UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical data and sample locality map for aqua-regia leachates of stream sediments analyzed by ICP, and emission spectrographic results for both stream sediments and panned concentrates collected in 1985 from the Chandler Lake quadrangle, Alaska

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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, if any. Results from the Alaska Mineral Resource Assessment Program (AMRAP) must be made available to the public and be submitted to the President and the Congress. This report is one in a series of publications that presents geochemical and mineralogical data determined during the mineral assessment study of the Chandler Lake quadrangle, Alaska. In this report, we present analytical results of aqua-regia leach studies of the stream sediments collected during the geochemical reconnaissance of the Chandler Lake quadrangle, Alaska.

INTRODUCTION

The Chandler Lake quadrangle is located in the central Brooks Range and the Northern and Southern foothills belts of the Arctic Foothills Province, northern Alaska (figure 1). Access is by commercial flights into Anaktuvuk Pass. Sampling in the quadrangle began in 1981 field season and continued intermittently through 1986. Field teams from the U.S. Geological Survey collected stream-sediment samples from the southern part of the quadrangle. Semiquantative spectrographic results, along with some analyses by atomic absorption, from samples collected in 1981 are reported in Barton and others (1982) and for samples collected in 1983 and 1984 are reported in Sutley and others (1984). Additional stream-sediment samples were collected during the 1985 field season. We have included the emission spectrographic results obtained from stream-sediment samples and nonmagnetic heavy-mineral concentrates collected in the quadrangle during 1985 in this report.

The topographic relief in the Brooks Range portion of the study area exceeds 4000 ft with a maximum elevation of 7,610 ft. North of the Brooks Range, the Arctic foothills slope gently north with little relief. The climate is arctic.

GENERAL GEOLOGY

The southern boundary of the quadrangle is approximately coincident with the Brooks Range continental divide. Rocks of the Hunt Fork Shale, the Noatak Sandstone, the Kanayut Conglomerate, the Kayak Shale, the Lisburne Group, and the Siksikpuk, Otuk, and Shublik Formations form the Brooks Range in the southern Chandler Lake quadrangle. These rocks, which are dominantly marine, range in age from Devonian through Jurassic. Early geologic mapping was reported by Brosge' and others (1960,

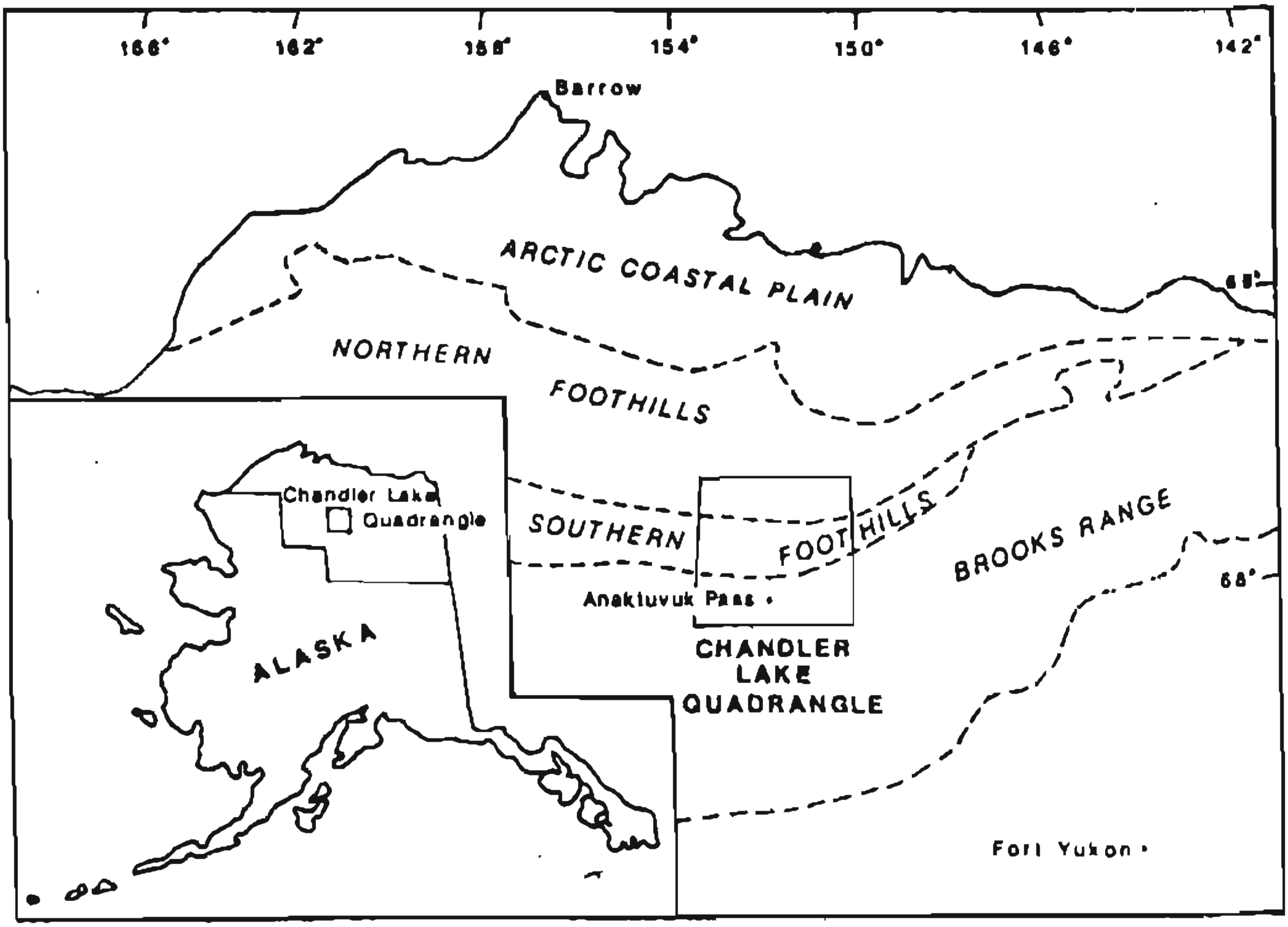

Figure 1. Index map of the central Brooks Range showing the location of the Chandler Lake quadrangle and the physiography of northern Alaska (modified after Wahrhaftig, 1965).

1979). The rocks of Chandler Lake quadrangle in the Brooks Range are unmetamorphosed to weakly metamorphosed and have been severely deformed by thrusting. These rocks form the southern third of the quadrangle. North of the mountains, the Arctic foothills consist of Cretaceous to Tertiary age deltaic rocks derived from the Brooks Range. The clastic rocks of the Arctic foothills were deformed into east-west trending anticlines and synclines and underlie the northern part of the quadrangle.

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 (scales 1:250,000 and 1:63,360). Sampling density was approximately 1 sample site per 2 mi^2 in the mountainous areas and 1 sample per 5 mi^2 in the foothills. Analyses of the stream-sediment samples represent the chemistry of the rock material eroded from the drainage basin upstream from each sample site. Such information is useful in identifying those basins which contain concentrations of elements that may be related to mineral deposits.

In general, the northern half of the Chandler Lake quadrangle was not sampled because this area had been sampled previously during the National Uranium Resource Evaluation (NURE) program. However, 58 stream-sediment and 28 heavy-mineral-concentrate samples collected in 1985 were collected primarily to independently evaluate the regional trends observed in the NURE geochemical data (Los Alamos National Laboratory, 1982). Heavy-mineral-concentrate samples provide information about the chemistry of certain minerals in rock material eroded from the drainage basin upstream from each sample site. The selective concentration of minerals, many of which may be ore-related, permits determination of some elements that are not easily detected in stream-sediment samples. The sample localities are shown on plate 1.

Sample Collection

The stream sediment samples collected in the Chandler Lake quadrangle (Barton and others, 1982; Sutley and others, 1984; and this study) were used for the ICP determinations. A total of 397 stream-sediment samples were collected by the U.S. Geological Survey in the quadrangle. 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. The samples were air-dried in the field and then shipped to the laboratory for analysis.

We collected heavy-mineral-concentrate samples from the same active alluvium as the stream-sediment samples. Each bulk sample was screened with a 2.0-mm (10-mesh) screen to remove the coarse material. The less than 2.0-mm fraction was panned until most of the quartz, feldspar, organic material, and clay-sized material were removed.

Sample Preparation

In the laboratory, the stream sediment samples were sieved using either a 30-mesh (0.59 mm) or an 80-mesh (0.177 mm) stainless steel sieve. The portion of the sediment that passed through the sieve was saved. This minus-30-mesh or minus-80-mesh sediment was then ground to approximately minus-100-mesh (0.15 mm) and used for chemical analysis.

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

Sample Analysis using ICP Methods

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 set at 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.

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 checked for possible spectral interferences. 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. This problem was particularily accute in this study because of the presence of high concentrations of calcium from the limestones and the phosphatic members of the Lisburne Group. In table 1, we report the minimum determinate 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 tables 3 and 4 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 tables 3 and 4. Values of N that are higher than the recommended N are indicated in tables 3 and 4 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 390 samples reported in tables 3 and 4 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).

Sample Analysis using Emission Spectrographic Methods

We analyzed the stream-sediment and heavy-mineral-concentrate samples for 31 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their lower limits of determination are listed in table 2. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Values determined for the major elements (iron, magnesium, calcium, and titanium) are given in weight percent; all others are given in parts per million (micrograms/gram). Analytical data for samples collected in 1985 from the Chandler Lake quadrangle are listed in tables 5 and 6.

Sample Analyses using Chemical Methods

Determinations of the concentrations of gold (Au) and zinc (Zn) were made on the stream-sediment samples to suppliment the emission spectrographic data. Gold was determined using the flame atomic absorption method with a limit of detection of 0.05 ppm. Zinc determinations were also made by flame atomic absorption. The analytical procedures are given in O'Leary and Meier (1986). Results are reported in table 5.

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).

DESCRIPTION OF DATA TABLES

Tables 5 and 6 list the emission spectrographic analyses for the stream-sediment and nonmagmetic heavy-mineral-concentrate samples, respectively. For these two tables, the data are arranged so that column 1 contains the USGS-assigned sample numbers. Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic analyses; "aa" indicates atomic absorption analyses. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination shown for that element in table 2. If an element was observed but was below the lowest reporting value, a "less than" symbol (<) was entered in the tables in front of the lower limit of determination. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the tables in front of the upper limit of determination. If an element was not looked for in a sample, two dashes (--) are entered in tables 5 and 6 in place of an analytical value.

The spectrographic determinations for As, Au, Bi, Cd, Nb, Sb, Sc, Sn, Th, and W in stream-sediment samples, and for Au, Bi, Cd, Nb, Sb, Th, and W in the nonmagnetic heavy-mineral-concentrate samples were all below the lower limits of determinations shown in table 2; consequently, the columns for these elements have been deleted from tables 5 and 6, respectively.

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Table 1. Minimum determinate values and recommended values of N for aqua-regia leachate data from stream sediments from the Chandler Lake quadrangle, Alaska.

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

Element	Minimum Determinant Value (ppm)	Recommended value of N	(no. of N values)	No. of samples having a higher value for N
Mg	130	--		--
Ca	230	5.0	(1)	--
Fe	180	--		--
Al	170	--		--
Ti	0.22	0.5	(29)	3
P	69	5.0	(8)	--
B	.45	.40	(312)	9
Be	.012	.015	(151)	21
Sr	3.1	.20	(8)	--
Ba	4.8	.20	(3)	--
La	1.0	1.0	(13)	26
Ce	.90	.90	(21)	36
Y	.065	.04	(104)	3
Nb	1.7	1.0	(183)	64
Mn	6.6	1.0	(5)	--
V	1.7	.75	(8)	--
Cr	2.4	2.4	(118)	28
Co	2.1	2.0	(2)	47
Ni	4.6	1.0	(8)	1
Cu	.82	.60	(1)	1
Zn	14.	.60	(10)	--
Cd	.65	.40	(302)	29
Pb	2.7	2.7	(34)	39
Ag	1.0	.60	(306)	58
Mo	.45	.40	(263)	66
W	6.6	6.0	(301)	47
As	4.9	5.0	(252)	57
Sb	7.6	5.0	(281)	58

Table 2. Limits of determination for the spectrographic analysis of stream sediments, based on a 10-mg sample

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

Elements	Lower determination limit	Upper determination limit
	Percent	
Magnesium (Mg)	0.02	10
Calcium (Ca)	.05	20
Iron (Fe)	.05	20
Titanium (Ti)	.002	1
	Parts per million	
Boron (B)	10	2,000
Beryllium (Be)	1	1,000
Strontium (Sr)	100	5,000
Barium (Ba)	20	5,000
Scandium (Sc)	5	100
Yttrium (Y)	10	2,000
Lanthanum (La)	20	1,000
Zirconium (Zr)	10	1,000
Thorium (Th)	100	2,000
Niobium (Nb)	20	2,000
Manganese (Mn)	10	5,000
Vanadium (V)	10	10,000
Chromium (Cr)	10	5,000
Cobalt (Co)	5	2,000
Nickel (Ni)	5	5,000
Copper (Cu)	5	20,000
Zinc (Zn)	200	10,000
Cadmium (Cd)	20	500
Lead (Pb)	10	20,000
Silver (Ag)	0.5	5,000
Gold (Au)	10	500
Molybdenum (Mo)	5	2,000
Tungsten (W)	50	10,000
Tin (Sn)	10	1,000
Arsenic (As)	200	10,000
Antimony (Sb)	100	10,000
Bismuth (Bi)	10	1,000

Table 3. Aqua-regia leachate data for minus-30-mesh stream sediments from the Chandler Lake quadrangle, Alaska
[N, not detected; <, detected but below the limit of determination shown.]

Sample	Latitude	Longitude	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-B	ICP-Be
CL256S	68 5 37	151 46 5	6,200	1,400	32,000	14,000	1.3	400	N	N
CL257S	68 2 47	151 53 50	2,200	1,200	17,000	4,700	1.5	390	N	N
CL258S	68 2 2	152 0 35	3,000	1,500	23,000	5,900	1.1	420	N	N
CL259S	68 1 35	152 13 0	1,800	2,900	26,000	5,300	.22	570	N	N
CL260S	68 1 55	152 43 0	160	340	30,000	1,900	N	660	N	N
CL261S	68 2 0	152 49 40	260	230	35,000	3,500	.35	740	N	N
CL264S	68 2 58	152 43 55	3,300	9,000	29,000	8,900	3	2,100	N	.48
CL265S	68 2 56	152 32 40	2,000	930	36,000	7,000	.32	440	N	N
CL266S	68 4 48	152 30 28	880	1,100	24,000	1,600	2	360	N	.71
CL267S	68 2 50	152 27 3	1,000	480	19,000	5,400	N	470	N	.75
CL268S	68 2 58	152 14 20	2,300	1,200	21,000	4,900	.41	380	N	N
CL269S	68 1 30	151 45 0	9,600	57,000	27,000	8,700	21	1,100	N	N(.04)
CL270S	68 0 50	151 38 28	840	1,100	21,000	2,700	N	410	N	.38
CL271S	68 2 40	151 42 25	1,000	920	21,000	3,100	N	490	N	1.8
CL272S	68 3 45	151 41 15	1,400	940	17,000	3,200	.41	360	N	N
CL273S	68 6 47	151 40 35	1,400	730	35,000	5,200	.32	360	N	N
CL274S	68 3 8	151 28 30	880	880	20,000	2,200	N	370	N	.17
CL275S	68 2 58	151 29 0	720	810	27,000	1,800	N	260	N	N
CL276S	68 3 32	151 29 59	840	830	26,000	2,900	.8	410	N	1.2
CL277S	68 2 58	151 13 55	1,600	1,100	22,000	3,700	.61	380	N	N
CL278S	68 3 38	151 7 18	3,000	1,300	31,000	10,000	1.6	370	N	.53
CL279S	68 3 15	150 53 58	4,400	1,700	25,000	9,600	1.1	380	N	N
CL280S	68 5 14	151 0 40	3,500	1,200	18,000	7,400	1.7	380	N	N
CL281S	68 6 5	151 8 40	5,700	1,800	29,000	11,000	2.1	460	N	.23
CL282S	68 9 40	151 45 15	4,400	63,000	8,900	4,500	4.6	1,200	N(.8)	N(.08)
CL283S	68 13 32	151 38 25	7,300	130,000	2,100	870	6.3	880	4.5	N(.08)
CL284S	68 16 35	151 37 35	12,000	220,000	4,000	1,700	19	1,600	N	.15
CL285S	68 13 52	151 47 32	7,200	33,000	37,000	11,000	11	950	N	.74
CL286S	68 14 32	151 55 0	8,300	47,000	31,000	10,000	8.6	1,200	N	.69
CL287S	68 14 30	152 4 50	7,600	65,000	49,000	16,000	4.6	870	N	1
CL288S	68 16 52	152 8 28	3,700	7,100	48,000	13,000	5.1	2,100	N	1.1
CL289S	68 15 33	152 14 10	13,000	84,000	4,000	2,000	7.1	3,200	3.4	N(.08)
CL290S	68 14 32	152 17 25	6,500	13,000	46,000	14,000	10	490	N	1.1
CL291S	68 14 48	152 18 10	10,000	80,000	43,000	12,000	16	1,200	N	.89
CL292S	68 16 45	152 24 42	7,400	67,000	50,000	14,000	5.4	660	N	1
CL293S	68 20 20	152 26 8	13,000	120,000	3,200	1,900	5.1	1,400	3.1	N(.08)
CL294S	68 10 18	151 55 0	4,400	63,000	8,100	3,800	4.6	1,600	N(.8)	N(.08)
CL296S	68 8 30	152 16 15	5,400	4,500	39,000	7,600	N	470	N	N
CL297S	68 10 20	152 26 5	3,900	2,400	28,000	7,200	N	360	N	N
CL298S	68 11 33	152 6 15	5,100	2,000	36,000	11,000	N	480	N	N
CL299S	68 12 32	152 39 25	2,400	920	17,000	5,900	1.1	330	N	N
CL300S	68 9 35	152 22 0	7,400	1,800	37,000	16,000	.67	460	N	N
CL307S	68 3 3	151 55 10	9,200	17,000	27,000	9,600	11	910	N	N(.04)
CL308S	68 1 35	151 23 25	21,000	41,000	48,000	18,000	380	1,600	N	.89
CL309S	68 1 25	151 54 55	9,100	12,000	50,000	13,000	13	750	N	1.3
CL310S	68 1 12	152 2 47	2,600	1,200	25,000	5,400	N	390	N	N
CL311S	68 1 10	152 16 4	8,400	39,000	59,000	16,000	6	930	N	1.3
CL312S	68 1 47	152 40 45	340	710	35,000	4,500	N	780	N	N
CL313S	68 1 46	152 47 2	130	300	34,000	1,800	N	620	N	N
CL314S	68 1 25	152 58 20	1,100	1,300	27,000	2,800	N	540	N	N
CL317S	68 3 2	152 40 0	920	1,800	36,000	3,800	N	620	N	N
CL318S	68 6 0	152 28 32	990	1,200	25,000	2,000	N	350	N	N
CL319S	68 6 0	152 26 25	1,500	1,100	28,000	3,000	N	380	N	N
CL320S	68 2 20	152 19 32	300	760	26,000	1,500	N	420	N	N
CL321S	68 3 20	151 46 25	1,700	1,100	22,000	4,000	1.3	420	N	N
CL322S	68 1 15	151 43 5	7,900	21,000	47,000	8,200	34	920	N	.74
CL323S	68 1 30	151 36 38	520	710	32,000	2,600	N	460	N	N
CL324S	68 1 15	151 36 25	1,700	1,300	41,000	2,600	N	150	N	N
CL325S	68 5 10	151 37 3	2,100	1,200	21,000	4,600	.5	370	N	N
CL326S	68 6 35	151 32 15	2,700	1,300	28,000	6,700	.61	410	N	N

