N	2	.77	N	2.4
K3373S	N	49	46	2.5	1.9	.52	--	N	310	56	35	6.6
K3374S	N	30	31	3.1	3.4	.11	--	N	280	58	32	6
K3375S	N	57	60	3	2.7	.28	--	N	280	54	31	5.4
K3376S	N	55	64	2.8	2.8	N	--	N	380	46	31	5.5
K3377S	N	28	77	2.3	1.8	N	--	N	400	83	28	7.3
K3378S	N	41	46	1.9	N	.14	--	N	370	90	29	6.5
K3379S	N	50	73	2.8	2.7	1.3	--	N	520	63	28	7.1
K3380S	N	26	21	1.6	N	N	--	N	320	79	25	5.7
K3381S	N	4.7	17	N	N	N	--	N	140	160	<32	N
K3382S	N	7.2	23	1.4	N	N	--	N	330	94	17	6
K3383S	N	12	49	1.3	N	.044	--	N	180	84	20	3.8
K3384S	N	13	39	2.3	N	N	--	N	290	160	27	2.6
K3385S	N	6.8	7.2	1.8	1.3	N	--	N	220	160	<15	6.9
K3386S	.46	9.6	29	1.6	N	N	--	N	220	84	<22	6.6
K3387S	N	27	34	1.6	N	N	--	N	220	120	46	6.8
K3388S	.017	13	36	1.5	1.9	.61	--	N	130	52	16	2.8
K3389S	.32	9.4	45	1.2	N	N	--	N	210	54	23	4.2
K3390S	N	9.3	28	1.4	N	N	--	N	210	93	22	4.3
K3391S	1.1	18	58	2.5	4.1	.73	--	N	100	57	19	2.6
K3394S	N	64	69	4.5	5.9	N	--	N	250	80	33	13
K3395S	.8	13	30	1.6	1.7	N	--	N	320	52	21	4.2
K3402S	N	55	67	6.3	10	6	--	N	470	45	<16	5.4
K3402S	N	140	110	7.4	12	N	N	N	640	43	7.3	6.6
K3403S	N	56	120	4.6	5.6	1.9	--	N	380	61	31	7.4
K3404S	N	54	48	2.7	1.9	N	--	N	250	96	25	6.9
K3405S	N	35	33	1.8	N	N	--	N	210	170	<24	7.3
K3407S	N	9.7	15	N	1.2	.74	--	N	92	40	9.9	2.1
K3413S	N	15	44	1.7	N	N	--	N	170	96	<21	6.6
K3414S	N	15	24	1.3	N	N	--	N	190	93	18	6.6
K3418S	N	17	11	2.3	2	N	--	N	320	110	23	6.9
K3420S	N	7.8	5.4	1.4	N	N	--	N	270	170	<17	9.1
K3422S	N	10	6.3	2	N	N	--	N	360	230	<20	13
K3607S	.17	8.4	24	1.7	N	4.8	N	N	430	23	6.5	7.8
K3622S	.51	34	32	2.7	N	4.6	N	N	360	59	20	11
K3625S	.58	12	24	N	N	12	N	N	1,300	46	N	N
K4001S	N	35	23	2.6	1.6	N	--	N	350	150	33	13
K4001SD	N	33	22	2.7	N	N	--	15	460	200	<19	11
K4002S	N	16	6.1	1.1	N	N	--	N	170	87	18	7.3
K4002SD	N	14	4	1.3	N	N	--	9.6	210	120	<8.8	7.9
K4003S	N	20	18	3.2	3.9	N	--	N	290	170	44	17
K4004S	N	13	11	1.7	1.9	N	--	N	210	120	30	10
K4005S	N	31	19	2.4	2.1	N	--	N	510	190	43	11
K4006S	N	41	49	3.2	3	N	--	9.6	320	110	24	11
K4007S	N	56	89	3.3	3.1	1	--	N	290	89	27	7.2
K4008S	.55	55	100	3.8	4.6	N	--	8.9	360	84	26	11
K4009S	N	42	94	3.2	2.7	N	--	N	330	140	36	14
K4010S	N	66	78	3.8	4.1	N	--	9	340	89	24	11
K4011S	N	40	35	4.6	2.7	N	--	23	530	300	35	19
K4012S	N	49	79	5	3.2	N	--	24	620	310	30	19
K4013S	N	16	12	2.6	<1.4	N	--	13	450	170	14	17
K4014S	N	100	270	6.7	7.7	1.8	--	13	580	120	46	15
K4015S	N	42	110	3.2	3.6	N	--	9.2	380	100	21	13
K4016S	N	94	79	2.4	N	N	--	N	300	150	37	15
K4017S	N(.04)	410	35	4	N(3.6)	N(.16)	--	N	200	140	31	N(8)
K4018S	N	61	49	4.8	6.5	4.2	--	N	380	57	24	5.7
K4018SD	N	51	75	4.5	5.7	1.6	--	5.3	420	52	<16	6.6

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K3370S	6.1	9.3	45	N	<3.6	N	N	N	N	N	--	N
K3371S	7.3	9.8	20	N	25	N	N	N	N	N	--	N
K3372S	5	10	33	N	5.3	N	N	N	N	<10	--	N
K3372SD	N	.21	.34	N	N	N	.49	N	N	N	N	N
K3373S	14	20	33	N	<6.3	N	N	N	N	N	--	N
K3374S	13	14	33	N	<5.7	N	N	N	N	N	--	N
K3375S	13	10	36	N	8.9	N	N	N	N	N	--	N
K3376S	12	11	38	N	<8.3	N	N	N	N	N	--	N
K3377S	12	17	33	N	<5.7	N	N	N	N	N	--	N
K3378S	9.8	15	35	N	<6.5	N	N	N	N	N	--	N
K3379S	11	11	38	N	<6.2	N	.61	N	N	N	--	N
K3380S	8.6	16	35	N	<8.3	N	N	N	N	N	--	N
K3381S	2.1	6.9	17	N	N	N	N	N	N	N	--	N
K3382S	3.6	9.8	37	N	5.3	N	N	N	N	N	--	N
K3383S	6	23	36	N	17	N	N	N	N	<14	--	N
K3384S	5	18	29	N	N	N	N	N	N	N(5.8)	--	N
K3385S	2.4	1.8	39	N	N	N	N	N	N	N	N	N
K3386S	2.6	9.9	31	N	N	N	1	N	N	N	N	N
K3387S	10	22	45	N	N	N	N	N	N	N	N	N
K3388S	3.9	17	30	N	3.6	N	N	N	N	N	N	N
K3389S	4.8	14	26	N	N	N	N	N	N	N	N	N
K3390S	3.9	22	27	N	N	N	N	N	N	N	N	N
K3391S	3.5	3.7	33	N	N	N	N	N	N	N	N	N
K3394S	10	910	27	N	N	N	9.2	N	N	N	N	N
K3395S	4.9	12	36	N	5.2	N	N	N	N	N	N	N
K3402S	11	35	54	N	N	N	N	N	N	N	N	N
K3402S	13	35	N	N	N	N	N	N	N	14	N	N
K3403S	15	25	56	N	N	N	N	N	N	N	N	N
K3404S	10	60	41	N	N	N	N	N	N	N	N	N
K3405S	5.3	12	37	N	N	N	N	N	N	N	N	N
K3407S	3.1	9.6	13	N	N	N	N	N	N	N	N	N
K3413S	10	210	35	N	<3	N	12	N	N	N	N	N
K3414S	6	86	36	N	N	N	4.1	N	N	<7.3	N	N
K3418S	7.3	12	37	N	N	N	N	N	N	N	N	N
K3420S	4.9	3.4	46	N	N	N	N	N	N	N	N	N
K3422S	6.7	12	79	N	N	N	N	N	N	N	N	N
K3607S	5.4	28	64	N	45	N	1.1	9.2	N	10	N	N
K3622S	23	25	61	N	14	N	N	9.3	N	30	N	N
K3625S	N	6.6	16	N	N	N	N	N	N	N	N	N
K4001S	9.1	15	120	N	N	N	N	N	N	N	N	N
K4001SD	8.6	13	140	N	N	N	N	N	N	N	N	N
K4002S	4.1	10	32	N	N	N	N	N	N	N	N	N
K4002SD	3.2	4.1	34	N	N	N	N	N	N	N	N	N
K4003S	22	10	60	N	N	N	N	N	N	N	N	N
K4004S	9.1	12	39	N	N	N	N	N	N	N	N	N
K4005S	11	20	54	N	N	N	N	N	N	N	N	N
K4006S	11	13	49	N	N	N	N	N	N	N	N	N
K4007S	12	20	45	N	N	N	N	N	N	N	N	N
K4008S	13	20	51	N	<1.6	N	N	N	N	N	N	N
K4009S	15	16	60	N	N	N	N	N	N	N	N	N
K4010S	13	18	47	N	N	N	N	N	N	N	N	N
K4011S	11	8.9	74	N	N	N	N	N	N	N	N	N
K4012S	11	15	87	N	N	N	N	N	N	N	N	N
K4013S	5.6	2.6	73	N	N	N	N	N	N	N	N	N
K4014S	21	39	90	N	<4.1	N	N	N	N	N	N	N
K4015S	13	15	52	N	N	N	N	N	N	N	N	N
K4016S	12	20	47	N	N	N	N	N	N	N	N	N
K4017S	8.5	19	41	N(.8)	81	N(1.2)	N(1.6)	N(12)	N(8)	N(8)	<50	N(32)
K4018S	13	25	52	N	N	N	N	N	N	N	N	N
K4018SD	11	18	45	N	N	N	N	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K4034S	58 35 16	155 34 40	--	--	1,300	3,100	33,000	4,800	2,300	340	--	N
K4035S	58 34 37	155 25 20	--	--	1,000	2,800	16,000	9,600	980	270	--	N
K4036S	58 33 22	155 24 5	--	--	4,000	11,000	26,000	15,000	690	140	--	N
K4037S	58 30 12	155 25 20	--	--	3,300	3,200	51,000	6,800	1,700	290	--	N
K4038S	58 40 32	155 48 58	--	--	3,600	7,400	30,000	15,000	1,800	260	--	N
K4039S	58 41 30	155 51 27	--	--	1,200	4,800	44,000	7,300	550	540	--	N
K4040S	58 44 19	156 0 40	--	--	5,600	7,700	31,000	21,000	1,500	230	--	N
K4041S	58 47 37	155 56 30	--	--	3,100	6,200	42,000	13,000	2,800	160	--	N
