UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

GEOCHEMICAL DATA FOR THE KILLIK RIVER AND CHANDLER LAKE QUADRANGLES, ALASKA

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INTRODUCTION

A regional geochemical reconnaissance study was made of the Killik River and Chandler Lake 1° x 3° topographic quadrangles, Alaska as part of the Alaska Mineral Resource Assessment Program (AMRAP). Presented herein is a description of the technique used for collecting and analyzing the geochemical samples, and the chemical analysis data.

Shown in figure 1, both quadrangles are between 68° and 69° North latitude. Killik River extends from 153° to 156° West longitude and is bordered on the east by Chandler Lake from 150° to 153°. The southern boundary of both quadrangles is approximately along the Brooks Range divide. Samples were collected only in the mountainous parts of the quadrangles, from the southern boundary north to approximately 68°25' North latitude. Sampling was begun in the west and was completed eastward to Alapah Mountain, approximately 150°50' West longitude. Field camps were located at Ivotuk (Lisburn wells) airstrip approximately 2 km west of Ivotuk Hills at 155°46' W., 68°29' N. from June 28, 1981 to July 22 and at the village of Anaktuvak Pass from July 23 to July 31.

SAMPLE MEDIA SELECTION

Stream-transported sediments were chosen to provide as much compositing as possible. Two types were taken, the minus-30-mesh stream sediment and the nonmagnetic fraction of the heavy-mineral concentrate of the stream sediment. The minus-30-mesh stream sediment provides a geochemical cross section of the mechanically transported components of the drainage basin. It's composition is controlled mainly by the major geologic units. Minor components, such as an economic mineral deposit, can be seen in this media, but their influence is subject to significant dilution by the large amount of material from the major units.

The nonmagnetic fraction of the heavy-mineral concentrate is used to prevent excessive dilution of ore-elements by ordinary rock minerals. Many of the ore minerals of an ore deposit are transported as detrital material that are mechanically resistant and of high specific gravity. They are concentrated in the field by panning, and later in the laboratory by heavy-liquid and magnetic separation.

SAMPLE COLLECTION

Within an area of approximately 9220 km^2, 436 sites were sampled to give a density of 1 site/21 km^2. Generally, first-order streams of 2 to 5 km length draining basins as large as a 10-km^2 area were sampled to provide a stream-sediment and a panned heavy-mineral concentrate. Both were passed through a 2-mm screen. A 40-cm diameter gold pan filled approximately two-thirds full was panned to approximately 200 grams.

Sites were plotted on the 1:250,000 scale quadrangle maps and assigned a quadrangle designation prefix (KR for Killik River and CL for Chandler Lake) and a three-digit consecutive site number. Stream-sediment samples were assigned an "S" suffix and the heavy-mineral concentrate an "H" suffix.

FIG. 1. Index map of Killik River and Chandler Lake quadrangles.

SAMPLE PREPARATION AND ANALYSIS

Stream-sediment samples were transported to the U.S. Geological Survey Anchorage laboratory where the dried minus-30-mesh fraction was mechanically pulverized to approximately minus-150-mesh. A 10-mg sample was analyzed for 31 elements by emission spectroscopy, Grimes and Marranzino (1968). In addition to the elements reported in the tabular portion of this report, the following elements were sought but not detected at the parts per million detection limit shown: As (200), Au (10), Bi (10), Sb (100), Sn (10), and Th (100). The stream-sediment samples were also analyzed by atomic absorption spectroscopy for As, Au, Cd, Cu, Sb, and Zn.

The panned heavy-mineral concentrate samples were transported to Denver, Colo. Following drying and sieving to minus-30-mesh; a density separation using bromoform, a liquid of specific gravity 2.80 to 2.89, separated the heavy minerals from the floated quartz, feldspar, clay, and other low-density minerals. Further separation on the basis of magnetic susceptibility was made using a Frantz Isodynamic Magnetic Separator. A forward slope of 25° and a side slope of 15° with a current of 0.7 amperes gave two fractions: (1), HM, magnetic, containing magnetite, ilmenite, chromite, amphiboles, pyroxenes, epidote, and olivine; and (2), HN, nonmagnetic, containing most of the sulfide minerals and secondary minerals of the base metals along with barite, apatite, zircon, and rutile. The nonmagnetic fraction was split, one part for microscopic mineral identification and the other hand-ground to provide a 5-mg sample for emission spectrographic analysis similar to that used for stream sediments.

The heavy-mineral concentrate samples from the Chandler Lake quadrangle were lost in transport to Denver; therefore, their analysis was not possible.

DATA STORAGE AND PROCESSING

The emission spectrographic analytical results for the minus-30-mesh stream sediment and the nonmagnetic fraction of the heavy-mineral concentrates along with the latitude and longitude of the sample site are presented on the following pages. An entry of "N" indicates the element was not detected. The detection limits of the analytical method for stream-sediment samples are given in table 1. The detection limits for the nonmagnetic fraction of the heavy-mineral concentrates are twice those of stream sediments because the sample size is one-half as large.

The analyses, along with the latitude and longitude, were entered in the U.S. Geological Survey computerized Rock Analysis Storage System (RASS), VanTrump and Miesch (1977).

REFERENCES

Grimes, D. J., and Marranzino, A. P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, 6 p.

VanTrump, George, Jr., and Miesch, A. T., 1977, The U.S. Geological Survey RASS-STATPAC system for management and statistical reduction of geochemical data: Computers and Geosciences, v. 3, p. 475-488.

Table 1.--Detection limits in parts per million for stream sediments determined by emission spectrographic method

Element	Detection limit	Element	Detection limit	Element	Detection limit
Ag	0.5	Cr	10	Sc	5
As	200	Cu	5	Sn	10
Au	10	La	20	Sr	100
B	10	Mn	10	Th	100
Ba	20	Mo	5	V	10
Be	1	Nb	20	W	50
Bi	10	Ni	5	Y	10
Cd	20	Pb	10	Zn	200
Co	5	Sb	100	Zr	10

Spectrographic and Atomic Absorption Analysis of Stream Sediments

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Cd-ppm s
CL256S	68 5 37	151 46 5	7.0	2.00	.20	.70	1,000	N	200	1,000	2.0	N
CL257S	68 2 47	151 53 50	5.0	.50	.10	.30	700	N	70	500	1.0	N
CL258S	68 2 2	152 0 35	5.0	.50	.10	.50	700	N	100	500	2.0	N
CL259S	68 1 35	152 13 0	5.0	.50	.30	.50	1,000	N	200	1,000	3.0	N
CL260S	68 1 55	152 43 0	5.0	.10	.05	.50	1,000	N	100	700	5.0	N
CL261S	68 2 0	153 49 40	7.0	.10	<.05	.50	2,000	N	200	1,000	7.0	N
CL264S	68 2 58	152 43 55	5.0	1.00	1.00	.50	1,500	N	200	>5,000	5.0	N
CL265S	68 2 56	152 32 40	7.0	1.00	.10	.50	2,000	N	200	1,500	7.0	N
CL266S	68 4 48	152 30 28	5.0	.20	.15	.50	700	N	70	500	2.0	N
CL267S	68 2 50	152 27 3	5.0	.50	.05	.50	2,000	N	200	1,000	7.0	50
CL268S	68 2 58	152 14 20	5.0	.70	.10	.50	700	N	100	700	2.0	N
CL269S	68 1 30	151 45 0	5.0	2.00	5.00	.50	1,000	N	150	2,000	5.0	N
CL270S	68 0 58	151 38 28	5.0	.30	.20	.50	1,500	N	100	700	5.0	N
CL271S	68 2 40	151 42 25	5.0	.30	.10	.50	500	N	100	700	5.0	N
CL272S	68 3 45	151 41 15	5.0	.50	.10	.50	1,000	N	100	700	5.0	N
CL273S	68 6 47	151 40 35	7.0	.50	.10	.50	1,000	N	200	700	7.0	N
CL274S	68 3 8	151 28 30	5.0	.30	.20	.30	1,000	N	100	500	5.0	N
CL275S	68 2 58	151 29 0	5.0	.20	.10	.30	1,000	N	70	500	5.0	50
CL276S	68 3 32	151 29 59	5.0	.20	.10	.30	1,000	N	100	500	7.0	20
CL277S	68 2 58	151 13 55	7.0	.50	.20	.50	1,000	N	200	700	7.0	N
CL278S	68 3 38	151 7 18	7.0	.70	.10	.50	1,000	N	200	700	7.0	N
CL279S	68 3 15	150 53 58	7.0	1.00	.20	.50	700	N	150	700	1.0	N
CL280S	68 5 14	151 0 40	5.0	.70	.10	.50	500	N	70	500	1.0	N
CL281S	68 6 5	151 8 40	7.0	1.00	.10	.70	700	N	100	700	2.0	N
CL282S	68 9 40	151 45 15	3.0	2.00	20.00	.30	500	N	70	>5,000	2.0	N
CL283S	68 13 32	151 38 25	3.0	1.00	10.00	.20	700	.5	70	2,000	2.0	N
CL284S	68 16 35	151 37 35	1.0	2.00	20.00	.10	200	.5	10	150	1.0	N
CL285S	68 13 52	151 47 32	5.0	1.00	2.00	.30	700	.5	100	2,000	2.0	N
CL286S	68 14 32	151 55 0	5.0	2.00	5.00	.30	1,000	N	100	5,000	3.0	N
CL287S	68 14 30	152 4 50	5.0	1.00	5.00	.50	700	N	100	1,000	3.0	N
CL288S	68 16 52	152 8 28	7.0	.70	1.00	.50	1,500	N	100	1,500	5.0	N
CL289S	68 15 33	152 14 10	.5	5.00	20.00	.05	100	N	10	50	N	N
CL290S	68 14 32	152 17 25	5.0	1.00	1.00	.50	700	N	100	700	3.0	N
CL291S	68 14 48	152 18 10	7.0	2.00	7.00	.50	1,000	N	100	700	3.0	N
CL292S	68 16 45	152 24 42	7.0	2.00	5.00	.50	1,000	N	150	1,000	5.0	N
CL293S	68 20 20	152 26 8	1.0	2.00	20.00	.10	200	.5	30	1,000	N	N
CL294S	68 10 18	151 55 0	1.0	2.00	20.00	.10	150	.5	30	1,000	N	N
CL295S	68 7 55	152 8 40	2.0	.50	.20	.30	700	N	30	700	2.0	N
CL296S	68 8 30	152 16 15	7.0	.70	.30	.50	1,000	N	100	700	1.0	N
CL297S	68 10 20	152 26 5	5.0	.50	.20	.30	1,000	N	100	500	1.0	N
CL298S	68 11 33	152 6 15	7.0	1.00	.20	.50	1,500	N	150	700	2.0	N
CL299S	68 12 32	152 39 25	5.0	.50	.10	.30	1,000	N	100	700	2.0	N
CL300S	68 9 35	155 22 0	7.0	1.00	.10	.50	1,000	N	150	700	3.0	N
CL307S	68 3 3	151 55 10	5.0	1.00	2.00	.50	1,000	N	100	1,500	3.0	N
CL308S	68 1 35	151 23 25	7.0	5.00	5.00	.70	1,000	N	100	3,000	3.0	N

Spectrographic and Atomic Absorption Analysis of Stream Sediments

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s
CL256S	50	150	70	50	N	N	150	50	30	100	300	70	200
CL257S	20	100	30	N	N	N	70	10	10	N	200	20	N
CL258S	30	100	30	N	N	N	70	20	15	N	200	30	N
CL259S	30	150	30	30	N	N	100	50	15	N	300	70	<200
CL260S	20	100	30	20	N	N	70	30	15	N	300	50	<200
CL261S	50	150	50	20	N	N	100	100	15	N	300	50	<200
CL264S	50	200	100	50	10	N	150	70	20	200	500	70	300
CL265S	50	200	50	50	N	N	150	70	20	100	300	70	200
CL266S	20	150	30	20	N	N	70	30	15	100	200	20	N
CL267S	70	150	50	30	N	N	100	150	20	100	300	50	1,000
CL268S	50	150	30	30	N	N	70	50	20	100	200	30	200
CL269S	70	200	50	70	N	20	200	30	30	300	300	70	300
CL270S	30	200	30	20	N	N	70	30	15	N	200	30	<200
CL271S	20	100	30	20	N	N	70	30	15	N	200	30	<200
CL272S	30	150	30	20	N	N	70	30	15	N	200	30	<200
CL273S	50	150	50	20	N	N	100	50	20	N	300	50	<200
CL274S	30	100	30	20	N	N	70	20	15	N	200	30	<200
CL275S	30	150	20	20	N	N	70	100	15	N	200	30	1,000
CL276S	30	100	30	20	N	N	70	50	15	N	200	30	700
CL277S	50	150	30	50	N	N	100	50	20	200	300	50	200
CL278S	30	150	30	20	N	N	100	70	20	N	300	30	<200
CL279S	50	150	50	20	N	N	100	50	20	100	200	50	200
CL280S	20	100	30	20	N	N	50	20	15	N	200	20	<200
CL281S	30	150	70	20	N	N	100	50	20	N	300	30	<200
CL282S	10	100	30	N	N	N	70	20	15	500	200	70	200
CL283S	10	150	30	N	N	N	100	20	10	300	200	70	200
CL284S	5	100	10	N	N	N	50	30	5	300	100	30	<200
CL285S	20	150	50	20	15	N	100	20	15	200	300	70	<200
CL286S	20	150	30	20	N	N	100	20	20	300	300	70	<200
CL287S	20	150	30	20	N	N	100	<10	20	300	300	70	200
CL288S	50	150	30	30	N	N	100	50	30	100	300	70	200
CL289S	N	50	5	N	N	N	20	50	N	200	50	20	<200
CL290S	30	150	30	30	N	N	100	50	20	100	300	70	<200
CL291S	30	200	30	30	N	N	150	50	20	300	300	70	200
CL292S	30	150	30	30	N	N	100	50	20	200	300	70	200
CL293S	10	70	20	N	N	N	70	<10	5	300	150	50	<200
CL294S	5	100	20	N	N	N	70	<10	5	300	100	50	<200
CL295S	15	70	30	20	N	N	50	30	10	N	150	20	<200
CL296S	30	150	100	N	N	N	70	50	20	100	200	30	<200
CL297S	30	100	30	N	N	N	70	50	15	100	200	30	<200
CL298S	30	150	50	N	N	N	70	50	20	100	200	30	200
CL299S	20	100	30	N	N	N	70	20	15	100	200	30	<200
CL300S	50	150	50	20	N	N	100	50	20	100	200	50	<200
CL307S	50	200	30	50	N	N	100	50	20	200	200	50	500
CL308S	50	300	30	100	N	20	150	30	20	200	200	70	200

Spectrographic and Atomic Absorption Analysis of Stream Sediments

Sample	Zr-ppm s	Au-ppm aa	Cu-ppm aa	Zn-ppm aa	Sb-ppm aaa	Cd-ppm aa	As-ppm aa
CL256S	300	N	45	120	<1	.40	10
CL257S	150	N	15	40	<1	.15	10
CL258S	200	N	20	45	<1	.15	5
CL259S	200	N	25	170	<1	2.40	15
CL260S	200	N	30	60	<1	.65	20
CL261S	300	N	40	120	<1	1.00	25
CL264S	200	N	55	400	<1	4.90	20
CL265S	200	N	45	130	<1	.70	20
CL266S	200	N	15	40	<1	.30	5
CL267S	200	N	45	900	<1	10.00	20
CL268S	200	N	20	400	<1	3.00	10
CL269S	200	N	30	160	<1	1.40	5
CL270S	200	N	15	50	<1	.35	10
CL271S	200	N	10	100	<1	.50	5
CL272S	200	N	15	50	<1	.25	10
CL273S	200	N	55	110	<1	.45	15
CL274S	200	N	15	45	<1	.40	10
CL275S	200	N	15	700	<1	7.50	5
CL276S	150	N	20	300	<1	2.80	10
CL277S	300	N	30	80	<1	.30	10
CL278S	200	N	35	100	<1	.25	10
CL279S	200	N	35	80	<1	.35	10
CL280S	150	N	20	60	<1	.30	5
CL281S	300	N	35	110	<1	.20	5
CL282S	100	N	20	110	<1	1.40	5
CL283S	100	N	25	190	<1	2.80	5
CL284S	30	N	10	80	<1	1.80	<5
CL285S	200	N	55	200	<1	1.80	10
CL286S	200	N	40	190	<1	1.80	10
CL287S	200	N	25	160	<1	.60	15
CL288S	200	N	25	170	<1	1.70	15
CL289S	20	N	10	40	<1	--	<5
CL290S	300	N	35	120	<1	.20	5
CL291S	200	N	25	110	<1	.60	5
CL292S	200	N	30	130	<1	.35	5
CL293S	50	N	10	80	<1	2.30	5
CL294S	70	N	15	110	<1	2.90	<5
CL295S	100	N	15	40	<1	.15	10
CL296S	200	N	40	90	<1	.15	5
CL297S	200	N	35	90	<1	.15	5
CL298S	200	N	40	100	<1	.15	5
CL299S	150	N	20	50	1	.15	5
CL300S	200	N	45	100	<1	.15	5
CL307S	200	N	25	190	<1	1.20	5
CL308S	200	N	25	120	<1	.80	5