Table 3. Aqua-regia leachate data for minus-80-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

Sample	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
CL256S	13	61	1.5	1.2	N	N	360	21	33	13
CL257S	9.1	41	1.5	2.0	1.7	N	310	10	15	5.7
CL258S	8.6	28	1.9	2.0	.72	N	360	14	18	8.8
CL259S	14	150	2.3	2.1	2.5	N	480	11	17	11
CL260S	6.6	39	1.2	1.4	.82	N	470	14	<14	6.9
CL261S	9.9	58	1.5	2.3	.93	N	1,000	17	<18	15
CL264S	30	41	8	5	12	N	730	22	24	15
CL265S	6.3	110	1.2	.9	N	N	900	13	<21	14
CL266S	6	42	1.8	3.2	1.2	N	410	14	<12	8.5
CL267S	7.1	51	1.2	2.4	2.9	N	1,700	9.6	14	25
CL268S	8.3	57	1.6	2.5	1.1	N	350	12	15	7.1
CL269S	75	210	10	17	7.3	N(4)	630	27	41	25
CL270S	6.2	33	1.4	2.5	2.1	N	590	12	14	6.5
CL271S	5.5	36	1.4	2.2	1.3	N	220	11	13	7.4
CL272S	5.9	38	1	1.7	2.4	N	560	10	13	7.5
CL273S	8	64	N	N	N	N	730	18	22	14
CL274S	6.1	46	N	1.5	1.2	N	450	9.9	<12	5.8
CL275S	4.5	39	1.1	1.4	N	N	680	13	<14	5.6
CL276S	4.9	48	1.2	2.3	.57	N	730	12	<14	9.4
CL277S	8.6	41	1.5	2.8	1.4	N	410	13	14	9.5
CL278S	8.2	88	1.6	2.4	.33	N	500	19	26	13
CL279S	14	38	1.2	.93	.21	N	330	16	23	7.6
CL280S	7.3	42	1.4	2.5	1.8	N	260	15	18	6.4
CL281S	10	61	1.8	2.7	.73	N	320	21	27	12
CL282S	92	430	N(8)	N(7.2)	8.3	N	200	22	--	N(16)
CL283S	92	14	N(8)	N(7.2)	7.5	N(8)	56	11	--	N(16)
CL284S	160	35	14	4.8	13	N(8)	96	21	15	N(6)
CL285S	72	73	9	10	9.7	N(3)	410	50	N(3)	14
CL286S	76	82	10	6.5	10	N(3)	600	34	N(3)	10
CL287S	91	150	11	5.7	4.9	N(3)	530	35	N(3)	13
CL288S	28	380	9.2	6.3	6	N(3)	950	40	N(3)	15
CL289S	74	420	8.8	N(7.2)	12	N(8)	77	19	--	N(16)
CL290S	35	170	5.4	4.5	1.3	N(3)	440	33	N(3)	14
CL291S	84	180	16	12	7	N(3)	620	36	N(3)	14
CL292S	72	130	9.3	4.2	2.8	N(2)	640	31	N	13
CL293S	110	350	9.1	N(7.2)	12	N(8)	68	15	--	N(16)
CL294S	74	910	8.6	N(7.2)	11	N(8)	170	19	--	N(16)
CL296S	16	110	2.3	3.6	.17	N	580	24	<23	15
CL297S	18	61	1.9	2.6	.32	N	490	18	20	10
CL298S	12	57	2.1	2.6	N	N	560	25	26	15
CL299S	5.2	49	1	2	1.6	N	290	13	18	6.1
CL300S	12	43	1.9	1.7	N	N	510	25	36	16
CL307S	37	200	7	11	3.3	N(4)	580	25	42	17
CL308S	89	62	23	28	3.9	4.2	590	52	17	25
CL309S	41	120	18	12	3.7	2.2	940	31	N	38
CL310S	7.3	21	1.5	2	N	N	370	12	<15	10
CL311S	78	180	11	6.8	2.8	2	850	28	N	22
CL312S	8.5	34	1.8	3.3	1.4	N	880	14	<14	20
CL313S	7.2	31	1.3	1.6	.12	N	510	13	<11	9.4
CL314S	11	23	2	3.5	1.1	N	700	9.1	<13	13
CL317S	11	70	1.7	2.5	2	N	1,800	11	<14	17
CL318S	5.9	45	1.8	3.3	.82	N	370	14	<12	9.3
CL319S	5.7	64	1.8	3.3	.47	N	530	15	<13	18
CL320S	5.3	47	1.6	3.2	1.2	N	690	9	<9	12
CL321S	7.7	43	1.9	3.7	1.2	N	520	11	15	8.7
CL322S	48	43	11	13	1.6	N(2)	490	28	N	17
CL323S	4.9	49	1.4	2.6	1.7	N	1,500	13	<11	20
CL324S	4.2	40	1.1	N	N	N	850	12	<12	11
CL325S	6	45	1.8	2.9	1.5	N	320	13	13	8.6
CL326S	7.4	52	1.5	1.9	.26	N	400	16	<16	9.8

Table 5. Aqua-regia leachate data for minus-30-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

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
CL256S	36	29	76	N	<8.1	N	N	N	N	N	N	N
CL257S	18	11	26	N	<3.8	N	N	N	N	N	N	N
CL258S	21	15	35	N	<5.1	N	N	N	N	N	N	N
CL259S	28	19	110	<.92	10	N	N	N	N	N	N	N
CL260S	19	18	39	N	8.1	N	N	N	N	<8	N	N
CL261S	22	23	87	N	23	N	N	N	N	<6.5	N	N
CL264S	47	38	160	2.1	9.7	N	2.6	N	N	N	N	N
CL265S	42	25	79	N	10	N	N	N	N	N	N	N
CL266S	18	12	34	N	6.9	N	N	N	N	<6.3	N	N
CL267S	27	28	310	9.3	21	N	N	N	N	N	N	N
CL268S	19	13	150	1.3	7.5	N	N	N	N	N	N	N
CL269S	36	23	130	1.1	8.8	N(1.2)	N(1.6)	N(12)	N	<22	N(10)	N
CL270S	18	11	35	N	6.8	N	N	N	N	<4.8	N	N
CL271S	20	11	96	N	8.8	N	N	N	N	<6.8	N	N
CL272S	23	13	30	N	4.7	N	N	N	N	N	N	N
CL273S	30	36	77	N	9.1	N	N	N	N	N	N	N
CL274S	18	11	32	N	4.5	N	N	N	N	<5	N	N
CL275S	19	7.1	420	3.9	16	N	N	N	N	N	N	N
CL276S	22	16	190	1.2	12	N	N	N	N	<5.1	N	N
CL277S	22	19	47	N	7.1	N	N	N	N	N	N	N
CL278S	32	27	73	N	10	N	N	N	N	N	N	N
CL279S	27	22	64	N	7.6	N	N	N	N	N	N	N
CL280S	20	14	41	N	5.4	N	N	N	N	N	N	N
CL281S	30	25	62	N	<8	N	N	N	N	N	N	N
CL282S	27	11	100	2.1	N(16)	N(2.4)	N(3.2)	N(24)	N	N(16)	N(20)	N
CL283S	8.4	2.7	52	N	N(16)	N(2.4)	N(3.2)	N(24)	N	N(16)	N(20)	N
CL284S	15	5.8	72	N	N(6)	N(.9)	1.3	N(9)	N	N(6)	N(7.5)	N
CL285S	60	65	280	N	18	N(.9)	6.4	N(9)	N	24	N(7.5)	N
CL286S	56	43	180	N	14	N(.9)	2.3	N(9)	N	20	N(7.5)	N
CL287S	50	25	160	N	21	N(.9)	N(1.2)	13	N	8.2	N(7.5)	N
CL288S	52	22	190	.65	21	N(.9)	N(1.2)	11	N	N(6)	N(20)	N
CL289S	14	5.2	47	N(1.6)	N(16)	N(2.4)	N(3.2)	N(24)	N	N(16)	N(20)	N
CL290S	44	35	120	N	16	N(.9)	N(1.2)	N(9)	N	N(6)	N(7.5)	N
CL291S	52	24	100	N	16	N(.9)	N(1.2)	N(9)	N	N(6)	N(7.5)	N
CL292S	43	31	140	N	24	N	N(.8)	N	N	N	N	N
CL293S	29	5.9	92	2.1	N(16)	N(2.4)	N(3.2)	N(24)	N	N(16)	N(20)	N
CL294S	24	11	97	2	N(16)	N(2.4)	N(3.2)	N(24)	N	N(16)	N(20)	N
CL296S	27	30	64	N	<7	N	N	N	N	N	N	N
CL297S	22	23	53	N	8.1	N	N	N	N	N	N	N
CL298S	29	27	65	N	<6.2	N	N	N	N	N	N	N
CL299S	20	13	28	N	<2.3	N	N	N	N	N	N	N
CL300S	33	32	67	N	<4.1	N	N	N	N	N	N	N
CL307S	54	18	150	N(.8)	N(8)	N(1.2)	N(1.6)	N(12)	N	<14	N(10)	N
CL308S	110	25	110	N	16	N	.97	6.6	N	N	N	N
CL309S	94	42	690	2	30	N	N(.8)	N	N	4.9	N	N
CL310S	19	15	32	N	<5	N	N	N	N	N	N	N
CL311S	58	47	140	N	29	N	N(.8)	8.6	N	N	N	N
CL312S	28	26	85	N	9.5	N	N	N	N	N	N	N
CL313S	20	15	32	N	7	N	N	N	N	<7	N	N
CL314S	30	18	60	N	9.7	N	N	N	N	<7	N	N
CL317S	39	24	110	<.61	3.1	N	N	N	N	<6.5	N	N
CL318S	17	13	30	N	5.8	N	N	N	N	<5	N	N
CL319S	20	14	62	N	6.3	N	N	N	N	N	N	N
CL320S	21	12	150	3.8	3.6	N	N	N	N	<8.3	N	N
CL321S	22	12	31	N	4.4	N	N	N	N	N	N	N
CL322S	65	23	81	N	16	N	N(.8)	N	N	10	N	N
CL323S	34	20	390	3	18	N	N	N	N	<6.5	N	N
CL324S	19	30	130	N	47	N	N	N	N	N	N	N
CL325S	20	16	34	N	4.9	N	N	N	N	N	N	N
CL326S	23	21	55	N	<5.3	N	N	N	N	N	N	N

Table 3. Aqua-regia leachate data for minus-30-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

Sample	Latitude	Longitude	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-B	ICP-Be
CL327S	68 6 10	151 23 10	5,400	2,700	38,000	11,000	2.6	450	N	N
CL328S	68 3 15	151 17 52	1,500	1,100	22,000	4,000	1.8	380	N	N
CL329S	68 3 13	151 10 35	2,200	1,400	37,000	5,900	1.2	460	N	N
CL330S	68 3 38	151 11 50	2,700	1,000	16,000	6,100	1.8	310	N	N
CL331S	68 2 18	150 58 25	4,500	1,800	25,000	10,000	1.5	440	N	N
CL332S	68 2 20	150 59 25	2,600	1,300	27,000	6,000	.43	400	N	N
CL333S	68 5 55	151 5 30	3,600	1,200	17,000	8,100	4	340	N	N
CL334S	68 6 0	151 11 50	3,700	1,300	20,000	8,200	5.3	380	N	N
CL335S	68 11 43	151 41 5	12,000	180,000	2,200	820	3.8	230	5	N(.08)
CL336S	68 14 45	151 36 50	6,100	75,000	5,500	3,200	2.6	1,000	N(.8)	N(.08)
CL337S	68 16 12	151 41 25	6,700	83,000	5,900	2,900	2.7	1,100	N(.8)	N(.08)
CL338S	68 13 57	151 49 35	9,000	41,000	29,000	9,600	9.8	820	N	.68
CL339S	68 14 45	152 2 48	10,000	100,000	3,600	1,800	8.4	4,300	2.8	N(.08)
CL340S	68 13 20	152 3 5	20,000	46,000	35,000	11,000	7.7	900	N	.86
CL341S	68 17 28	152 10 20	2,200	52,000	4,400	2,500	9.5	4,400	2.1	N(.08)
CL342S	68 15 20	152 18 5	4,800	230,000	3,900	2,800	29	9,100	N	.24
CL343S	68 17 45	152 20 0	9,300	170,000	20,000	6,700	9.3	1,300	N	.43
CL344S	68 20 33	152 22 2	14,000	130,000	28,000	9,100	8.8	1,200	N	.6
CL345S	68 9 33	151 55 0	5,100	12,000	32,000	11,000	3.4	680	N	.88
CL346S	68 7 35	152 6 35	6,200	2,600	30,000	15,000	3.5	380	N	N
CL347S	68 7 55	152 10 15	2,400	1,600	17,000	6,000	3.1	280	N	N
CL348S	68 9 12	152 22 33	1,400	1,500	23,000	2,500	.48	250	N	N
CL349S	68 10 43	152 30 35	3,100	1,900	34,000	6,900	1.9	310	N	N
CL350S	68 12 2	152 36 15	1,200	860	24,000	4,600	1.6	270	N	N
CL351S	68 8 47	152 39 45	1,800	1,300	23,000	4,700	2.1	280	N	N
CL352S	68 8 50	152 57 50	8,300	2,500	49,000	19,000	3	410	N	N
CL353S	68 16 35	152 49 50	2,000	1,200	35,000	5,500	5.4	250	N	N
CL354S	68 18 25	152 40 30	14,000	85,000	22,000	4,500	15	420	N	.4
CL355S	68 20 35	152 55 58	19,000	150,000	18,000	7,200	7.7	270	N	.38
CL356S	68 22 48	152 52 10	16,000	43,000	25,000	9,000	13	1,500	N	.6
CL357S	68 22 15	152 19 30	27,000	95,000	16,000	6,500	35	3,100	N	.41
CL358S	68 9 42	152 5 50	1,600	1,100	22,000	4,900	5.3	380	N	N
CL359S	68 10 20	152 15 15	3,000	1,200	36,000	7,600	5	290	N	N
CL360S	68 10 55	152 21 0	2,500	1,600	50,000	7,800	1.4	310	N	N
CL361S	68 12 3	152 28 7	1,800	1,300	36,000	6,900	2.8	300	N	N
CL362S	68 6 2	152 43 32	1,600	2,000	24,000	5,000	2.6	430	N	N
CL363S	68 6 55	152 55 50	5,100	1,600	34,000	12,000	3.5	310	N	N
CL364S	68 12 32	152 52 0	4,100	1,600	26,000	8,600	11	270	N	N
CL365S	68 13 20	152 45 35	4,200	1,500	26,000	9,100	5.3	300	N	N
CL366S	68 15 20	152 35 2	1,800	830	21,000	5,000	3.7	260	N	N
CL367S	68 15 40	152 34 50	4,100	9,300	39,000	11,000	1.2	330	N	N
CL368S	68 19 30	152 16 0	2,100	50,000	13,000	5,100	11	5,500	N	N(.04)
CL369S	68 13 12	151 27 38	5,700	90,000	31,000	3,900	7.4	310	N	.6
CL370S	68 15 20	151 27 12	230	720	9,700	1,900	3.9	92	N	N
CL371S	68 17 20	151 20 35	5,000	70,000	16,000	4,700	10	750	N	.33
CL372S	68 18 22	151 41 0	32,000	160,000	6,100	2,400	14	810	N	.16
CL373S	68 18 53	151 46 42	6,700	250,000	2,700	2,600	34	11,000	1.2	.31
CL374S	68 18 5	151 54 32	17,000	100,000	20,000	9,100	23	1,700	N	.48
CL375S	68 6 48	152 11 2	1,400	1,400	23,000	3,600	1.3	260	N	N
CL376S	68 4 35	152 14 1	5,500	1,800	25,000	11,000	N(.8)	380	N	N(.04)
CL377S	68 6 23	152 18 57	3,100	1,500	26,000	7,600	2.1	330	N	N
CL378S	68 1 35	151 52 54	5,600	2,000	34,000	13,000	3.7	370	N	N
CL379S	68 8 32	151 57 30	2,700	250,000	2,000	1,100	13	710	1.8	.056
CL380S	68 8 10	151 11 5	32,000	150,000	12,000	5,600	9.7	290	N	.33
CL381S	68 9 26	150 58 33	36,000	200,000	3,400	1,100	8.1	340	N	.054
CL382S	68 15 7	151 13 52	26,000	74,000	21,000	6,000	6.6	460	N	.62
CL383S	68 12 11	151 15 28	9,000	270,000	8,000	2,800	10	290	N	.17
CL384S	68 14 0	151 16 0	790	720	24,000	3,000	22	350	N	.82
CL385S	68 15 22	151 7 23	28,000	91,000	26,000	8,300	7.5	380	N	.69
CL386S	68 19 41	151 12 2	29,000	120,000	3,400	1,500	3.4	300	2.5	N(.08)