K4042S	58 50 0	155 58 30	--	--	1,700	3,400	16,000	14,000	930	500	--	N
K4043S	58 51 27	155 57 18	--	--	3,400	3,600	68,000	16,000	4,100	110	--	N
K4044S	58 51 5	155 55 55	--	--	3,400	5,300	52,000	20,000	1,600	350	--	N
K4045S	58 51 40	155 53 31	--	--	2,900	3,000	38,000	12,000	1,800	230	--	N
K4046S	58 51 32	155 53 13	--	--	4,700	4,800	53,000	14,000	2,000	310	--	N
K4047S	58 35 38	155 44 0	--	--	4,100	4,100	110,000	6,400	2,700	420	--	N
K4048S	58 21 45	155 41 45	--	--	3,000	5,900	23,000	11,000	670	280	--	N
K4048SD	58 21 45	155 41 45	--	--	2,400	5,600	24,000	11,000	790	170	--	N
K4049S	58 21 32	155 42 0	--	--	2,400	4,700	32,000	10,000	1,900	290	--	N
K4050S	58 21 12	155 41 28	--	--	2,100	3,700	33,000	6,800	1,600	180	--	N
K4051S	58 17 27	155 54 35	--	--	1,300	1,600	13,000	3,900	780	210	--	N
K4052S	58 9 13	156 18 18	--	--	1,700	5,200	21,000	12,000	1,400	390	--	N
K4053S	58 4 50	156 12 40	--	--	1,200	1,500	14,000	9,300	1,200	240	--	N
K4054S	58 4 41	156 12 39	--	--	2,200	4,300	21,000	11,000	1,200	250	--	N
K4055S	58 4 42	156 12 14	--	--	3,200	5,500	37,000	21,000	2,400	500	--	N
K4056S	58 3 10	156 4 30	--	--	3,100	5,200	33,000	16,000	1,400	300	--	N
K4057S	58 1 25	156 0 8	--	--	2,800	7,900	35,000	20,000	1,500	220	--	N
K4058S	58 6 38	156 3 40	--	--	1,900	5,400	22,000	14,000	1,000	350	--	N
K4059S	58 4 45	155 37 59	--	--	4,000	6,600	20,000	12,000	590	200	--	N
K4060S	58 5 23	155 35 4	--	--	6,600	6,400	21,000	12,000	710	280	--	N
K4061S	58 5 23	155 40 22	--	--	7,400	7,200	21,000	14,000	520	290	--	N
K4062S	58 7 37	155 47 42	--	--	5,200	6,300	18,000	12,000	620	260	--	N
K4063S	58 11 39	155 42 11	--	--	5,300	5,600	33,000	11,000	1,100	210	--	N
K4064S	58 13 55	155 50 12	--	--	2,000	3,100	40,000	8,500	2,100	110	--	N
K4101S	58 58 9	155 1 11	--	--	2,100	1,800	22,000	8,400	2,000	350	--	N
K4102S	58 55 40	155 3 55	--	--	3,400	1,600	46,000	11,000	1,400	280	--	N
K4103S	58 54 57	155 3 13	--	--	3,200	1,800	26,000	9,600	930	490	--	N
K4104S	58 54 16	155 3 42	--	--	3,200	1,600	38,000	8,300	1,100	590	--	N
K4105S	58 53 31	155 6 10	--	--	3,500	2,000	18,000	14,000	1,400	500	--	N
K4106S	58 52 0	155 5 10	--	--	4,400	1,400	31,000	9,200	1,000	310	--	N
K4107S	58 51 42	155 5 8	--	--	2,700	2,800	22,000	8,400	920	230	--	N
K4108S	58 48 48	155 3 37	--	--	2,900	1,800	23,000	11,000	570	270	--	N
K4109S	58 46 52	155 0 15	--	--	2,000	2,800	34,000	8,200	1,200	390	--	N
K4110S	58 38 9	154 54 29	--	--	3,900	3,700	13,000	8,700	1,500	330	--	N
K4111S	58 39 17	154 57 12	--	--	1,300	1,900	11,000	4,800	810	380	--	N
K4112S	58 41 32	154 54 36	--	--	4,200	2,800	35,000	10,000	2,200	330	--	N
K4113S	58 44 2	154 45 25	--	--	3,100	4,900	23,000	10,000	1,700	370	--	N
K4114S	58 32 52	154 25 8	--	--	7,000	4,300	25,000	12,000	960	380	--	N
K4115S	58 31 22	154 26 17	--	--	4,800	6,200	29,000	8,600	500	200	--	N
K4116S	58 37 33	154 39 54	--	--	4,700	6,600	34,000	14,000	1,500	250	--	N
K4117S	58 39 35	154 35 0	--	--	6,400	3,500	46,000	11,000	1,600	170	--	N
K4118S	58 39 44	154 35 0	--	--	6,100	3,600	25,000	11,000	1,700	170	--	N
K4119S	58 42 4	154 29 35	--	--	9,100	5,000	26,000	14,000	740	550	--	N
K4120S	58 40 30	154 11 47	260	710	7,300	6,700	26,000	11,000	200	270	14	N
K4121S	58 42 48	154 8 11	280	470	6,400	5,400	24,000	12,000	670	270	12	N
K4122S	58 40 5	154 1 38	--	--	7,300	6,300	19,000	13,000	820	350	--	N
K4123S	58 38 49	153 56 30	210	280	9,300	4,400	40,000	16,000	98	210	22	N
K4124S	58 38 54	153 56 35	220	290	12,000	7,500	35,000	17,000	740	200	20	N
K4125S	58 38 5	153 45 37	--	--	4,900	3,100	32,000	12,000	810	480	--	N
K4126S	58 40 22	153 39 40	250	410	5,200	2,400	44,000	12,000	140	61	8.1	N
K4126SD	58 40 22	153 39 40	--	--	6,700	2,900	51,000	12,000	210	300	--	N
K4127S	58 38 30	153 38 25	220	350	3,400	3,800	24,000	12,000	71	110	5.6	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K4034S	N	15	26	2	N	N	--	10	450	140	21	<3.3
K4035S	N	17	26	2.3	2.3	1.6	--	N	190	78	16	3.9
K4036S	N	28	35	2.2	<2.2	N	--	7	490	67	12	6.8
K4037S	N	21	41	2.3	N	N	--	N	230	230	72	14
K4038S	N	49	67	2.9	<1.7	N	--	8.7	790	93	12	N
K4039S	N	28	68	2.6	2.6	N	--	N	2,200	81	<17	7.8
K4040S	N	120	120	3.1	3.1	N	--	11	390	98	27	8.6
K4041S	N	43	57	4.4	4.5	N	--	14	520	170	23	6.9
K4042S	N	40	62	3.1	5.3	1	--	N	470	58	17	7.1
K4043S	N	30	57	3.4	<1.6	N	--	23	590	260	38	15
K4044S	N	49	100	3.9	3.4	N	--	13	2,100	140	25	14
K4045S	N	30	68	3.4	4.7	N	--	N	370	140	34	13
K4046S	N	39	63	4.6	4.7	N	--	15	650	170	33	8.2
K4047S	N	23	39	4.7	1.9	N	--	N	640	310	<39	13
K4048S	N	28	37	2.9	4.3	1.5	--	N	390	78	23	7.4
K4048SD	N	23	30	2.4	2.7	.35	--	5.9	330	67	<9.5	4.4
K4049S	N	28	40	2.4	2.1	N	--	N	360	130	30	11
K4050S	N	19	17	2.1	1.8	N	--	N	300	99	27	12
K4051S	N	10	15	1.6	2.2	1.4	--	2.8	210	52	<6.6	2.9
K4052S	N	35	37	2.4	2.6	N	--	N	230	91	17	6.4
K4053S	N	17	47	2	2.7	.37	--	4.1	260	57	<8.2	3.4
K4054S	N	36	39	2.9	3.1	N	--	N	210	80	21	5.6
K4055S	N	49	83	4.1	4.9	N	--	N	340	200	33	14
K4056S	N	36	78	3.4	4.2	N	--	N	700	130	24	11
K4057S	N	48	37	2.7	1.9	N	--	N	250	130	34	13
K4058S	N	46	66	3.5	4.7	N	--	N	520	74	18	6.1
K4059S	N	55	76	4.8	7	.54	--	N	280	77	23	7
K4060S	N	59	96	7.3	11	1.4	--	N	270	58	25	7.7
K4061S	N	73	100	5.3	7.5	1.1	--	N	290	67	30	8.3
K4062S	N	51	62	5.5	8.3	1.1	--	N	260	64	24	5.2
K4063S	N	54	92	7.6	11	N	--	N	310	120	33	10
K4064S	N	19	29	3.3	3.6	N	--	N	610	130	29	12
K4101S	N	11	26	1.9	2.1	N	--	N	280	120	38	8.5
K4102S	N	19	35	2.4	2	N	--	N	320	130	50	8.9
K4103S	N	18	42	2.2	2.6	N	--	N	240	90	38	5.7