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Cd-ppm s
CL309S	68 1 25	151 54 55	7.0	1.00	1.00	.50	1,500	N	200	1,500	5.0	30
CL310S	68 1 12	152 2 47	5.0	.50	.20	.50	1,000	N	100	700	3.0	N
CL311S	68 1 10	152 16 4	5.0	1.00	3.00	.50	1,500	N	200	300	7.0	N
CL312S	68 1 47	152 40 45	5.0	.20	.10	.50	1,500	N	100	700	5.0	N
CL313S	68 1 46	152 47 2	7.0	.10	.05	.50	1,000	N	100	700	7.0	N
CL314S	68 1 25	152 58 20	5.0	.30	.20	.50	1,500	N	150	1,000	5.0	N
CL317S	68 3 2	152 40 0	7.0	.30	.20	.50	1,500	N	150	1,000	7.0	N
CL318S	68 6 8	152 28 32	5.0	.20	.20	.50	1,000	N	70	500	3.0	N
CL319S	68 6 0	152 26 25	5.0	.30	.20	.50	1,000	N	70	700	3.0	N
CL320S	68 2 20	152 19 32	5.0	.20	.10	.30	1,500	N	70	1,000	5.0	30
CL321S	68 3 20	151 46 25	5.0	.50	.20	.30	1,500	N	70	700	3.0	N
CL322S	68 1 15	151 43 5	5.0	1.00	2.00	.50	1,000	N	100	1,000	5.0	N
CL323S	68 1 30	151 36 38	7.0	.20	.10	.50	3,000	N	100	700	7.0	30
CL324S	68 1 15	151 36 25	7.0	.30	.15	.50	1,500	N	100	700	7.0	N
CL325S	68 5 18	151 37 3	5.0	.50	.10	.30	1,000	N	50	500	2.0	N
CL326S	68 6 35	151 32 15	7.0	.50	.10	.70	1,000	N	150	700	5.0	N
CL327S	68 6 10	151 23 10	7.0	.70	.20	.70	700	.5	150	700	5.0	N
CL328S	68 3 15	151 17 52	5.0	.30	.20	.50	1,000	N	100	700	3.0	N
CL329S	68 3 13	151 10 35	7.0	.50	.20	.70	2,000	N	200	1,000	5.0	N
CL330S	68 3 38	151 11 50	5.0	.50	.20	.50	700	N	100	700	2.0	N
CL331S	68 2 18	150 58 25	5.0	.70	.20	.50	700	N	150	700	3.0	N
CL332S	68 2 20	150 59 25	5.0	.50	.15	.50	1,000	N	100	700	3.0	N
CL333S	68 5 55	151 5 30	3.0	.50	.10	.30	700	N	100	500	2.0	N
CL334S	68 6 0	151 11 50	5.0	.50	.10	.50	700	N	100	500	2.0	N
CL335S	68 11 43	151 41 5	3.0	1.00	10.00	.30	700	1.0	100	3,000	2.0	N
CL336S	68 14 45	151 36 50	.5	2.00	20.00	.10	100	N	15	50	N	N
CL337S	68 16 12	151 41 25	2.0	2.00	20.00	.20	500	1.0	100	500	2.0	N
CL338S	68 13 57	151 49 35	5.0	1.00	2.00	.50	700	N	200	3,000	5.0	N
CL339S	68 14 45	152 2 48	1.0	2.00	20.00	.15	200	2.0	70	300	1.0	N
CL340S	68 13 20	152 3 5	5.0	3.00	5.00	.50	1,000	N	150	700	5.0	N
CL341S	68 17 28	152 10 20	2.0	1.00	20.00	.20	700	5.0	70	1,000	2.0	N
CL342S	68 15 20	152 18 5	1.0	.50	20.00	.10	500	1.0	30	100	1.0	N
CL343S	68 17 45	152 20 0	5.0	1.00	20.00	.30	700	N	70	300	2.0	N
CL344S	68 20 33	152 22 2	7.0	1.00	10.00	.50	700	N	100	1,000	2.0	N
CL345S	68 9 33	151 55 0	7.0	1.00	2.00	.50	1,500	N	200	700	7.0	N
CL346S	68 7 35	152 6 35	7.0	1.00	.30	.50	1,000	N	100	700	5.0	N
CL347S	68 7 55	152 10 15	2.0	.50	.20	.30	500	N	70	500	2.0	N
CL348S	68 9 12	152 22 33	5.0	.30	.20	.30	700	N	70	500	2.0	N
CL349S	68 10 43	152 30 35	10.0	.70	.20	.50	1,000	N	100	500	2.0	N
CL350S	68 12 2	152 36 15	3.0	.10	.05	.20	700	N	70	300	2.0	N
CL351S	68 8 47	152 39 45	5.0	.30	.10	.50	700	N	70	500	3.0	N
CL352S	68 8 50	152 57 50	10.0	1.00	.10	.70	1,000	N	100	700	5.0	N
CL353S	68 16 35	152 49 50	7.0	.50	.10	.50	1,000	N	150	700	5.0	N
CL354S	68 18 25	152 40 30	5.0	2.00	10.00	.30	1,000	N	70	300	2.0	N
CL355S	68 20 35	152 55 58	5.0	5.00	20.00	.30	700	.5	150	>5,000	2.0	N

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s
CL309S	70	200	50	70	N	<20	150	100	30	200	200	70	1,500
CL310S	30	100	30	20	N	N	70	30	20	100	200	30	<200
CL311S	30	200	50	70	N	N	100	100	30	300	300	70	200
CL312S	50	150	50	20	N	N	100	50	20	N	200	50	300
CL313S	30	100	30	20	N	N	70	30	20	N	200	50	<200
CL314S	30	150	30	30	N	N	100	70	20	100	200	50	200
CL317S	50	150	30	20	N	N	100	30	20	N	300	50	500
CL318S	30	100	30	20	N	N	70	30	15	100	200	30	<200
CL319S	30	100	30	20	N	N	70	50	20	100	200	30	<200
CL320S	50	100	30	20	N	N	70	50	20	N	200	50	700
CL321S	20	100	30	20	N	N	70	30	15	100	200	30	<200
CL322S	30	200	30	20	N	N	100	50	20	100	200	30	<200
CL323S	50	100	30	20	N	N	100	100	20	100	200	30	1,000
CL324S	30	150	50	20	N	N	70	200	30	100	300	30	300
CL325S	30	100	30	20	N	N	70	30	15	100	200	30	<200
CL326S	30	150	50	20	N	N	70	50	20	N	200	30	<200
CL327S	50	150	50	20	N	N	70	70	20	N	200	30	<200
CL328S	20	100	300	20	N	N	70	30	15	N	200	20	<200
CL329S	50	150	70	20	N	N	100	70	30	N	300	50	<200
CL330S	30	100	30	20	N	N	70	20	15	N	200	30	<200
CL331S	30	150	30	20	N	N	70	500	20	N	200	30	<200
CL332S	15	150	30	20	N	N	70	50	20	N	200	30	<200
CL333S	15	150	30	20	N	N	50	20	15	N	200	20	<200
CL334S	20	100	30	20	N	N	70	20	15	N	200	30	<200
CL335S	15	200	30	20	N	N	70	30	15	300	200	70	<200
CL336S	N	50	5	N	N	N	20	N	N	500	50	20	<200
CL337S	10	150	30	20	N	N	70	30	10	300	200	70	<200
CL338S	20	150	50	20	N	N	100	50	20	200	300	50	<200
CL339S	10	150	30	30	N	N	70	20	7	300	200	100	<200
CL340S	30	150	30	20	N	N	70	50	20	200	200	50	<200
CL341S	10	300	30	50	N	N	100	20	7	300	300	100	700
CL342S	10	150	20	100	N	N	50	N	N	300	100	150	<200
CL343S	15	150	20	20	N	N	70	30	15	500	200	50	<200
CL344S	15	150	30	20	N	N	70	30	20	300	200	50	<200
CL345S	50	200	30	100	N	N	100	70	30	300	200	70	200
CL346S	50	150	30	70	N	N	70	70	30	300	200	50	<200
CL347S	10	70	20	20	N	N	30	20	10	N	200	20	<200
CL348S	20	70	30	20	N	N	50	20	15	200	200	30	<200
CL349S	50	150	100	50	N	N	100	50	20	N	300	50	<200
CL350S	15	50	30	20	N	N	50	10	5	N	200	10	<200
CL351S	20	100	30	50	N	N	50	30	15	200	200	30	<200
CL352S	50	200	50	50	N	N	100	50	30	200	300	50	<200
CL353S	30	150	50	20	N	N	70	30	20	N	300	50	<200
CL354S	20	100	20	20	N	N	70	20	10	300	200	20	<200
CL355S	15	200	30	20	N	N	70	30	15	700	300	50	<200

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Zr-ppm s	Au-ppm aa	Cu-ppm aa	Zn-ppm aa	Sb-ppm aaa	Cd-ppm aa	As-ppm aa
CL309S	200	N	40	570	1	5.10	10
CL310S	200	N	20	50	1	.10	10
CL311S	200	N	40	140	1	.50	10
CL312S	200	N	35	130	1	1.50	15
CL313S	200	N	20	35	1	.40	10
CL314S	200	N	25	95	2	.90	10
CL317S	200	N	30	140	1	2.90	15
CL318S	150	N	10	45	<1	1.30	5
CL319S	150	N	15	90	<1	1.00	5
CL320S	200	N	15	220	1	8.00	10
CL321S	200	N	20	45	<1	.20	10
CL322S	200	N	20	70	<1	.20	10
CL323S	300	N	30	380	<1	7.10	15
CL324S	200	N	45	180	<1	1.00	10
CL325S	150	N	25	50	<1	.15	10
CL326S	200	N	30	90	<1	.35	10
CL327S	200	N	35	85	<1	.15	10
CL328S	200	N	20	55	<1	.30	10
CL329S	300	N	45	110	<1	.50	10
CL330S	200	N	20	50	<1	.20	10
CL331S	200	N	40	100	<1	.30	10
CL332S	200	N	30	140	<1	.80	10
CL333S	150	N	20	55	<1	.20	5
CL334S	150	N	20	55	<1	.20	5
CL335S	150	N	25	160	<1	3.20	10
CL336S	30	N	5	55	<1	1.20	<5
CL337S	100	N	15	150	<1	3.00	5
CL338S	200	N	35	140	<1	1.00	10
CL339S	70	N	15	170	<1	6.00	5
CL340S	200	N	30	110	<1	1.30	10
CL341S	100	N	25	250	1	8.00	5
CL342S	20	N	10	70	<1	2.80	<5
CL343S	100	N	25	90	<1	1.30	5
CL344S	150	N	30	95	<1	1.00	10
CL345S	200	N	50	160	<1	1.30	15
CL346S	200	N	45	90	<1	.30	10
CL347S	150	N	15	35	<1	.10	5
CL348S	150	N	20	110	<1	1.50	10
CL349S	300	N	40	100	<1	.20	5
CL350S	200	N	20	70	<1	.65	10
CL351S	300	N	20	55	<1	.20	5
CL352S	200	N	55	110	<1	.20	5
CL353S	200	N	45	75	<1	.30	5
CL354S	150	N	10	75	<1	.45	5
CL355S	100	N	40	110	<1	.75	<5

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Cd-ppm s
CL356S	68 22 48	152 52 10	5.0	3.00	5.00	.30	1,000	.5	150	>5,000	5.0	N
CL357S	68 22 15	152 19 30	2.0	2.00	10.00	.20	2,000	N	100	5,000	2.0	N
CL358S	68 9 42	152 5 50	5.0	.50	.10	.50	1,000	.5	70	700	5.0	N
CL359S	68 10 20	152 15 15	7.0	.50	.10	.50	1,000	N	100	700	5.0	N
CL360S	68 10 55	152 21 0	7.0	.50	.10	.50	1,000	N	100	700	5.0	N
CL361S	68 12 3	152 28 7	7.0	.50	.10	.50	1,500	N	200	700	5.0	N
CL362S	68 6 2	152 43 32	5.0	.50	.10	.50	1,500	N	100	700	5.0	N
CL363S	68 6 55	152 55 50	7.0	1.00	.10	.70	1,500	N	200	700	5.0	N
CL364S	68 12 32	152 52 0	5.0	1.00	.10	.50	700	N	100	500	2.0	N
CL365S	68 13 20	152 45 35	5.0	.70	.20	.50	700	N	100	700	2.0	N
CL366S	68 15 20	152 35 2	5.0	.50	.10	.50	1,000	N	100	700	2.0	N
CL367S	68 15 40	152 34 50	7.0	1.00	1.00	.50	1,500	N	200	1,000	7.0	N
CL368S	68 19 30	152 16 0	3.0	.50	5.00	.30	1,000	N	100	5,000	2.0	N
CL369S	68 13 12	151 27 38	5.0	1.00	20.00	.50	1,000	N	100	700	5.0	N
CL370S	68 15 20	151 27 12	2.0	.10	.20	.30	500	N	70	700	2.0	N
CL371S	68 17 20	151 20 35	2.0	.70	10.00	.30	1,000	N	100	2,000	2.0	N
CL372S	68 18 22	151 41 8	1.0	2.00	20.00	.10	200	N	30	200	1.0	N
CL373S	68 18 53	151 46 42	.5	1.00	>20.00	.10	100	7.0	50	700	1.0	N
CL374S	68 18 5	151 54 32	2.0	2.00	10.00	.30	1,000	N	150	2,000	2.0	N
CL375S	68 6 48	152 11 2	5.0	.30	.20	.50	1,000	N	100	500	2.0	N
CL376S	68 4 35	152 14 1	7.0	1.00	.20	.50	1,000	N	100	700	5.0	N
CL377S	68 6 23	152 18 57	5.0	.50	.20	.50	1,000	N	70	500	2.0	N
CL378S	68 4 25	151 52 56	7.0	.70	.20	.70	700	N	200	700	5.0	N
CL379S	68 8 32	151 57 30	.5	.50	>20.00	.05	200	N	20	100	1.0	N
CL380S	68 8 10	151 11 5	2.0	5.00	20.00	.20	200	N	70	3,000	2.0	N
CL381S	68 9 26	150 58 33	.5	5.00	>20.00	.05	200	N	20	1,500	1.0	N
CL382S	68 15 7	151 13 52	5.0	2.00	7.00	.30	1,000	N	70	700	2.0	N
CL383S	68 12 11	151 15 28	1.0	1.00	20.00	.10	100	N	10	100	N	N
CL384S	68 14 0	151 16 0	2.0	.15	.20	.30	700	N	70	500	2.0	N
CL385S	68 15 22	151 7 23	3.0	3.00	10.00	.30	500	N	100	700	2.0	N
CL386S	68 19 41	151 12 2	1.0	3.00	20.00	.10	200	N	30	100	1.0	N
CL387S	68 19 58	150 56 32	2.0	.10	.20	.30	150	N	50	300	1.0	N
CL388S	68 15 57	151 0 54	2.0	1.00	3.00	.30	500	N	100	1,000	1.0	N
CL389S	68 11 8	151 7 50	1.0	5.00	20.00	.10	200	.5	70	500	1.0	N
CL390S	68 11 13	151 6 50	5.0	2.00	5.00	.50	200	1.0	200	>5,000	3.0	N
CL391S	68 14 8	150 53 32	2.0	.20	.20	.30	700	N	70	500	1.0	N
CL392S	68 13 35	150 56 40	5.0	.20	.20	.50	500	N	100	500	2.0	N
CL393S	68 12 36	150 56 0	3.0	2.00	20.00	.30	500	N	70	300	2.0	N
CL394S	68 8 33	150 58 8	1.0	2.00	20.00	.20	500	N	70	1,000	1.0	N
CL401S	68 16 0	152 18 50	7.0	.30	.20	.50	1,000	N	200	700	5.0	N
CL402S	68 15 46	152 43 30	7.0	.30	.10	.50	1,500	N	200	700	5.0	N
CL403S	68 18 35	152 18 45	7.0	1.00	2.00	.50	2,000	N	200	700	7.0	N
CL404S	68 19 35	152 55 0	7.0	2.00	20.00	.50	1,000	N	150	700	5.0	N
CL405S	68 22 48	152 51 0	7.0	3.00	20.00	.30	1,000	.5	150	3,000	3.0	N
CL406S	68 25 20	152 50 0	5.0	1.00	.50	.30	2,000	N	70	1,000	2.0	N