Table 3. Aqua-regia leachate data for minus-30-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

Sample	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
CL327S	12	57	1.8	2.2	.5	N	370	21	23	12
CL328S	7.7	51	1.5	2.6	1.2	N	440	12	<12	8.9
CL329S	8	64	1.7	3	.43	N	870	17	<17	16
CL330S	6.8	41	1.5	2.7	1.6	N	210	13	14	7.5
CL331S	14	44	1.6	1.9	.52	N	330	16	21	11
CL332S	9.2	48	1.5	2.2	.44	N	510	14	<15	11
CL333S	7.7	42	1.5	2.7	1.7	N	170	15	15	6.8
CL334S	8.4	48	1.7	3	1.7	N	240	15	16	8.1
CL335S	170	12	N(8)	N(7.2)	5.1	N(8)	48	5.6	--	N(16)
CL336S	82	160	N(8)	N(7.2)	11	N(8)	100	19	--	N(16)
CL337S	91	170	N(8)	N(7.2)	12	N(8)	120	18	--	N(16)
CL338S	69	120	12	8.6	12	2.2	310	31	N	12
CL339S	100	87	15	N(7.2)	23	N(8)	75	33	--	N(16)
CL340S	36	170	8.5	3.6	4.7	3.2	560	31	N	13
CL341S	70	360	15	N(7.2)	23	N(8)	120	51	--	N(16)
CL342S	190	51	52	11	67	N(4)	98	27	25	N(8)
CL343S	160	150	19	8.7	11	N(2)	290	21	N	6.2
CL344S	130	310	13	6.2	7.6	2.2	400	27	N	7.8
CL345S	19	100	3.9	2.2	1.1	N(2)	580	25	N	14
CL346S	14	75	2.3	3.5	.51	N	420	25	29	12
CL347S	7.8	57	2	3.7	2	N	230	13	16	6.6
CL348S	7.2	42	1.5	2.4	.89	N	450	13	<13	7.6
CL349S	11	58	2.2	2.5	N	N	350	22	22	11
CL350S	7.1	84	1.1	1.4	N	N	800	13	16	9.6
CL351S	8	40	1.9	3.3	.78	N	350	14	17	8.8
CL352S	16	34	1.8	N	N	N	530	30	40	18
CL353S	5.5	95	1.5	1.9	N	N	530	25	24	11
CL354S	99	49	8.8	5.2	4.1	N(3)	570	19	N(3)	8.3
CL355S	190	75	13	6	6.5	2.8	400	23	N	5.1
CL356S	56	30	9.8	6.7	9.4	3.5	590	49	N	12
CL357S	81	350	16	7.7	15	4.2	1,100	41	N	8.3
CL358S	5.5	66	1	1	.29	N	410	14	17	7
CL359S	7.8	96	1.8	2.2	N	N	510	25	24	13
CL360S	8.8	130	1.7	.98	N	N	600	29	<25	16
CL361S	7.5	110	1.5	1.5	N	N	610	24	26	15
CL362S	12	69	2.3	4.9	3.1	N	830	12	16	13
CL363S	12	32	1.4	1	N	N	450	20	25	14
CL364S	6.3	66	1.6	2.1	.22	N	260	22	24	9.8
CL365S	7.1	95	1.6	2.3	.3	N	310	20	22	8.9
CL366S	5	68	N	1.5	.065	N	440	14	17	6.9
CL367S	16	100	2	1.7	N	N	600	21	29	13
CL368S	60	270	11	4.2	18	N(4)	410	38	20	N(8)
CL369S	120	87	8.2	7.9	2.4	N(3)	420	18	N(3)	18
CL370S	3.9	98	N	N	.66	N	140	8.8	8.3	4.4
CL371S	66	420	11	12	7.3	N(3)	380	24	N(3)	20
CL372S	210	56	12	4.3	8.9	3.5	120	16	2.4	N(4)
CL373S	260	79	45	13	59	N(4)	51	96	64	N(8)
CL374S	140	240	14	6.8	12	2.8	410	34	N	8.6
CL375S	6.4	54	1.6	2.6	.46	N	350	13	15	7.5
CL376S	12	81	N(4)	3.8	1.3	N(4)	400	22	31	12
CL377S	7.9	70	1.9	3	.62	N	390	17	19	8.5
CL378S	14	63	1.8	1.4	N	N	320	20	28	12
CL379S	230	59	20	6.5	12	N(4)	100	15	16	N(8)
CL380S	130	240	13	4.5	7	3.3	110	16	N	N(4)
CL381S	130	680	18	N(3.6)	9.8	N(4)	92	11	6.4	N(8)
CL382S	63	220	9.5	3.4	6	2.7	460	18	N	12
CL383S	390	38	21	6.5	7.8	N(4)	120	12	N(4)	N(8)
CL384S	5.3	73	N(2)	3.4	1.2	N(2)	410	15	N	15
CL385S	70	250	7.9	2.9	5.2	3	350	18	N	11
CL386S	80	96	N(8)	N(7.2)	6.6	N(8)	56	12	--	N(16)

Table 5. Aqua-regia leachate data for minus-30-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

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
CL327S	29	26	55	N	<7.4	N	N	N	N	N	N	N
CL328S	19	13	39	N	5.2	N	N	N	N	N	N	N
CL329S	31	30	72	N	8	N	N	N	N	N	N	N
CL330S	17	13	30	N	<4	N	N	N	N	N	N	N
CL331S	27	24	64	N	<6.2	N	N	N	N	N	N	N
CL332S	24	24	95	N	9.4	N	N	N	N	N	N	N
CL333S	17	13	31	N	<2.5	N	N	N	N	N	N	N
CL334S	19	14	34	N	<2.7	N	N	N	N	N	N	N
CL335S	11	1.5	37	N(1.6)	N(16)	N(2.4)	N(3.2)	N(24)	N	N(16)	N(20)	N
CL336S	29	7.4	98	2.1	N(16)	N(2.4)	N(3.2)	N(24)	N	N(16)	N(20)	N
CL337S	40	7.9	93	2.2	N(16)	N(2.4)	N(3.2)	N(24)	N	N(16)	N(20)	N
CL338S	52	43	140	N	15	N	4.3	N	N	7.3	N	N
CL339S	33	9.1	130	3.9	N(16)	N(2.4)	N(3.2)	N(24)	N	N(16)	N(20)	N
CL340S	41	32	100	N	16	N	1.1	8.1	N	5.6	N	N
CL341S	58	12	180	1.7	N(16)	N(2.4)	4.9	N(24)	N	N(16)	N(20)	N
CL342S	21	11	75	N(.8)	N(8)	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL343S	26	10	71	N	[illegible]	N	N(.8)	8.5	N	N	N	N
CL344S	29	18	82	N	11	N	N(.8)	10	N	N	N	N
CL345S	38	22	98	N	19	N	N(.8)	8.9	N	9	N	N
CL346S	27	25	56	N	[illegible]	N	N	N	N	N	N	N
CL347S	16	11	21	N	[illegible]	N	N	N	N	N	N	N
CL348S	13	16	69	[illegible]	[illegible]	N	N	N	N	N	N	N
CL349S	23	25	54	N	5	N	N	N	N	N	N	N
CL350S	21	13	46	N	3.9	N	N	N	N	N	N	N
CL351S	18	14	35	N	4.9	N	N	N	N	N	N	N
CL352S	36	36	72	N	N	N	N	N	N	N	N	N
CL353S	25	26	45	N	<3.2	N	N	N	N	N	N	N
CL354S	23	9.1	64	N	8.2	N(.9)	N(1.2)	N(9)	N	23	N(7.5)	N
CL355S	30	36	90	N	9.8	N	1.6	7.3	N	N	N	N
CL356S	50	48	170	N	13	N	5.5	8.1	N	16	N	N
CL357S	37	21	100	N	7.7	N	2.3	7.2	N	6	N	N
CL358S	20	15	37	N	<4.4	N	N	N	N	N	N	N
CL359S	28	29	57	N	<3.9	N	N	N	N	N	N	N
CL360S	31	37	75	N	<6.2	N	N	N	N	N	N	N
CL361S	32	33	71	N	<6	N	N	N	N	N	N	N
CL362S	32	15	49	.69	5.7	N	N	N	N	N	N	N
CL363S	31	27	62	N	<4.8	N	N	N	N	N	N	N
CL364S	23	19	42	N	N	N	N	N	N	N	N	N
CL365S	23	17	41	N	<2.9	N	N	N	N	N	N	N
CL366S	18	15	33	N	<3.1	N	N	N	N	N	N	N
CL367S	33	24	79	N	<6.2	N	N	N	N	N	N	N
CL368S	26	12	110	2.6	N(8)	N(1.2)	N(1.6)	N	N	<16	N(10)	N
CL369S	25	19	89	N	15	N(.9)	1.7	15	N	21	N(7.5)	N
CL370S	13	13	17	N	2.7	N	N	N	N	N	N	N
CL371S	24	15	74	N	16	1	4.5	11	N	28	7.6	N
CL372S	15	4.4	58	N	N(4)	N	N(.8)	N	N	N	N	N
CL373S	35	14	200	N(.3)	N(8)	N(1.2)	6.9	N(12)	N	N(8)	N(10)	N
CL374S	43	29	110	N	10	N	2.7	N	N	N	N	N
CL375S	17	15	31	N	5.9	N	N	N	N	N	N	N
CL376S	29	17	55	N(.8)	9.8	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL377S	20	13	35	N	<3.7	N	N	N	N	N	N	N
CL378S	36	30	59	N	12	N	N	N	N	N	N	N
CL379S	14	6.4	62	N(.8)	N(8)	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL380S	21	16	66	N	5	N	N(.8)	N	N	N	N	N
CL381S	18	7.4	60	N	N(8)	N(1.2)	N(1.6)	N(12)	N	13	N(10)	N
CL382S	36	20	130	N	13	N	N(.8)	N	N	5.5	N	N
CL383S	14	6	53	N	N(8)	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL384S	25	27	150	N	11	N	N(.8)	N	N	N	N	N
CL385S	34	27	75	N	11	N	N(.8)	N	N	N	N	N
CL386S	50	6.8	91	1.8	N(16)	N(2.4)	N(3.2)	N(24)	N	N(16)	N(20)	N

Table 3. Aqua-regia leachate data for minus-30-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

Sample	Latitude	Longitude	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-B	ICP-Be
CL387S	68 19 58	150 56 32	1,100	430	22,000	4,400	14	230	N	.4
CL388S	68 15 57	151 0 54	13,000	43,000	25,000	6,100	6.4	340	N	.55
CL389S	68 11 8	151 7 50	7,400	93,000	4,000	1,800	4.5	240	.94	N(.08)
CL390S	68 11 13	151 6 50	20,000	64,000	31,000	11,000	4.7	380	N	.79
CL391S	68 14 8	150 53 32	830	1,100	13,000	2,000	7.2	220	N	N
CL392S	68 13 35	150 56 40	1,300	1,500	21,000	4,100	13	220	N	N
CL393S	68 12 36	150 56 0	2,400	1,400	30,000	5,900	45	240	N(.8)	1.7
CL394S	68 8 33	150 58 6	11,000	69,000	18,000	4,200	6.4	850	N(.8)	N(.08)
CL401S	68 16 1	152 49 50	2,800	1,300	43,000	7,000	10	300	N	N
CL402S	68 15 46	152 43 30	1,800	930	32,000	5,000	6.5	250	N	N
CL403S	68 18 35	152 49 50	7,500	25,000	69,000	13,000	8.8	690	N	1.5
CL404S	68 19 35	152 55 0	2,600	3,700	19,000	6,100	180	740	N(.8)	1.8
CL405S	68 22 48	152 51 0	4,100	49,000	8,400	2,500	6.7	3,800	N(.8)	.23
CL406S	68 25 20	152 50 0	3,000	4,100	24,000	8,000	110	800	N	N
CL407S	68 7 48	152 0 40	1,200	940	18,000	3,600	4.1	260	N	N
CL408S	68 9 30	152 7 50	1,200	980	27,000	3,700	3.2	340	N	.013
CL409S	68 10 45	152 18 35	2,200	1,400	36,000	6,100	6.3	230	N	N
CL410S	68 11 25	152 24 58	1,400	2,000	37,000	3,000	.89	330	N	N
CL411S	68 7 33	152 33 55	1,900	1,200	20,000	4,300	2	340	N	N
CL412S	68 5 27	152 41 5	1,200	1,500	20,000	3,300	2.7	380	N	N
CL413S	68 5 57	152 46 20	890	900	22,000	3,000	1.8	370	N	.036
CL415S	68 12 38	152 46 55	4,000	1,400	21,000	8,700	5.6	250	N	N
CL416S	68 14 8	152 39 5	2,400	1,600	27,000	6,000	5.8	300	N	N
CL417S	68 17 35	152 34 30	20,000	78,000	21,000	5,600	8.1	450	N	.32
CL418S	68 19 28	152 18 15	7,500	88,000	19,000	5,900	25	7,900	N	.47
CL419S	68 11 50	151 29 18	31,000	240,000	1,400	780	9.9	350	.99	.045
CL420S	68 14 13	151 27 38	270	1,200	12,000	990	2.4	120	N	N
CL421S	68 16 27	151 22 15	3,600	11,000	15,000	2,300	3.7	240	N	N
CL422S	68 19 4	151 34 55	8,000	120,000	17,000	5,400	13	1,400	N	.35
CL423S	68 17 20	151 44 10	20,000	110,000	1,300	660	3.5	1,700	3.5	N(.08)
CL424S	68 18 0	151 47 32	4,000	83,000	180	170	N(1.6)	300	2.4	N(.08)
CL425S	68 23 0	151 55 25	33,000	260,000	1,900	920	17	560	.45	.044
CL426S	68 23 12	151 57 7	3,400	2,200	21,000	7,200	N(1.6)	330	N(.8)	5

Table 3. Aqua-regia leachate data for minus-30-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

Sample	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
CL387S	3.1	70	N(2)	2.9	N(.08)	N(2)	160	19	N	5.1
CL388S	58	450	5.2	2.6	2.8	N(2)	280	18	N	7.9
CL389S	53	230	N(8)	N(7.2)	5.3	N(8)	93	5.8	--	N(16)
CL390S	58	40	6.5	3	4.2	3.5	150	27	N	11
CL391S	4.8	67	1	1.6	1.6	N	240	14	12	4.8
CL392S	5.7	77	1.3	1.5	1.1	N	190	25	21	4.5
CL393S	6.4	91	N(8)	N(7.2)	N(.32)	N(8)	460	32	--	N(16)
CL394S	85	680	N(8)	N(7.2)	6.4	N(8)	420	20	--	N(16)
CL401S	6.5	110	1.3	1.1	N	N	640	35	27	15
CL402S	5.3	89	1.3	1.7	N	N	600	24	21	11
CL403S	41	270	6.4	6	N(.12)	N(3)	1,300	49	N(3)	28
CL404S	11	250	N(8)	N(7.2)	2.9	N(8)	920	28	--	N(16)
CL405S	66	700	10	N(7.2)	16	N(8)	210	30	--	N(16)
CL406S	11	N	3.3	4.3	2.5	N	1,300	31	20	9.9
CL407S	5.3	65	N	.92	.33	N	360	11	15	6.5
CL408S	5.9	60	1.2	1.5	.14	N	710	13	<16	8.2
CL409S	6.6	110	1.8	2.2	N	N	470	31	26	12
CL410S	8.9	96	2.1	2.7	N	N	540	24	<18	14
CL411S	6.8	38	1.7	4.1	1.8	N	440	12	15	7
CL412S	9.6	44	1.7	3.5	4.3	N	810	8.3	13	12
CL413S	7.6	50	1.3	3.2	1.6	N	1,300	9.9	14	14
CL415S	5.9	60	1.2	1.6	.6	N	260	19	23	6.4
CL416S	6.1	60	1.9	3.5	1.5	N	560	24	22	10
CL417S	89	41	7.3	4.4	3.4	2.7	280	19	N	6.9
CL418S	120	610	22	9	24	2.6	380	62	N	6.4
CL419S	220	25	15	4.7	8.6	N(4)	33	8.4	8.3	N(8)
CL420S	3.5	29	N	N	.87	N	200	8.5	7.5	6.1
CL421S	9.6	73	1.6	2	1.9	N	300	13	11	4.8
CL422S	130	470	11	6.3	11	N(3)	340	26	N(3)	6.9
CL423S	96	65	N(8)	N(7.2)	11	N(8)	35	19	--	N(16)
CL424S	47	4.8	N(8)	N(7.2)	3.8	N(8)	6.6	1.7	--	N(16)
CL425S	220	33	15	N	9.2	N(4)	55	9.2	4.6	N(8)
CL426S	8.6	33	N(8)	N(7.2)	.6	N(8)	330	13	--	N(16)