K4104S	N	18	35	3	3.7	N	--	N	250	120	48	8
K4105S	N	27	53	2.4	3	N	--	N	350	66	27	9.7
K4106S	N	20	46	1.7	1	N	--	N	270	100	47	7.9
K4107S	N	15	47	2.4	2.6	N	--	N	260	82	27	5.7
K4108S	N	13	50	1.8	1.7	N	--	N	320	79	24	7.2
K4109S	N	21	46	2	N	N	--	N	480	110	39	6.8
K4110S	N	20	15	3.2	5	2.4	--	N	320	100	41	11
K4111S	N	20	19	1.5	1.9	.8	--	N	110	53	14	4.4
K4112S	N	26	31	2.3	1.9	N	--	N	330	150	37	12
K4113S	N	27	21	2.8	3.2	.4	--	N	280	110	27	8.2
K4114S	N	50	110	4.7	5.5	1.3	--	N	290	62	36	7.2
K4115S	N	28	28	3.6	4.2	.068	--	N	280	99	37	7.5
K4116S	N	45	49	3.7	4.1	N	--	N	340	88	34	8.6
K4117S	N	40	96	4.7	5.2	N	--	N	440	150	40	12
K4118S	N	38	82	4.3	5.7	2.1	--	N	480	160	55	14
K4119S	N	57	120	4.9	6.7	2.2	--	N	410	60	36	8.8
K4120S	.36	51	130	5	5.8	7.8	3.1	N	360	46	21	8.7
K4121S	.37	43	85	3.6	4.7	5.5	1.9	N	330	59	19	8.2
K4122S	N	44	45	3.5	4.6	1.6	--	N	350	52	33	8.4
K4123S	.42	20	41	3.1	N	5.6	N	N	400	59	28	12
K4124S	.45	37	19	2.6	N	5.4	2.7	N	470	74	31	12
K4125S	N	19	32	3.7	4.7	N	--	N	400	97	30	9.1
K4126S	.31	9.9	32	1.3	N	3.1	N	N	960	50	16	14
K4126SD	N	11	28	1.8	N	N	--	N	970	54	<30	9.9
K4127S	.4	19	41	5.6	11	4.1	1.3	N	360	51	15	8.8

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K4034S	3.3	3.3	34	N	N	N	N	N	N	N	N	N
K4035S	3	12	22	N	N	N	.67	N	N	N	N	N
K4036S	4	22	34	N	4.2	N	<.45	N	N	N	N	N
K4037S	11	30	35	N	N	N	<.48	N	N	N(7.2)	N	N
K4038S	4.4	5.6	47	N	<4.3	N	N	N	N	N	N	N
K4039S	2.4	1.3	24	N	<3.6	N	.52	N	N	<19	N	N
K4040S	12	15	41	N	10	N	N	N	N	N	N	N
K4041S	5.8	2.1	44	N	N	N	N	N	N	N	N	N
K4042S	4.4	6.7	33	N	<6.3	N	.53	N	N	N	N	N
K4043S	8.6	1.3	73	N	<3.2	N	N	N	N	N	N	N
K4044S	6.1	2.3	58	N	8.5	N	N	N	N	N	N	N
K4045S	6.5	6.7	57	N	<5.2	N	.48	N	N	N	N	N
K4046S	8	2.6	56	N	5.5	N	N	N	N	N	N	N
K4047S	11	N	48	N	N	N	N	N	N	N	N	N
K4048S	3.6	8.9	30	N	N	N	N	N	N	N	N	N
K4048SD	2.2	4.4	23	N	N	N	N	N	N	N	N	N
K4049S	4.1	11	37	N	N	N	N	N	N	N	N	N
K4050S	4.4	4.8	51	N	N	N	N	N	N	N	N	N
K4051S	1.2	3.1	26	.66	<2.7	N	N	N	N	<6.4	N	N
K4052S	3.8	3.2	26	N	N	N	N	N	N	N	N	N
K4053S	2.7	4.3	29	<.62	<3	N	N	N	N	N	N	N
K4054S	5.9	4.6	33	N	N	N	N	N	N	N	N	N
K4055S	8.3	10	46	N	N	N	<.45	N	N	N	N	N
K4056S	4.7	76	42	N	N	N	N	N	N	N	N	N
K4057S	9.1	12	40	N	N	N	N	N	N	N	N	N
K4058S	4	4.4	29	N	N	N	N	N	N	N	N	N
K4059S	7.6	17	30	N	N	N	N	N	N	N	N	N
K4060S	10	19	34	N	N	N	N	N	N	N	N	N
K4061S	17	23	42	N	N	N	N	N	N	N	N	N
K4062S	7.8	15	30	N	N	N	N	N	N	N	N	N
K4063S	9	15	46	N	N	N	<.41	N	N	N	N	N
K4064S	4.1	20	59	N	N	N	N	N	N	N	N	N
K4101S	4.7	9.2	42	N	6.2	N	.94	N	N	N	N	N
K4102S	9.9	12	58	N	<7.6	N	N	N	N	N	N	N
K4103S	8.2	13	33	N	<6.5	N	N	N	N	N	N	N
K4104S	9.9	24	28	N	<4.9	N	2.9	N	N	N	N	N
K4105S	7.1	14	49	N	12	N	.69	N	N	N	N	N
K4106S	9.1	17	40	N	<6.9	N	N	N	N	N	N	N
K4107S	4.4	8.1	41	N	<4.9	N	.58	N	N	N	N	N
K4108S	3.6	15	70	N	11	N	N	N	N	<14	N	N
K4109S	5.2	17	32	N	<2.7	N	1.1	N	N	N	N	N
K4110S	8.2	14	40	1.2	6.3	N	1.2	<7.5	N	N	<2.7	N
K4111S	3.9	16	17	N	<3.2	N	N	N	N	N	N	N
K4112S	8.4	19	45	N	<3.3	N	N	N	N	N	N	N
K4113S	5.2	7.9	37	N	<4.1	N	N	N	N	N	N	N
K4114S	12	18	47	N	<6.3	N	N	N	N	N	N	N
K4115S	8.3	13	33	N	7.3	N	N	N	N	N	N	N
K4116S	8	8.4	40	N	<3.9	N	N	N	N	N	N	N
K4117S	13	19	68	N	<3.6	N	N	N	N	N	N	N
K4118S	12	20	60	<1.2	<3.4	N	.86	N	N	N	N	N
K4119S	15	25	53	N	<7.4	N	N	N	N	N	N	N
K4120S	19	28	60	N	8.6	N	N	N	N	9.2	N	N
K4121S	15	22	51	N	7.8	N	N	N	N	7.4	N	N
K4122S	13	15	39	N	<6.7	N	N	N	N	N	N	N
K4123S	27	28	100	N	14	N	N	N	N	18	N	N
K4124S	23	27	70	N	11	N	N	N	N	11	N	N
K4125S	8.2	16	46	N	<5.3	N	N	N	N	N	N	N
K4126S	15	60	87	N	13	N	6.8	N	N	78	N	N
K4126SD	11	86	85	N	11	N	4.9	N	N	50	N	N
K4127S	17	15	54	N	12	N	N	N	N	10	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K4128S	58 43 34	153 35 45	290	160	2,400	3,100	35,000	3,400	1,300	120	1.8	N
K4129S	58 44 22	153 28 34	180	210	3,600	2,900	28,000	4,600	200	470	2.5	N
K4130S	58 55 37	153 23 17	400	530	3,900	2,700	34,000	7,500	870	24	3.1	N
K4131S	58 51 50	153 22 13	300	420	4,100	2,300	40,000	8,200	260	24	3.9	N
K4132S	58 48 57	153 23 15	330	390	2,600	2,300	31,000	5,200	670	N	.89	N
K4133S	58 45 45	153 27 10	--	--	2,900	2,300	20,000	5,400	760	500	--	N
K4134S	58 16 45	154 30 15	--	--	3,800	2,700	56,000	6,000	2,400	420	--	N
K4135S	58 29 20	154 13 40	--	--	2,900	6,600	32,000	8,300	1,500	130	--	N
K4136S	58 57 41	153 27 40	240	390	3,200	2,100	27,000	4,300	270	97	2.9	N
K4137S	58 56 23	153 36 5	300	200	2,300	2,200	14,000	2,600	620	110	1.4	N
K4138S	58 57 23	153 40 30	350	360	6,400	6,300	25,000	15,000	820	310	18	N
K4139S	58 53 9	153 47 10	190	260	6,600	5,300	20,000	9,900	260	330	12	N
K4140S	59 3 30	154 5 0	--	--	7,200	5,400	21,000	14,000	790	350	--	N
K4141S	59 3 3	153 57 26	--	--	7,200	10,000	21,000	13,000	710	290	--	N
K4142S	59 2 8	153 50 53	--	--	7,300	8,400	23,000	13,000	890	280	--	N
K4142SD	59 2 8	153 50 53	--	--	6,700	7,400	20,000	11,000	800	260	--	N
K4143S	59 0 33	153 51 29	--	--	8,000	8,500	19,000	12,000	860	460	--	N
K4144S	58 57 15	153 51 24	540	660	6,000	6,600	26,000	14,000	N	N	16	46
K4145S	58 52 5	153 58 38	300	660	6,200	22,000	40,000	8,800	N	N	15	34
K4146S	58 47 44	153 45 55	--	--	6,600	4,800	20,000	13,000	420	250	--	N
K4147S	58 47 47	153 48 25	--	--	6,900	4,300	24,000	15,000	350	450	--	N
K4148S	58 49 49	153 50 47	--	--	4,200	3,300	40,000	7,400	710	240	--	N
K4149S	58 51 41	153 51 18	--	--	9,100	6,400	26,000	16,000	720	400	--	N
K4150S	58 54 33	153 50 48	--	--	5,500	4,600	19,000	11,000	930	270	--	N
K4151S	58 55 11	154 49 43	--	--	3,100	2,100	18,000	6,100	540	310	--	N
K4152S	58 52 27	154 46 20	--	--	2,700	2,200	33,000	4,000	1,300	420	--	N
K4153S	58 50 5	154 43 50	--	--	1,200	1,400	14,000	5,000	700	390	--	N