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s
CL356S	30	150	100	30	N	N	100	50	15	500	300	50	200
CL357S	15	100	30	20	N	N	70	20	10	300	200	50	<200
CL358S	20	150	30	30	N	N	70	30	15	100	200	30	<200
CL359S	50	150	30	30	N	N	100	50	20	N	200	50	<200
CL360S	50	150	50	20	N	N	100	50	20	N	200	50	<200
CL361S	50	200	50	20	N	N	100	50	20	N	300	50	<200
CL362S	50	150	30	100	N	N	100	30	15	N	200	30	<200
CL363S	50	200	50	100	N	N	100	70	20	200	300	50	<200
CL364S	30	150	30	70	N	N	100	10	20	200	200	50	<200
CL365S	20	100	30	20	N	N	100	10	15	N	300	30	<200
CL366S	20	70	30	20	N	N	100	20	10	N	300	20	<200
CL367S	50	150	50	50	N	N	150	50	20	N	300	50	200
CL368S	20	100	30	20	N	N	100	10	10	100	200	70	300
CL369S	20	150	50	20	N	N	100	50	15	300	200	50	<200
CL370S	15	100	30	20	N	N	70	<10	10	100	150	20	<200
CL371S	15	100	30	20	N	N	70	<10	10	100	200	30	<200
CL372S	5	70	10	20	N	N	70	N	N	500	100	30	<200
CL373S	N	200	20	100	N	N	100	<10	N	700	300	200	300
CL374S	20	150	30	50	N	N	100	20	15	300	300	50	<200
CL375S	30	100	30	20	N	N	100	20	15	N	300	20	<200
CL376S	50	150	30	50	N	N	100	20	20	N	300	50	<200
CL377S	20	100	30	N	N	N	100	20	15	N	200	20	<200
CL378S	30	200	50	70	N	<20	100	50	30	100	300	50	<200
CL379S	N	150	10	N	N	N	50	N	N	500	100	30	<200
CL380S	15	150	30	N	N	N	100	30	10	300	200	50	<200
CL381S	5	70	10	N	N	N	70	<10	5	200	70	30	<200
CL382S	30	100	30	20	5	N	100	30	15	200	150	30	<200
CL383S	5	70	5	N	N	N	20	N	N	300	50	15	N
CL384S	30	50	30	20	N	N	70	30	10	N	150	30	300
CL385S	20	150	30	20	N	N	100	30	15	200	150	30	<200
CL386S	10	70	5	20	N	N	20	10	5	300	70	30	N
CL387S	10	50	20	20	N	N	70	N	5	N	150	20	<200
CL388S	15	100	30	20	N	N	70	30	10	100	200	30	<200
CL389S	5	150	30	20	N	N	100	20	5	300	100	30	<200
CL390S	20	200	50	50	N	N	100	50	20	700	200	70	200
CL391S	20	100	30	20	N	N	50	<10	10	100	200	30	<200
CL392S	20	150	30	50	N	N	70	<10	15	100	200	30	<200
CL393S	20	150	30	50	N	N	100	30	15	300	200	50	<200
CL394S	10	150	20	20	N	N	70	20	10	300	100	50	<200
CL401S	50	200	70	50	N	N	100	30	20	100	300	70	<200
CL402S	50	150	50	50	N	N	100	30	20	100	200	70	<200
CL403S	70	200	70	50	N	N	100	50	20	200	200	70	200
CL404S	30	200	30	50	N	N	100	30	20	300	200	70	<200
CL405S	20	200	200	50	5	N	100	30	20	300	200	70	<200
CL406S	30	100	30	20	N	N	100	20	15	100	200	50	<200

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Zr-ppm s	Au-ppm aa	Cu-ppm aa	Zn-ppm aa	Sb-ppm aaa	Cd-ppm aa	As-ppm aa
CL356S	150	N	50	180	<1	2.50	10
CL357S	100	N	20	110	<1	1.90	5
CL358S	300	N	20	50	<1	.30	10
CL359S	200	N	40	80	<1	.45	10
CL360S	200	N	50	110	<1	--	5
CL361S	300	N	60	110	<1	.50	10
CL362S	300	N	30	70	<1	2.00	15
CL363S	300	N	65	110	<1	.25	15
CL364S	300	N	35	60	<1	.10	5
CL365S	200	N	35	60	<1	.20	5
CL366S	200	N	30	45	<1	.20	10
CL367S	200	N	50	120	<1	.35	15
CL368S	100	N	20	130	<1	3.30	10
CL369S	200	N	35	110	<1	.90	5
CL370S	150	N	20	25	<1	.15	<5
CL371S	100	N	20	80	<1	1.30	5
CL372S	70	N	10	70	<1	1.30	<5
CL373S	50	N	20	210	<1	1.00	5
CL374S	200	N	30	120	<1	2.40	5
CL375S	200	N	20	50	<1	.20	15
CL376S	300	N	25	70	<1	.20	5
CL377S	200	N	20	50	<1	.35	10
CL378S	300	N	45	90	<1	.25	10
CL379S	30	N	10	55	<1	2.60	5
CL380S	100	N	20	90	<1	1.20	5
CL381S	20	N	10	65	<1	1.60	10
CL382S	100	N	20	150	<1	1.70	1
CL383S	20	N	5	50	<1	1.20	<5
CL384S	100	N	25	150	<1	.80	5
CL385S	100	N	25	100	<1	.40	10
CL386S	30	N	10	50	<1	.60	<5
CL387S	100	N	10	20	<1	.10	5
CL388S	100	N	25	65	<1	.55	<5
CL389S	50	N	20	120	<1	2.70	<5
CL390S	200	N	55	170	<1	1.20	<5
CL391S	100	N	20	20	<1	.10	5
CL392S	200	N	20	35	<1	.10	<5
CL393S	100	N	20	80	<1	.80	<5
CL394S	100	N	10	70	<1	1.00	<5
CL401S	200	N	50	100	<1	.40	5
CL402S	200	N	40	75	<1	.30	5
CL403S	200	N	50	120	<1	.40	10
CL404S	200	N	30	100	<1	1.30	10
CL405S	150	N	35	120	<1	1.30	10
CL406S	150	N	20	80	<1	.65	10

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Cd-ppm s
CL407S	68 7 48	152 0 40	5.0	.70	.10	.30	700	N	70	500	1.0	N
CL408S	68 9 30	152 7 50	5.0	.50	.10	.30	1,500	N	70	500	2.0	N
CL409S	68 10 45	152 18 35	7.0	.50	.10	.50	1,000	N	150	700	5.0	N
CL410S	68 11 25	152 24 58	5.0	.20	.10	.30	1,000	N	70	300	1.0	N
CL411S	68 7 33	152 33 55	2.0	.20	.10	.30	700	N	70	300	1.0	N
CL412S	68 5 27	152 41 5	3.0	.20	.10	.30	1,000	N	70	300	1.0	N
CL413S	68 5 57	152 46 20	3.0	.20	.07	.30	1,500	N	70	500	1.0	N
CL415S	68 12 38	152 46 55	5.0	.70	.10	.30	700	N	70	300	2.0	N
CL416S	68 14 8	152 39 5	2.0	1.00	5.00	.15	200	N	20	150	1.0	N
CL417S	68 17 35	152 34 30	2.0	.70	7.00	.15	500	N	50	1,500	1.0	N
CL418S	68 19 28	152 18 15	2.0	.70	5.00	.15	700	N	50	2,000	1.0	N
CL419S	68 11 50	151 29 18	.2	3.00	20.00	.02	50	N	10	20	N	N
CL420S	68 14 13	151 57 14	2.0	.10	.10	.30	500	N	50	300	2.0	N
CL421S	68 16 27	151 22 15	2.0	.50	1.00	.30	700	N	50	300	1.0	N
CL422S	68 19 4	151 34 55	2.0	1.00	10.00	.15	500	N	70	1,000	1.0	N
CL423S	68 17 20	151 44 10	.3	1.00	20.00	.05	70	N	10	70	N	N
CL424S	68 18 0	151 57 55	.3	5.00	20.00	.05	100	1.0	20	500	N	N
CL425S	68 23 0	151 55 25	.3	5.00	20.00	.02	70	N	10	<20	N	N
CL426S	68 23 12	151 57 7	.1	2.00	20.00	.02	50	N	10	N	N	N
KR001S	68 17 35	155 56 0	5.0	.20	.10	.50	1,500	N	70	300	1.0	N
KR002S	68 18 15	155 47 20	5.0	.15	.10	.30	1,500	N	70	300	1.0	N
KR003S	68 17 0	155 48 0	7.0	.10	.05	.30	2,000	N	100	300	2.0	N
KR004S	68 16 35	155 50 50	5.0	.20	.10	.30	1,500	N	100	300	1.0	N
KR005S	68 15 30	155 51 10	5.0	.50	.10	.30	1,000	N	70	500	3.0	N
KR006S	68 15 50	155 57 25	5.0	.50	.10	.50	2,000	N	100	700	2.0	N
KR007S	68 14 50	155 57 55	5.0	.70	.10	.50	1,500	N	100	700	2.0	N
KR008S	68 14 45	155 57 0	5.0	.30	.10	.30	1,500	N	70	500	2.0	N
KR009S	68 11 50	155 53 25	5.0	.20	.10	.30	1,000	N	70	300	1.0	N
KR010S	68 12 27	155 41 0	5.0	.20	.10	.30	1,500	N	70	500	2.0	N
KR011S	68 19 35	155 32 10	5.0	.50	.10	.30	1,500	N	100	500	2.0	N
KR012S	68 20 20	155 27 10	5.0	.20	.10	.30	2,000	N	100	>5,000	2.0	N
KR013S	68 19 50	155 20 40	7.0	.50	.20	.50	2,000	N	200	>5,000	5.0	N
KR014S	68 21 5	155 14 50	5.0	.70	.30	.30	>5,000	N	100	>5,000	2.0	N
KR015S	68 16 25	155 13 55	5.0	.30	.10	.50	1,500	N	100	1,000	5.0	N
KR016S	68 16 10	155 8 20	5.0	.30	.20	.50	1,000	N	200	700	5.0	N
KR017S	68 17 8	155 6 20	5.0	.30	.10	.50	1,000	N	150	700	5.0	N
KR018S	68 17 20	154 59 0	5.0	.30	.10	.50	1,000	N	200	700	5.0	N
KR019S	68 20 50	154 53 55	5.0	.70	.30	.30	1,500	N	200	1,000	5.0	N
KR020S	68 23 15	154 53 20	5.0	.70	.20	.30	3,000	N	150	1,500	5.0	N
KR021S	68 23 55	154 48 25	5.0	.50	.20	.50	2,000	N	150	5,000	5.0	N
KR022S	68 22 45	154 46 55	5.0	.70	.20	.50	1,000	N	200	2,000	5.0	N
KR023S	68 20 0	154 44 15	5.0	.30	.20	.50	2,000	N	100	1,500	5.0	N
KR024S	68 20 35	154 47 35	5.0	.50	1.00	.30	2,000	N	200	>5,000	3.0	N
KR025S	68 22 20	154 27 45	5.0	1.00	2.00	.30	1,500	N	200	3,000	3.0	N
KR026S	68 22 20	154 20 25	5.0	1.00	1.00	.50	1,500	N	200	>5,000	3.0	N

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s
CL407S	20	100	30	50	N	N	70	20	15	N	200	30	<200
CL408S	30	100	30	20	N	N	70	30	15	N	200	30	<200
CL409S	50	150	50	50	N	N	100	50	20	N	200	50	<200
CL410S	30	150	30	20	N	N	100	30	15	100	200	30	<200
CL411S	15	50	20	N	N	N	50	<10	10	N	100	15	<200
CL412S	30	70	30	20	N	N	70	<10	10	N	150	30	<200
CL413S	30	70	30	N	N	N	70	10	10	N	150	20	<200
CL415S	20	100	30	20	N	N	70	10	15	N	200	20	<200
CL416S	10	20	10	N	N	N	20	<10	5	100	70	15	<200
CL417S	10	100	30	20	N	N	50	<10	7	200	200	50	200
CL418S	10	70	30	20	N	N	50	10	5	300	150	50	200
CL419S	N	50	5	N	N	N	10	N	N	300	20	20	<200
CL420S	20	50	30	20	N	N	50	20	10	100	150	20	<200
CL421S	15	50	30	20	N	N	50	<10	7	100	150	20	<200
CL422S	10	70	20	20	N	N	50	10	10	200	150	30	<200
CL423S	N	20	5	N	N	N	20	N	N	200	50	15	N
CL424S	N	100	20	N	N	N	70	N	N	300	150	50	N
CL425S	N	30	5	N	N	N	20	N	N	300	20	20	N
CL426S	N	50	5	N	N	N	10	N	N	200	20	20	N
KR001S	30	100	30	N	7	N	70	20	15	N	150	30	N
KR002S	30	100	30	N	N	N	70	100	15	N	150	30	700
KR003S	30	100	30	N	N	N	70	10	20	100	150	30	N
KR004S	30	70	30	N	N	N	70	10	15	N	150	30	N
KR005S	30	100	30	20	7	N	70	20	15	N	200	50	<200
KR006S	50	150	30	20	N	N	100	20	20	100	200	50	N
KR007S	30	150	30	20	N	N	100	20	30	N	200	50	N
KR008S	30	100	30	20	N	N	70	20	15	N	150	30	N
KR009S	30	100	30	20	N	N	70	20	15	N	150	30	N
KR010S	30	150	30	20	N	N	100	100	20	N	200	30	N
KR011S	30	100	30	20	5	N	70	10	15	N	150	30	N
KR012S	30	100	30	20	N	N	70	70	15	200	150	30	300
KR013S	50	150	50	70	N	N	100	100	30	200	300	50	500
KR014S	50	150	70	20	7	N	150	70	20	700	300	50	300
KR015S	50	150	50	20	N	N	100	70	30	N	300	50	200
KR016S	30	150	30	20	N	N	100	70	30	200	300	50	<200
KR017S	30	150	70	20	N	N	100	70	30	200	300	50	<200
KR018S	50	150	50	20	N	N	100	50	30	200	300	50	<200
KR019S	50	150	50	20	7	N	100	50	30	200	300	50	<200
KR020S	50	150	30	20	N	N	100	50	20	200	300	50	<200
KR021S	30	150	30	20	10	N	100	30	20	200	200	50	<200
KR022S	50	200	50	20	N	N	150	50	20	200	300	70	300
KR023S	30	150	30	20	N	N	100	50	30	200	200	70	300
KR024S	30	150	50	30	15	N	100	20	20	500	200	50	300
KR025S	30	150	50	50	7	N	100	50	20	200	200	70	200
KR026S	30	150	50	70	5	N	100	50	30	200	300	70	200

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Zr-ppm s	Au-ppm aa	Cu-ppm aa	Zn-ppm aa	Sb-ppm aaa	Cd-ppm aa	As-ppm aa
CL407S	150	N	20	50	<1	.40	10
CL408S	150	N	25	70	<1	.45	15
CL409S	200	N	50	110	<1	.40	<5
CL410S	200	N	40	110	<1	.25	10
CL411S	150	N	15	45	<1	.20	5
CL412S	150	N	20	65	<1	2.60	15
CL413S	150	N	20	70	<1	3.60	15
CL415S	200	N	20	75	<1	.50	<5
CL416S	70	N	30	75	<1	.25	<5
CL417S	70	N	10	65	<1	.50	5
CL418S	50	N	20	160	<1	3.80	5
CL419S	N	N	5	45	<1	1.30	<5
CL420S	100	N	20	95	<1	.75	5
CL421S	70	N	20	60	<1	.40	<5
CL422S	70	N	15	120	<1	1.50	<5
CL423S	20	N	5	60	<1	.80	<5
CL424S	20	N	10	110	<1	4.30	<5
CL425S	20	N	5	55	<1	1.20	<5
CL426S	N	N	5	40	<1	1.10	<5
KR001S	200	N	25	60	<1	.30	5
KR002S	150	N	35	600	<1	3.60	10
KR003S	200	N	35	50	<1	.15	10
KR004S	150	N	25	60	<1	.30	10
KR005S	200	N	35	90	<1	.40	5
KR006S	200	N	30	70	<1	.05	5
KR007S	200	N	40	110	<1	.15	5
KR008S	200	N	25	70	<1	.30	5
KR009S	150	N	25	100	<1	.45	5
KR010S	150	N	35	150	<1	.85	5
KR011S	150	N	20	90	<1	.50	5
KR012S	150	N	25	300	<1	2.20	5
KR013S	200	N	55	300	1	.65	10
KR014S	150	N	55	300	1	2.40	5
KR015S	200	N	55	150	<1	.50	5
KR016S	200	N	45	130	<1	.25	5
KR017S	200	N	60	130	<1	.40	5
KR018S	200	N	75	120	<1	.30	5
KR019S	150	N	45	130	1	1.20	5
KR020S	200	N	40	140	<1	.95	5
KR021S	200	N	30	120	<1	.45	10
KR022S	200	N	55	300	<1	1.00	5
KR023S	200	N	40	160	<1	.40	10
KR024S	200	N	55	300	<1	3.40	10
KR025S	200	N	50	140	<1	.60	10
KR026S	200	N	65	160	<1	1.30	10