Table 3. Aqua-regia leachate data for minus-30-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

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
CL387S	13	6.9	29	N	8.7	N	N(.8)	N	N	N	N	N
CL388S	23	21	67	N	9.5	N	N(.8)	N	N	7.7	N	N
CL389S	52	4.4	46	N(1.6)	N(16)	N(2.4)	N(3.2)	N	N	N	N	N
CL390S	44	74	150	N	16	N	3.1	N	N	N	N	N
CL391S	11	16	22	N	2.3	N	N	N	N	<3.2	N	N
CL392S	19	14	27	N	<2.5	N(.9)	N(1.2)	N	N	N	N	N
CL393S	30	24	58	N(1.6)	N(16)	N(2.4)	N(3.2)	N	N	N	N	N
CL394S	31	16	83	N(1.6)	N(16)	N(2.4)	N(3.2)	N	N	N	N	N
CL401S	31	39	63	N	<5.4	N	N	N	N	N	N	N
CL402S	24	23	50	N	<4.3	N	N	N	N	N	N	N
CL403S	58	51	120	N	26	N	N	N	N	13	N	N
CL404S	22	9	66	N	N	N	N	N	N	N	N	N
CL405S	16	7.9	91	2.6	N	N	N	N	N	N	N	N
CL406S	23	13	66	N	<2.7	N	N	N	N	N	N	N
CL407S	18	14	39	N	7	N	N	N	N	N	N	N
CL408S	23	17	47	N	5.8	N	N	N	N	N	N	N
CL409S	28	32	60	N	<6.5	N	N	N	N	N	N	N
CL410S	30	26	61	N	7.1	N	N	N	N	N	N	N
CL411S	17	11	27	N	1.5	N	N	N	N	N	N	N
CL412S	31	13	47	1.4	4.6	N	N	N	N	N	N	N
CL413S	28	13	41	1.6	6.7	N	N	N	N	<5.4	N	N
CL415S	21	17	39	N	N	N	N	N	N	N	N	N
CL416S	25	21	43	N	<3.4	N	N	N	N	N	N	N
CL417S	20	8.9	50	N	7.8	N	N(.8)	N	N	N	N	N
CL418S	28	17	130	N	3.3	N	2.6	N	N	5.7	N	N
CL419S	8.7	2.9	38	N(.8)	N(8)	N(1.2)	N(1.6)	N	N	N	N	N
CL420S	16	12	52	<.3	4.7	N	N	N	N	<3.8	N	N
CL421S	15	12	28	N	3.8	N	N	N	N	<5.4	N	N
CL422S	30	17	99	N	9.2	N	1.5	N	N	10	N	N
CL423S	10	4.2	67	2.4	N(16)	N(2.4)	N(3.2)	N	N	N	N	N
CL424S	N(8)	N(1.2)	14	N(1.6)	N(16)	N(2.4)	N(3.2)	N(24)	N	N(16)	N(20)	N
CL425S	7.5	1.1	48	N(.8)	N(8)	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL426S	27	11	56	N(1.6)	N(16)	N(2.4)	N(3.2)	N(24)	N	N(16)	N(20)	N

Table 4. Aqua-regia leachate data for minus-80-mesh stream sediments from the Chandler Lake quadrangle, Alaska
[N, not detected; <, detected but below the limit of determination shown.]

Sample	Latitude	Longitude	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-B	ICP-Be
CL567S	68 33 58	152 59 0	6,800	5,300	47,000	20,000	1,100	1,000	N	.52
CL584S	68 26 11	152 42 5	5,000	1,600	32,000	14,000	6.7	550	N	.43
CL585S	68 28 11	152 47 51	1,700	1,200	37,000	8,100	24	510	N	.32
CL586S	68 29 20	152 48 47	1,900	1,200	31,000	8,500	7.9	460	N	.32
CL587S	68 29 56	152 52 45	3,600	1,300	40,000	13,000	4.3	630	N	.43
CL588S	68 33 56	152 51 47	7,900	2,900	45,000	20,000	17	850	N	.42
CL589S	68 35 2	152 54 8	8,900	5,500	44,000	21,000	1,700	760	N	.49
CL590S	68 37 11	152 51 53	11,000	8,900	66,000	27,000	29	2,000	N	.57
CL591S	68 32 54	152 39 38	11,000	4,700	53,000	23,000	820	880	N	.49
CL592S	68 31 40	152 39 55	13,000	3,400	60,000	25,000	520	830	N	.59
CL593S	68 31 58	152 39 45	9,900	3,800	46,000	21,000	220	890	N	.42
CL594S	68 25 34	152 1 18	3,400	5,200	45,000	12,000	6.6	2,300	N	.59
CL595S	68 25 10	152 8 49	7,300	2,000	43,000	19,000	16	820	N	.43
CL596S	68 25 10	152 16 26	10,000	3,100	64,000	26,000	180	900	N	.54
CL597S	68 26 39	152 12 31	12,000	4,000	63,000	24,000	1,100	950	N	.5
CL598S	68 31 12	152 13 49	5,600	2,400	39,000	15,000	300	740	N	.43
CL599S	68 33 35	152 14 32	6,100	2,900	37,000	14,000	540	940	N	.43
CL600S	68 32 34	152 29 3	9,800	9,400	43,000	20,000	230	790	N	.43
CL601S	68 29 31	152 24 32	1,100	230	15,000	4,700	4.2	200	N	.19
CL602S	68 25 52	152 33 2	1,900	550	56,000	14,000	3.4	540	N	.81
CL603S	68 23 12	152 36 17	1,400	490	30,000	6,200	1.7	310	N	.41
CL604S	68 16 37	150 22 48	5,200	1,300	41,000	18,000	2.2	610	N	.76
CL605S	68 17 46	150 25 14	4,300	1,300	38,000	15,000	2.8	620	N	.73
CL606S	68 16 49	150 22 2	4,700	1,400	36,000	17,000	1.3	630	N	.71
CL607S	68 18 31	150 24 39	4,600	1,600	39,000	17,000	1.8	610	N	.71
CL608S	68 18 35	150 26 17	3,100	1,200	32,000	12,000	2.6	540	N	.66
CL609S	68 19 16	150 25 21	4,900	1,400	47,000	19,000	1.5	530	N	.85
CL610S	68 20 8	150 29 2	2,700	1,000	42,000	12,000	7.4	500	N	.81
CL611S	68 20 25	150 28 2	4,100	24,000	38,000	16,000	2.2	500	N	.74
CL612S	68 20 58	150 28 21	2,200	25,000	30,000	8,700	2.4	350	N	.46
CL613S	68 22 2	150 29 59	31,000	280,000	6,000	1,400	N	250	34	N
CL614S	68 23 48	150 31 7	11,000	48,000	39,000	13,000	7.6	460	34	N
CL615S	68 25 20	150 27 22	20,000	92,000	40,000	8,900	5.8	1,500	35	N
CL616S	68 26 16	150 27 25	7,800	2,500	44,000	22,000	2.2	840	N	.56
CL617S	68 24 51	150 24 0	16,000	75,000	32,000	9,000	13	650	35	--
CL618S	68 25 18	150 22 25	9,300	2,500	55,000	24,000	60	920	N	.43
CL619S	68 24 7	150 22 3	9,000	24,000	32,000	7,200	1	380	N	.38
CL620S	68 23 10	150 23 35	20,000	220,000	18,000	5,300	1	280	32	--
CL621S	68 23 2	150 19 54	33,000	260,000	1,100	440	--	170	33	--
CL622S	68 20 3	150 18 56	5,600	26,000	39,000	15,000	5.5	320	33	--
CL623S	68 21 39	150 17 59	7,500	220,000	20,000	7,700	2.8	350	34	--
CL624S	68 19 46	150 18 21	5,900	24,000	42,000	16,000	5.8	360	33	--
CL625S	68 24 10	150 12 29	41,000	230,000	9,600	2,900	.76	260	34	--
CL626S	68 23 10	150 14 55	32,000	250,000	7,400	2,700	.46	280	32	--
CL627S	68 23 26	150 8 52	35,000	210,000	14,000	4,000	.86	290	30	--
CL628S	68 24 49	150 5 53	30,000	79,000	51,000	7,200	2.2	460	35	--
CL629S	68 27 53	150 12 22	11,000	2,800	56,000	25,000	42	1,000	N	.44
CL630S	68 17 14	150 36 35	5,400	1,600	40,000	19,000	2	700	N	.78
CL631S	68 20 49	150 36 26	11,000	34,000	37,000	6,700	5.2	260	39	--
CL632S	69 18 9	150 36 23	1,200	480	26,000	5,800	5.3	330	N	.69
CL633S	68 18 29	150 39 35	4,700	1,700	46,000	18,000	1.5	620	N	.89
CL634S	68 9 30	150 46 29	31,000	220,000	8,500	3,200	--	280	38	--
CL635S	68 8 44	150 45 54	53,000	220,000	6,700	2,900	--	160	34	--
CL636S	68 11 10	150 41 21	24,000	150,000	26,000	7,700	.99	230	33	--
CL637S	68 9 13	150 45 16	35,000	370,000	530	290	--	87	42	--
CL638S	68 13 46	150 43 2	1,200	940	30,000	4,800	2.9	480	N	.49
CL639S	68 12 9	150 45 21	5,900	28,000	68,000	9,300	2.5	410	36	--
CL640S	68 15 46	150 37 14	5,100	1,400	38,000	17,000	6.6	640	N	.81
CL641S	68 14 7	150 38 53	2,300	1,200	39,000	8,500	10	620	N	.77
CL642S	68 23 23	150 42 38	12,000	290,000	6,300	1,500	.74	250	40	--

Table 4. Aqua-regia leachate data for minus-80-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

Sample	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
CL567S	38	380	8.4	15	1.9	15	1,300	86	N	18
CL584S	15	250	3.9	8.4	.79	7.8	1,400	35	N	15
CL585S	7.2	310	<2.3	4.1	N	5.3	3,800	26	N	30
CL586S	6.6	220	<1.8	2.8	N	4.8	1,300	23	N	15
CL587S	7.1	150	2.6	4.9	N	6.5	1,400	29	N	16
CL588S	23	62	4.7	11	3	12	3,000	56	N	22
CL589S	15	410	9.3	18	3	17	1,000	92	N(6.4)	20
CL590S	53	290	6.2	13	1.3	15	2,800	66	N	21
CL591S	18	660	7.5	16	1.8	16	1,100	84	N	20
CL592S	23	150	9.4	21	N	15	2,400	75	N	27
CL593S	19	320	7.4	17	2.7	15	1,200	78	N	20
CL594S	23	350	6	7.7	6.5	7.6	1,100	38	N	13
CL595S	12	440	4.8	10	N	11	870	50	N	14
CL596S	17	200	7.3	14	N	15	1,500	76	N	24
CL597S	16	550	11	21	N	20	1,600	110	N	30
CL598S	10	330	4.7	10	.68	11	2,500	58	N	21
CL599S	14	300	5.4	13	2.6	12	2,100	67	N	22
CL600S	24	180	6	13	2.5	13	910	67	N	16
CL601S	3.3	62	N	N	N	N	250	16	N	3.3
CL602S	6.1	160	2.7	7	N	N	3,900	34	N	20
CL603S	5	82	1.1	N	N	N	1,400	20	N	10
CL604S	11	150	<2.5	4.4	.89	7.6	570	27	N	15
CL605S	11	140	2.8	5.3	1.9	7	580	25	N	13
CL606S	11	120	<2.4	4.4	2.4	7.1	550	25	N	14
CL607S	12	110	2.7	4.8	2.2	7.3	560	25	N	15
CL608S	9.8	110	2.5	5.3	2.1	6.1	480	23	N	12
CL609S	15	110	<2.3	2.7	N	8.1	680	28	N	16
CL610S	8.6	180	<2.1	3.5	N	7.4	590	34	N	13
CL611S	25	140	3.2	2.9	1.7	7.1	480	25	N	14
CL612S	59	120	10	4.3	4.1	4.9	160	17	N	10
CL613S	120	73	N	--	N	N	N	5	6.1	4
CL614S	33	120	2.8	--	N	N	650	24	22	11
CL615S	94	930	3.2	--	N	N	630	32	21	13
CL616S	18	180	2.9	6.2	1.3	12	2,100	48	<17	20
CL617S	66	1,100	2.2	--	--	--	510	29	20	11
CL618S	29	270	6.2	13	N	15	1,500	72	N	18
CL619S	38	90	<2.3	N	1.7	6.7	200	20	N	6.3
CL620S	100	800	--	--	--	--	110	12	14	6
CL621S	150	16	--	--	--	--	--	4.7	6.7	2.6
CL622S	24	97	2.8	--	--	--	520	24	24	13
CL623S	100	730	--	--	--	--	160	15	16	6.8
CL624S	25	98	2.9	--	--	--	570	25	25	13
CL625S	130	39	--	--	--	--	120	7.9	9.5	5.4
CL626S	130	37	--	--	--	--	60	7.1	9.6	4.9
CL627S	130	180	--	--	--	--	130	9.6	17	6.4
CL628S	60	1,080	2	--	--	--	370	22	19	12
CL629S	18	280	6.6	16	N	16	1,700	76	N	22
CL630S	11	130	2.7	5	2.2	8	610	29	N	14
CL631S	33	150	2.3	--	--	--	570	23	18	11
CL632S	5.6	240	<1	<1.3	N	5.2	460	27	N	9.3
CL633S	14	160	<2.4	3.5	.66	7.8	710	29	N	16
CL634S	150	190	--	--	--	--	80	9.6	11	5
CL635S	120	31	--	--	--	--	49	11	9.9	4
CL636S	150	58	--	--	--	--	270	17	17	8.8
CL637S	230	9.5	--	--	--	--	--	5.8	3.9	2.7
CL638S	6.2	120	<1.8	3.7	1.3	4	590	20	N	9.7
CL639S	43	120	3.1	--	--	--	750	35	22	18
CL640S	11	180	3	5.5	2.1	7.5	530	27	N	14
CL641S	8.6	130	2.7	6.1	2	5.7	820	25	N	15
CL642S	130	40	--	--	--	--	18	7.9	6.4	3.8

Table 4. Aqua-regia leachate data for minus-80-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

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
CL567S	34	29	81	N	<9.7	N	<.62	N	N	N	N	N
CL584S	38	24	75	N	12	N	<.64	N	N	N	N	N
CL585S	21	5.3	68	N	8.1	N	N	N	N	N	N	N
CL586S	19	7.2	57	N	10	N	N	N	N	N	N	N
CL587S	38	17	94	N	12	N	N	N	N	N	N	N
CL588S	62	51	140	N	<14	N	<.99	N	N	N	N	N
CL589S	38	30	71	N	<10	N	<.83	N	N	N	N	N
CL590S	48	31	82	N	<14	N	N	N	N	N	N	N
CL591S	45	36	84	N	<11	N	N	N	N	N	N	N
CL592S	58	39	110	N	<14	N	N	N	N	N	N	N
CL593S	45	39	87	N	<10	N	<.45	N	N	N	N	N
CL594S	41	25	110	N	14	N	<.94	N	N	N	N	N
CL595S	45	17	87	N	<11	N	<.61	N	N	N	N	N
CL596S	51	43	120	N	<13	N	N	N	N	N	N	N
CL597S	40	36	98	N	<10	N	<.59	N	N	N	N	N
CL598S	36	17	79	N	<9.9	N	<.43	N	N	N	N	N
CL599S	40	27	98	N	<10	N	1.8	N	N	N	N	N
CL600S	39	37	86	N	<11	N	N	N	N	N	N	N
CL601S	10	3.3	27	N	6.1	N	N	N	N	N	N	N
CL602S	31	14	77	N	14	N	N	N	N	N	N	N
CL603S	20	9.5	54	N	7.7	N	N	N	N	N	N	N
CL604S	35	26	78	N	19	N	N	N	N	N	N	N
CL605S	34	25	75	N	17	N	N	N	N	N	N	N
CL606S	34	26	73	N	19	N	N	N	N	N	N	N
CL607S	36	30	75	N	17	N	N	N	N	N	N	N
CL608S	31	23	57	N	15	N	N	N	N	N	N	N
CL609S	38	35	89	N	22	N	N	N	N	N	N	N
CL610S	35	27	69	N	13	N	N	N	N	N	N	N
CL611S	34	35	80	N	16	N	N	N	N	N	N	N
CL612S	27	25	100	N	12	<.26	1.4	N	N	N(6.1)	N	N
CL613S	9.4	5.8	N	N	N	N	N	N	N	N	N	N
CL614S	30	25	N	N	N	N	N	N	N	N	N	N
CL615S	43	32	N	N	N	N	3.9	N	N	13	N	N
CL616S	64	34	110	N	16	N	N	N	N	N	N	N
CL617S	39	35	--	--	--	--	3.6	--	--	10	--	--
CL618S	47	47	110	N	<12	N	<.56	N	N	N	N	N
CL619S	31	28	120	N	9.7	N	2.3	N	N	N	N	N
CL620S	18	18	--	--	--	--	--	--	--	--	--	--
CL621S	4.6	1.9	--	--	--	--	--	--	--	--	--	--
CL622S	33	34	--	--	--	--	--	--	--	6.6	--	--
CL623S	20	18	--	--	--	--	--	--	--	--	--	--
CL624S	35	37	--	--	--	--	--	--	--	6.4	--	--
CL625S	13	6.1	--	--	--	--	--	--	--	--	--	--
CL626S	11	5.2	--	--	--	--	--	--	--	--	--	--
CL627S	17	10	--	--	--	--	--	--	--	--	--	--
CL628S	44	30	--	--	11	--	1.9	--	--	10	--	--
CL629S	52	42	120	N	<13	N	N	N	N	N	N	N
CL630S	37	28	81	N	18	N	N	N	N	N	N	N
CL631S	30	24	--	--	--	--	--	--	--	7.8	--	--
CL632S	24	23	46	N	8.6	N	N	N	N	N	N	N
CL633S	39	37	87	N	19	N	N	N	N	N	N	N
CL634S	16	8.5	--	--	--	--	--	--	--	--	--	--
CL635S	11	6.7	--	--	--	--	--	--	--	--	--	--
CL636S	25	19	--	--	--	--	--	--	--	--	--	--
CL637S	5.4	1.8	--	--	--	--	--	--	--	--	--	--
CL638S	24	20	46	N	8.4	N	N	N	N	N	N	N
CL639S	42	45	--	--	12	--	--	--	--	8.2	--	--
CL640S	36	31	77	N	17	N	N	N	N	N	N	N
CL641S	33	30	73	N	14	N	N	N	N	N	N	N
CL642S	6.1	6.1	--	--	--	--	--	--	--	--	--	--