K4154S	58 48 30	154 42 27	--	--	2,900	2,200	53,000	5,900	2,100	360	--	N
K4155S	58 49 58	154 50 45	--	--	3,300	2,100	58,000	4,500	700	410	--	N
K4156S	58 48 23	154 48 52	--	--	4,400	2,400	19,000	6,700	610	410	--	N
K4157S	58 46 20	154 47 53	--	--	3,600	4,200	31,000	8,700	1,600	350	--	N
K4158S	58 46 58	154 52 54	--	--	1,800	2,000	17,000	5,100	780	360	--	N
K4159S	58 45 50	154 58 11	--	--	2,700	1,600	17,000	6,000	1,200	350	--	N
K4160S	58 48 30	154 59 40	--	--	530	650	5,200	1,900	210	130	--	N
K4161S	58 51 37	154 9 38	--	--	6,400	7,000	18,000	12,000	590	370	--	N
K4162S	59 1 28	154 7 9	--	--	6,900	6,500	21,000	12,000	560	300	--	N
K4163S	58 57 18	154 9 13	--	--	5,100	4,700	17,000	9,500	510	250	--	N
K4164S	59 0 32	154 5 20	--	--	6,000	5,100	16,000	10,000	360	230	--	N
K4165S	58 59 37	153 53 57	--	--	7,000	7,400	17,000	12,000	840	280	--	N
K4165SD	58 59 37	153 53 57	--	--	6,800	7,100	19,000	11,000	650	310	--	N
K4166S	58 45 0	154 0 34	--	--	6,500	3,600	43,000	11,000	950	210	--	N
K4167S	58 46 36	154 3 58	--	--	7,300	4,500	25,000	10,000	440	360	--	N
K4168S	58 44 0	153 52 54	--	--	10,000	6,800	51,000	18,000	610	260	--	N
K4169S	58 43 52	153 54 51	--	--	7,900	2,700	33,000	13,000	200	460	--	N
K4170S	58 46 3	154 7 0	--	--	5,700	5,200	16,000	9,500	700	180	--	N
K4171S	58 50 41	154 0 59	350	650	5,600	42,000	38,000	9,300	250	410	16	28
K4172S	58 48 38	154 7 1	--	--	3,400	4,600	11,000	8,500	550	160	--	N
K4173S	58 47 20	154 15 30	--	--	7,400	8,900	20,000	14,000	910	210	--	N
K4174S	58 44 3	154 16 0	--	--	8,300	7,700	25,000	14,000	750	340	--	N
K4175S	58 40 33	154 27 14	--	--	7,400	5,500	23,000	12,000	900	350	--	N
K4176S	58 44 20	154 22 25	--	--	7,500	4,900	24,000	11,000	890	310	--	N
K4177S	58 56 55	154 58 4	--	--	3,400	1,800	32,000	5,500	560	320	--	N
K4178S	58 56 40	154 45 30	--	--	3,100	2,000	25,000	4,800	650	470	--	N
K4179S	58 56 42	154 45 42	--	--	13,000	1,300	42,000	17,000	510	340	--	N
K4180S	58 39 50	154 18 52	--	--	7,400	6,500	21,000	13,000	610	330	--	N
K4180SD	58 39 50	154 18 52	--	--	9,000	7,400	25,000	14,000	410	360	--	N
K4181S	58 41 20	154 18 30	--	--	7,000	5,100	20,000	11,000	390	290	--	N
K4182S	58 45 37	154 21 12	--	--	6,400	4,100	18,000	9,300	540	290	--	N
K4183S	58 49 12	154 18 40	--	--	7,000	5,300	21,000	12,000	1,100	250	--	N
K4184S	58 47 28	154 27 36	--	--	5,400	6,500	16,000	11,000	950	230	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K4128S	.64	9.2	11	1.9	N	4.9	3.6	N	360	190	30	7.1
K4129S	.43	7.1	10	3.2	7.4	7	N	N	270	120	32	5.9
K4130S	.45	12	21	N	N	3.3	2.1	N	260	120	33	15
K4131S	.38	9.3	17	1.3	N	3.9	N	N	360	90	23	10
K4132S	.45	11	27	N	N	3.2	1.8	N	850	110	28	21
K4133S	N	13	12	2.4	4.3	1.1	--	N	170	120	48	6.9
K4134S	N	16	9.4	1.9	N	N	--	N	230	150	<31	14
K4135S	N	29	11	1.7	N	N	--	N	290	130	30	8.6
K4136S	.34	7.3	18	.99	N	2.7	N	N	160	89	31	5.9
K4137S	.25	7.9	8.8	.96	N	2.3	2.2	N	98	66	14	4.9
K4138S	.45	73	37	3.6	6.7	4.2	2.4	N	330	67	28	8.7
K4139S	.28	16	20	2.7	N	4.1	N	N	340	34	19	7.4
K4140S	N	61	53	3.6	4.2	.084	--	N	310	57	30	6.3
K4141S	.54	55	46	3.9	4.2	1.4	--	N	350	50	27	6.4
K4142S	N	49	44	4.3	4.8	.52	--	N	280	62	26	5.9
K4142SD	N	48	40	3.5	3.8	.67	--	N	250	51	27	5.3
K4143S	N	53	39	3.7	4.7	1.2	--	N	300	55	28	6.7
K4144S	N	N	43	3	N	N	N	N	420	N	22	7.8
K4145S	N	N	62	4.9	7	N	N	N	380	N	26	8.5
K4146S	1	29	32	2.4	2.6	.13	--	N	310	42	22	8
K4147S	N	30	39	2.5	2.4	N	--	N	310	44	26	8.1
K4148S	N	32	23	2	.95	N	--	N	260	110	25	10
K4149S	N	56	58	6.9	11	1.7	--	N	390	53	38	10
K4150S	N	47	61	3.5	4.3	1.1	--	N	330	56	26	6.7
K4151S	N	32	44	1.7	1.7	N	--	N	160	59	25	3.7
K4152S	N	12	28	2.7	3.5	N	--	N	290	120	28	5.9
K4153S	N	11	36	2.4	3.9	.71	--	N	100	62	22	2.7
K4154S	N	13	48	1.8	N	N	--	N	220	160	40	10
K4155S	N	7.4	25	2.3	.97	N	--	N	350	130	51	7.1
K4156S	N	24	82	1.9	2.1	.14	--	N	240	58	25	5.5
K4157S	N	22	16	2.8	2.6	N	--	N	260	120	25	7.8
K4158S	N	13	24	1.6	2	.75	--	N	180	59	17	6.1
K4159S	N	11	40	1.5	1.6	N	--	N	200	78	24	6.8
K4160S	N	3.2	11	N	.92	.53	--	N	96	15	5.1	N
K4161S	N	61	45	3	2.8	.42	--	N	240	46	27	4.9
K4162S	N	70	51	3.4	3.1	.069	--	N	260	51	29	5
K4163S	N	55	38	3.2	3.5	.54	--	N	260	40	24	4
K4164S	N	64	48	2.6	2.5	.35	--	N	230	42	25	5.3
K4165S	N	52	36	3	3.1	.76	--	N	240	48	27	5.6
K4165SD	N	48	33	3.2	3.3	.48	--	N	240	49	27	5.5
K4166S	N	21	30	3.3	2.9	N	--	N	470	110	30	13
K4167S	N	24	32	3.4	3.6	.64	--	N	370	56	30	7.6
K4168S	N	49	27	1.1	N	N	--	N	360	78	36	11
K4169S	N	16	72	5	7.2	.78	--	N	740	44	29	12
K4170S	N	41	50	2.9	3.2	1.3	--	N	230	52	22	4.4
K4171S	N	100	82	4.4	4.9	N	N	N	360	81	23	8.2
K4172S	N	25	24	1.6	1.1	.31	--	N	180	33	16	2.4
K4173S	N	63	46	3.5	3.3	1	--	N	270	62	26	5.9
K4174S	.1	58	81	4	4	1.6	--	N	350	57	31	7.1
K4175S	N	53	96	4.1	4.2	1.9	--	N	310	65	30	6.1
K4176S	.063	47	84	4.1	4.4	1.7	--	N	320	68	31	6
K4177S	N	23	53	1.8	N	N	--	N	260	87	33	2.5
K4178S	N	19	32	2.5	3.2	N	--	N	250	84	44	7.1
K4179S	.24	14	160	3	2.2	N	--	N	240	120	63	3.8
K4180S	N	62	120	4.4	4.2	2.6	--	N	280	55	30	4.2
K4180SD	N	68	130	5	5.4	2.1	--	N	320	52	33	7.2
K4181S	.49	51	110	4	4.6	1.8	--	N	310	47	27	5
K4182S	N	45	66	3.3	3.9	1.3	--	N	290	46	25	5.1
K4183S	N	44	48	3.8	4.3	1.6	--	N	310	68	31	6
K4184S	N	66	43	3.3	3.3	1.4	--	N	240	54	23	4.4

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K4128S	14	29	37	N	21	N	N	N	N	6.3	N	N
K4129S	13	47	45	N	11	N	1.6	N	N	17	N	N
K4130S	22	28	42	N	11	N	N	N	N	14	N	N
K4131S	15	30	97	N	15	N	1.1	N	N	180	N	N
K4132S	18	33	32	N	8.2	N	1.3	N	N	23	N	N
K4133S	11	27	23	N	<3.8	N	.82	N	N	28	N	N