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Cd-ppm s
KR027S	68 23 10	154 20 0	5.0	.50	.30	.30	1,500	N	200	>5,000	3.0	N
KR028S	68 23 37	154 18 25	7.0	7.00	2.00	.50	1,500	N	70	2,000	1.0	N
KR029S	68 24 15	154 14 0	7.0	1.50	1.00	.30	1,500	N	70	1,500	1.5	N
KR030S	68 22 12	154 15 0	5.0	1.50	2.00	.20	1,000	N	100	3,000	1.5	N
KR031S	68 21 15	154 17 35	7.0	.70	.30	.30	700	N	100	300	2.0	N
KR032S	68 21 10	154 18 10	10.0	1.00	.50	.30	1,000	N	100	500	1.5	N
KR033S	68 17 57	154 12 25	7.0	1.00	.15	.30	1,000	N	70	500	1.0	N
KR034S	68 15 34	153 58 15	3.0	1.00	.30	.30	500	N	70	300	1.0	N
KR035S	68 20 28	154 7 55	7.0	1.50	.70	.30	1,000	N	70	300	1.0	N
KR036S	68 20 30	154 7 30	7.0	1.50	3.00	.20	1,000	N	50	300	1.0	N
KR037S	68 21 48	153 58 0	7.0	1.50	1.00	.20	700	N	50	300	1.0	N
KR038S	68 20 16	153 58 10	5.0	1.50	.20	.20	700	N	70	300	1.5	N
KR039S	68 20 20	153 56 25	5.0	.70	.30	.15	700	N	70	200	1.5	N
KR040S	68 18 32	153 51 10	5.0	.70	.10	.15	700	N	70	200	1.5	N
KR041S	68 16 45	153 54 55	5.0	.50	.10	.20	500	N	70	200	1.0	N
KR042S	68 12 42	154 2 25	7.0	.70	.20	.30	700	N	70	300	1.0	N
KR043S	68 14 38	153 51 35	5.0	.70	.15	.20	200	N	100	300	1.5	N
KR044S	68 10 30	153 53 50	5.0	.70	.10	.20	500	N	100	200	1.5	N
KR045S	68 12 10	153 55 45	7.0	.30	.10	.15	1,000	N	100	300	1.5	N
KR046S	68 11 20	154 4 55	5.0	.70	.15	.20	700	N	70	300	1.5	N
KR047S	68 6 32	154 1 5	7.0	1.50	.15	.30	700	N	100	500	1.5	N
KR048S	68 7 0	153 50 15	7.0	1.00	.10	.30	500	N	100	300	1.5	N
KR049S	68 4 33	153 48 55	10.0	1.50	.10	.30	500	N	100	500	1.0	N
KR050S	68 0 5	153 51 50	5.0	1.50	.15	.50	700	N	100	500	1.5	N
KR051S	68 2 36	154 6 55	5.0	1.50	.10	.20	700	N	70	300	1.0	N
KR052S	68 2 28	154 3 55	3.0	1.00	.10	.30	500	N	70	300	1.5	N
KR053S	68 2 52	154 16 15	5.0	.70	.10	.30	700	N	70	300	1.0	N
KR054S	68 3 46	154 22 50	3.0	.70	.10	.20	500	N	100	200	1.0	N
KR055S	68 17 50	154 6 25	7.0	.50	.15	.30	1,000	N	100	500	1.5	N
KR056S	68 15 0	154 7 30	5.0	.50	.20	.50	700	N	100	300	1.0	N
KR057S	68 13 28	154 8 45	5.0	1.00	.15	.30	500	N	70	500	1.0	N
KR058S	68 12 25	154 12 35	5.0	1.00	.10	.20	1,000	N	50	300	1.5	N
KR059S	68 12 7	154 16 20	5.0	.50	.10	.30	1,000	N	70	700	1.0	N
KR060S	68 12 2	154 21 25	5.0	.30	.10	.20	1,500	N	70	700	1.5	N
KR061S	68 14 0	154 21 55	5.0	.50	.15	.20	500	N	70	700	1.5	N
KR062S	68 8 45	154 13 0	5.0	.50	.15	.20	700	N	100	200	1.5	N
KR063S	68 7 20	153 36 15	7.0	1.00	.15	.30	700	N	100	500	1.5	N
KR064S	68 9 55	153 37 35	7.0	1.50	.15	.30	500	N	100	500	1.5	N
KR065S	68 12 0	153 42 30	7.0	1.00	.15	.30	700	N	70	300	2.0	N
KR066S	68 18 25	154 34 55	5.0	.70	.15	.30	700	N	70	300	1.5	N
KR067S	68 15 25	154 35 0	7.0	1.00	.15	.30	700	N	70	1,000	1.5	N
KR068S	68 14 28	154 38 15	5.0	.70	.10	.30	500	N	70	300	1.5	N
KR069S	68 13 37	154 36 35	7.0	1.00	.30	.30	1,000	N	100	300	1.0	N
KR070S	68 14 28	154 31 5	5.0	.50	.10	.20	700	N	100	500	1.5	N
KR071S	68 11 55	154 29 35	5.0	.50	.10	.50	700	N	100	700	1.5	N

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s
KR027S	30	100	50	20	5	N	100	20	20	200	200	50	200
KR028S	50	150	100	30	10	N	100	20	30	200	300	70	200
KR029S	30	100	50	30	N	N	70	15	20	150	300	30	<200
KR030S	20	100	50	50	10	N	50	20	20	150	150	30	<200
KR031S	30	150	30	50	N	N	70	20	20	100	150	30	<200
KR032S	30	100	30	50	N	N	70	30	20	150	200	30	N
KR033S	30	150	30	30	N	N	70	50	20	100	150	30	<200
KR034S	15	70	20	20	N	N	50	15	15	N	100	20	N
KR035S	20	150	20	N	N	N	70	30	15	N	150	30	N
KR036S	20	100	15	30	N	N	70	10	15	100	150	30	N
KR037S	20	70	20	30	N	N	50	15	15	N	150	30	N
KR038S	20	100	30	N	N	N	50	15	15	N	150	30	N
KR039S	20	70	20	70	N	N	50	10	15	N	100	20	N
KR040S	20	70	30	50	N	N	30	15	15	100	150	20	N
KR041S	20	70	30	30	N	N	50	10	15	N	150	20	N
KR042S	30	100	30	30	N	N	70	15	15	N	150	30	N
KR043S	20	70	15	30	N	N	50	15	15	N	200	20	N
KR044S	20	100	20	30	N	N	70	10	15	N	200	30	N
KR045S	30	100	30	30	N	N	70	20	15	100	200	30	N
KR046S	20	70	20	30	N	N	50	15	15	N	150	30	N
KR047S	30	100	30	30	N	N	70	15	20	100	200	50	N
KR048S	30	150	50	N	N	N	70	20	30	150	200	30	<200
KR049S	30	150	30	70	N	N	70	15	30	150	300	50	<200
KR050S	30	100	20	50	N	N	70	15	15	N	200	30	N
KR051S	20	100	15	30	N	N	50	15	15	N	150	20	N
KR052S	20	70	15	30	N	N	50	10	15	N	150	20	N
KR053S	20	100	30	30	N	N	70	15	15	N	150	20	N
KR054S	20	70	20	20	N	N	50	15	15	N	150	15	N
KR055S	20	150	30	30	N	N	70	30	20	150	200	30	<200
KR056S	30	150	30	30	N	N	70	20	15	100	200	15	N
KR057S	20	100	15	30	N	N	50	10	15	100	150	30	N
KR058S	20	70	20	N	N	N	50	15	15	<100	150	20	N
KR059S	30	100	20	30	N	N	50	30	15	100	150	20	N
KR060S	20	70	30	N	N	N	70	20	15	100	150	20	<200
KR061S	30	100	30	30	N	N	50	15	20	150	200	30	N
KR062S	20	100	20	30	N	N	50	15	20	150	200	20	N
KR063S	20	100	30	30	N	N	50	15	15	100	200	30	N
KR064S	30	150	30	50	N	N	50	15	20	N	150	30	<200
KR065S	30	100	30	N	N	N	70	15	15	N	150	20	N
KR066S	20	150	20	N	N	N	50	15	15	N	100	20	<200
KR067S	30	100	30	N	N	N	70	15	15	N	150	20	N
KR068S	20	150	20	30	N	N	70	10	15	100	150	30	N
KR069S	20	150	30	N	N	N	70	15	15	N	100	20	N
KR070S	30	100	30	N	N	N	70	10	15	100	150	30	N
KR071S	20	150	50	20	N	N	70	30	15	N	150	30	<200

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Zr-ppm s	Au-ppm aa	Cu-ppm aa	Zn-ppm aa	Sb-ppm aaa	Cd-ppm aa	As-ppm aa
KR027S	200	N	65	160	<1	.70	10
KR028S	200	N	100	130	<1	.20	<5
KR029S	150	N	75	120	<1	.45	<5
KR030S	150	N	55	130	<1	1.10	15
KR031S	150	N	45	120	<1	.15	10
KR032S	150	N	40	100	<1	.20	5
KR033S	150	N	40	100	<1	.15	5
KR034S	150	N	20	70	<1	.30	5
KR035S	200	N	25	90	<1	.20	5
KR036S	100	N	20	85	<1	.30	5
KR037S	150	N	25	90	<1	.35	5
KR038S	200	N	20	75	<1	.20	5
KR039S	150	N	30	100	<1	.30	10
KR040S	150	N	30	75	<1	.20	5
KR041S	150	N	30	80	<1	.30	10
KR042S	150	N	30	80	<1	.20	5
KR043S	150	N	20	50	<1	.10	5
KR044S	200	N	30	75	<1	.15	5
KR045S	150	N	30	80	<1	.75	10
KR046S	150	N	30	90	<1	.25	10
KR047S	150	N	40	110	<1	.20	5
KR048S	150	N	55	130	<1	.20	5
KR049S	150	N	45	120	<1	.20	5
KR050S	200	N	35	110	<1	.25	10
KR051S	150	N	30	95	<1	.45	10
KR052S	150	N	35	100	<1	.30	5
KR053S	150	N	30	90	<1	.40	10
KR054S	150	N	25	85	<1	.30	10
KR055S	150	N	45	110	<1	.25	10
KR056S	150	N	45	100	<1	.15	10
KR057S	150	N	30	75	<1	.10	5
KR058S	150	N	40	90	<1	.30	10
KR059S	150	N	35	110	<1	.55	15
KR060S	150	N	40	120	<1	.65	15
KR061S	200	N	30	70	<1	.10	5
KR062S	150	N	40	85	<1	.15	10
KR063S	150	N	40	100	<1	.20	5
KR064S	150	N	55	110	<1	.15	10
KR065S	200	N	45	100	<1	.20	10
KR066S	150	N	50	120	<1	.35	10
KR067S	150	N	45	90	<1	.20	5
KR068S	150	N	40	75	<1	.20	5
KR069S	150	N	45	95	<1	.15	5
KR070S	150	N	45	110	<1	.20	10
KR071S	150	N	50	130	<1	.50	15

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Cd-ppm s
KR072S	68 9 18	154 33 10	3.0	.30	.10	.30	1,000	N	70	500	1.5	N
KR073S	68 9 53	154 19 40	7.0	.20	.05	.30	1,500	N	70	500	1.5	N
KR074S	68 6 19	154 33 0	7.0	.70	.10	.30	1,000	N	70	300	1.5	N
KR075S	68 7 40	154 39 35	7.0	1.50	.15	.30	500	N	100	300	1.5	N
KR076S	68 10 5	154 44 0	5.0	1.00	.10	.30	700	N	150	300	1.5	N
KR077S	68 8 17	154 21 20	10.0	1.50	.15	.30	700	N	100	500	1.5	N
KR078S	68 9 10	154 53 50	5.0	.50	.15	.20	1,000	N	100	300	1.5	N
KR079S	68 9 11	154 54 50	5.0	.50	.10	.30	1,000	N	100	500	1.5	N
KR080S	68 10 45	153 32 55	7.0	1.00	.10	.30	500	N	70	500	1.5	N
KR081S	68 10 50	153 32 5	5.0	1.00	.10	.30	700	N	100	500	1.5	N
KR082S	68 12 30	153 28 5	5.0	1.00	.15	.20	700	N	70	300	1.5	N
KR083S	68 11 0	153 23 35	7.0	.70	.15	.30	700	N	100	500	1.5	N
KR084S	68 12 25	153 22 40	7.0	1.50	.20	.30	700	N	100	300	1.5	N
KR085S	68 12 35	153 16 10	5.0	1.00	.10	.30	1,000	N	100	300	1.5	N
KR086S	68 12 10	153 7 58	7.0	1.00	.10	.30	1,000	N	150	500	1.5	N
KR087S	68 9 50	153 5 40	7.0	1.00	.15	.50	700	N	150	500	1.5	N
KR088S	68 13 40	153 4 10	3.0	.70	.07	.30	500	N	100	300	1.5	N
KR089S	68 9 10	153 9 5	7.0	1.00	.10	.50	700	N	100	500	1.5	N
KR090S	68 7 45	153 16 35	5.0	1.00	.10	.30	700	N	70	500	1.5	N
KR091S	68 7 58	153 22 55	7.0	1.50	.10	.30	700	N	100	700	1.5	N
KR092S	68 15 25	153 43 35	1.5	.70	.10	.20	300	N	50	200	1.0	N
KR093S	68 16 45	153 44 0	3.0	.50	.10	.30	700	N	70	300	1.5	N
KR094S	68 4 0	153 32 12	5.0	.15	.10	.20	700	N	50	300	1.0	N
KR095S	68 1 25	153 29 50	3.0	.20	.15	.20	700	N	70	300	1.5	N
KR096S	68 0 0	153 20 35	3.0	.30	.15	.20	500	N	70	300	1.0	N
KR097S	68 4 40	153 6 35	2.0	.30	<.05	.15	1,000	N	50	200	1.0	N
KR098S	68 5 2	153 16 55	3.0	.20	.05	.15	1,000	N	50	300	1.0	N
KR099S	68 6 28	153 24 0	3.0	.50	.07	.30	1,000	N	50	300	1.5	N
KR100S	68 10 34	153 53 45	5.0	1.50	.10	.30	1,000	N	70	500	1.5	N
KR101S	68 11 37	153 57 50	2.0	.70	.15	.20	700	N	50	150	1.5	N
KR102S	68 7 15	154 2 25	5.0	1.50	.15	.30	1,000	N	100	300	1.5	N
KR103S	68 7 30	153 57 30	3.0	.70	.10	.20	1,000	N	100	200	1.5	N
KR104S	68 6 45	153 48 0	7.0	.70	.15	.30	1,000	N	150	500	1.5	N
KR105S	68 6 18	153 44 25	7.0	1.00	.20	.30	1,000	N	100	500	1.5	N
KR106S	68 4 12	153 50 25	2.0	1.00	.10	.30	1,000	N	100	300	1.5	N
KR107S	68 1 25	153 56 30	2.0	.30	.10	.20	1,000	N	100	200	1.0	N
KR108S	68 2 0	153 58 15	7.0	.70	.15	.30	1,000	N	100	300	1.0	N
KR109S	68 5 20	154 11 55	7.0	.70	.15	.20	1,000	N	100	300	1.5	N
KR110S	68 4 47	154 15 40	3.0	.70	.10	.50	1,000	N	100	500	2.0	N
KR111S	68 8 6	154 23 15	3.0	.30	.10	.30	1,500	N	70	300	1.5	N
KR112S	68 16 4	154 6 0	7.0	1.00	.15	.70	1,000	N	150	700	2.0	N
KR113S	68 15 0	154 12 40	3.0	1.00	.15	.50	500	N	70	500	1.5	N
KR114S	68 12 40	154 10 20	3.0	.50	.10	.30	1,000	N	100	500	1.5	N
KR115S	68 12 25	154 12 32	5.0	.70	.10	.50	1,500	N	100	500	1.5	N
KR116S	68 11 58	154 19 20	5.0	.30	.07	.30	1,500	N	100	1,000	2.0	N