Table 4. Aqua-regia leachate data for minus-80-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

Sample	Latitude	Longitude	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-B	ICP-Be
CL643S	68 21 19	150 43 28	12,000	67,000	30,000	9,600	15	380	N	.59
CL644S	68 18 50	150 16 7	4,800	2,000	40,000	18,000	1.7	600	N	.83
CL645S	68 21 37	150 47 26	2,100	24,000	15,000	3,500	3.8	500	N	.26
CL646S	68 18 46	150 12 5	3,800	2,000	38,000	14,000	3.8	600	N	.81
CL647S	68 18 14	150 15 23	4,800	2,100	36,000	18,000	3.3	530	N	.79
CL648S	68 19 0	150 7 16	6,100	29,000	37,000	11,000	4.7	440	N	.7
CL649S	68 18 0	150 13 40	4,400	1,400	35,000	16,000	4.8	550	N	.77
CL650S	68 18 55	150 7 0	5,500	20,000	31,000	14,000	1.5	480	N	.67
CL651S	68 19 47	150 11 21	21,000	340,000	7,000	2,200	18	490	N	.19
CL652S	68 19 24	150 5 9	12,000	140,000	49,000	15,000	12	570	N	.91
CL653S	68 19 19	150 9 14	7,600	26,000	35,000	7,300	12	500	N	.72
CL654S	68 21 36	150 1 37	45,000	310,000	18,000	2,500	16	430	N	.25
CL655S	68 20 25	150 7 55	95,000	360,000	2,500	1,200	22	720	N	.13
CL656S	68 19 52	150 3 11	18,000	140,000	26,000	7,700	7.1	400	N	.51
CL657S	68 19 29	150 51 11	15,000	53,000	56,000	23,000	9.2	750	N	1.3
CL658S	68 22 13	150 52 1	24,000	96,000	35,000	4,100	8.8	410	N	.45
CL659S	68 17 43	150 48 35	2,100	890	35,000	8,900	3.6	520	N	.74
CL660S	68 19 16	150 49 10	11,000	200,000	12,000	4,800	8.6	250	N	.28
CL661S	68 12 15	150 31 40	1,800	860	49,000	6,800	3.9	500	N	.92
CL662S	68 12 6	150 28 6	1,800	1,300	47,000	5,500	4.6	510	N	.73
CL663S	68 12 42	150 32 9	2,500	1,100	46,000	7,200	1	610	N	.81
CL664S	68 14 23	150 24 5	4,200	1,300	38,000	16,000	2.8	550	N	.71
CL665S	68 13 8	150 27 14	2,000	940	49,000	7,100	.87	510	N	.6
CL666S	68 14 21	150 24 42	4,300	1,200	42,000	17,000	1.6	520	N	.75
CL667S	68 12 58	150 22 5	2,300	970	42,000	7,400	.75	510	N	.59
CL668S	68 12 30	150 18 14	3,900	1,100	43,000	13,000	1.3	520	N	.67
CL669S	68 13 53	150 16 36	3,800	1,200	38,000	14,000	2.3	590	N	.63
CL670S	68 12 40	150 19 4	2,900	1,100	48,000	9,900	1.1	520	N	.6
CL671S	68 12 30	150 17 4	3,400	1,100	40,000	12,000	1.4	510	N	.65
CL672S	68 13 52	150 11 6	2,800	1,000	36,000	11,000	1.7	540	N	.6
CL673S	68 14 22	150 6 57	1,600	860	34,000	5,900	3.7	480	N	.55
CL674S	68 9 24	150 19 15	1,600	980	34,000	5,700	8.8	450	N	.64
CL675S	68 10 34	150 14 57	1,100	1,200	52,000	3,500	4.5	540	N	.81
CL676S	68 9 8	150 25 19	2,500	1,300	44,000	9,900	3.9	500	N	.78
CL677S	68 9 0	150 22 41	8,600	31,000	32,000	8,300	1.8	280	N	.65
CL678S	68 10 22	150 32 18	1,600	1,300	57,000	10,000	1.9	490	N	.93
CL679S	68 9 59	150 28 6	2,400	820	28,000	7,800	9.6	430	N	.54
CL680S	68 8 39	150 32 59	9,300	36,000	46,000	11,000	6.8	410	N	.97
CL681S	68 9 22	150 32 18	6,100	350,000	2,000	1,000	18	180	N	.1
CL682S	68 6 54	150 36 38	1,100	710	31,000	5,400	3.9	540	N	.69
CL683S	68 7 21	150 32 15	1,600	790	35,000	6,400	10	360	N	.71
CL684S	68 5 38	150 43 13	2,800	6,800	6,700	3,100	.84	130	N	.18
CL685S	68 7 34	150 40 37	10,000	21,000	43,000	15,000	4.3	500	N	.85
CL686S	68 5 15	150 47 22	2,700	7,700	2,800	1,100	.91	69	N	.068
CL687S	68 5 31	150 42 2	4,000	10,000	49,000	20,000	3.4	580	N	1.1
CL688S	68 4 54	150 51 41	12,000	21,000	9,500	3,900	4.7	370	N	.27
CL689S	68 4 35	150 43 41	3,600	1,100	46,000	16,000	5.2	550	N	1
CL690S	68 3 24	150 49 41	1,500	800	42,000	7,000	4.7	650	N	.82
CL691S	68 5 31	150 53 9	10,000	21,000	24,000	4,700	2.2	660	N	.55
CL692S	68 0 28	150 46 45	1,800	990	42,000	8,500	2.6	680	N	.81
CL693S	68 4 7	150 50 24	12,000	60,000	36,000	12,000	1.4	120	N	.81
CL694S	68 4 30	150 33 37	1,600	940	26,000	7,000	2.5	550	N	.6
CL695S	68 1 31	150 47 11	2,000	1,000	30,000	6,600	3.1	590	N	.64
CL696S	68 3 24	150 41 10	2,500	890	34,000	8,200	8.2	480	N	.73
CL697S	68 0 23	150 50 48	3,000	1,300	51,000	12,000	1.7	640	N	.93
CL698S	68 2 18	150 31 15	3,500	1,500	47,000	14,000	1.8	750	N	.77
CL699S	68 4 45	150 33 32	2,400	1,100	37,000	8,900	6.1	540	N	.75
CL700S	68 3 18	150 31 3	2,500	1,000	31,000	9,800	3.2	530	N	.57
CL701S	68 4 17	150 37 23	600	610	23,000	2,700	2.1	560	N	.45
CL702S	68 3 9	151 19 30	1,500	900	47,000	6,000	16	710	N	.77

Table 4. Aqua-regia leachate data for minus-80-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

Sample	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
CL643S	48	110	N(4)	N(3.6)	2.8	N(4)	440	18	N(4)	N(8)
CL644S	15	160	<2.4	4	2.2	7.6	610	28	N	15
CL645S	92	110	17	8.5	7.7	4.1	140	14	N	12
CL646S	11	92	2.6	4.6	2	6.3	670	23	N	14
CL647S	16	110	3.5	6.4	2.3	7.2	650	25	N	14
CL648S	28	55	N(4)	N(3.6)	1.5	N(4)	510	21	N(4)	N(8)
CL649S	12	100	<2.3	4.7	1.9	6.7	780	24	N	15
CL650S	27	75	2.8	3	2.5	6.4	470	21	N	11
CL651S	220	34	10	N(3.6)	12	N(4)	130	7.7	N(4)	N(8)
CL652S	130	89	N(4)	N(3.6)	4.4	N(4)	700	26	N(4)	N(8)
CL653S	26	57	N(4)	N(3.6)	2.8	N(4)	540	18	N(4)	N(8)
CL654S	200	380	7.7	N(3.6)	8	6.9	200	10	N(4)	N(8)
CL655S	190	15	16	N(3.6)	17	14	57	8.9	7	N(8)
CL656S	96	42	N(4)	N(3.6)	4.1	N(4)	410	17	N(4)	N(8)
CL657S	32	160	5.6	N(3.6)	7.7	N(4)	890	44	<23	N(8)
CL658S	72	82	N(4)	N(3.6)	3.3	N(4)	570	19	N(4)	N(8)
CL659S	6.9	220	2.6	5	1.8	6.1	690	25	N	14
CL660S	91	37	N(4)	N(3.6)	4.9	N(4)	200	10	N(4)	N(8)
CL661S	8.4	100	<2.4	4.1	.21	6.3	630	29	N	16
CL662S	9.5	120	2.7	4.5	1.2	5.5	580	25	N	15
CL663S	9.1	160	2.7	5	.13	5.4	640	21	N	16
CL664S	11	130	<2.4	4	1.1	7.4	580	25	N	14
CL665S	7.6	120	<2.2	3.3	N	5.6	690	23	N	15
CL666S	10	120	<2.2	2.9	N	7.8	590	26	N	15
CL667S	8.3	68	<2.4	3.8	N	5.4	590	20	N	15
CL668S	12	67	<2.3	3.1	N	6.9	550	22	N	16
CL669S	9.7	96	2.5	4.6	1.4	6.9	650	23	N	13
CL670S	9.3	67	<2.3	3.1	N	6.1	650	21	N	15
CL671S	12	60	<2.3	3.1	N	6.2	540	21	N	15
CL672S	8.2	100	<2.4	4.4	1.4	5.7	660	19	N	12
CL673S	6.8	90	<2.3	4.7	1.1	4	690	15	N	12
CL674S	6.2	96	<2	3.9	1.3	5.4	550	25	N	12
CL675S	8.8	90	<2.5	4	.12	4.9	820	22	N	18
CL676S	10	110	<2.1	3.1	.16	6.3	610	25	N	15
CL677S	52	78	N(4)	N(3.6)	.86	N(4)	440	19	<13	N(8)
CL678S	12	140	<2	<1.7	N	7.2	760	32	N	18
CL679S	7.4	95	<2	4	1.2	6.4	300	26	N	11
CL680S	42	120	N(4)	N(3.6)	2.1	N(4)	720	32	N(4)	N(8)
CL681S	540	22	8.3	N(3.6)	6.4	N(4)	49	10	5.1	N(8)
CL682S	8	180	<2.1	4.2	2.3	3.8	900	16	N	13
CL683S	6.7	130	<1.5	2.5	N	5.7	490	25	N	13
CL684S	31	26	<2.2	<1.7	1.4	2.4	100	5.6	4.7	<3.6
CL685S	58	140	4.5	3.2	1.8	8.9	530	27	N	17
CL686S	30	7.8	2.9	<1.4	.96	1.7	37	3	<1.4	N
CL687S	34	210	2.9	2.6	1.3	8.6	740	32	N(6.3)	19
CL688S	160	31	18	9.7	6.3	9.6	160	13	<5.5	11
CL689S	11	140	<1.9	2.3	N	8.1	640	33	N(4.4)	18
CL690S	9.2	160	<1.6	2.6	N	5	760	23	N	16
CL691S	58	74	7.5	5.1	5	6.8	470	19	N	13
CL692S	12	99	<1.4	<1.4	.37	4.8	810	19	N	16
CL693S	71	92	N	N	7.5	N	440	24	22	12
CL694S	7.6	100	<1.6	2.9	1.5	4.4	480	20	N(2.9)	10
CL695S	6.9	71	<2.1	4.2	1.3	4.8	500	21	N	13
CL696S	7.1	130	<1.9	4	<.088	6	530	26	N	14
CL697S	19	82	<1.8	<1.7	N	6.8	570	28	N	18
CL698S	16	77	<2.3	2.8	N	6.4	670	24	N	18
CL699S	7.5	120	<2.3	3.9	.6	5.4	730	25	N	13
CL700S	8.9	92	<1.7	2.7	.73	5	540	21	N	12
CL701S	5.8	89	<1.4	2.6	1.4	2.3	660	11	N	6.9
CL702S	12	140	<1.9	3.6	.4	4.9	1,000	23	N	16

Table 4. Aqua-regia leachate data for minus-80-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

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
CL643S	26	19	71	N(.8)	11	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL644S	38	36	93	N	17	N	N	N	N	N	--	N
CL645S	25	25	90	N	9.9	<.47	6.9	N	N	30	--	<9.6
CL646S	33	32	75	N	17	N	N	N	N	N	--	N
CL647S	35	33	82	N	20	N	N	N	N	N	--	N
CL648S	29	26	77	N(.8)	17	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL649S	33	30	77	N	17	N	N	N	N	N	--	N
CL650S	28	28	64	N	13	N	N	N	N	N	--	N
CL651S	9.5	3.5	64	2	N(8)	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL652S	40	30	120	N(.8)	24	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL653S	30	24	69	N(.8)	15	N(1.2)	N(1.6)	N(12)	N	14	N(10)	N
CL654S	15	7.2	76	1.3	N(8)	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL655S	7.6	1.5	64	1.6	N(8)	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL656S	22	17	67	N(.8)	15	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL657S	58	46	130	N(.8)	33	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL658S	19	14	64	N(.8)	N(8)	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL659S	33	23	68	N	12	N	N	N	N	N	--	N
CL660S	10	8.4	44	N(.8)	N(8)	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL661S	35	34	76	N	11	N	N	N	N	N	--	N
CL662S	32	35	68	N	12	N	N	N	N	N	--	N
CL663S	35	35	72	N	12	N	N	N	N	N	--	N
CL664S	32	26	71	N	18	N	N	N	N	N	--	N
CL665S	27	23	79	N	17	N	N	N	N	N	--	N
CL666S	33	27	73	N	17	N	N	N	N	N	--	N
CL667S	28	25	71	N	14	N	N	N	N	N	--	N
CL668S	33	27	74	N	16	N	N	N	N	N	--	N
CL669S	30	22	64	N	16	N	N	N	N	N	--	N
CL670S	30	25	75	N	15	N	N	N	N	N	--	N
CL671S	32	24	67	N	15	N	N	N	N	N	--	N
CL672S	27	20	58	N	15	N	N	N	N	N	--	N
CL673S	24	18	52	N	12	N	N	N	N	N	--	N
CL674S	26	26	49	N	9.3	N	N	N	N	N	--	N
CL675S	34	32	76	N	12	N	N	N	N	N	--	N
CL676S	33	30	80	N	17	N	N	N	N	N	--	N
CL677S	27	20	86	N(.8)	15	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL678S	37	39	120	N	16	N	N	N	N	N	--	N
CL679S	25	19	45	N	9.8	N	N	N	N	N	--	N
CL680S	41	32	120	N(.8)	14	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL681S	9.3	N	47	2.2	N(8)	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL682S	27	20	56	N	15	N	N	N	N	<11	--	N
CL683S	30	27	61	N	13	N	N	N	N	N	--	N
CL684S	9.2	6.2	26	N	7.9	N	N	N	N	<9.7	N	N
CL685S	41	32	100	N	21	N	N	N	N	N	N	N
CL686S	4.7	2	14	N	<3.3	N	<.43	N	N	11	N	N
CL687S	49	37	120	N	26	N	N	N	N	N	N	N
CL688S	22	7.8	61	N	9.8	<.34	3.9	N	N	34	<5.6	<11
CL689S	45	35	100	N	25	N	N	N	N	N	N	N
CL690S	35	38	87	N	20	N	N	N	N	N(7.8)	N	N
CL691S	31	20	85	N	13	N	1.2	N	N	<21	N	N
CL692S	39	34	80	N	18	N	N	N	N	N	N	N
CL693S	37	25	110	N	<15	N	N	N	N	13	N	N
CL694S	25	18	58	N	15	N	N	N	N	N(6.7)	N	N
CL695S	30	25	44	N	11	N	N	N	N	N(5.5)	N	N
CL696S	31	29	54	N	18	N	N	N	N	N	N	N
CL697S	40	51	110	N	25	N	N	N	N	N	N	N
CL698S	40	34	86	N	20	N	N	N	N	N	N	N
CL699S	31	26	53	N	11	N	N	N	N	N	N	N
CL700S	27	16	54	N	14	N	N	N	N	N	N	N
CL701S	17	18	60	N	13	N	N	N	N	14	N	N
CL702S	33	27	81	N	13	N	N	N	N	N(5.4)	N	N