K4134S	19	16	39	N	<3.8	N	.46	N	N	N	N	N
K4135S	6	8.3	33	N	<4.2	N	N	N	N	N	N	N
K4136S	13	17	25	N	9.6	N	N	N	N	8.3	N	N
K4137S	15	14	15	N	N	N	N	N	N	10	N	N
K4138S	22	14	46	N	11	N	N	N	N	15	N	N
K4139S	20	16	44	N	9.2	N	N	N	N	7.7	N	N
K4140S	10	13	33	N	<6.5	N	N	N	N	N	N	N
K4141S	11	17	32	N	<6.6	N	N	N	N	N	N	N
K4142S	11	16	30	N	<5	N	N	N	N	N	N	N
K4142SD	9.7	15	27	N	<5.9	N	N	N	N	N	N	N
K4143S	11	15	31	N	<6.1	N	N	N	N	N	N	N
K4144S	N	13	N	N	N	N	N	N	N	N	N	N
K4145S	N	16	N	N	N	N	N	N	N	11	N	N
K4146S	11	13	37	N	9.7	N	N	N	N	N	N	N
K4147S	14	20	75	N	14	N	N	N	N	N	N	N
K4148S	11	33	34	N	<3.1	N	1.4	N	N	N	N	N
K4149S	24	18	47	N	12	N	N	N	N	N	N	N
K4150S	10	12	37	N	8	N	N	N	N	N	N	N
K4151S	7.5	34	31	N	5.3	N	2.2	N	N	N	N	N
K4152S	6.8	18	47	N	<4	N	N	N	N	N	N	N
K4153S	3.8	21	19	N	<3	N	1.2	N	N	N	N	N
K4154S	6.5	62	46	N	N	N	N	N	N	N	N	N
K4155S	9.1	35	79	N	12	N	N	N	N	N	N	N
K4156S	6.9	110	37	N	N	N	.76	N	N	N(5.4)	N	N
K4157S	5.7	7.8	45	N	N	N	N	N	N	N	N	N
K4158S	6.1	19	22	N	N	N	N	N	N	<7.6	N	N
K4159S	6.7	15	27	N	<3.7	N	N	N	N	N	N	N
K4160S	N	7.4	14	N	N	N	.42	N	N	8.2	N	N
K4161S	9.6	14	34	N	N	N	N	N	N	N	N	N
K4162S	9.5	15	39	N	N	N	N	N	N	N	N	N
K4163S	9.3	9.7	27	N	N	N	N	N	N	N	N	N
K4164S	8.6	14	28	N	N	N	N	N	N	N	N	N
K4165S	9.5	15	30	N	N	N	N	N	N	N	N	N
K4165SD	9.6	15	28	N	<5.9	N	N	N	N	N	N	N
K4166S	13	100	93	N	N	N	<.46	N	N	N	N	N
K4167S	13	23	56	N	N	N	N	N	N	N	N	N
K4168S	17	36	89	N	<13	N	N	N	N	N	N	N
K4169S	22	41	140	N	18	N	N	N	N	83	N	N
K4170S	9	14	31	N	N	N	N	N	N	N	N	N
K4171S	15	19	N	N	N	N	N	N	N	5.9	N	N
K4172S	8.1	9.2	20	N	N	N	N	N	N	N	N	N
K4173S	10	17	34	N	N	N	N	N	N	N	N	N
K4174S	13	21	44	N	N	N	N	N	N	N	N	N
K4175S	12	22	41	N	N	N	N	N	N	N	N	N
K4176S	12	20	47	N	N	N	N	N	N	N	N	N
K4177S	8.1	65	35	N	<5.4	N	4.1	N	N	N	N	N
K4178S	8.5	52	44	N	N	N	2.1	N	N	N	N	N
K4179S	12	44	40	N	N	N	1.1	N	N	N	N	N
K4180S	12	24	43	N	N	N	N	N	N	N	N	N
K4180SD	14	26	51	N	<9	N	N	N	N	N	N	N
K4181S	12	23	45	N	<7.1	N	N	N	N	N	--	N
K4182S	11	17	38	N	<6.1	N	N	N	N	N	--	N
K4183S	11	13	35	N	<7.1	N	N	N	N	N	--	N
K4184S	9.9	14	33	N	6.8	N	N	N	N	N	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K4185S	58 49 10	154 26 50	--	--	5,700	4,300	46,000	9,900	410	210	--	N
K4186S	58 50 0	154 32 10	--	--	2,100	2,500	38,000	5,000	2,300	340	--	N
K4187S	58 52 10	154 21 35	--	--	3,900	6,600	12,000	12,000	320	180	--	N
K4188S	58 58 52	154 17 6	--	--	8,000	5,200	19,000	11,000	480	210	--	N
K4189S	58 51 55	154 13 12	--	--	2,600	7,200	10,000	11,000	370	120	--	N
K4190S	58 53 49	154 18 24	--	--	4,100	5,200	21,000	11,000	1,500	200	--	N
K4191S	58 59 8	154 23 40	--	--	5,300	4,200	34,000	9,500	940	190	--	N
K4192S	58 55 45	154 26 48	--	--	6,300	5,100	24,000	11,000	670	240	--	N
K4193S	58 55 50	154 26 36	--	--	3,400	2,900	22,000	6,200	1,400	260	--	N
K4194S	58 54 8	154 36 30	--	--	3,100	1,900	41,000	6,100	610	310	--	N
K4195S	58 53 20	154 36 5	--	--	2,400	1,600	24,000	4,300	650	310	--	N
K4196S	58 50 28	155 8 30	--	--	3,000	3,200	79,000	8,400	670	220	--	N
K4197S	58 58 29	154 58 48	--	--	5,500	1,800	28,000	6,700	440	290	--	N
K4197SD	58 58 29	154 58 48	--	--	6,100	2,200	54,000	7,500	580	360	--	N
K4198S	58 57 47	154 38 22	--	--	2,600	1,600	45,000	4,300	1,100	270	--	N
K4199S	58 59 2	154 39 4	--	--	2,300	1,500	27,000	5,900	1,300	310	--	N
K4200S	58 50 49	154 36 0	--	--	1,500	1,400	19,000	3,100	1,200	370	--	N
K4201S	58 52 19	154 58 22	--	--	3,800	1,800	18,000	10,000	310	460	--	N
K4202S	58 54 18	154 54 47	--	--	2,500	1,800	21,000	5,500	450	400	--	N
K4500S	58 37 59	154 53 58	--	--	1,900	3,200	13,000	6,300	2,200	350	--	N
K4501S	58 39 12	154 56 5	--	--	4,600	3,000	36,000	9,200	2,100	400	--	N
K4502S	58 41 55	154 53 11	--	--	3,500	3,600	24,000	8,700	1,300	370	--	N
K4503S	58 44 22	154 45 5	--	--	2,500	2,900	38,000	5,500	2,500	400	--	N
K4504S	58 40 16	154 42 6	--	--	2,200	3,400	14,000	7,200	1,100	250	--	N
K4505S	58 32 40	154 25 25	--	--	3,500	5,800	71,000	9,200	2,200	270	--	N
K4506S	58 38 18	154 38 32	--	--	5,700	6,300	25,000	14,000	1,300	420	--	N
K4507S	58 39 2	154 38 52	--	--	5,400	7,000	14,000	13,000	930	340	--	N
K4508S	58 44 30	154 34 55	--	--	4,800	5,800	39,000	11,000	1,700	350	--	N
K4509S	58 42 9	154 27 18	--	--	11,000	4,500	25,000	15,000	1,100	440	--	N
K4510S	58 43 55	154 8 20	270	620	6,700	6,900	22,000	13,000	510	270	13	N
K4511S	58 41 52	154 2 43	--	--	10,000	4,500	23,000	13,000	670	430	--	N
K4512S	58 41 55	154 3 0	250	350	5,500	6,700	26,000	15,000	500	160	11	N
K4513S	58 38 22	153 53 55	--	--	6,400	2,400	69,000	11,000	610	290	--	N
K4514S	58 39 54	153 46 25	--	--	4,400	3,300	31,000	9,300	600	320	--	N
K4515S	58 42 45	153 39 0	--	--	2,600	3,200	18,000	4,000	490	630	--	N
K4516S	58 41 27	153 36 40	290	540	4,000	2,600	29,000	12,000	450	250	8.2	N
K4517S	58 41 50	153 33 41	270	420	2,900	2,200	25,000	15,000	620	180	5	N
K4518S	58 43 50	153 30 53	180	510	2,400	2,200	34,000	3,300	240	300	3	N
K4519S	58 48 20	153 26 50	290	430	4,100	2,100	26,000	7,100	390	180	4.1	N
K4520S	58 56 43	153 23 52	430	450	5,100	3,000	24,000	12,000	360	150	5.7	N
K4520SD	58 56 43	153 23 52	--	--	5,200	3,600	29,000	14,000	600	270	--	N
K4521S	58 51 26	153 23 30	370	330	1,900	2,300	16,000	4,100	940	110	1.6	N
K4522S	58 49 22	153 23 6	330	210	3,400	2,800	28,000	5,400	1,000	17	1.4	N
K4524S	58 17 7	154 30 30	--	--	3,700	5,000	29,000	8,400	1,500	210	--	N
K4525S	58 28 43	154 13 12	--	--	1,700	7,300	20,000	9,900	1,600	200	--	N
K4526S	58 32 13	153 57 13	310	210	2,600	3,100	68,000	6,100	N	N	3.6	32
K4527S	58 57 26	153 30 17	210	190	2,700	1,600	27,000	4,000	150	18	1.4	N