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s
KR072S	20	100	15	30	N	N	50	15	10	N	150	30	<200
KR073S	30	150	20	N	N	N	50	30	15	200	150	30	N
KR074S	30	150	30	30	N	N	70	15	15	N	200	30	N
KR075S	30	150	50	50	N	N	70	20	20	100	200	30	N
KR076S	20	100	20	30	N	N	50	15	15	100	150	30	N
KR077S	30	200	30	70	N	N	70	10	30	<100	200	30	<200
KR078S	20	100	30	20	N	N	70	30	15	100	150	20	N
KR079S	30	100	30	50	N	N	70	50	20	100	200	30	300
KR080S	20	100	30	50	N	N	50	30	30	100	200	30	200
KR081S	20	100	50	50	N	N	50	15	20	100	150	30	<200
KR082S	20	70	30	30	N	N	50	20	15	<100	150	20	<200
KR083S	20	100	50	30	N	N	50	30	15	100	150	30	<200
KR084S	30	150	70	50	N	N	70	30	20	100	200	30	<200
KR085S	30	100	50	30	N	N	50	20	20	<100	150	30	<200
KR086S	30	150	70	30	N	N	70	30	20	100	150	30	<200
KR087S	20	100	50	30	N	N	70	30	15	100	150	30	<200
KR088S	20	70	30	N	N	N	50	15	15	N	150	30	N
KR089S	20	100	30	N	N	N	70	30	15	N	150	30	<200
KR090S	20	70	50	N	N	N	50	20	15	100	150	30	<200
KR091S	30	150	50	30	N	N	70	20	20	150	300	30	<200
KR092S	15	70	15	20	N	N	30	10	15	N	150	20	N
KR093S	20	70	20	N	N	N	50	15	15	N	150	20	N
KR094S	20	70	15	N	N	N	50	15	15	N	150	20	<200
KR095S	15	70	10	N	N	N	50	10	15	N	150	20	N
KR096S	20	70	15	N	N	N	50	10	15	N	200	20	N
KR097S	15	50	15	20	N	N	30	10	10	N	70	20	N
KR098S	20	70	30	20	N	N	50	15	10	100	100	20	<200
KR099S	30	70	30	30	N	N	50	20	15	100	150	20	N
KR100S	30	100	50	50	N	N	70	15	20	100	200	30	N
KR101S	20	70	20	30	N	N	50	15	15	N	150	20	<200
KR102S	30	100	30	50	N	N	70	15	20	100	150	30	N
KR103S	20	70	30	30	N	N	50	10	15	N	150	30	N
KR104S	30	150	70	30	N	N	70	20	30	150	200	30	<200
KR105S	30	150	70	50	N	N	70	20	30	150	300	30	<200
KR106S	30	100	50	30	N	N	70	15	20	150	200	30	<200
KR107S	20	100	20	N	N	N	50	10	10	N	150	20	<200
KR108S	30	100	30	N	N	N	50	15	15	100	200	30	N
KR109S	20	70	20	N	N	N	50	20	15	<100	200	30	N
KR110S	30	100	30	N	N	N	70	15	15	N	200	30	<200
KR111S	20	70	20	20	N	N	50	15	15	<100	150	20	N
KR112S	30	150	70	30	N	N	70	20	20	<100	200	30	<200
KR113S	15	100	20	20	N	N	50	15	15	N	150	30	N
KR114S	20	70	20	N	N	N	50	15	15	N	150	20	N
KR115S	30	100	30	20	N	N	70	30	15	N	200	30	N
KR116S	20	70	30	N	N	N	50	20	15	N	150	30	N

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Zr-ppm s	Au-ppm aa	Cu-ppm aa	Zn-ppm aa	Sb-ppm aaa	Cd-ppm aa	As-ppm aa
KR072S	150	N	30	120	<1	.60	15
KR073S	300	N	35	110	3	.70	20
KR074S	150	N	40	100	<1	.30	10
KR075S	150	N	55	130	<1	.20	10
KR076S	200	N	45	80	<1	.25	5
KR077S	100	N	50	110	<1	.10	10
KR078S	150	N	45	100	1	.35	15
KR079S	200	N	50	200	1	.90	15
KR080S	150	N	50	120	<1	.20	5
KR081S	200	N	55	130	<1	.20	10
KR082S	150	N	55	150	<1	.15	10
KR083S	150	N	60	150	<1	.20	10
KR084S	150	N	65	150	<1	.20	10
KR085S	200	N	50	140	<1	.20	10
KR086S	150	N	50	130	1	.25	10
KR087S	150	N	60	180	5	.20	25
KR088S	150	N	30	80	<1	.25	10
KR089S	150	N	50	140	1	.20	15
KR090S	150	N	45	120	1	.20	10
KR091S	150	N	50	130	1	.25	10
KR092S	150	N	20	55	<1	.10	10
KR093S	200	N	30	75	<1	.45	10
KR094S	100	N	20	95	1	1.00	15
KR095S	150	N	25	80	1	.55	10
KR096S	150	N	30	85	<1	.35	10
KR097S	150	N	20	60	1	.35	15
KR098S	150	N	25	90	1	.70	15
KR099S	150	N	20	110	<1	1.20	15
KR100S	150	N	35	95	<1	.15	10
KR101S	150	N	20	75	1	.35	15
KR102S	150	N	35	110	<1	.25	10
KR103S	200	N	30	85	1	.25	10
KR104S	150	N	50	130	1	.20	10
KR105S	150	N	50	130	<1	.15	5
KR106S	150	N	35	120	<1	.20	5
KR107S	150	N	20	70	<1	.40	10
KR108S	150	N	25	100	<1	.25	10
KR109S	200	N	25	100	<1	.25	10
KR110S	200	N	30	80	<1	.25	5
KR111S	200	N	30	45	<1	.15	10
KR112S	300	N	40	80	<1	.20	5
KR113S	200	N	25	65	<1	.10	<5
KR114S	150	N	25	65	<1	.30	5
KR115S	200	N	35	90	1	.40	10
KR116S	150	N	35	125	2	.80	10

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Cd-ppm s
KR117S	68 13 35	154 20 50	5.0	.70	.10	.50	700	N	100	700	1.5	N
KR118S	68 9 25	153 39 55	7.0	1.00	.10	.50	1,000	N	150	700	2.0	N
KR119S	68 11 26	153 54 35	10.0	2.00	.15	.70	1,500	.5	150	700	3.0	N
KR120S	68 12 50	153 42 35	7.0	1.00	.15	.70	700	N	100	500	1.5	N
KR121S	68 16 25	154 36 20	10.0	.70	.10	1.00	1,000	N	150	700	2.0	N
KR122S	68 15 5	154 37 50	7.0	.30	.10	.50	1,000	N	100	500	2.0	N
KR123S	68 13 0	154 37 37	7.0	.70	.10	.70	1,500	.7	150	700	2.0	N
KR124S	68 13 28	154 38 35	5.0	.50	.10	.30	700	N	100	500	1.5	N
KR125S	68 15 37	154 32 40	5.0	.50	.15	.50	700	N	100	500	1.5	N
KR126S	68 13 32	154 31 5	7.0	.30	.07	.50	1,500	N	150	700	2.0	N
KR127S	68 8 15	154 28 32	7.0	.30	.07	.30	1,500	N	70	500	1.5	N
KR128S	68 8 22	154 38 0	7.0	.50	.10	.50	2,000	N	150	1,000	1.5	N
KR129S	68 9 42	154 42 5	5.0	.50	.10	.70	1,000	N	150	700	1.5	N
KR130S	68 9 50	154 35 55	10.0	.50	.10	.70	2,000	N	150	700	1.5	N
KR131S	68 7 45	154 50 58	7.0	1.50	.15	1.00	1,000	1.0	100	500	1.5	N
KR132S	68 8 32	155 0 12	7.0	1.50	.10	.50	1,000	N	150	500	1.5	N
KR133S	68 8 12	154 59 45	5.0	.30	.15	.50	700	N	100	500	2.0	N
KR134S	68 14 0	153 30 0	10.0	.70	.10	.70	1,000	N	100	500	1.5	N
KR135S	68 13 42	153 30 35	7.0	1.00	.10	.70	700	N	70	500	2.0	N
KR136S	68 11 40	153 29 0	5.0	.70	.20	.30	700	N	70	500	1.5	N
KR137S	68 13 28	153 25 35	7.0	.70	.15	.30	1,000	N	70	500	1.5	N
KR138S	68 13 47	153 20 35	5.0	.50	.15	.30	1,000	N	100	500	2.0	N
KR139S	68 11 22	153 15 52	7.0	1.00	.15	.70	1,000	N	150	700	2.0	N
KR140S	68 13 30	153 15 0	7.0	1.00	.15	.50	700	N	100	500	2.0	N
KR141S	68 11 13	153 4 58	3.0	1.00	.15	.70	1,000	N	150	700	2.0	N
KR142S	68 9 15	153 5 25	10.0	1.50	.20	.70	1,000	N	150	700	2.0	N
KR143S	68 9 45	153 9 0	5.0	.70	.15	.50	1,500	N	100	500	2.0	N
KR144S	68 8 2	153 9 27	5.0	1.00	.15	.70	1,000	N	100	500	2.0	N
KR145S	68 7 42	153 19 55	5.0	1.00	.10	.70	1,000	N	150	700	2.0	N
KR146S	68 7 47	153 32 8	7.0	1.50	.20	.70	1,000	N	100	700	1.5	N
KR147S	68 16 55	153 42 50	2.0	.70	.10	.30	500	N	50	300	1.0	N
KR148S	68 16 20	153 44 0	5.0	.70	.15	.30	1,500	N	100	500	2.0	N
KR149S	68 3 33	153 36 55	3.0	.20	.10	.20	1,000	N	70	500	1.0	N
KR150S	68 0 2	153 24 55	5.0	.30	.10	.30	1,000	N	100	500	1.5	N
KR151S	68 4 50	153 11 2	3.0	1.50	<.05	.20	700	N	70	500	1.5	N
KR152S	68 6 2	153 19 55	3.0	.30	.07	.70	1,500	N	100	700	1.5	N
KR153S	68 14 35	153 35 25	7.0	1.00	.30	.20	1,000	N	150	500	2.0	N
KR154S	68 16 28	153 36 35	3.0	.70	.20	.30	700	N	70	500	1.5	N
KR155S	68 18 57	153 41 37	2.0	.70	.15	.50	300	N	70	300	1.5	N
KR156S	68 17 45	153 33 20	3.0	.70	.10	.50	700	N	100	500	2.0	N
KR157S	68 20 25	153 45 25	3.0	.70	.07	.50	500	N	50	300	1.0	N
KR158S	68 22 50	153 32 0	3.0	.30	.10	.30	1,000	N	70	3,000	1.5	N
KR159S	68 21 8	153 33 7	7.0	.50	.07	.50	1,500	N	100	700	1.5	N
KR160S	68 20 15	153 23 55	3.0	.50	.07	.70	1,000	N	70	300	1.5	N
KR161S	68 16 32	153 15 2	7.0	1.00	.50	.30	1,000	N	100	500	2.0	N

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s
KR117S	20	150	30	20	N	N	50	10	15	N	200	30	N
KR118S	30	100	30	30	N	N	70	30	20	100	200	30	<200
KR119S	30	200	70	30	N	N	70	70	30	100	300	50	N
KR120S	20	150	50	20	N	N	50	15	20	N	200	30	N
KR121S	30	200	70	30	N	N	70	50	30	N	300	50	200
KR122S	20	150	30	N	N	N	50	10	15	200	150	30	N
KR123S	30	200	70	30	N	N	70	30	20	<100	200	30	<200
KR124S	20	100	20	N	N	N	70	15	15	100	150	20	N
KR125S	20	100	20	N	N	N	50	15	15	100	150	20	<200
KR126S	30	100	50	N	N	N	70	20	15	N	200	30	<200
KR127S	15	100	15	N	N	N	50	10	10	N	150	20	N
KR128S	20	100	30	N	N	N	70	15	15	<100	150	30	300
KR129S	20	100	30	20	N	N	50	15	15	<100	200	30	N
KR130S	20	100	50	20	N	N	70	20	15	<100	200	30	N
KR131S	20	150	30	30	N	N	50	300	20	100	150	30	200
KR132S	20	150	30	20	N	N	50	30	15	100	150	30	<200
KR133S	20	70	30	N	N	N	70	50	10	N	150	30	<200
KR134S	30	150	50	50	N	N	70	20	20	100	200	30	<200
KR135S	20	150	50	30	N	N	70	20	15	<100	200	30	<200
KR136S	30	100	70	30	N	N	70	30	20	100	150	30	<200
KR137S	30	100	50	20	N	N	50	20	15	<100	150	30	N
KR138S	20	100	50	30	N	N	50	20	15	<100	150	30	<200
KR139S	30	150	70	50	N	N	70	30	15	<100	200	30	<200
KR140S	30	100	50	20	N	N	70	20	15	N	200	30	<200
KR141S	30	150	30	50	N	N	70	15	15	100	200	30	<200
KR142S	30	150	70	50	N	N	70	50	20	100	200	30	<200
KR143S	30	100	50	30	N	N	70	30	15	100	150	20	<200
KR144S	30	100	50	20	N	N	50	20	15	100	150	20	<200
KR145S	30	150	50	30	N	N	70	30	15	100	200	30	<200
KR146S	30	150	70	50	N	N	70	30	15	<100	300	30	N
KR147S	10	70	20	20	N	N	30	10	7	N	150	10	N
KR148S	20	70	50	30	N	N	50	10	10	N	150	15	N
KR149S	20	70	30	30	N	N	50	15	7	100	150	10	N
KR150S	20	100	100	30	N	N	70	10	10	N	150	20	N
KR151S	10	70	20	N	N	N	30	20	7	N	150	10	N
KR152S	20	70	30	30	N	N	50	15	10	N	150	15	<200
KR153S	30	150	70	50	N	N	70	30	15	100	200	30	<200
KR154S	15	70	20	30	N	N	50	10	10	N	150	20	N
KR155S	10	70	20	20	N	N	30	15	7	N	150	15	N
KR156S	20	70	30	20	N	N	50	10	15	100	150	20	N
KR157S	15	70	20	30	N	N	20	10	10	N	150	20	N
KR158S	15	50	30	N	N	N	70	10	5	N	100	15	N
KR159S	30	100	100	20	N	N	50	20	15	N	150	20	N
KR160S	15	70	30	20	N	N	30	10	15	N	150	20	<200
KR161S	30	200	70	20	N	N	70	30	20	100	200	30	<200

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Zr-ppm s	Au-ppm aa	Cu-ppm aa	Zn-ppm aa	Sb-ppm aaa	Cd-ppm aa	As-ppm aa
KR117S	150	N	30	65	<1	.10	<5
KR118S	150	N	55	110	<1	.10	<5
KR119S	200	N	55	95	<1	.10	10
KR120S	150	N	40	90	<1	.15	<5
KR121S	150	N	60	170	<1	.45	5
KR122S	150	N	45	55	<1	.10	10
KR123S	150	N	55	100	<1	.25	10
KR124S	150	N	35	85	<1	.10	<5
KR125S	150	N	40	150	<1	.45	<5
KR126S	150	N	70	100	1	.45	10
KR127S	150	N	25	65	<1	.25	5
KR128S	150	N	40	190	<1	1.20	15
KR129S	150	N	50	70	5	.30	<1
KR130S	150	N	60	100	10	.35	<1
KR131S	150	N	50	210	5	.70	1
KR132S	150	N	55	140	<5	.25	<1
KR133S	150	N	30	110	10	.55	<1
KR134S	150	N	50	100	5	.15	<1
KR135S	150	N	55	110	<5	.10	<1
KR136S	150	N	60	130	10	.15	<1
KR137S	150	N	45	110	<5	.15	<1
KR138S	150	N	50	110	<5	.10	<1
KR139S	150	N	60	130	<5	.10	<1
KR140S	150	N	50	120	<5	.15	<1
KR141S	150	N	55	140	<5	.10	<1
KR142S	150	N	75	180	50	.15	6
KR143S	150	N	50	130	5	.15	<1
KR144S	150	N	55	120	5	.15	1
KR145S	150	N	55	110	5	.15	<1
KR146S	150	N	55	120	5	.20	<1
KR147S	150	N	20	55	5	.10	<1
KR148S	150	N	35	60	10	.35	<1
KR149S	150	N	25	90	20	.45	2
KR150S	150	N	30	80	10	.35	1
KR151S	100	N	20	55	10	.40	<1
KR152S	150	N	25	95	10	1.00	1
KR153S	300	N	60	120	<5	.10	<1
KR154S	150	N	25	50	<5	.10	<1
KR155S	150	N	20	55	<5	.25	<1
KR156S	200	N	20	50	<5	.10	<1
KR157S	150	N	20	40	5	.10	<1
KR158S	150	N	20	55	10	.45	<1
KR159S	150	N	40	95	10	.50	1
KR160S	150	N	25	65	5	1.00	<1
KR161S	200	N	50	120	5	.30	<1