Table 4. Aqua-regia leachate data for minus-80-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

Sample	Latitude	Longitude	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-B	ICP-Be
CL703S	68 0 17	150 31 6	5,900	1,900	55,000	22,000	2.1	760	N	.57
CL704S	68 5 56	151 19 38	1,800	1,100	34,000	7,100	1.6	590	N	.5
CL705S	68 2 50	150 31 35	3,200	1,200	43,000	12,000	3.2	630	N	.73
CL706S	68 7 23	151 19 17	5,200	240,000	15,000	5,200	.96	700	39	N
CL707S	68 10 27	151 19 5	3,600	1,300	42,000	15,000	2.1	650	N	.68
CL708S	68 12 42	151 24 32	18,000	290,000	6,400	2,500	N	160	41	N
CL709S	68 1 54	151 18 52	2,500	960	29,000	9,200	3.1	580	N	.8
CL710S	68 12 52	151 24 19	840	20,000	51,000	3,800	2	390	N	.81
CL711S	68 4 32	151 17 58	1,600	1,300	29,000	5,800	2	600	N	.49
CL712S	68 10 50	151 29 1	39,000	210,000	560	340	3.2	190	50	N
CL713S	68 5 35	151 23 39	3,700	2,000	37,000	13,000	6.6	690	N	.67
CL714S	68 10 45	151 28 34	8,200	250,000	1,200	470	3.5	780	45	N
CL715S	68 5 39	151 22 36	4,400	1,800	47,000	16,000	1.6	690	N	.67
CL716S	68 9 40	151 21 0	2,000	210,000	3,900	1,400	5.5	670	43	N
CL717S	68 11 13	151 26 36	54,000	250,000	510	350	1.5	130	46	N
CL718S	68 9 54	151 21 0	3,100	290,000	850	510	1.3	190	52	N
CL719S	68 3 17	151 27 25	1,100	910	41,000	4,900	2.3	690	N	.68
CL720S	68 3 28	151 32 46	600	560	36,000	3,400	1.6	580	N	.72
CL721S	68 2 57	151 27 13	640	780	24,000	2,800	1	540	N	.47
CL722S	68 3 7	151 32 33	780	590	55,000	5,200	1.2	720	N	1.2
CL723S	68 0 59	151 40 29	4,200	15,000	43,000	8,400	5.4	880	N	.74
CL724S	68 23 15	151 49 34	4,400	3,100	33,000	12,000	23	1,300	N	.38
CL725S	68 27 19	151 44 43	4,500	1,600	45,000	14,000	21	720	N	.37
CL726S	68 26 39	151 2 41	2,200	1,900	20,000	5,100	5.4	450	N	.3
CL727S	68 1 44	151 4 29	1,300	1,100	42,000	4,200	.91	680	N	.72
CL728S	68 1 56	151 1 51	1,300	890	32,000	6,100	3.8	590	N	.68
CL729S	68 3 12	150 58 40	1,700	960	28,000	6,300	3.2	580	N	.51
CL730S	68 3 2	150 53 31	5,300	1,400	56,000	20,000	1.5	700	N	.73
CL751S	68 0 32	151 46 55	4,700	6,300	47,000	7,900	N	N	N	1.1
CL752S	68 0 45	151 47 22	8,600	32,000	46,000	8,000	N	N	N	.73
CL753S	68 3 35	152 45 0	2,100	6,300	35,000	6,400	N	N	N	.55
CL754S	68 3 50	152 45 5	2,600	2,000	39,000	8,000	N	N	N	1
CL756S	68 4 31	151 40 20	2,400	2,700	37,000	2,600	N	N	N	.55
CL757S	68 4 40	151 41 0	3,400	4,300	34,000	5,700	N	N	N	.65
CL758S	68 5 19	151 40 55	2,500	2,000	31,000	6,200	N	N	N	.6
CL759S	68 3 10	150 57 18	3,600	2,200	35,000	8,700	N	N	N	.81
CL788S	68 26 10	150 58 30	11,000	2,400	32,000	13,000	120	390	N	N
CL789S	68 26 0	150 56 0	8,900	29,000	27,000	6,900	3.3	830	N	N(.04)
CL790S	68 26 0	150 54 30	13,000	100,000	26,000	8,100	8.7	560	27	--
CL791S	68 29 10	150 55 30	9,000	2,000	30,000	12,000	6.5	410	N	N
CL792S	68 29 10	151 2 30	4,700	23,000	23,000	9,400	15	480	N	N(.04)
CL793S	68 30 28	151 0 30	7,400	10,000	64,000	12,000	1,300	410	68	--
CL794S	68 30 30	150 53 0	10,000	3,900	37,000	14,000	6.4	580	N	N
CL795S	68 31 15	150 52 0	1,700	1,800	14,000	3,900	19	280	N	N
CL796S	68 33 30	150 49 0	3,700	3,700	36,000	7,700	69	440	N	N
CL797S	68 33 40	150 58 35	2,400	1,700	26,000	8,000	36	220	N	N
CL798S	68 32 45	150 58 57	9,300	3,000	39,000	16,000	130	440	N	N
CL799S	68 31 50	150 58 20	8,200	4,700	35,000	13,000	620	410	N	N
CL800S	68 33 0	151 4 0	3,000	7,500	38,000	6,100	21	360	29	--
CL801S	68 35 45	151 10 0	2,000	4,800	26,000	4,900	9.5	440	N	N
CL802S	68 37 13	151 5 30	2,700	810	18,000	6,900	1.3	220	N	.57
CL803S	68 39 28	151 9 0	2,300	740	16,000	5,700	1.1	180	N	.16
CL804S	68 41 58	151 7 30	1,200	2,200	44,000	5,400	8.6	290	N	N
CL805S	68 41 45	151 3 55	3,000	980	28,000	7,500	9.3	330	N	N
CL806S	68 39 28	151 0 0	1,900	850	46,000	5,400	1.1	320	N	N
CL807S	68 38 30	150 58 45	2,800	740	24,000	6,300	2.2	230	N	.049
CL808S	68 37 5	150 56 0	4,600	1,000	27,000	9,600	2.1	270	N	N
CL809S	68 45 38	151 56 40	3,200	870	21,000	6,400	1.7	240	N	.53
CL810S	68 45 0	151 48 45	4,000	950	23,000	8,100	2.1	260	N	.15
CL811S	68 47 25	151 51 30	3,300	1,200	25,000	7,300	2.1	350	N	N

Table 4. Aqua-regia leachate data for minus-80-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

Sample	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
CL703S	23	64	<2.1	N	N	8.2	650	27	N	19
CL704S	9.5	82	<2	3.7	1	4.5	510	20	N	12
CL705S	13	98	<2	2.8	N	6.1	730	24	N	16
CL706S	120	430	<1.4	--	N	N	190	19	18	6.5
CL707S	14	91	<1.9	2.8	N	5.7	620	25	N	16
CL708S	340	27	N	--	N	N	21	10	8.3	4.3
CL709S	25	110	<2.1	4.2	3	4.4	270	16	N	15
CL710S	44	140	2.7	<1.6	N	4	680	21	N	15
CL711S	10	97	<2.3	4.6	2.2	4	430	19	N	11
CL712S	130	11	N	--	N	N	N	4.5	7.1	N
CL713S	17	130	3.1	5.4	1.6	6.5	450	26	N	16
CL714S	160	14	3.6	--	N	N	N	17	23	2.1
CL715S	20	110	2.5	3.2	N	7.7	610	29	N	17
CL716S	100	92	<1.8	--	N	N	71	14	11	3.2
CL717S	140	9.7	N	--	N	N	N	4.7	5.5	2.1
CL718S	220	9.2	N	--	N	N	N	4.1	4	2.3
CL719S	10	96	<2	4.3	.81	3.7	840	18	N	14
CL720S	5.3	85	<1.4	3	.63	3.1	970	16	N	13
CL721S	9.6	99	<1.7	3.4	1.8	2.5	430	13	N	9.7
CL722S	9.6	110	<2	3.7	N	4.2	1,200	21	N	20
CL723S	34	88	7.2	12	.94	5.9	620	22	N(4.4)	19
CL724S	13	510	5	7.8	3.2	8.9	1,300	43	N	13
CL725S	14	370	7.3	14	N	9.3	2,600	44	N	20
CL726S	6.7	96	2.5	4.1	1.9	4.1	510	18	N	6.6
CL727S	12	92	<2.5	5.1	1.8	3.8	930	18	N	19
CL728S	10	110	<1.8	4.2	2.4	4	850	18	N	16
CL729S	10	76	<2.1	4.3	3.4	4	580	17	N	11
CL730S	20	72	<2.1	<1.1	N	8.3	600	31	N	18
CL751S	N	82	6.9	6.8	14	N	630	N	20	25
CL752S	N	220	12	12	15	N	460	N	24	22
CL753S	N	670	11	10	22	N	310	N	15	14
CL754S	N	300	2.6	N	8.7	N	890	N	15	21
CL756S	N	45	2.2	N	5.9	N	450	N	9.8	12
CL757S	N	54	2.6	N	7.3	N	640	N	14	12
CL758S	N	46	1.8	N	5	N	410	N	13	12
CL759S	N	72	2.6	N	6.6	N	510	N	17	15
CL788S	7.3	90	4.1	6.5	N	N	460	41	42	7.9
CL789S	39	70	N(4)	N(3.6)	5.5	N(4)	580	25	28	N(8)
CL790S	65	400	1.9	--	--	--	450	22	17	8.8
CL791S	6.3	98	2.6	4.1	N	N	570	35	39	7.6
CL792S	21	250	4.3	4.6	3.7	N(4)	890	27	34	N(8)
CL793S	18	830	6.3	10	--	--	9,600	71	29	33
CL794S	10	170	3.8	6.5	1.9	N	950	45	40	9.7
CL795S	4.9	93	1.4	1.2	.55	N	1,300	13	15	4.9
CL796S	8.5	260	3.5	5.2	.44	N	4,500	31	26	22
CL797S	5	220	1.4	N	.22	N	1,800	26	22	6.2
CL798S	7.6	270	4	6.5	.3	N	440	65	41	7.9
CL799S	9.3	270	4.2	5.9	1.6	N	1,800	<61	34	8.1
CL800S	14	420	3.1	4.6	--	--	7,800	23	19	20
CL801S	9.6	170	3.3	3.3	1.8	N	1,800	19	21	8
CL802S	4.3	55	2.6	4.1	N	N	180	17	23	7.9
CL803S	3.7	54	2.2	3.6	N	N	180	15	21	8.4
CL804S	7.8	160	3.4	3	.4	N	1,500	20	<25	25
CL805S	4.6	77	2	1.2	N	N	240	23	26	5.6
CL806S	5.8	94	2.5	2.3	N	N	350	24	<21	8.4
CL807S	7.7	92	2.1	2.6	N	N	330	19	24	9.5
CL808S	5.4	46	2.2	2.6	N	N	1,100	21	28	13
CL809S	5.3	86	2.4	3.5	N	N	360	16	23	8.1
CL810S	5.2	65	2.6	3.7	N	N	250	18	26	8
CL811S	8.7	120	4.6	8	N	N	430	18	23	9

Table 4. Aqua-regia leachate data for minus-80-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

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
CL703S	50	40	99	N	23	N	N	N	N	N	N	N
CL704S	26	21	51	N	12	N	N	N	N	N	N	N
CL705S	36	27	79	N	19	N	N	N	N	N	N	N
CL706S	23	14	N	N	N	N	N	N	N	N	N	N
CL707S	37	27	79	N	21	N	N	N	N	N	N	N
CL708S	12	5.7	N	N	N	N	N	N	N	N	N	N
CL709S	32	25	39	N	12	N	N	N	N	N	N	N
CL710S	32	32	130	N	11	N	N	N	N	N(5.3)	N	N
CL711S	24	18	33	N	10	N	N	N	N	N	N	N
CL712S	5.3	3.3	N	N	N	N	N	N	N	N	N	N
CL713S	34	30	65	N	18	N	N	N	N	N	N	N
CL714S	22	11	N	N	N	N	N	N	N	N	N	N
CL715S	42	34	82	N	20	N	N	N	N	N	N	N
CL716S	15	8.5	N	N	N	N	N	N	N	N	N	N
CL717S	7.4	4.8	N	N	N	N	N	N	N	N	N	N
CL718S	8.8	6.5	N	N	N	N	N	N	N	N	N	N
CL719S	29	21	62	N	12	N	N	N	N	N(5.2)	N	N
CL720S	28	23	190	N	15	N	N	N	N	<5.4	N	N
CL721S	23	13	30	N	7.9	N	N	N	N	<7.5	N	N
CL722S	40	37	480	N	35	N	N	N	N	N(5.5)	N	N
CL723S	63	23	270	N	35	N	N	N	N	N(7.7)	N	N
CL724S	38	19	76	N	13	N	<.92	N	N	N	N	N
CL725S	30	20	100	N	13	N	<.7	N	N	N	N	N
CL726S	24	10	43	N	7.2	N	N	N	N	N	N	N
CL727S	36	37	110	N	16	N	N	N	N	N(6)	N	N
CL728S	30	25	87	N	16	N	N	N	N	N	N	N
CL729S	26	18	79	N	13	N	N	N	N	N	N	N
CL730S	49	43	100	N	23	N	N	N	N	N	N	N
CL751S	N	41	190	N	N	N	N	N	N	17	N	N
CL752S	N	37	170	N	N	N	N	N	N	20	N	N
CL753S	N	71	260	N	N	1	N	N	N	22	N	N
CL754S	N	47	150	N	N	N	N	N	N	22	N	N
CL756S	N	33	80	N	N	N	N	N	N	10	N	N
CL757S	N	19	37	N	N	N	N	N	N	12	N	N
CL758S	N	26	98	N	N	N	N	N	N	10	N	N
CL759S	N	26	140	N	N	N	N	N	N	13	N	N
CL788S	48	12	69	N	N	N	N	N	N	N	N	N
CL789S	43	32	120	N(.8)	N(8)	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL790S	27	26	--	--	--	--	--	--	--	--	--	--
CL791S	38	12	67	N	N	N	N	N	N	N	N	N
CL792S	32	13	120	N(.8)	N(8)	N(1.2)	N(1.6)	N(12)	N	N(8)	N(10)	N
CL793S	47	34	--	--	--	--	--	--	--	6.7	--	--
CL794S	41	21	76	N	N	N	N	N	N	N	N	N
CL795S	13	1.4	71	N	N	N	N	N	N	N	N	N
CL796S	27	6.4	95	N	<3.3	N	N	N	N	N	N	N
CL797S	16	2.8	42	N	N	N	N	N	N	N	N	N
CL798S	31	22	66	N	N	N	N	N	N	N	N	N
CL799S	27	15	66	N	N	N	N	N	N	N	N	N
CL800S	35	11	--	--	--	--	--	--	--	6.5	--	--
CL801S	20	7.3	81	N	<4.6	N	N	N	N	N	N	N
CL802S	22	3.8	47	N	<3.5	N	.48	N	N	N	N	N
CL803S	23	6	47	N	<3.7	N	.45	N	N	N	N	N
CL804S	22	4.3	63	N	N	N	N	N	N	N	N	N
CL805S	24	4.6	57	N	N	N	N	N	N	N	N	N
CL806S	21	3.9	57	N	<3.1	N	N	N	N	N	N	N
CL807S	27	11	64	N	<5.3	N	N	N	N	N	N	N
CL808S	40	5.4	69	N	N	N	N	N	N	N	N	N
CL809S	28	7.1	53	N	<3.5	N	N	N	N	N	N	N
CL810S	33	6.4	58	N	<2.9	N	N	N	N	N	N	N
CL811S	27	9.9	62	N	<5.2	N	N	N	N	N	N	N

Table 4. Aqua-regia leachate data for minus-80-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