K4528S	58 56 2	153 36 54	--	--	5,600	3,500	17,000	8,200	960	260	--	N
K4529S	58 56 33	153 41 38	470	360	5,900	9,300	19,000	17,000	670	200	12	N
K4530S	58 53 37	153 45 9	340	200	4,000	6,300	40,000	7,000	760	55	6.2	N
K4531S	59 2 52	154 5 40	--	--	6,500	6,900	18,000	13,000	670	210	--	N
K4532S	59 3 30	153 52 56	--	--	5,500	4,500	17,000	10,000	640	330	--	N
K4533S	58 57 34	153 49 45	--	--	7,300	6,200	21,000	13,000	640	260	--	N
K4534S	58 58 32	153 51 5	670	760	7,000	6,800	24,000	15,000	N	N	16	34
K4535S	58 55 59	153 54 22	--	--	6,700	7,100	23,000	13,000	680	310	--	N
K4536S	58 51 25	153 58 20	280	780	7,400	18,000	36,000	13,000	N	N	21	27
K4536SD	58 51 25	153 58 20	--	--	6,000	15,000	28,000	9,000	340	380	--	N
K4537S	58 47 20	153 48 20	--	--	2,600	4,700	16,000	9,600	880	130	--	N
K4538S	58 47 7	153 48 40	--	--	3,300	3,900	19,000	7,900	390	310	--	N
K4539S	58 47 16	153 49 10	--	--	7,000	7,400	30,000	13,000	700	430	--	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K4185S	N	17	33	2.9	2.3	1.3	--	N	550	86	<25	7.3
K4186S	N	15	25	1.9	1.1	N	--	N	230	150	24	9.3
K4187S	1	69	32	3.4	3.7	.77	--	N	200	31	18	2.2
K4188S	N	40	38	2.2	1.7	.48	--	N	290	49	34	6.6
K4189S	N	53	33	3.8	4.8	.47	--	N	160	28	12	N
K4190S	N	50	42	3	3.1	.84	--	N	320	87	26	6.5
K4191S	N	23	23	2.6	1.6	N	--	N	290	110	32	5.9
K4192S	N	18	30	1.7	N	.84	--	N	350	63	25	6.4
K4193S	N	17	17	2.1	2.3	.27	--	N	230	93	22	6.8
K4194S	N	14	61	1.9	N	N	--	N	270	120	29	4.3
K4195S	N	7.5	51	1.7	1.7	N	--	N	180	76	24	4.5
K4196S	N	29	84	4.9	3.8	N	--	N	330	220	<34	4.4
K4197S	N	30	120	2.3	2.8	N	--	N	610	63	29	8
K4197SD	N	28	120	2.8	1.9	N	--	N	680	110	51	9.9
K4198S	N	5.8	12	1.2	N	N	--	N	200	140	<20	5.6
K4199S	.43	6.5	21	1.8	1.2	N	--	N	190	100	22	4.6
K4200S	N	5.4	17	1.6	2	N	--	N	120	78	19	4.4
K4201S	.87	37	88	3	4.1	3.4	--	N	390	44	24	11
K4202S	.18	9.8	27	1.5	1.6	N	--	N	490	47	19	8.8
K4500S	N	20	14	2.7	3.6	1.6	--	N	360	110	34	8.8
K4501S	N	19	14	2.7	2.7	N	--	N	360	130	34	11
K4502S	N	18	23	3.7	5.7	2	--	N	500	78	29	9.2
K4503S	N	15	21	2.8	3	N	--	N	380	160	33	12
K4504S	N	26	19	2.8	3.5	.59	--	N	180	65	19	4.7
K4505S	N	31	22	9.5	12	N	--	N	360	220	60	11
K4506S	N	40	76	4.1	5.4	.64	--	N	360	85	34	8.3
K4507S	N	27	43	4	5.7	2	--	N	320	64	35	8.5
K4508S	N	26	37	3.6	3.5	N	--	N	380	130	36	10
K4509S	N	54	99	4.7	6.2	1.7	--	N	410	58	41	9
K4510S	.34	49	65	3.4	N	4.6	2	N	300	49	20	7.6
K4511S	N	22	27	2.9	3.1	.76	--	N	400	56	38	8.5
K4512S	.42	33	32	2.9	N	4.4	N	N	460	58	16	7.4
K4513S	N	19	30	2.1	N	N	--	N	280	200	74	13
K4514S	N	24	22	2.3	2.5	N	--	N	250	110	44	8
K4515S	N	11	5.9	2.7	4.7	2.5	--	N	130	120	31	4.7
K4516S	.42	13	36	1.6	N	3.6	1.2	N	930	78	23	15
K4517S	.49	11	35	1.7	N	3.5	2.2	N	610	63	20	17
K4518S	.56	5.1	9.9	1.6	N	4.1	N	8	130	170	53	6.5
K4519S	.3	9.1	15	N	N	2.9	.91	N	320	68	21	9.6
K4520S	.35	13	32	1.7	N	4.4	1	N	490	59	19	15
K4520SD	N	19	27	2	2	N	--	N	440	84	36	14
K4521S	.32	9.4	11	.96	N	2.7	3.5	N	190	88	20	5.6
K4522S	.51	11	14	1.1	N	3.2	3	N	410	140	31	11
K4524S	N	28	12	2.1	2.1	N	--	N	200	110	27	9
K4525S	N	32	9.6	1.7	1.4	N	--	N	140	120	27	7.1
K4526S	N	N	12	2.2	N	N	N	N	440	N	18	11
K4527S	.25	6.7	12	N	N	2.7	3	N	140	56	17	6.7
K4528S	N	18	16	1.9	2.4	N	--	N	190	84	40	8.3
K4529S	.39	63	21	2.3	N	3.2	2.6	N	260	56	27	7.4
K4530S	.37	19	14	1.2	N	2.9	1.4	N	230	93	29	15
K4531S	N	61	49	3.3	3.3	.81	--	N	260	47	27	5
K4532S	N	30	30	3.6	4.7	.22	--	N	230	49	25	4.8
K4533S	N	49	72	3.4	3.1	.43	--	N	320	51	29	5.5
K4534S	N	N	41	2.6	N	N	N	N	360	N	20	7.4
K4535S	N	65	46	4	4.9	N	--	N	250	57	32	6.2
K4536S	N	N	82	5.5	8.5	N	N	N	370	N	26	9.6
K4536SD	N	51	55	5.7	8.5	1.1	--	N	280	58	32	7.1
K4537S	N	29	14	1	N	N	--	N	210	85	34	5.9
K4538S	.49	23	15	3.5	5.6	1.5	--	N	150	72	22	5.2
K4539S	N	37	11	2.7	2.9	N	--	N	260	89	35	7.9

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K4185S	7.6	15	48	N	<6	N	N	N	N	N	--	N
K4186S	5.8	14	40	N	N	N	N	N	N	N	--	N
K4187S	6.5	9.6	22	N	8.3	N	N	N	N	N	--	N
K4188S	15	19	33	N	<6.7	N	N	N	N	N	--	N
K4189S	4.1	5.8	19	N	8.2	N	N	N	N	N	--	N
K4190S	8.9	11	39	N	<7	N	N	N	N	N	--	N
K4191S	11	13	33	N	<5.7	N	N	N	N	N	--	N
K4192S	9.7	16	39	N	8.9	N	N	N	N	N	--	N
K4193S	7.6	11	33	N	<4.2	N	N	N	N	N	--	N
K4194S	4.9	27	35	N	13	N	N	N	N	N	--	N
K4195S	5.2	28	23	N	<3.9	N	.59	N	N	N	--	N
K4196S	5.1	N	43	N	N	N	N	N	N	N	--	N
K4197S	7.9	69	88	N	23	N	2	N	N	N	--	N
K4197SD	10	73	86	N	19	N	1.4	N	N	N	N	N
K4198S	2	13	28	N	N	N	N	N	N	N	N	N
K4199S	2.9	6.3	39	N	N	N	1.5	N	N	N	N	N
K4200S	3.7	11	22	N	N	N	1.1	N	N	N	N	N
K4201S	7.2	32	55	N	N	N	.94	N	N	N	N	N
K4202S	4.2	42	100	N	36	N	1.6	N	N	N(6.5)	N	N
K4500S	4.7	6.5	32	1	<2.4	N	.62	<4.6	N	N	N	N
K4501S	8	12	48	N	<4.1	N	N	N	N	N	N	N
K4502S	8.4	11	38	N	<3.8	N	N	N	N	N	N	N
K4503S	7.4	9.5	50	N	<2.3	N	N	N	N	N	N	N
K4504S	4.4	5.8	25	N	<3.4	N	N	N	N	N	N	N
K4505S	7.8	4.3	40	N	N	N	N	N	N	N	N	N
K4506S	10	16	43	N	<4.8	N	N	N	N	N	N	N
K4507S	8.9	15	35	<.53	<4.4	N	.55	N	N	N	N	N
K4508S	8.3	21	42	N	N	N	N	N	N	N	N	N
K4509S	15	26	53	N	<8	N	N	N	N	N	N	N
K4510S	15	20	45	N	8	N	N	N	N	6.5	N	N
K4511S	14	20	62	N	10	N	N	N	N	N	N	N
K4512S	12	16	58	N	11	N	N	N	N	10	N	N
K4513S	15	120	38	N	N	N	3.8	N	N	N	N	N
K4514S	9.6	22	42	N	9.3	N	.72	N	N	N	N	N
K4515S	8.9	37	21	N	N	N	N	N	N	N	N	N
K4516S	17	39	150	N	33	N	2.1	N	N	110	N	N
K4517S	16	36	67	N	17	N	2.5	N	N	190	N	N
K4518S	13	41	25	N	8.8	N	N	N	N	24	N	N
K4519S	14	20	40	N	12	N	1.5	N	N	100	N	N
K4520S	19	31	50	N	13	N	N	N	N	18	N	N
K4520SD	14	28	40	N	11	N	.45	N	N	N	N	N
K4521S	10	17	23	N	N	N	N	N	N	13	N	N
K4522S	14	24	39	N	N	N	N	N	N	21	N	N
K4524S	11	15	28	N	<4.4	N	.64	N	N	N	N	N