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Cd-ppm s
KR162S	68 22 58	153 2 25	5.0	.20	.20	.20	1,500	N	70	500	1.5	N
KR163S	68 18 30	153 7 5	7.0	.70	.50	.50	1,000	N	100	500	2.0	N
KR164S	68 20 13	153 2 35	1.0	5.00	20.00	.07	200	N	20	100	<1.0	N
KR165S	68 22 6	153 11 57	1.5	1.00	1.50	.20	500	N	70	300	1.0	N
KR166S	68 22 9	153 17 23	2.0	1.00	1.00	.30	500	N	70	300	1.5	N
KR167S	68 12 42	155 5 7	10.0	1.00	.15	.70	1,500	N	100	700	2.0	N
KR168S	68 14 32	155 12 35	15.0	.50	.15	.70	700	N	150	700	2.0	N
KR169S	68 12 47	155 9 52	10.0	1.00	.15	.70	1,000	N	100	700	2.0	N
KR170S	68 11 37	155 10 35	7.0	.30	.15	.50	1,000	N	150	500	2.0	N
KR171S	68 9 45	155 11 58	10.0	2.00	.15	1.00	1,000	N	150	500	1.5	N
KR172S	68 8 50	155 6 28	5.0	.70	.10	.50	1,500	N	100	300	2.0	N
KR173S	68 9 20	155 6 2	5.0	.70	.10	.50	1,000	N	150	700	2.0	N
KR174S	68 5 8	155 0 2	5.0	.30	.10	.50	700	N	100	500	1.5	N
KR175S	68 5 10	155 46 8	7.0	1.00	.15	.70	700	N	100	500	2.0	N
KR176S	68 5 8	155 46 10	7.0	1.50	.15	.70	1,000	N	100	500	1.5	N
KR177S	68 4 54	155 40 10	7.0	.50	.10	.70	2,000	N	150	700	1.5	N
KR178S	68 1 23	155 43 0	7.0	.70	.15	.70	1,500	N	100	500	1.5	N
KR179S	68 1 31	155 54 2	5.0	.50	.10	.70	1,000	N	100	500	2.0	N
KR180S	68 0 10	155 32 35	5.0	.20	.10	.70	1,500	N	100	700	2.0	N
KR181S	68 1 56	155 40 5	7.0	.30	.15	.70	2,000	N	100	500	2.0	N
KR182S	68 4 35	155 24 40	7.0	.30	.20	.50	1,500	N	70	500	1.5	N
KR183S	68 3 40	155 12 25	5.0	.20	.10	.50	700	N	100	300	1.5	N
KR184S	68 5 32	155 17 2	7.0	.30	.15	.30	1,000	N	100	500	1.5	N
KR185S	68 12 32	154 48 10	5.0	.50	.10	.50	1,000	N	100	500	1.5	N
KR186S	68 13 50	154 47 58	5.0	.30	.10	.50	700	N	70	700	1.5	N
KR187S	68 16 38	154 51 55	5.0	.50	.07	.70	1,500	N	100	500	1.5	N
KR188S	68 4 27	154 30 0	10.0	.50	.10	.70	1,500	N	150	500	1.5	N
KR189S	68 2 53	154 26 13	7.0	.50	.10	.50	1,000	N	100	700	1.5	N
KR190S	68 3 37	154 24 35	5.0	.30	.10	.50	700	N	100	500	1.5	N
KR191S	68 6 2	155 20 27	3.0	.70	.10	.70	1,500	N	100	300	2.0	N
KR192S	68 6 47	155 31 33	5.0	.30	.10	.50	1,000	N	100	300	2.0	N
KR193S	68 7 33	155 45 28	5.0	.20	.07	.30	1,000	N	100	300	1.5	N
KR194S	68 8 12	155 53 40	7.0	.30	.07	.15	2,000	N	70	300	2.0	N
KR195S	68 10 33	155 59 36	5.0	.20	.07	.20	3,000	N	100	300	2.0	N
KR196S	68 12 30	155 35 58	7.0	1.00	.10	.50	1,000	N	150	700	3.0	N
KR197S	68 14 37	155 39 0	5.0	.70	.07	.50	1,000	N	100	700	2.0	N
KR198S	68 15 45	155 38 28	5.0	.70	.10	.30	1,500	N	100	500	1.5	N
KR199S	68 16 35	155 37 58	3.0	.20	.07	.20	2,000	N	100	300	1.5	N
KR200S	68 14 2	155 35 58	7.0	1.00	.10	.50	700	N	150	500	2.0	N
KR201S	68 17 32	153 38 55	3.0	1.00	.10	.30	500	N	100	300	1.5	N
KR202S	68 19 37	153 38 58	5.0	.50	.07	.30	1,000	N	150	500	1.5	N
KR203S	68 18 34	153 34 10	3.0	.70	.10	.20	1,000	N	100	300	1.0	N
KR204S	68 22 50	153 48 5	2.0	.30	.10	.15	700	N	50	200	1.0	N
KR205S	68 23 35	153 37 25	7.0	.70	.10	.50	2,000	N	150	700	2.0	N
KR206S	68 21 35	153 30 25	3.0	.50	.15	.20	1,000	N	70	700	1.0	N

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s
KR162S	20	50	30	20	N	N	50	10	10	N	100	20	N
KR163S	30	150	30	30	N	N	50	20	20	N	200	30	N
KR164S	N	70	5	N	N	N	10	<10	N	300	70	10	N
KR165S	7	70	20	N	N	N	15	N	5	<100	100	15	N
KR166S	10	70	30	N	N	N	20	10	10	N	150	20	N
KR167S	30	150	50	30	N	N	50	70	20	N	200	30	1,000
KR168S	30	150	100	30	N	N	50	20	20	100	300	50	<200
KR169S	30	200	70	30	N	N	50	10	20	N	200	30	N
KR170S	30	150	70	50	N	N	50	70	20	N	200	30	1,500
KR171S	30	300	100	50	N	N	70	100	20	N	300	30	500
KR172S	30	100	30	30	N	N	50	20	15	N	150	30	N
KR173S	30	200	70	50	N	N	70	70	20	N	200	30	500
KR174S	20	100	30	N	N	N	50	10	15	N	150	30	N
KR175S	30	200	50	50	N	N	70	15	20	N	200	30	N
KR176S	30	200	50	50	N	N	50	15	20	N	200	30	N
KR177S	30	200	50	30	N	N	50	10	15	N	200	30	N
KR178S	30	150	30	30	N	N	50	15	15	N	200	30	N
KR179S	30	100	30	30	N	N	70	30	15	N	200	20	<200
KR180S	30	70	30	30	N	N	70	20	15	100	150	30	N
KR181S	30	100	50	N	N	N	70	20	15	N	150	30	<200
KR182S	30	100	50	20	N	N	70	15	15	N	150	30	N
KR183S	20	70	20	N	N	N	70	10	15	N	150	15	N
KR184S	20	100	30	N	N	N	50	15	15	N	150	20	N
KR185S	30	100	50	N	N	N	70	15	15	N	150	20	N
KR186S	30	100	30	20	N	N	50	10	15	150	150	30	N
KR187S	30	100	70	20	N	N	50	30	15	N	150	30	500
KR188S	30	150	70	50	N	N	70	70	20	100	200	30	300
KR189S	30	150	50	30	N	N	50	10	15	150	200	30	N
KR190S	30	150	50	30	N	N	50	10	15	150	300	30	<200
KR191S	30	150	50	30	N	N	70	100	20	N	150	30	700
KR192S	30	70	30	20	N	N	50	20	15	N	150	30	<200
KR193S	30	150	30	20	N	N	50	15	15	N	150	30	<200
KR194S	30	70	20	N	N	N	50	15	15	N	100	20	<200
KR195S	30	70	30	20	N	N	50	15	20	100	150	30	N
KR196S	30	150	50	30	N	N	70	20	30	N	200	30	<200
KR197S	30	150	30	50	N	N	70	70	20	100	150	30	300
KR198S	30	100	30	70	N	N	50	20	20	100	150	30	N
KR199S	30	70	20	N	N	N	50	10	10	N	100	20	<200
KR200S	30	150	30	30	N	N	50	20	20	100	200	30	<200
KR201S	30	100	30	20	N	N	50	20	15	N	150	30	N
KR202S	20	70	30	20	N	N	50	20	15	N	150	30	N
KR203S	30	70	20	N	N	N	30	10	15	100	150	20	N
KR204S	20	30	10	N	N	N	20	<10	5	N	100	10	<200
KR205S	15	70	30	N	N	N	50	30	20	100	150	30	N
KR206S	30	50	20	N	N	N	30	15	7	N	150	20	N

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Zr-ppm s	Au-ppm aa	Cu-ppm aa	Zn-ppm aa	Sb-ppm aaa	Cd-ppm aa	As-ppm aa
KR162S	150	N	30	65	15	.15	1
KR163S	150	N	30	130	10	.40	<1
KR164S	30	N	<5	25	<5	.70	<1
KR165S	150	N	20	45	5	.15	<1
KR166S	150	N	25	60	5	.15	<1
KR167S	200	N	50	450	10	4.90	1
KR168S	200	N	55	100	10	.25	1
KR169S	200	N	60	90	5	.20	<1
KR170S	200	N	60	570	10	.20	1
KR171S	200	N	55	300	10	1.20	1
KR172S	200	N	35	120	10	.30	<1
KR173S	200	N	65	260	10	.35	<1
KR174S	200	N	30	90	10	.35	<1
KR175S	200	N	40	90	5	.05	<1
KR176S	200	N	40	100	5	.15	<1
KR177S	200	N	30	70	15	.15	<1
KR178S	200	N	35	110	15	.50	<1
KR179S	200	N	35	130	15	.40	<1
KR180S	200	N	40	100	10	.55	<1
KR181S	300	N	40	130	10	.25	<1
KR182S	200	N	50	120	15	.35	<1
KR183S	150	N	30	85	10	.20	<1
KR184S	200	N	45	110	15	.15	<1
KR185S	200	N	45	120	10	.45	<1
KR186S	200	N	40	65	10	.25	<1
KR187S	200	N	50	220	10	.20	<1
KR188S	200	N	60	190	10	.55	<1
KR189S	200	N	40	65	<5	.15	<1
KR190S	300	N	45	65	5	.20	<1
KR191S	200	.10	35	500	2	1.70	15
KR192S	200	.05	35	110	<1	.30	5
KR193S	150	N	35	100	<1	.35	10
KR194S	200	N	30	120	<1	.35	10
KR195S	150	N	35	75	1	.20	10
KR196S	150	N	45	120	<1	.20	10
KR197S	200	N	50	420	1	1.80	10
KR198S	150	N	30	90	<1	.30	5
KR199S	100	N	25	50	1	.25	10
KR200S	200	N	50	120	<1	.15	5
KR201S	150	N	35	90	<1	.15	5
KR202S	150	N	35	100	1	.40	10
KR203S	150	N	20	60	<1	.15	5
KR204S	100	N	15	50	<1	.25	5
KR205S	150	N	45	140	1	.65	15
KR206S	150	N	20	50	<1	.50	5

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Cd-ppm s
KR207S	68 21 28	153 25 25	2.0	.20	.07	.10	700	N	50	200	1.0	N
KR208S	68 17 12	153 27 35	7.0	.30	.15	.50	1,000	N	100	500	1.5	N
KR209S	68 17 12	153 28 15	3.0	.50	.10	.20	500	N	100	300	1.0	N
KR210S	68 15 55	153 11 50	5.0	1.00	.30	.70	1,500	N	150	500	2.0	N
KR211S	68 15 45	153 2 57	7.0	.70	.10	.50	1,000	N	150	700	1.5	N
KR212S	68 19 20	153 7 2	10.0	1.50	.50	.70	1,500	N	100	500	1.5	N
KR213S	68 20 25	153 2 35	5.0	1.00	2.00	.20	1,000	N	150	700	1.5	N
KR214S	68 21 20	153 7 32	3.0	.70	.10	.30	500	N	150	500	1.5	N
KR215S	68 24 35	153 11 0	5.0	.70	1.00	.20	2,000	N	100	5,000	1.5	N
KR216S	68 12 0	155 2 0	10.0	.70	.10	.70	2,000	N	150	700	2.0	N
KR217S	68 14 35	155 8 10	7.0	.50	.10	.50	1,500	N	70	500	2.0	N
KR218S	68 13 12	155 10 55	10.0	.70	.10	.50	1,500	N	100	500	2.0	N
KR219S	68 12 38	155 13 38	7.0	.30	.10	.50	1,500	N	100	700	2.0	N
KR220S	68 11 10	155 12 45	10.0	.70	.10	.70	1,500	N	100	300	2.0	N
KR221S	68 9 22	155 10 35	5.0	.50	.07	.50	1,000	N	70	500	2.0	N
KR222S	68 5 2	155 3 28	5.0	.20	.20	.50	1,000	N	70	300	1.5	N
KR223S	68 4 32	154 58 28	7.0	.70	.20	.70	1,500	N	150	500	2.0	N
KR224S	68 4 33	154 46 56	5.0	.50	.15	.50	1,500	N	100	300	1.5	N
KR225S	68 4 58	154 42 3	7.0	.70	.20	.50	1,500	N	150	700	1.5	N
KR226S	68 3 18	154 36 58	5.0	.70	.20	.70	1,000	N	100	500	1.5	N
KR227S	68 0 25	154 46 55	7.0	.50	.20	.50	1,000	N	70	300	1.5	N
KR228S	68 1 27	155 5 12	7.0	.70	.30	.50	1,500	N	150	500	2.0	N
KR229S	68 0 0	155 15 0	7.0	.50	.20	1.00	1,500	N	150	500	1.5	N
KR230S	68 0 0	155 18 40	10.0	.50	.30	.70	2,000	N	100	500	2.0	N
KR231S	68 1 0	155 35 43	7.0	.30	.20	.50	1,500	N	70	300	1.5	N
KR232S	68 4 32	155 31 33	5.0	.20	.15	.70	2,000	N	150	700	1.5	N
KR233S	68 4 28	155 20 58	3.0	.30	.20	.50	1,500	N	70	300	2.0	N
KR234S	68 4 28	155 12 32	7.0	.30	.30	.70	1,500	N	70	300	2.0	N
KR235S	68 12 37	154 42 6	3.0	.30	.20	.30	1,000	N	70	200	1.5	N
KR236S	68 13 50	154 54 2	7.0	.50	.20	.50	1,000	N	100	500	2.0	N
KR237S	68 17 5	154 45 33	10.0	.70	.07	.50	1,500	N	70	700	1.5	N
KR238S	68 18 52	154 26 54	10.0	1.00	.15	.50	1,500	N	100	700	1.5	N
KR239S	68 17 40	154 20 24	7.0	1.50	.15	.50	700	N	100	500	1.5	N
KR240S	68 6 35	155 24 45	10.0	.50	.10	.50	1,000	N	50	300	1.0	N
KR241S	68 6 32	155 38 2	7.0	.30	.10	.70	1,500	N	100	300	1.5	N
KR242S	68 7 47	155 48 25	7.0	.20	.07	.30	1,500	N	100	200	1.5	N
KR243S	68 9 35	155 57 38	7.0	.20	.07	.30	2,000	N	70	300	2.0	N
KR244S	68 11 56	155 36 45	10.0	.50	.10	.50	1,000	N	70	500	1.5	N
KR245S	68 14 2	155 36 8	5.0	1.00	.07	.70	1,500	N	150	700	3.0	N
KR246S	68 15 32	155 35 4	5.0	1.00	.10	.50	1,000	N	100	700	2.0	N
KR247S	68 17 28	155 33 58	7.0	.70	.07	.30	700	N	70	200	1.5	N
KR248S	68 18 25	155 41 0	3.0	.30	.07	.30	1,500	N	100	500	1.5	N
KR249S	68 10 58	155 23 50	5.0	.30	.07	.30	1,500	N	100	300	2.0	N
KR250S	68 11 48	155 24 5	7.0	.20	.05	.30	2,000	N	100	300	2.0	N
KR251S	68 13 47	155 21 2	7.0	.30	.07	.30	1,000	N	100	700	2.0	N