Sample	Latitude	Longitude	ICP-Mg	ICP-Ca	ICP-Fe	ICP-Al	ICP-Ti	ICP-P	ICP-B	ICP-Be
CL812S	68 48 0	151 57 30	3,500	1,100	27,000	7,600	2.3	390	N	.17
CL813S	68 52 30	151 48 55	2,300	1,300	25,000	5,500	3.4	260	N	N
CL814S	68 54 50	151 48 55	2,600	1,000	55,000	6,200	2	520	N	N
CL815S	68 50 55	151 37 0	2,800	960	29,000	6,300	2	350	N	N
CL816S	68 47 45	151 42 30	2,000	790	34,000	4,800	2.2	310	N	N
CL817S	68 50 30	151 33 30	4,800	1,100	33,000	9,300	3.2	290	N	N
CL818S	68 53 0	151 31 10	1,800	650	15,000	3,500	2.2	140	N	N
CL819S	68 56 10	151 29 0	7,600	4,200	33,000	10,000	4.2	570	N	N
CL820S	68 57 55	151 7 0	2,800	1,800	33,000	7,800	5.3	330	N	N
CL821S	68 55 55	151 2 30	3,200	1,100	24,000	6,900	3.1	290	N	N
CL822S	68 57 35	150 55 0	2,600	1,800	28,000	7,700	2.9	260	N	N
CL823S	68 57 10	150 53 55	2,200	1,300	35,000	6,300	1.4	300	N	N
CL824S	68 32 55	152 31 0	10,000	3,900	32,000	11,000	870	520	N	N
CL826S	68 35 38	152 33 10	15,000	7,000	32,000	14,000	1,300	400	N	N
CL827S	68 53 18	150 54 0	2,900	1,100	28,000	6,800	3	300	N	N
CL828S	68 53 5	150 52 10	2,800	1,200	19,000	4,500	4.7	290	N	.012
CL830S	68 53 45	151 11 30	2,200	1,400	20,000	5,000	2.8	290	N	.31
CL831S	68 50 40	151 11 10	1,700	2,900	44,000	5,800	2.7	360	N	N
CL832S	68 51 35	151 5 50	1,800	1,300	20,000	4,600	3.4	340	N	N
CL833S	68 49 45	151 4 10	2,400	1,500	15,000	5,300	3.3	220	N	N
CL835S	68 48 0	150 53 15	1,800	920	28,000	4,500	2	290	N	N
CL836S	68 46 15	150 42 10	4,400	1,400	30,000	8,300	2.3	380	N	N
CL837S	68 46 20	150 53 30	1,800	870	39,000	4,100	2.4	320	N	N
CL838S	68 42 45	150 51 50	2,900	1,400	22,000	5,700	3.9	350	N	N
CL839S	68 35 20	150 57 30	2,200	730	12,000	4,900	2.5	160	N	N
CL841S	68 22 15	152 15 15	10,000	69,000	24,000	8,600	11	1,200	35	--
CL842S	68 22 15	152 6 35	5,900	5,700	32,000	10,000	4.5	930	N	.29
CL843S	68 20 45	152 1 18	6,100	4,500	29,000	9,600	2.7	550	N	N
CL844S	68 19 30	152 0 15	23,000	N	28,000	7,500	5.4	1,200	N	3.8
CL850S	68 19 28	151 50 0	9,200	5,100	49,000	14,000	4.8	570	N	N
CL1060S	68 0 13	150 24 57	5,700	1,900	31,000	11,000	3	430	N	N
CL1063S	68 0 39	150 21 8	6,000	1,800	32,000	11,000	2.8	450	N	N
CL1064S	68 0 27	150 18 35	5,000	1,900	33,000	9,200	2.4	450	N	N
CL1066S	68 0 17	150 14 51	7,200	1,800	41,000	14,000	2.1	450	N	N
CL1627S	68 14 12	150 0 54	1,500	1,200	14,000	4,600	1.7	320	N	N
CL1628S	68 13 26	150 2 52	2,400	1,400	30,000	6,400	2.5	330	N	N
CL1629S	68 10 26	150 5 35	2,600	1,800	39,000	8,300	2.3	360	N	N
CL1630S	68 10 19	150 3 12	3,500	9,100	28,000	6,600	1.3	340	N	N
CL1631S	68 8 44	150 2 27	3,400	1,500	26,000	6,300	2.5	370	N	N
CL1632S	68 8 40	150 1 49	4,000	1,700	26,000	7,900	3	450	N	N
CL1633S	68 7 28	150 1 35	3,500	1,600	20,000	6,400	2	390	N	N
CL1634S	68 7 28	150 0 57	4,200	2,200	25,000	7,800	2.3	440	N	N
CL1635S	68 9 59	150 10 17	2,800	1,200	28,000	5,800	2.1	360	N	N
CL1636S	68 9 17	150 12 4	2,400	1,100	31,000	6,400	8.1	360	N	N
CL1637S	68 7 53	150 18 54	3,100	1,200	25,000	5,800	13	350	N	N
CL1638S	68 5 59	150 16 2	5,900	1,600	28,000	11,000	.81	490	N	N
CL1639S	68 6 7	150 15 29	5,300	1,300	29,000	10,000	1.2	450	N	N
CL1640S	68 5 32	150 14 24	4,200	1,300	28,000	8,200	6.5	450	N	N
CL1641S	68 4 24	150 13 54	6,100	1,500	29,000	12,000	1.8	480	N	N
CL1642S	68 4 34	150 13 9	6,900	1,500	35,000	14,000	1.3	510	N	N
CL1643S	68 3 26	150 6 43	6,200	1,400	31,000	12,000	1.7	450	N	N
CL1644S	68 3 55	150 6 47	5,000	1,500	32,000	9,900	.85	520	N	N
CL1645S	68 6 33	150 21 19	2,700	1,000	25,000	5,600	3.3	320	N	N
CL1646S	68 6 19	150 20 53	2,700	1,100	17,000	5,400	.7	310	N	N
CL1647S	68 6 7	150 20 58	4,200	1,500	23,000	9,100	.96	390	N	N
CL1648S	68 5 14	150 23 39	5,500	1,600	29,000	11,000	1	480	N	N
CL1649S	68 4 11	150 25 20	3,400	1,100	17,000	6,900	.56	340	N	N

Table 4. Aqua-regia leachate data for minus-80-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

Sample	ICP-Sr	ICP-Ba	ICP-La	ICP-Ce	ICP-Y	ICP-Nb	ICP-Mn	ICP-V	ICP-Cr	ICP-Co
CL812S	6.3	86	4.3	7.1	N	N	250	18	23	7.3
CL813S	6.9	130	4.9	8.8	.32	N	620	18	21	11
CL814S	11	130	3.7	4.3	N	N	370	24	<23	8.3
CL815S	7.5	120	3.7	5.8	N	N	380	18	23	7.8
CL816S	7.2	140	3.1	4.3	N	N	590	19	21	9.4
CL817S	11	91	3.8	6.9	N	N	400	17	30	12
CL818S	4.8	50	4.1	7.7	.11	N	290	10	16	6.8
CL819S	16	100	6.2	12	2.2	N	400	19	29	11
CL820S	13	160	7.5	13	N	N	1,200	20	24	16
CL821S	8.2	93	3.9	6.5	N	N	250	19	26	7.6
CL822S	16	180	6.2	11	N	N	1,700	17	24	20
CL823S	7.1	130	4.4	7.2	N	N	850	17	23	20
CL824S	12	N	6.8	12	2.3	N	530	53	40	9.3
CL826S	21	N	6.7	12	2.9	N	550	59	41	12
CL827S	6.6	140	2.9	4.5	N	N	450	22	29	9.8
CL828S	8.4	79	4.5	7.7	.094	N	220	13	19	6.1
CL830S	6.4	68	3.4	6.4	.4	N	480	14	20	11
CL831S	8.3	130	3.7	3.9	N	N	1,500	16	<20	23
CL832S	6.9	76	3.8	6.2	1.2	N	190	14	17	4.5
CL833S	13	89	11	21	1.7	N	350	10	16	7.2
CL835S	7	88	2.6	3.5	N	N	420	17	19	8.1
CL836S	6.8	65	2.2	3	N	N	280	20	27	9
CL837S	6.8	88	1.8	1.5	N	N	390	16	<17	7.8
CL838S	6.3	84	2.6	4.7	.2	N	380	15	20	8.7
CL839S	3.3	37	1.3	1.5	N	N	140	12	16	3.9
CL841S	60	270	4.1	--	--	--	380	26	21	8.3
CL842S	16	170	4.8	6.1	3.6	N	680	29	28	9.1
CL843S	12	270	3.2	4.5	.9	N	730	26	24	7.6
CL844S	72	400	15	4.3	9.2	N(4)	460	26	34	N(8)
CL850S	15	310	3.7	6	N	N	3,500	35	31	12
CL1060S	12	29	1.4	N	N	N	410	16	32	9
CL1063S	12	30	1.4	.91	N	N	400	16	33	9.1
CL1064S	12	20	1.5	N	N	N	310	14	31	9.1
CL1066S	12	17	1.1	N	N	N	460	14	37	11
CL1627S	6.8	56	1.6	2.5	1.7	N	650	12	16	4.8
CL1628S	9.2	120	1.5	1.7	N	N	440	21	24	10
CL1629S	12	160	1.8	1.6	N	N	650	24	28	13
CL1630S	17	36	1.6	1.1	.55	N	400	17	23	9.5
CL1631S	8.7	60	1.5	2	.91	N	420	16	21	8.6
CL1632S	11	46	1.8	2.2	.72	N	340	16	24	9.2
CL1633S	9.4	43	1.6	2.5	1.3	N	280	15	21	9.6
CL1634S	13	48	1.7	2.2	1.3	N	350	17	24	11
CL1635S	8.6	66	2	3.2	.94	N	430	20	22	12
CL1636S	7.1	94	1.6	1.9	.18	N	440	24	26	11
CL1637S	7	64	1.5	2.1	.91	N	390	18	21	9
CL1638S	12	62	1.7	2	.57	N	350	21	30	12
CL1639S	11	38	1.7	2	N	N	390	17	27	12
CL1640S	9.6	48	1.7	2.3	.73	N	440	18	25	11
CL1641S	14	57	1.6	1.6	.37	N	390	20	29	12
CL1642S	13	38	1.4	N	N	N	400	22	32	12
CL1643S	12	21	1.3	N	N	N	440	16	31	12
CL1644S	11	42	1.7	1.6	.066	N	430	19	28	12
CL1645S	5.9	65	1.4	2.7	N	N	440	19	20	9.3
CL1646S	6.9	46	1.3	2	.74	N	270	13	18	8.8
CL1647S	9.2	57	1.5	2.3	.69	N	510	18	25	11
CL1648S	11	61	1.6	1.7	.37	N	370	21	29	12
CL1649S	8.3	33	1.1	1.3	.53	N	250	13	21	7.8

Table 4. Aqua-regia leachate data for minus-80-mesh stream sediments from the Chandler Lake quadrangle, Alaska--cont.

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
CL812S	27	6.6	59	N	<3.6	N	N	N	N	N	N	N
CL813S	22	8.5	57	N	6.3	N	N	N	N	N	N	N
CL814S	28	7	66	N	<5.3	N	N	N	N	N	N	N
CL815S	25	9.2	58	N	<5.1	N	N	N	N	N	N	N
CL816S	27	13	64	N	11	N	N	N	N	N	N	N
CL817S	23	15	77	N	<6.9	N	N	N	N	N	N	N
CL818S	18	6.5	49	N	4	N	N	N	N	N	N	N
CL819S	40	23	89	N	<5.8	N	N	N	N	N	N	N
CL820S	24	3.3	59	N	<5.5	N	N	N	N	N	N	N
CL821S	25	4.1	56	N	<3.9	N	N	N	N	N	N	N
CL822S	20	.86	57	N	<4.4	N	N	N	N	N	N	N
CL823S	23	2.6	66	N	<4.7	N	N	N	N	N	N	N
CL824S	31	20	61	N	N	N	N	N	N	N	N	N
CL826S	33	30	66	N	N	N	N	N	N	N	N	N
CL827S	24	5.3	51	N	<4.1	N	N	N	N	N	N	N
CL828S	16	2.6	46	N	<3.6	N	N	N	N	N	N	N
CL830S	19	5.2	60	N	5.2	N	N	N	N	N	N	N
CL831S	18	.82	81	N	<4.3	N	N	N	N	N	N	N
CL832S	15	2.6	45	N	<4.1	N	N	N	N	N	N	N
CL833S	17	3.5	55	N	5.2	N	N	N	N	N	N	N
CL835S	18	4.2	48	N	<4.5	N	N	N	N	N	N	N
CL836S	31	11	79	N	<5.4	N	N	N	N	N	N	N
CL837S	20	3.5	52	N	<4	N	N	N	N	N	N	N
CL838S	23	8.2	59	N	5.9	N	N	N	N	N	N	N
CL839S	17	1.6	39	N	<3.3	N	N	N	N	N	N	N
CL841S	30	19	--	--	--	--	--	--	--	5.5	--	--
CL842S	36	23	99	N	<3	N	N	N	N	N	N	N
CL843S	29	16	67	N	<3.1	N	N	N	N	N	N	N
CL844S	37	21	130	1.2	N(8)	N(1.2)	N(1.6)	N(12)	N	55	N(10)	N
CL850S	44	21	90	N	N	N	N	N	N	N	N	N
CL1060S	28	15	57	N	15	N	N	N	N	N	N	N
CL1063S	29	16	59	N	17	N	N	N	N	N	N	N
CL1064S	31	18	63	N	14	N	N	N	N	N	N	N
CL1066S	35	25	75	N	27	N	N	N	N	N	N	N
CL1627S	16	8.1	34	N	6.8	N	N	N	N	N	N	N
CL1628S	30	25	73	N	14	N	N	N	N	N	N	N
CL1629S	35	30	89	N	18	N	N	N	N	N	N	N
CL1630S	26	23	73	N	14	N	N	N	N	N	N	N
CL1631S	24	24	52	N	13	N	N	N	N	N	N	N
CL1632S	25	19	61	N	15	N	N	N	N	N	N	N
CL1633S	23	15	55	N	15	N	N	N	N	N	N	N
CL1634S	25	20	67	N	18	N	N	N	N	N(6.1)	N	N
CL1635S	29	26	67	N	15	N	N	N	N	N	N	N
CL1636S	28	26	66	N	15	N	N	N	N	N	N	N
CL1637S	26	20	55	N	11	N	N	N	N	N	N	N
CL1638S	31	21	62	N	16	N	N	N	N	N	N	N
CL1639S	30	20	61	N	16	N	N	N	N	N	N	N
CL1640S	28	23	62	N	15	N	N	N	N	N	N	N
CL1641S	39	22	65	N	18	N	N	N	N	N	N	N
CL1642S	36	23	68	N	15	N	N	N	N	N	N	N
CL1643S	35	23	64	N	16	N	N	N	N	N	N	N
CL1644S	32	22	70	N	17	N	N	N	N	N	N	N
CL1645S	25	22	50	N	13	N	N	N	N	N	N	N
CL1646S	20	14	52	N	13	N	N	N	N	N	N	N
CL1647S	26	17	56	N	17	N	N	N	N	N	N	N
CL1648S	33	21	62	N	16	N	N	N	N	N	N	N
CL1649S	22	13	44	N	13	N	N	N	N	N(5.2)	<2.6	N

Table 5. Emission Spectrographic analyses of minus-80-mesh stream sediments collected in 1985 from the Chandler Lake quadrangle, Alaska
[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown; Elizabeth A. Bailey and Cliff D. Taylor, analysts.]

Sample	Latitude	Longitude	Mg-pct.	Ca-pct.	Fe-pct.	Ti-pct.	B-ppm	Be-ppm
			S	S	S	S	S	S
85CL788S	68 26 10	150 58 30	1	.5	3	.7	150	1.5
85CL789S	68 26 0	150 56 0	1	2	3	.5	300	1.5
85CL790S	68 26 0	150 54 30	3	10	3	.5	200	1
85CL791S	68 29 10	150 55 30	1.5	.15	5	.7	300	1.5
85CL792S	68 29 10	151 2 30	1	2	3	.5	200	1.5
85CL793S	68 30 28	151 0 30	1	1	5	.7	500	1.5
85CL794S	68 30 30	150 53 0	1.5	.5	5	.7	300	2
85CL795S	68 31 15	150 52 0	.2	.15	2	.3	70	<1
85CL796S	68 33 30	150 49 0	.7	.3	3	.5	150	1
85CL797S	68 33 40	150 58 35	7	.15	5	.5	100	1
85CL798S	68 32 45	150 58 57	1.5	.2	5	.7	200	1.5
85CL799S	68 31 50	150 58 20	1.5	.5	5	.7	150	1.5
85CL800S	68 33 0	151 4 0	[illegible]	.5	5	.5	100	1
85CL801S	68 35 45	151 10 0	[illegible]	.5	5	.3	100	1
85CL802S	68 37 13	151 5 30	[illegible]	.07	3	.5	150	1
85CL803S	68 39 28	151 3 0	[illegible]	.05	3	.7	200	1
85CL804S	68 41 58	151 7 30	[illegible]	.1	5	.3	70	1
85CL805S	68 41 45	151 3 55	[illegible]	.05	3	.5	100	1
85CL806S	68 39 28	151 0 0	[illegible]	.07	5	.5	100	1
85CL807S	68 38 30	150 58 45	[illegible]	.05	2	.5	150	1
85CL808S	68 37 5	150 56 0	[illegible]	.05	2	.5	100	1
85CL809S	68 45 38	151 56 40	[illegible]	.05	2	.3	100	1
85CL810S	68 45 0	151 48 45	[illegible]	.05	2	.5	100	1
85CL811S	68 47 25	151 51 30	[illegible]	.05	2	.5	150	1
85CL812S	68 48 0	151 57 30	[illegible]	.05	2	.3	100	1
85CL813S	68 52 30	151 48 55	[illegible]	.07	2	.3	70	1
85CL814S	68 54 50	151 48 55	[illegible]	.05	3	.3	70	1
85CL815S	68 50 55	151 37 0	.3	.05	2	.3	100	1
85CL816S	68 47 45	151 42 30	[illegible]	.05	2	.3	100	1
85CL817S	68 50 30	151 33 30	1	.05	3	.5	200	1.5
85CL818S	68 53 0	151 31 10	.3	<.05	1	.3	100	1
85CL819S	68 56 10	151 29 0	1	.2	2	.5	200	1.5
85CL820S	68 57 55	151 7 0	.3	.15	2	.5	100	1.5
85CL821S	68 55 55	151 2 30	.5	.1	2	.5	150	1
85CL822S	68 57 35	150 55 0	.5	.15	3	.5	150	1
85CL823S	68 57 10	150 53 55	.3	.07	2	.3	70	1
85CL824S	68 32 55	152 31 0	.7	.2	2	.5	100	1
85CL826S	68 35 38	152 33 10	1.5	.5	3	.5	100	1.5
85CL827S	68 53 10	150 54 0	.2	.07	1.5	.3	70	1
85CL828S	68 53 5	150 52 10	.15	.1	2	.2	20	1
85CL829S	68 52 56	151 0 0	.2	.07	5	.3	50	1
85CL830S	68 53 45	151 11 30	.2	.07	2	.3	70	1
85CL831S	68 50 40	151 11 10	.2	.2	5	.2	50	1
85CL832S	68 51 35	151 5 50	.15	.1	2	.2	50	1
85CL833S	68 49 45	151 4 10	.5	.1	2	.5	50	1.5
85CL834S	68 46 30	151 4 0	.3	.1	1.5	.2	50	<1
85CL835S	68 48 0	150 53 15	.15	.05	2	.2	50	1
85CL836S	68 46 15	150 42 10	.7	.1	3	.5	150	1.5
85CL837S	68 46 20	150 53 30	.2	.05	3	.3	70	1
85CL838S	68 42 45	150 51 50	.5	.07	2	.3	100	1
85CL839S	68 35 20	150 57 30	.2	<.05	1.5	.2	50	1
85CL840S	68 22 48	152 18 10	.5	.15	3	.3	50	1.5
85CL841S	68 22 15	152 15 15	1	5	2	.2	150	2
85CL842S	68 22 15	152 6 35	.7	.2	3	.3	150	1.5
85CL843S	68 20 49	152 1 18	.7	.2	3	.3	200	1.5
85CL844S	68 19 30	152 0 15	3	7	2	.3	150	1.5
85CL845S	68 20 49	151 55 50	2	2	3	.3	100	1
85CL850S	68 19 28	151 50 0	1.5	.2	5	.3	150	1.5

Table 5. Emission Spectrographic analyses of minus-80-mesh stream sediments collected in 1985 from the Chandler Lake quadrangle, Alaska--cont.