K4525S	5.5	18	20	N	<4.9	N	N	N	N	N	N	N
K4526S	N	9.5	N	N	N	N	N	N	N	N	N	N
K4527S	13	28	28	N	10	N	1.3	N	N	15	N	N
K4528S	22	15	28	N	<5.1	N	.53	N	N	N	N	N
K4529S	19	14	35	N	9.2	N	N	N	N	15	N	N
K4530S	23	30	84	N	34	N	N	N	N	29	N	N
K4531S	9.8	13	28	N	<6.9	N	N	N	N	N	N	N
K4532S	8.4	8.6	23	N	<5.7	N	N	N	N	N	N	N
K4533S	11	13	31	N	<7.1	N	N	N	N	N	N	N
K4534S	N	17	N	N	N	N	N	N	N	N	N	N
K4535S	11	10	33	N	<8	N	N	N	N	N	N	N
K4536S	N	27	N	N	N	N	N	N	N	7.6	N	N
K4536SD	15	15	42	N	7.1	N	N	N	N	N	N	N
K4537S	9.2	20	28	N	6.4	N	N	N	N	N	N	N
K4538S	6	15	24	N	6.3	N	.46	N	N	N(6.4)	N	N
K4539S	15	19	48	N	17	N	<.48	N	N	N	N	N

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K4540S	58 51 3	153 51 6	--	--	9,400	6,900	29,000	13,000	300	470	--	N
K4541S	58 52 16	153 50 41	--	--	9,900	6,800	23,000	16,000	850	340	--	N
K4542S	58 56 35	153 46 16	--	--	6,200	7,300	16,000	13,000	930	240	--	N
K4543S	58 55 50	154 50 57	--	--	3,000	2,000	13,000	4,700	510	340	--	N
K4544S	58 52 53	154 46 4	--	--	3,100	1,800	42,000	5,500	650	350	--	N
K4545S	58 51 5	154 43 25	--	--	2,600	2,700	29,000	6,200	820	310	--	N
K4546S	58 54 7	154 51 30	--	--	5,800	2,500	40,000	8,800	180	330	--	N
K4547S	58 51 37	154 51 32	--	--	2,600	2,600	69,000	5,700	330	280	--	N
K4548S	58 51 11	154 51 0	--	--	3,200	2,300	26,000	6,700	260	260	--	N
K4549S	58 50 34	154 51 30	--	--	3,000	2,100	39,000	5,900	740	210	--	N
K4550S	58 47 10	154 47 17	--	--	1,800	2,100	39,000	4,600	2,100	320	--	N
K4551S	58 45 21	154 42 8	--	--	1,600	2,500	47,000	4,000	2,700	350	--	N
K4552S	58 45 43	154 52 30	--	--	1,800	1,700	12,000	4,800	530	350	--	N
K4553S	58 45 37	154 52 0	--	--	4,100	3,300	20,000	8,000	630	270	--	N
K4554S	58 45 48	155 0 45	--	--	3,000	2,300	27,000	6,000	880	300	--	N
K4555S	58 49 26	154 57 49	--	--	1,500	1,800	10,000	3,500	560	350	--	N
K4556S	58 49 42	154 8 55	--	--	8,300	7,900	23,000	15,000	1,100	310	--	N
K4557S	58 50 28	154 5 57	--	--	6,200	7,700	18,000	13,000	890	300	--	N
K4558S	58 55 40	154 9 50	--	--	7,300	7,900	21,000	13,000	670	340	--	N
K4558SD	58 55 40	154 9 50	--	--	7,400	9,100	22,000	14,000	600	320	--	N
K4559S	58 58 58	154 5 23	--	--	6,800	7,500	19,000	12,000	620	340	--	N
K4560S	58 58 50	154 5 34	--	--	6,700	7,000	17,000	12,000	750	270	--	N
K4561S	58 59 27	153 54 0	--	--	7,400	5,900	20,000	11,000	580	370	--	N
K4562S	58 44 35	153 58 42	--	--	9,200	8,100	52,000	14,000	290	340	--	N
K4563S	58 44 8	153 52 41	--	--	3,900	3,700	45,000	8,700	700	490	--	N
K4564S	58 44 41	153 57 19	--	--	10,000	4,600	32,000	15,000	300	490	--	N
K4565S	58 47 18	154 6 59	--	--	1,900	2,500	11,000	6,400	600	200	--	N
K4566S	58 51 0	153 59 5	470	760	5,800	75,000	25,000	10,000	42	330	19	27
K4567S	58 48 2	154 6 9	--	--	5,400	12,000	22,000	8,800	150	360	--	N
K4568S	58 50 12	154 15 50	--	--	7,000	4,300	23,000	9,900	700	290	--	N
K4569S	58 45 30	154 16 20	--	--	8,700	6,000	22,000	13,000	500	190	--	N
K4570S	58 45 42	154 16 20	--	--	8,200	6,000	21,000	12,000	730	240	--	N
K4571S	58 40 48	154 23 0	--	--	8,400	5,500	23,000	12,000	580	340	--	N
K4572S	58 41 29	154 23 47	--	--	7,100	12,000	36,000	11,000	440	260	--	N
K4573S	58 57 36	154 45 55	--	--	6,900	3,000	43,000	9,200	630	580	--	N
K4574S	58 56 32	154 45 50	--	--	3,500	1,700	25,000	6,500	450	380	--	N
K4576S	58 39 3	154 17 32	--	--	6,600	7,300	17,000	14,000	580	300	--	N
K4577S	58 44 20	154 20 50	--	--	5,700	3,600	16,000	8,800	420	260	--	N
K4578S	58 45 42	154 19 38	--	--	5,900	3,600	24,000	11,000	540	320	--	N
K4579S	58 46 57	154 29 7	--	--	4,200	6,900	13,000	11,000	380	180	--	N
K4579SD	58 46 57	154 29 7	--	--	4,500	6,700	17,000	11,000	500	220	--	N
K4580S	58 47 55	154 25 52	--	--	4,200	4,800	16,000	9,900	690	220	--	N
K4581S	58 50 6	154 32 27	--	--	1,700	1,800	48,000	2,900	2,800	290	--	N
K4582S	58 52 25	154 22 59	--	--	8,700	4,400	37,000	11,000	560	250	--	N
K4583S	58 55 30	154 18 50	--	--	7,100	5,400	21,000	13,000	990	180	--	N
K4584S	58 53 4	154 13 15	--	--	2,000	8,100	8,200	14,000	360	140	--	N
K4585S	58 57 35	154 13 35	--	--	4,100	3,100	16,000	9,600	1,000	190	--	N
K4586S	58 58 35	154 17 17	--	--	6,600	7,000	18,000	14,000	1,300	170	--	N
K4587S	58 55 52	154 17 25	--	--	2,400	2,900	13,000	8,900	700	210	--	N
K4588S	58 57 22	154 27 47	--	--	9,900	6,800	39,000	15,000	990	260	--	N
K4589S	58 53 42	154 37 28	--	--	2,100	1,200	37,000	7,000	610	260	--	N
K4590S	58 53 32	154 37 56	--	--	2,000	2,100	15,000	5,400	490	210	--	N
K4591S	58 59 37	155 1 42	--	--	3,700	1,700	71,000	6,400	410	410	--	N
K4592S	58 55 28	154 56 10	--	--	3,400	1,800	57,000	5,200	470	460	--	N
K4593S	58 56 46	154 39 50	--	--	3,200	2,000	22,000	4,800	430	240	--	N
K4594S	58 56 48	154 39 59	--	--	1,300	1,600	90,000	2,400	250	300	--	N
K4595S	58 57 28	154 39 47	--	--	2,300	1,400	29,000	6,700	550	330	--	N
K4596S	58 53 22	154 39 14	--	--	4,000	1,300	27,000	6,600	640	430	--	N
K4596SD	58 53 22	154 39 14	--	--	1,800	1,900	21,000	8,800	560	330	--	N
K4597S	58 50 32	154 58 16	240	130	2,100	450	79,000	5,900	210	1,500	3.3	35

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K4540S	N	42	85	6.9	10	1.8	--	N	410	53	39	8.9
K4541S	N	62	56	5.8	9.1	1.3	--	N	370	56	36	9.4
K4542S	N	43	45	3.8	4.9	1.4	--	N	260	48	25	6.7
K4543S	N	35	33	1.6	2.1	.095	--	N	110	43	18	4.4
K4544S	N	17	43	2	.96	N	--	N	260	110	58	4.8
K4545S	N	21	47	2.7	3.6	N	--	N	250	100	37	6.9
K4546S	N	31	53	2.3	1.8	N	--	N	450	82	<23	5.5
K4547S	N	12	72	1.9	N	N	--	N	630	180	<35	6.4
K4548S	N	11	49	1.6	1	N	--	N	490	68	24	6.4
K4549S	N	13	31	1.5	N	N	--	N	230	100	33	5.2
K4550S	N	11	29	1.7	N	N	--	N	230	150	24	8.4