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s
KR207S	20	30	15	N	N	N	20	10	5	N	100	10	N
KR208S	30	100	30	30	N	N	70	15	20	N	150	30	N
KR209S	30	70	15	N	N	N	30	N	10	N	100	20	N
KR210S	30	100	30	30	N	N	50	20	30	N	200	30	N
KR211S	30	100	30	30	N	N	50	15	20	N	200	30	N
KR212S	30	150	70	30	N	N	70	30	30	150	300	30	N
KR213S	30	150	20	30	N	N	50	30	20	100	150	30	N
KR214S	15	70	30	20	N	N	30	10	15	100	150	30	N
KR215S	20	100	30	N	5	N	50	10	15	100	150	20	<200
KR216S	30	200	100	50	N	N	70	150	20	<100	200	30	700
KR217S	30	100	50	30	N	N	50	50	15	N	150	30	500
KR218S	30	150	50	20	N	N	50	30	15	N	150	30	300
KR219S	30	100	70	30	N	N	50	15	20	N	150	30	N
KR220S	30	150	70	30	N	N	50	20	20	N	200	30	<200
KR221S	20	300	30	20	N	N	50	70	15	N	150	20	<200
KR222S	20	100	30	N	N	N	30	10	15	N	150	30	N
KR223S	30	150	50	20	N	N	70	30	20	N	200	30	<200
KR224S	30	100	30	N	N	N	50	10	15	N	150	20	N
KR225S	30	100	30	N	N	N	50	15	15	N	150	20	N
KR226S	20	100	30	20	N	N	50	15	15	N	150	20	N
KR227S	20	100	30	20	N	N	30	20	15	N	150	20	N
KR228S	30	150	50	30	N	N	50	30	15	N	150	30	<200
KR229S	30	200	100	30	N	N	50	20	15	N	200	30	<200
KR230S	30	150	70	20	N	N	50	20	15	N	150	30	N
KR231S	30	100	50	N	N	N	50	10	15	N	150	20	N
KR232S	30	150	50	20	N	N	50	15	15	100	150	30	N
KR233S	30	100	70	20	N	N	50	20	15	N	150	20	200
KR234S	30	150	70	20	N	N	50	15	15	N	150	30	<200
KR235S	30	70	30	20	N	N	50	10	15	N	150	20	N
KR236S	30	100	30	20	N	N	50	30	15	N	150	20	500
KR237S	20	70	50	20	N	N	50	20	15	100	150	20	<200
KR238S	30	100	50	20	N	N	70	20	15	N	200	30	<200
KR239S	20	70	30	30	N	N	30	15	15	100	150	20	N
KR240S	30	70	50	20	N	N	50	20	15	N	150	20	200
KR241S	20	70	50	50	N	N	50	15	20	N	150	30	200
KR242S	20	50	30	N	N	N	50	15	15	N	100	20	<200
KR243S	20	50	30	N	N	N	50	15	15	100	100	20	<200
KR244S	30	100	50	50	N	N	50	15	15	N	150	30	<200
KR245S	30	150	30	50	N	N	50	100	20	N	200	30	500
KR246S	30	150	30	30	N	N	50	15	15	N	200	30	N
KR247S	20	70	20	20	N	N	30	10	10	N	150	30	N
KR248S	30	100	50	N	N	N	70	100	15	N	150	30	200
KR249S	30	70	30	N	N	N	30	15	15	N	100	30	N
KR250S	50	100	50	N	N	N	30	15	15	N	150	30	N
KR251S	20	150	30	30	N	N	30	20	15	N	200	30	<200

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Zr-ppm s	Au-ppm aa	Cu-ppm aa	Zn-ppm aa	Sb-ppm aaa	Cd-ppm aa	As-ppm aa
KR207S	150	N	25	60	<1	.20	5
KR208S	150	N	30	100	<1	.40	5
KR209S	100	N	20	55	<1	.20	5
KR210S	150	N	55	120	<1	.15	5
KR211S	150	N	35	70	1	.15	10
KR212S	200	N	45	120	<1	.15	10
KR213S	100	N	35	130	<1	.30	15
KR214S	150	N	25	45	<1	.05	15
KR215S	150	N	30	130	<1	.80	15
KR216S	200	N	65	640	2	3.60	10
KR217S	150	N	50	500	1	3.00	10
KR218S	200	N	50	300	1	1.10	10
KR219S	200	N	60	90	1	.30	10
KR220S	150	N	50	180	1	.70	10
KR221S	200	N	40	240	1	1.10	15
KR222S	150	N	40	110	<1	.35	15
KR223S	300	N	45	160	<1	.50	10
KR224S	200	N	35	95	<1	.25	20
KR225S	200	N	30	85	<1	.50	10
KR226S	200	N	35	110	<1	.35	15
KR227S	200	N	45	160	<1	.50	10
KR228S	200	N	45	110	<1	.35	15
KR229S	200	N	45	140	<1	.40	15
KR230S	150	N	40	120	<1	.40	15
KR231S	150	N	45	120	<1	.30	15
KR232S	200	N	45	170	<1	.45	15
KR233S	150	N	40	110	<1	.30	20
KR234S	200	N	40	110	<1	.25	15
KR235S	150	N	35	100	<1	.35	5
KR236S	150	N	45	380	1	2.00	5
KR237S	200	N	40	90	1	.25	10
KR238S	200	N	55	80	1	.25	10
KR239S	300	N	40	85	<1	.15	5
KR240S	200	N	35	170	1	.50	10
KR241S	300	N	40	120	<1	.30	10
KR242S	300	N	35	95	<1	.35	10
KR243S	500	N	30	90	1	.30	10
KR244S	200	N	40	110	<1	.35	15
KR245S	200	N	45	340	<1	1.80	10
KR246S	200	N	30	70	<1	.20	10
KR247S	150	N	25	95	<1	.50	10
KR248S	200	N	45	190	1	1.50	15
KR249S	150	N	45	80	2	.35	10
KR250S	150	N	50	60	2	.20	10
KR251S	200	N	55	110	2	.40	10

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Cd-ppm s
KR252S	68 15 28	155 22 2	7.0	.50	.07	.30	1,500	N	150	700	2.0	N
KR253S	68 17 22	155 21 35	5.0	.70	.07	.30	1,000	N	100	300	1.5	N
KR254S	68 18 2	155 19 35	5.0	.30	.10	.20	1,500	N	70	300	1.5	N
KR262S	68 2 15	153 3 5	5.0	.10	.10	.50	1,000	N	100	500	5.0	N
KR263S	68 1 58	153 12 28	5.0	.10	.10	.50	700	N	100	500	2.0	N
KR300S	68 9 35	155 22 0	5.0	1.00	.10	.30	700	<.5	100	700	1.5	N
KR301S	68 10 50	155 25 58	7.0	1.50	.10	.70	1,000	N	150	700	2.0	N
KR302S	68 12 15	155 27 25	7.0	1.00	.10	.50	1,000	N	100	700	1.5	N
KR303S	68 14 32	155 27 48	5.0	.70	.10	.30	700	.7	100	700	1.5	N
KR304S	68 15 57	155 26 45	3.0	.70	.15	.70	700	N	100	500	2.0	N
KR305S	68 16 47	155 26 25	3.0	.30	.10	.30	1,000	N	70	200	2.0	N
KR306S	68 17 50	155 26 12	5.0	.20	.10	.30	1,500	.5	70	300	1.5	N
KR315S	68 2 0	153 10 45	5.0	.20	.10	.50	1,500	N	150	1,000	5.0	N
KR316S	68 2 8	153 15 35	5.0	.30	.10	.50	1,000	N	100	700	5.0	N
KR414S	68 7 5	153 2 5	7.0	.70	.10	.50	1,000	N	100	500	2.0	N
LR255S	68 15 48	155 1 18	5.0	.20	.10	.30	700	N	70	500	1.5	N

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s
KR252S	20	70	50	50	N	N	30	30	15	N	200	30	<200
KR253S	20	100	30	30	N	N	30	10	15	N	150	30	300
KR254S	20	70	50	N	N	N	30	100	15	N	150	30	700
KR262S	30	150	30	30	N	N	100	20	15	200	200	30	<200
KR263S	30	100	30	20	N	N	70	20	15	200	200	20	<200
KR300S	20	100	30	20	N	N	30	50	15	N	200	30	N
KR301S	20	150	50	30	N	N	30	30	15	N	200	30	200
KR302S	20	100	30	30	N	N	30	20	15	N	150	30	N
KR303S	20	100	30	30	N	N	30	10	15	N	150	30	N
KR304S	30	100	20	50	N	N	50	15	20	<100	150	30	N
KR305S	20	70	30	20	N	N	30	70	15	N	100	30	500
KR306S	30	70	20	N	N	N	50	30	15	N	150	20	700
KR315S	30	150	30	20	N	N	100	30	20	100	200	70	200
KR316S	30	150	30	20	N	N	70	30	20	100	200	30	<200
KR414S	50	150	70	20	N	N	100	50	20	100	200	30	200
LR255S	20	100	30	N	N	N	30	15	15	N	200	30	N

Spectrographic and Atomic Absorption Analysis of Stream Sediments--continued

Sample	Zr-ppm s	Au-ppm aa	Cu-ppm aa	Zn-ppm aa	Sb-ppm aaa	Cd-ppm aa	As-ppm aa
KR252S	150	N	60	130	2	.35	10
KR253S	150	N	40	300	2	1.20	10
KR254S	150	N	55	880	2	5.60	10
KR262S	300	N	20	70	<1	.80	10
KR263S	200	N	20	60	<1	.50	10
KR300S	150	N	45	130	<1	.30	10
KR301S	200	N	45	130	<1	.55	10
KR302S	200	N	40	140	<1	.15	10
KR303S	200	N	35	85	<1	.10	10
KR304S	150	N	30	75	<1	.35	10
KR305S	100	N	40	380	1	2.50	10
KR306S	150	N	45	540	<1	3.40	10
KR315S	200	N	20	100	2	1.70	15
KR316S	200	N	20	75	2	.50	15
KR414S	200	N	55	170	<1	.25	30
LR255S	100	N	45	80	<1	.40	10

Spectrographic Analysis of Heavy Mineral Concentrates

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
KR001H	68 17 35	155 56 0	7.0	.20	1.50	>2.00	3,000	N	N	N	500	1,500
KR002H	68 18 15	155 47 20	10.0	.30	3.00	>2.00	3,000	2.0	N	N	300	2,000
KR003H	68 17 0	155 48 0	10.0	.20	.50	>2.00	3,000	N	N	N	300	1,500
KR004H	68 16 35	155 50 50	10.0	.20	1.00	>2.00	3,000	N	N	N	300	3,000
KR005H	68 15 30	155 51 10	3.0	.20	.50	2.00	1,500	N	N	N	200	1,000
KR006H	68 15 50	155 57 25	15.0	.20	.50	2.00	5,000	N	N	N	300	2,000
KR007H	68 14 50	155 57 55	10.0	.20	.70	>2.00	1,500	N	N	N	300	700
KR008H	68 14 45	155 57 0	7.0	.20	2.00	>2.00	3,000	N	N	N	300	10,000
KR009H	68 11 50	155 53 25	10.0	.20	2.00	>2.00	2,000	N	N	N	200	3,000
KR010H	68 12 27	155 41 0	15.0	.50	1.50	2.00	5,000	3.0	N	N	200	5,000
KR011H	68 19 35	155 32 10	7.0	.30	1.50	>2.00	2,000	N	N	N	500	10,000
KR012H	68 20 20	155 27 10	1.0	.05	<.10	.15	1,500	N	N	N	N	>10,000
KR013H	68 19 50	155 20 40	1.5	.05	.70	.15	1,000	N	N	N	N	>10,000
KR014H	68 21 50	155 14 50	.5	.10	.10	.02	5,000	N	N	N	N	>10,000
KR015H	68 16 25	155 13 55	10.0	.30	.30	1.00	3,000	N	N	N	70	>10,000
KR016H	68 16 10	155 8 20	3.0	.20	1.00	.70	1,500	3.0	N	N	100	>10,000
KR017H	68 17 8	155 6 20	10.0	.20	.15	1.00	3,000	N	N	N	50	>10,000
KR018H	68 17 20	154 59 0	15.0	.30	2.00	1.00	3,000	2.0	N	N	150	>10,000
KR019H	68 20 50	154 53 55	3.0	.30	2.00	.20	2,000	N	N	N	70	>10,000
KR020H	68 23 15	154 53 20	2.0	.20	.10	.30	2,000	N	N	N	100	>10,000
KR021H	68 23 55	154 48 25	.3	.07	.50	.30	700	N	N	N	N	>10,000
KR022H	68 22 45	154 46 55	10.0	.30	1.00	.20	2,000	N	N	N	50	>10,000
KR023H	68 20 0	154 44 15	5.0	.20	.70	.30	700	N	N	N	N	>10,000
KR024H	68 20 35	154 47 35	.5	.10	.50	.03	700	N	N	N	N	>10,000
KR025H	68 22 20	154 27 45	1.5	.50	3.00	.07	700	N	N	N	N	>10,000
KR026H	68 22 20	154 20 25	3.0	.50	5.00	.07	500	N	N	N	N	>10,000
KR027H	68 23 10	154 20 0	7.0	.20	<.10	.07	700	N	N	N	N	>10,000
KR028H	68 23 37	154 18 25	3.0	1.50	2.00	.30	300	N	N	N	300	>10,000
KR029H	68 24 15	154 14 0	10.0	1.00	1.00	.30	1,000	N	N	N	N	>10,000
KR030H	68 22 12	154 15 0	7.0	.30	1.50	.20	700	N	N	N	N	>10,000
KR031H	68 21 15	154 17 35	15.0	.70	1.50	1.50	3,000	N	N	N	150	>10,000
KR032H	68 21 10	154 18 10	15.0	.20	1.00	.70	300	N	N	N	N	>10,000
KR033H	68 17 57	154 12 25	10.0	.30	1.50	2.00	2,000	1.0	N	N	100	>10,000
KR034H	68 15 34	153 58 15	7.0	.50	2.00	2.00	2,000	<1.0	N	N	150	10,000
KR035H	68 20 28	154 7 55	15.0	.50	2.00	2.00	2,000	1.0	N	N	50	>10,000
KR036H	68 20 30	154 7 30	3.0	.50	10.00	1.50	700	7.0	N	N	N	7,000
KR037H	68 21 48	153 58 0	15.0	.30	5.00	2.00	500	N	N	N	<20	>10,000
KR038H	68 20 16	153 58 10	15.0	.70	2.00	2.00	2,000	2.0	N	N	100	>10,000
KR039H	68 20 20	153 56 25	15.0	.50	2.00	2.00	1,000	N	N	N	100	>10,000
KR040H	68 18 32	153 51 10	7.0	.50	2.00	2.00	1,500	3.0	N	N	200	>10,000
KR041H	68 16 45	153 54 55	15.0	.70	5.00	2.00	5,000	N	N	N	100	3,000
KR042H	68 12 42	154 2 25	20.0	.50	1.50	2.00	3,000	N	N	N	150	>10,000
KR043H	68 14 38	153 51 35	7.0	1.00	5.00	2.00	3,000	3.0	N	N	150	>10,000
KR044H	68 10 30	153 53 50	7.0	.70	1.50	>2.00	1,500	N	N	N	200	3,000
KR045H	68 12 10	153 55 45	10.0	.50	2.00	2.00	3,000	N	N	N	200	>10,000