Sample	Sr-ppm s	Ba-ppm s	Sc-ppm s	Y-ppm s	La-ppm s	Zr-ppm s	Mn-ppm s	V-ppm s	Cr-ppm s
85CL788S	<100	500	15	20	N	300	1,000	150	150
85CL789S	100	>5,000	15	20	N	200	1,500	200	150
85CL790S	200	5,000	15	30	N	100	1,000	200	200
85CL791S	<100	700	15	15	N	200	1,500	200	200
85CL792S	<100	1,000	10	20	50	150	2,000	200	70
85CL793S	<100	2,000	20	20	N	70	>5,000	200	200
85CL794S	<100	700	20	30	N	150	2,000	200	150
85CL795S	N	300	5	10	N	1,000	3,000	100	15
85CL796S	N	700	10	15	N	150	5,000	150	300
85CL797S	N	700	10	20	N	200	5,000	150	100
85CL798S	N	1,000	20	20	N	150	1,000	200	150
85CL799S	<100	1,000	20	20	N	200	3,000	200	200
85CL800S	<100	1,000	10	20	N	150	>5,000	150	300
85CL801S	<100	700	7	20	N	200	3,000	150	30
85CL802S	<100	500	10	15	N	700	500	150	150
85CL803S	N	500	10	20	N	500	300	150	500
85CL804S	N	500	7	20	N	200	2,000	150	50
85CL805S	N	300	7	15	N	200	300	150	50
85CL806S	N	500	10	30	N	300	1,000	150	100
85CL807S	N	500	7	15	N	200	700	150	30
85CL808S	N	300	10	15	N	200	2,000	100	50
85CL809S	N	300	10	20	N	500	500	150	50
85CL810S	N	300	10	20	N	200	300	150	150
85CL811S	N	500	15	20	N	300	700	150	100
85CL812S	N	300	7	20	N	200	300	100	70
85CL813S	N	700	10	20	N	200	1,000	100	50
85CL814S	N	300	10	20	N	200	500	150	70
85CL815S	N	300	10	15	N	200	500	150	300
85CL816S	N	500	10	20	N	200	1,000	150	200
85CL817S	<100	500	20	30	N	200	700	200	100
85CL818S	N	300	7	20	N	200	500	100	200
85CL819S	<100	300	15	30	N	150	700	150	70
85CL820S	<100	500	10	20	N	150	2,000	100	30
85CL821S	<100	300	10	15	N	200	500	150	200
85CL822S	<100	500	10	20	N	500	2,000	150	70
85CL823S	N	300	7	20	N	300	1,500	100	150
85CL824S	N	1,000	10	20	N	100	1,000	150	70
85CL826S	<100	1,000	15	20	N	100	1,500	200	70
85CL827S	N	300	7	15	N	500	1,000	100	150
85CL828S	<100	500	5	15	N	100	300	100	20
85CL829S	<100	500	10	15	N	500	1,000	100	200
85CL830S	N	500	7	20	N	1,000	1,000	100	30
85CL831S	N	700	7	20	N	300	3,000	100	30
85CL832S	N	300	7	20	N	500	300	100	30
85CL833S	<100	500	10	20	N	500	700	100	100
85CL834S	N	300	5	15	N	500	1,000	100	30
85CL835S	N	300	7	15	N	300	700	100	70
85CL836S	<100	500	15	30	N	300	500	150	100
85CL837S	N	500	10	30	N	500	700	100	100
85CL838S	<100	500	10	20	N	200	1,000	150	50
85CL839S	N	200	5	50	N	300	200	100	30
85CL840S	N	500	10	30	N	150	5,000	150	50
85CL841S	100	2,000	10	30	N	100	1,000	150	50
85CL842S	<100	3,000	15	30	N	150	1,500	200	50
85CL843S	<100	2,000	15	20	N	150	1,500	150	50
85CL844S	100	2,000	15	30	N	100	1,000	150	70
85CL845S	<100	700	10	20	N	100	5,000	150	70
85CL850S	N	700	20	30	N	100	5,000	150	70

Table 5. Emission Spectrographic analyses of minus-80-mesh stream sediments collected in 1985 from the Chandler Lake quadrangle, Alaska--cont.

Sample	Co-ppm s	Ni-ppm s	Cu-ppm s	Zn-ppm s	Zn-ppm aa	Pb-ppm s	Ag-ppm s	Au-ppm aa	Mo-ppm s
85CL788S	20	70	20	N	100	<10	N	N	N
85CL789S	20	70	70	<200	160	20	<.5	<.05	<5
85CL790S	30	70	70	<200	100	15	N	N	5
85CL791S	30	70	30	<200	80	<10	N	N	N
85CL792S	20	50	30	N	100	15	N	N	N
85CL793S	70	70	70	200	220	10	N	N	N
85CL794S	50	70	50	<200	110	10	N	2.1	N
85CL795S	15	20	<5	N	85	N	.5	N	N
85CL796S	50	50	15	N	110	<10	N	N	N
85CL797S	50	50	10	N	80	15	N	N	N
85CL798S	30	70	70	<200	95	15	N	N	N
85CL799S	30	70	50	<200	110	15	N	N	N
85CL800S	50	70	20	<200	190	10	N	N	N
85CL801S	20	30	15	N	100	<10	N	N	N
85CL802S	10	30	10	N	50	<10	N	N	N
85CL803S	15	50	10	N	50	<10	N	N	N
85CL804S	50	30	20	N	85	10	N	N	N
85CL805S	15	30	10	N	70	<10	N	<.05	N
85CL806S	20	30	15	N	65	10	N	N	N
85CL807S	10	30	15	N	75	<10	<.5	N	N
85CL808S	20	50	10	N	80	<10	N	.1	N
85CL809S	15	50	15	N	65	<10	N	N	N
85CL810S	20	50	15	N	70	<10	N	N	N
85CL811S	20	50	20	N	75	10	N	N	N
85CL812S	10	30	10	N	60	<10	N	N	N
85CL813S	20	20	15	N	65	<10	N	.05	N
85CL814S	15	30	15	N	70	<10	N	N	<5
85CL815S	15	30	10	N	65	10	.7	.05	<5
85CL816S	20	30	30	N	80	20	N	N	N
85CL817S	30	50	30	<200	100	<10	N	.1	N
85CL818S	10	20	10	N	65	15	N	N	N
85CL819S	20	50	50	N	120	<10	N	N	N
85CL820S	30	30	10	N	100	<10	N	N	N
85CL821S	10	30	10	N	65	<10	N	.1	N
85CL822S	50	30	7	N	75	<10	N	N	N
85CL823S	30	20	7	N	75	<10	N	N	N
85CL824S	20	30	20	N	85	<10	N	N	N
85CL826S	30	50	50	N	110	10	N	N	N
85CL827S	20	20	10	N	70	10	N	N	N
85CL828S	7	20	5	N	50	<10	<.5	.1	N
85CL829S	20	30	15	<200	50	<10	N	N	N
85CL830S	15	30	10	N	70	<10	N	N	N
85CL831S	50	30	15	N	100	10	N	N	N
85CL832S	7	20	7	N	50	<10	N	N	N
85CL833S	15	30	10	N	60	<10	<.5	N	N
85CL834S	15	10	7	N	60	<10	N	N	N
85CL835S	10	20	7	N	50	<10	N	.8	N
85CL836S	20	50	20	N	95	10	N	N	N
85CL837S	15	30	15	N	60	<10	<.5	N	<5
85CL838S	20	30	15	N	75	10	N	N	N
85CL839S	7	20	<5	N	45	<10	N	N	N
85CL840S	30	30	15	200	130	15	N	N	N
85CL841S	10	50	20	<200	130	20	<.5	N	N
85CL842S	20	50	20	<200	120	15	<.5	N	N
85CL843S	20	50	20	<200	110	15	N	.2	N
85CL844S	10	50	20	<200	160	20	.5	N	N
85CL845S	20	70	20	300	200	10	N	N	N
85CL850S	20	70	30	200	140	20	N	N	N

Table 6. Emission spectrographic analyses of nonmagnetic heavy-mineral-concentrate samples collected in 1985 from the Chandler Lake quadrangle, Alaska

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown; Belinda F. Arbogast, analyst.]

Sample	Latitude	Longitude	Mg-pct. s	Ca-pct. s	Fe-pct. s	Ti-pct. s	B-ppm s	Be-ppm s
85CL789C	68 26 0	150 56 0	.05	1	.5	.1	20	N
85CL790C	68 26 0	150 54 30	.2	1.5	.2	.1	20	N
85CL794C	68 30 30	150 53 0	.1	2	2	1	50	<2
85CL795C	68 31 15	150 52 0	.1	2	1	>2	100	<2
85CL799C	68 31 50	150 58 20	.2	5	5	>2	2,000	<2
85CL801C	68 35 45	151 10 0	.1	1	.5	>2	50	<2
85CL805C	68 41 45	151 3 55	.05	1	.2	>2	50	<2
85CL807C	68 38 30	150 58 45	.05	.7	1	>2	70	<2
85CL809C	68 45 38	151 56 40	.2	1.5	1	>2	200	<2
85CL812C	68 48 0	151 57 30	.1	.3	5	>2	50	<2
85CL813C	68 52 30	151 48 55	.2	1	.7	>2	150	<2
85CL814C	68 54 50	151 48 55	.15	1	1	>2	500	<2
85CL815C	68 50 55	151 37 0	.15	1	1	>2	200	<2
85CL816C	68 47 45	151 42 30	.15	.3	2	>2	700	<2
85CL819C	68 56 10	151 29 0	.05	.2	10	2	50	N
85CL820C	68 57 55	151 7 0	.15	1.5	1	>2	1,000	<2
85CL821C	68 55 55	151 2 30	.15	1	1	>2	500	<2
85CL826C	68 35 38	152 33 10	.7	3	2	>2	1,000	2
85CL828C	68 53 5	150 52 10	.2	.5	1	>2	200	<2
85CL832C	68 51 35	151 5 50	.05	1.5	2	>2	50	<2
85CL833C	68 49 45	151 4 10	.05	1	1	>2	500	<2
85CL836C	68 46 15	150 42 10	.1	.3	10	>2	100	<2
85CL841C	68 22 15	152 15 15	.2	20	7	.2	20	2
85CL842C	68 22 15	152 6 35	<.05	10	2	.5	20	<2
85CL843C	68 20 49	152 1 18	.05	5	.7	.7	20	<2
85CL844C	68 19 30	152 0 15	.3	5	2	.1	20	<2
85CL845C	68 20 49	151 55 50	.2	50	1	1	20	3
85CL850C	68 19 28	151 50 0	.1	1.5	1	.3	20	<2

Table 6. Emission spectrographic analyses of nonmagnetic heavy-mineral-concentrate samples collected in 1985 from the Chandler Lake quadrangle, Alaska--cont.

Sample	Sr-ppm s	Ba-ppm s	Sc-ppm s	Y-ppm s	La-ppm s	Zr-ppm s	Nb-ppm s	Mn-ppm s	V-ppm s	Cr-ppm s
85CL789C	2,000	>10,000	<10	20	<50	500	N	200	50	20
85CL790C	2,000	>10,000	N	70	<50	1,000	N	200	30	20
85CL794C	700	>10,000	N	200	100	>2,000	<50	500	50	2,000
85CL795C	2,000	1,000	70	500	1,000	>2,000	50	1,000	500	>10,000
85CL799C	2,000	500	50	500	500	>2,000	100	2,000	500	>10,000
85CL801C	1,000	1,500	70	500	700	>2,000	50	300	300	1,000
85CL805C	1,000	2,000	70	300	1,000	>2,000	70	200	500	200
85CL807C	1,000	>10,000	70	200	1,000	>2,000	100	300	500	500
85CL809C	2,000	1,000	50	200	1,000	>2,000	200	1,000	500	10,000
85CL812C	N	500	N	70	100	>2,000	<50	1,000	100	2,000
85CL813C	1,000	5,000	50	200	1,000	>2,000	100	300	300	300
85CL814C	1,000	10,000	50	500	1,000	>2,000	50	500	500	1,000
85CL815C	1,000	7,000	50	200	1,000	>2,000	70	500	500	1,000
85CL816C	1,000	1,000	70	200	1,500	>2,000	100	1,000	500	1,000
85CL819C	200	>10,000	<10	100	200	>2,000	<50	1,000	100	300
85CL820C	1,000	2,000	50	[illegible]	700	>2,000	50	500	300	300
85CL821C	1,000	1,000	[illegible]	[illegible]	2,000	>2,000	50	300	500	3,000
85CL826C	1,000	>10,000	[illegible]	[illegible]	100	2,000	<50	2,000	500	1,000
85CL828C	2,000	1,000	[illegible]	[illegible]	>2,000	>2,000	50	500	500	>10,000
85CL832C	1,000	1,000	[illegible]	[illegible]	200	>2,000	50	500	500	1,000
85CL833C	1,000	>10,000	[illegible]	[illegible]	2,000	>2,000	<50	500	500	1,000
85CL836C	1,000	3,000	[illegible]	100	700	>2,000	<50	1,000	150	2,000
85CL841C	2,000	>10,000	[illegible]	500	300	150	N	2,000	700	700
85CL842C	2,000	>10,000	N	300	100	2,000	N	300	200	200
85CL843C	5,000	>10,000	N	300	150	>2,000	N	500	200	100
85CL844C	5,000	>10,000	N	500	100	700	N	300	200	50
85CL845C	2,000	>10,000	[illegible]	1,000	200	1,000	<50	2,000	500	2,000
85CL850C	5,000	>10,000	N	50	<50	500	N	2,000	50	300

Table 6. Emission spectrographic analyses of nonmagnetic heavy-mineral-concentrate samples collected in 1985 from the Chandler Lake quadrangle, Alaska--cont.

Sample	Co-ppm s	Ni-ppm s	Cu-ppm s	Zn-ppm s	Pb-ppm s	Ag-ppm s	Mo-ppm s	Sn-ppm s	As-ppm s
85CL789C	N	N	10	N	N	N	N	N	N
85CL790C	N	N	10	N	N	N	N	N	N
85CL794C	100	2,000	70	N	20	N	150	N	N
85CL795C	100	2,000	50	N	20	N	100	N	N
85CL799C	200	10,000	200	N	<20	N	500	N	N
85CL801C	10	100	10	N	20	N	N	20	N
85CL805C	10	N	<10	N	20	N	N	20	N
85CL807C	20	200	10	N	30	N	20	<20	N
85CL809C	30	100	20	<500	20	N	N	N	N
85CL812C	70	5,000	150	<500	<20	N	200	N	N
85CL813C	10	100	10	<500	20	N	<10	N	N
85CL814C	50	500	50	<500	20	N	20	N	N
85CL815C	20	20	20	500	20	N	N	N	N
85CL816C	20	10	20	<500	20	N	N	N	N
85CL819C	300	5,000	300	<500	500	20	15	N	1,000
85CL820C	20	20	10	<500	<20	N	N	20	N
85CL821C	20	200	10	<500	20	N	10	N	N
85CL826C	50	150	50	<500	50	3	15	N	700
85CL828C	50	500	30	N	<20	N	10	N	N
85CL832C	50	1,000	100	N	20	N	20	30	N
85CL833C	10	20	10	N	20	N	N	N	N
85CL836C	50	500	100	<500	50	3	20	N	N
85CL841C	20	150	70	1,000	20	5	10	N	N
85CL842C	10	50	50	1,000	20	2	<10	N	N
85CL843C	N	10	50	N	<20	N	N	N	N
85CL844C	<10	50	70	700	30	1	<10	N	N
85CL845C	10	50	50	N	<20	3	<10	N	N
85CL850C	15	100	50	1,000	<20	N	N	N	N