K4551S	N	9.6	8.1	2	1.3	N	--	N	260	170	<23	10
K4552S	N	11	20	1.3	1.9	1	--	N	170	42	15	4.1
K4553S	N	16	29	2.4	2.7	.56	--	N	480	60	24	6.3
K4554S	N	15	38	1.5	N	N	--	N	370	94	32	6
K4555S	N	8.8	22	1.5	2.2	1.2	--	N	110	39	11	2.6
K4556S	N	46	53	3.7	4	.52	--	N	330	63	33	7
K4557S	N	46	33	2.8	2.6	.26	--	N	240	50	27	5.2
K4558S	N	59	42	3.2	2.9	.36	--	N	290	49	29	5.9
K4558SD	N	69	48	3.4	3	.28	--	N	300	50	29	5.8
K4559S	N	58	45	3.2	3.2	.46	--	N	240	53	27	5.2
K4560S	N	44	39	2.8	2.7	.37	--	N	260	47	25	5.4
K4561S	N	42	35	3	2.8	.42	--	N	260	48	27	4.7
K4562S	N	33	26	3.3	1.8	N	--	N	560	84	<30	12
K4563S	2.6	25	22	3.7	4.1	N	--	N	240	250	70	9.6
K4564S	N	34	47	4.6	5.3	.14	--	N	360	52	40	7.8
K4565S	N	12	14	1.2	N	.059	--	N	200	43	14	N
K4566S	N	140	89	3.8	N	6.3	N	N	300	37	16	6.8
K4567S	N	50	70	4.3	6.1	1.8	--	N	260	47	29	5.2
K4568S	.24	29	29	3.5	4.1	.54	--	N	330	60	31	6
K4569S	.77	57	94	4.2	4.6	1.7	--	N	310	54	33	6.9
K4570S	N	57	88	4	4.2	1.8	--	N	290	56	30	5.9
K4571S	N	65	130	4.2	4.1	2.4	--	N	330	54	28	4.6
K4572S	N	61	54	5.1	5.6	1.9	--	N	430	81	32	9.7
K4573S	N	33	80	2.7	1.9	N	--	N	260	110	60	9.3
K4574S	N	19	56	2.2	2.2	N	--	N	120	56	26	2.8
K4576S	N	77	130	4.1	3.7	2.5	--	N	260	46	26	3.4
K4577S	N	48	78	3	3.5	1.3	--	N	280	41	19	4
K4578S	.24	40	100	3.5	4.1	.89	--	N	430	59	26	5.9
K4579S	N	53	22	2.9	3	.75	--	N	200	35	16	2.8
K4579SD	N	54	24	3.7	4	.5	--	N	230	48	22	3.5
K4580S	N	36	34	2.9	2.9	1.4	--	N	260	54	20	2.3
K4581S	N	7.3	18	1.9	N	N	--	N	270	180	<28	11
K4582S	N	45	48	2.4	1.5	.31	--	N	460	81	35	9.3
K4583S	N	36	49	3	3.3	.5	--	N	330	64	33	8
K4584S	N	40	37	2.4	2.4	.82	--	N	180	23	12	N
K4585S	N	27	38	2.5	2.8	1.1	--	N	330	63	25	5.6
K4586S	N	32	33	3.2	3.4	1.6	--	N	300	69	35	8.3
K4587S	N	23	36	1.9	2.5	1.6	--	N	370	52	18	5.8
K4588S	N	22	61	2	N	.92	--	N	600	92	26	8.9
K4589S	N	7.2	35	1.3	N	N	--	N	170	91	28	3.2
K4590S	.48	17	28	N	N	N	--	N	110	58	22	3.6
K4591S	.09	13	37	2.1	N	N	--	N	380	160	68	8.6
K4592S	N	25	29	2.3	N	N	--	N	210	110	49	7.7
K4593S	N	9.6	36	1.3	N	N	--	N	180	60	18	7.2
K4594S	N	6.6	16	1.3	N	N	--	N	110	220	90	3.7
K4595S	N	10	39	1.8	1.3	N	--	N	240	94	27	3.5
K4596S	N	18	55	1.5	N	N	--	N	180	67	25	4.3
K4596SD	N	27	30	1.5	1.8	N	--	N	180	50	23	5.9
K4597S	9.4	3.6	12	2.8	5.6	N	N	N	350	51	20	22

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K4540S	25	21	52	N	10	N	N	N	N	N	N	N
K4541S	22	17	48	N	10	N	N	N	N	N	N	N
K4542S	8.8	13	30	N	9.3	N	N	N	N	N	<3.9	N
K4543S	6.6	51	19	N	<2.4	N	.83	N	N	N	N	N
K4544S	9.6	30	44	N	<5.7	N	.72	N	N	N	N	N
K4545S	7.1	26	31	N	N	N	2.5	N	N	N	N	N
K4546S	4.6	45	89	N	27	N	1.2	N	N	N	N	N
K4547S	4.5	8.7	76	N	17	N	N	N	N	<11	N	N
K4548S	4.8	16	88	N	17	N	.59	N	N	N	N	N
K4549S	5.4	36	50	N	13	N	16	N	N	N	N	N
K4550S	4.8	11	41	N	N	N	N	N	N	N	N	N
K4551S	3.9	6	47	N	N	N	N	N	N	N	N	N
K4552S	5.2	11	19	N	N	N	N	N	N	N	N	N
K4553S	6.3	8.2	38	N	N	N	N	N	N	N	N	N
K4554S	6.5	18	29	N	N	N	.63	N	N	N	N	N
K4555S	2.7	18	19	N	N	N	N	N	N	<7.5	N	N
K4556S	12	16	40	N	N	N	N	N	N	N	N	N
K4557S	9.2	12	33	N	N	N	N	N	N	N	N	N
K4558S	11	15	33	N	N	N	N	N	N	N	N	N
K4558SD	11	17	32	N	<6.9	N	N	N	N	N	N	N
K4559S	9.8	15	31	N	N	N	N	N	N	N	N	N
K4560S	9.3	13	30	N	N	N	N	N	N	N	N	N
K4561S	10	15	31	N	N	N	N	N	N	N	N	N
K4562S	20	74	200	N	<7.4	N	N	N	N	77	N	N
K4563S	15	17	43	N	N	N	.68	N	N	N	N	N
K4564S	22	23	55	N	N	N	N	N	N	N	N	N
K4565S	7	6.9	20	N	N	N	N	N	N	N	N	N
K4566S	14	19	N	N	N	N	N	N	N	N	N	N
K4567S	13	14	38	N	N	N	N	N	N	N	N	N
K4568S	13	11	31	N	N	N	N	N	N	N	N	N
K4569S	13	23	46	N	N	N	N	N	N	N	N	N
K4570S	12	22	39	N	N	N	N	N	N	N	N	N
K4571S	13	24	45	N	N	N	N	N	N	N	N	N
K4572S	16	23	55	N	N	N	N	N	N	N(8.2)	N	N
K4573S	15	74	28	N	N	N	1.6	N	N	N	N	N
K4574S	9.3	34	19	N	N	N	4.6	N	N	N	N	N
K4576S	10	22	44	N	N	N	N	N	N	N	N	N
K4577S	8.6	16	36	N	5.9	N	N	N	N	N	--	N
K4578S	11	19	52	N	<6.7	N	N	N	N	N	--	N
K4579S	6	10	26	N	8.7	N	N	N	N	N	--	N
K4579SD	6.3	11	27	N	<5.8	N	N	N	N	N	N	N
K4580S	7.4	11	29	N	<5.2	N	N	N	N	N	--	N
K4581S	5.6	6.8	56	N	N	N	N	N	N	N	--	N
K4582S	15	20	43	N	<6.2	N	N	N	N	N	--	N
K4583S	14	17	38	N	9.9	N	N	N	N	N	--	N
K4584S	4.1	6.7	23	N	11	N	N	N	N	N	--	N
K4585S	8.9	10	32	N	<5.6	N	N	N	N	N	--	N
K4586S	14	18	33	N	<8.3	N	.49	N	N	N	--	N
K4587S	7.3	8.2	30	N	8	N	.71	N	N	N	--	N
K4588S	9.1	14	56	N	<8.1	N	N	N	N	N	--	N
K4589S	3.4	9.2	21	N	N	N	1.7	N	N	N	N	N
K4590S	3.3	17	22	N	N	N	.59	N	N	N	N	N
K4591S	13	14	49	N	<6	N	N	N	N	N	N	N
K4592S	9.4	180	32	N	N	N	2.6	N	N	N	N	N
K4593S	4.6	15	27	N	<2.1	N	N	N	N	N	N	N
K4594S	7.1	8.9	13	N	N	N	N	N	N	N	N	N
K4595S	3.8	12	38	N	<3.9	N	.89	N	N	N	N	N
K4596S	6.4	120	22	N	6.3	N	6.4	N	N	N	N	N
K4596SD	4.1	24	28	N	13	N	N	N	N	N	N	N
K4597S	11	360	N	11	31	.97	28	N	9.9	32	14	16

Table 2. Aqua-regia leachate data for minus-80-mesh stream sediments from the Mt. Katmai study area, Alaska--continued

Sample	Latitude	Longitude	ICP-Na	ICP-K	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-Li	ICP-B
K4598S	58 57 52	156 1 8	--	--	2,000	2,500	13,000	7,700	640	350	--	N
K4599S	58 59 59	154 56 27	--	--	3,900	1,700	22,000	7,400	530	410	--	N
K4600S	58 53 3	154 56 33	--	--	2,500	2,100	18,000	7,400	790	400	--	N

Sample	ICP-Be	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Zr	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
K4598S	.78	22	60	2.4	3.5	.87	--	N	110	43	17	2.7
K4599S	N	20	47	2.1	2.9	N	--	N	250	64	27	4.5
K4600S	N	14	29	1.5	1.7	N	--	N	250	67	15	4.5

Sample	ICP-Ni	ICP-Cu	ICP-Zn	ICP-Cd	ICP-Pb	ICP-Ag	ICP-Mo	ICP-W	ICP-Sn	ICP-As	ICP-Sb	ICP-Bi
K4598S	3.3	3.6	25	N	N	N	N	N	N	N	N	N
K4599S	8	23	41	N	6.3	N	N	N	N	N	N	N
K4600S	3.8	21	55	N	8.7	N	N	N	N	N(5.4)	N	N