Spectrographic Analysis of Heavy Mineral Concentrates

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
KR001H	N	N	N	30	700	70	700	N	<50	50	150	N	30
KR002H	N	N	N	30	700	100	500	N	N	50	1,000	N	20
KR003H	N	N	N	30	300	70	300	N	N	50	100	N	20
KR004H	N	N	N	30	500	50	500	N	<50	50	70	N	20
KR005H	N	N	N	10	50	10	300	N	N	20	50	N	N
KR006H	N	N	N	50	150	50	300	N	N	30	20	N	20
KR007H	N	N	N	30	700	70	200	N	<50	50	50	N	20
KR008H	N	N	N	50	700	30	500	N	<50	50	10,000	N	20
KR009H	N	N	N	50	200	50	700	N	<50	50	50	N	20
KR010H	N	N	N	30	200	70	500	N	N	50	5,000	N	20
KR011H	N	N	N	30	700	70	700	N	50	50	200	N	20
KR012H	N	N	N	<10	N	<10	N	N	N	20	N	N	N
KR013H	N	N	N	<10	N	<10	N	N	N	10	N	N	N
KR014H	N	N	N	<10	N	<10	N	N	N	30	N	N	N
KR015H	N	N	N	30	100	150	200	N	N	50	200	N	10
KR016H	N	N	N	20	70	70	70	N	N	50	10,000	N	N
KR017H	N	N	N	50	70	200	100	N	N	70	1,500	N	20
KR018H	N	N	N	50	100	150	200	N	N	100	200	N	30
KR019H	N	N	N	15	50	15	70	N	N	50	70	N	N
KR020H	N	N	N	10	30	10	50	N	N	30	N	N	N
KR021H	N	N	N	N	N	<10	70	N	N	10	N	N	N
KR022H	N	N	N	10	<20	30	N	N	N	50	N	N	N
KR023H	N	N	N	10	50	20	100	N	N	30	150	N	N
KR024H	N	N	N	N	<20	10	N	N	N	10	N	N	N
KR025H	N	N	N	<10	70	20	50	N	N	30	N	N	N
KR026H	N	N	N	<10	50	30	100	<10	N	50	N	N	N
KR027H	N	N	N	N	N	30	N	N	N	50	N	N	N
KR028H	N	N	N	10	150	20	N	N	N	50	N	N	10
KR029H	N	N	N	15	70	100	N	30	N	50	N	N	N
KR030H	N	N	N	<10	20	50	50	20	N	50	30	N	N
KR031H	N	N	N	50	70	300	200	N	N	70	70	N	30
KR032H	N	N	N	30	70	200	70	N	N	150	70	N	N
KR033H	N	N	N	30	100	200	300	N	50	50	70	N	20
KR034H	N	N	N	30	300	70	500	N	50	50	1,000	N	50
KR035H	N	N	N	70	150	150	300	N	<50	70	700	N	20
KR036H	N	N	N	15	150	150	500	N	N	50	100	N	N
KR037H	N	N	N	50	100	700	300	<10	N	70	1,000	N	N
KR038H	N	N	N	50	150	150	300	N	<50	50	100	N	N
KR039H	N	N	N	70	100	500	300	N	50	70	2,000	N	10
KR040H	N	N	N	30	150	70	300	N	70	50	700	N	10
KR041H	N	N	N	30	200	100	300	N	<50	50	70	N	30
KR042H	N	N	N	70	300	500	500	N	<50	50	2,000	N	20
KR043H	N	N	N	50	300	300	500	N	50	50	200	N	10
KR044H	N	N	N	50	150	100	700	N	50	50	1,000	N	10
KR045H	N	N	N	30	100	150	500	N	N	50	100	N	10

Spectrographic Analysis of Heavy Mineral Concentrates

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
KR001H	N	700	200	N	300	N	>2,000	N
KR002H	N	500	200	N	200	1,500	>2,000	N
KR003H	N	700	200	N	150	N	>2,000	N
KR004H	N	700	300	N	200	N	>2,000	N
KR005H	N	N	100	N	100	N	>2,000	N
KR006H	N	N	150	N	150	N	2,000	N
KR007H	N	N	200	N	150	500	>2,000	N
KR008H	N	500	200	N	200	N	>2,000	N
KR009H	N	N	200	N	200	2,000	>2,000	N
KR010H	N	N	200	N	150	3,000	2,000	N
KR011H	N	1,000	300	N	200	3,000	>2,000	N
KR012H	N	1,000	20	N	N	N	200	N
KR013H	N	1,000	20	N	50	<500	200	N
KR014H	N	1,000	20	N	N	N	20	N
KR015H	N	700	150	N	70	7,000	300	N
KR016H	N	500	100	N	70	5,000	200	N
KR017H	N	200	150	N	50	700	200	N
KR018H	N	1,000	150	N	200	3,000	1,500	N
KR019H	N	500	100	N	70	N	70	N
KR020H	N	700	30	N	N	N	150	N
KR021H	N	700	20	N	<20	N	150	N
KR022H	N	1,000	20	N	70	N	150	N
KR023H	N	1,500	50	N	50	1,500	150	N
KR024H	N	1,000	50	N	<20	N	20	N
KR025H	N	1,000	100	N	70	N	70	N
KR026H	N	1,000	100	N	200	N	70	N
KR027H	N	1,000	20	N	N	N	20	N
KR028H	N	500	150	N	30	N	300	N
KR029H	N	1,500	100	N	20	N	300	N
KR030H	N	1,000	70	N	70	N	70	N
KR031H	N	700	200	N	100	N	700	N
KR032H	N	500	70	N	100	N	300	N
KR033H	N	700	200	N	200	N	2,000	N
KR034H	N	500	200	N	200	N	>2,000	N
KR035H	N	500	150	N	200	N	2,000	N
KR036H	N	500	150	N	200	N	1,500	N
KR037H	N	500	200	N	200	N	1,500	N
KR038H	N	500	150	N	150	N	2,000	N
KR039H	N	500	150	N	150	N	2,000	N
KR040H	N	700	150	N	150	N	2,000	N
KR041H	N	500	150	N	200	N	2,000	N
KR042H	N	300	200	N	150	N	2,000	N
KR043H	N	700	200	N	200	N	>2,000	N
KR044H	N	500	200	N	150	N	>2,000	N
KR045H	N	500	150	N	150	N	2,000	N

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
KR046H	68 11 20	154 4 55	5.0	.50	1.50	>2.00	1,500	N	N	N	200	7,000
KR047H	68 6 32	154 1 5	5.0	.50	1.50	>2.00	700	N	N	N	500	2,000
KR048H	68 7 0	153 50 15	5.0	.50	1.50	>2.00	1,000	N	N	N	300	5,000
KR049H	68 4 33	153 48 55	10.0	.70	1.00	1.50	1,500	3.0	N	N	300	3,000
KR050H	67 59 32	153 51 50	10.0	.70	2.00	>2.00	200	N	N	N	700	>10,000
KR051H	68 2 36	154 6 55	15.0	.50	1.00	2.00	2,000	N	N	N	500	700
KR052H	68 2 28	154 3 55	15.0	.50	1.50	>2.00	2,000	N	N	N	500	5,000
KR053H	68 2 52	154 16 15	10.0	.30	1.00	>2.00	1,500	N	N	N	500	200
KR054H	68 3 46	154 22 50	15.0	.50	1.00	1.50	2,000	N	N	N	300	1,000
KR055H	68 17 50	154 6 25	15.0	.50	1.00	1.00	2,000	N	N	N	200	5,000
KR056H	68 15 0	154 7 30	15.0	.30	1.50	1.50	2,000	7.0	N	N	300	>10,000
KR057H	68 13 28	154 8 45	10.0	.50	2.00	>2.00	1,500	5.0	N	N	300	>10,000
KR058H	68 12 25	154 12 35	15.0	.30	.70	1.50	3,000	N	N	N	500	10,000
KR059H	68 12 7	154 16 20	15.0	.30	.50	1.50	3,000	N	N	N	500	>10,000
KR060H	68 12 2	154 21 25	15.0	.20	.70	1.00	3,000	N	N	N	200	>10,000
KR061H	68 14 0	154 21 55	15.0	.50	1.00	.70	1,500	2.0	N	N	200	>10,000
KR062H	68 8 45	154 13 0	20.0	.30	.50	2.00	7,000	N	N	N	300	1,000
KR063H	68 7 20	153 36 15	20.0	1.50	1.00	2.00	3,000	N	N	N	300	700
KR064H	68 7 55	153 37 35	20.0	1.00	1.00	2.00	5,000	N	N	N	200	7,000
KR065H	68 12 0	153 42 30	20.0	1.00	.30	2.00	3,000	N	N	N	200	5,000
KR066H	68 18 25	154 34 55	20.0	.70	.70	2.00	3,000	N	N	N	150	10,000
KR067H	68 15 25	154 35 0	15.0	.50	.70	.70	2,000	N	N	N	200	>10,000
KR068H	68 14 28	154 38 15	20.0	.50	.70	2.00	2,000	2.0	N	N	200	10,000
KR069H	68 13 37	154 36 35	20.0	1.00	.50	1.00	2,000	N	N	N	200	3,000
KR070H	68 14 28	154 31 5	15.0	.50	.20	.70	1,500	N	N	N	100	>10,000
KR071H	68 11 55	154 29 35	15.0	.20	.20	1.00	2,000	N	N	N	300	>10,000
KR072H	68 9 18	154 33 10	20.0	.20	.30	.70	7,000	N	N	N	300	1,000
KR073H	68 9 53	154 19 40	20.0	.20	.15	1.00	5,000	N	N	N	200	2,000
KR074H	68 6 19	154 33 0	20.0	.20	.30	1.50	3,000	N	N	N	300	5,000
KR075H	68 7 40	154 39 35	20.0	.50	.30	.70	2,000	N	N	N	200	>10,000
KR076H	68 10 5	154 44 0	15.0	.30	1.50	2.00	3,000	N	N	N	300	>10,000
KR077H	68 8 17	154 21 20	20.0	.30	.70	1.50	5,000	N	N	N	300	3,000
KR078H	68 5 10	154 53 50	20.0	.30	1.00	2.00	3,000	N	N	N	500	10,000
KR079H	68 9 11	154 54 50	20.0	.15	.30	1.50	3,000	N	N	N	300	3,000
KR080H	68 10 45	153 32 55	20.0	.70	.30	1.00	3,000	N	N	N	300	7,000
KR081H	68 10 50	153 32 5	20.0	.50	.20	.70	1,500	N	N	N	100	500
KR082H	68 12 30	153 28 5	20.0	.70	.50	1.00	2,000	N	N	N	200	700
KR083H	68 11 0	153 23 35	20.0	1.00	.30	1.50	2,000	3.0	N	N	200	500
KR084H	68 12 25	153 22 40	20.0	1.00	.70	1.50	2,000	5.0	N	N	200	500
KR085H	68 12 35	153 16 10	20.0	.70	.50	.70	3,000	N	N	N	150	500
KR086H	68 12 10	153 7 58	20.0	.50	.30	.70	2,000	1.0	N	N	150	10,000
KR087H	68 9 50	153 5 4	20.0	1.50	.20	.50	2,000	N	N	N	200	10,000
KR088H	68 13 40	153 4 10	20.0	.50	.70	2.00	3,000	N	N	N	200	>10,000
KR089H	68 9 10	153 9 5	20.0	.70	.20	.70	2,000	N	N	N	200	>10,000
KR090H	68 7 45	153 16 35	20.0	.50	.20	2.00	2,000	N	N	N	200	1,500

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
KR046H	N	N	N	30	300	30	500	N	70	50	50	N	10
KR047H	N	N	N	30	300	200	1,000	N	70	70	700	N	20
KR048H	N	N	N	30	200	300	700	N	<50	50	70	N	N
KR049H	N	N	N	30	100	300	200	N	N	50	5,000	N	10
KR050H	N	N	N	50	1,500	300	1,000	N	70	70	200	N	10
KR051H	N	N	N	50	500	150	500	N	N	70	70	N	10
KR052H	N	N	N	50	500	1,000	1,000	N	70	70	700	N	20
KR053H	N	N	N	30	200	100	700	N	50	70	500	N	10
KR054H	N	N	N	30	150	200	500	N	N	50	300	N	10
KR055H	N	N	N	30	200	200	50	N	N	70	1,000	N	20
KR056H	N	N	N	50	300	500	300	N	N	70	3,000	N	10
KR057H	N	N	N	30	1,000	1,000	1,000	N	N	70	700	N	10
KR058H	N	N	N	50	150	150	300	N	N	70	70	N	10
KR059H	N	N	N	50	150	150	300	N	N	70	150	N	10
KR060H	N	N	N	50	150	100	200	N	N	70	100	N	10
KR061H	N	N	N	50	70	200	200	N	N	50	70	N	10
KR062H	N	N	N	50	200	150	300	N	N	70	100	N	20
KR063H	N	N	N	70	150	300	500	N	N	70	2,000	N	20
KR064H	N	N	N	70	200	3,000	500	N	N	70	2,000	N	20
KR065H	N	N	N	50	150	200	300	N	N	70	70	N	20
KR066H	N	N	N	50	200	300	300	N	N	70	100	N	20
KR067H	N	N	N	30	100	300	200	N	N	50	30	N	10
KR068H	N	N	N	70	100	500	300	N	N	70	500	N	20
KR069H	N	N	N	50	100	700	200	N	N	70	70	N	20
KR070H	N	N	N	30	150	300	100	N	N	70	300	N	10
KR071H	N	N	N	50	100	500	150	N	N	50	200	N	10
KR072H	N	N	N	30	150	100	50	N	N	50	70	N	20
KR073H	N	N	N	30	150	100	150	N	N	50	100	N	20
KR074H	N	N	N	30	150	300	200	N	N	50	70	N	20
KR075H	N	N	N	30	100	700	70	N	N	50	300	N	20
KR076H	N	N	N	30	200	200	300	N	N	70	100	N	20
KR077H	N	N	N	50	150	300	150	N	N	50	70	N	20
KR078H	N	N	N	50	150	200	300	N	N	70	70	N	20
KR079H	N	N	N	50	150	200	150	N	N	50	300	N	20
KR080H	N	N	N	50	150	2,000	150	N	N	50	500	N	20
KR081H	N	N	N	30	70	200	50	N	N	50	1,000	N	20
KR082H	N	N	N	30	150	200	150	N	N	50	10,000	N	20
KR083H	N	N	N	50	150	700	150	N	N	50	5,000	N	20
KR084H	N	N	N	70	150	1,000	150	N	N	70	15,000	N	20
KR085H	N	N	N	50	150	300	150	N	N	50	150	N	20
KR086H	N	N	N	50	100	700	200	N	N	70	150	N	20
KR087H	N	N	N	50	70	700	N	N	N	50	2,000	500	20
KR088H	N	N	N	30	500	300	500	N	N	50	150	<200	20
KR089H	N	N	N	70	150	300	50	N	N	70	500	N	20
KR090H	N	N	N	50	300	300	150	N	N	50	500	N	20

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
KR046H	N	500	200	N	150	N	>2,000	N
KR047H	N	500	300	N	300	N	>2,000	N
KR048H	N	300	200	N	200	500	2,000	N
KR049H	N	N	150	N	100	3,000	1,500	N
KR050H	N	700	300	N	500	N	>2,000	N
KR051H	N	200	200	N	200	N	>2,000	N
KR052H	N	700	300	N	300	3,000	>2,000	N
KR053H	N	200	200	N	300	N	>2,000	N
KR054H	N	N	200	N	150	3,000	1,500	N
KR055H	N	N	300	N	150	500	300	N
KR056H	N	700	200	N	200	3,000	2,000	N
KR057H	N	1,000	300	N	300	3,000	>2,000	N
KR058H	N	N	300	N	100	N	700	N
KR059H	N	N	300	N	100	N	1,000	N
KR060H	N	200	200	N	100	N	700	N
KR061H	N	700	300	N	150	5,000	700	N
KR062H	N	500	300	N	150	700	2,000	N
KR063H	N	200	300	N	150	500	1,000	N
KR064H	N	200	300	N	150	5,000	1,000	N
KR065H	N	N	300	N	100	N	1,000	N
KR066H	N	200	300	N	100	N	700	N
KR067H	N	700	150	N	100	N	300	N
KR068H	N	500	200	N	150	1,000	1,000	N
KR069H	N	N	300	N	100	3,000	1,000	N
KR070H	N	300	150	N	70	N	300	N
KR071H	N	200	200	N	100	2,000	1,000	N
KR072H	N	700	150	N	100	500	700	N
KR073H	N	N	200	N	70	N	2,000	N
KR074H	N	700	150	N	100	N	2,000	N
KR075H	N	N	150	N	70	N	1,000	N
KR076H	N	N	150	N	300	N	>2,000	N
KR077H	N	200	150	N	150	<500	1,000	N
KR078H	N	700	200	N	200	3,000	2,000	N
KR079H	N	N	150	N	150	2,000	2,000	N
KR080H	N	500	150	N	100	5,000	1,500	N
KR081H	N	N	150	N	30	N	700	N
KR082H	N	N	150	N	100	2,000	1,500	N
KR083H	N	N	150	N	100	3,000	1,000	N
KR084H	N	N	150	N	100	2,000	1,500	N
KR085H	N	N	150	N	100	1,500	1,500	N
KR086H	N	N	150	N	100	1,000	1,500	N
KR087H	N	700	150	N	70	10,000	300	N
KR088H	N	1,000	150	N	200	N	>2,000	N
KR089H	N	500	150	N	50	2,000	300	N
KR090H	N	N	150	N	100	500	2,000	N

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
KR091H	68 7 58	153 22 35	20.0	.70	.50	2.00	3,000	N	N	N	500	1,000
KR092H	68 15 25	153 43 35	3.0	.30	1.00	>2.00	700	N	N	N	100	5,000
KR093H	68 16 45	153 44 0	20.0	.70	1.50	1.50	3,000	N	N	N	300	700
KR094H	68 4 0	153 32 12	30.0	.50	1.00	1.50	3,000	N	N	N	300	700
KR095H	68 1 25	153 29 50	20.0	.30	1.50	>2.00	1,500	N	N	N	500	1,500
KR096H	68 0 0	153 20 35	15.0	.15	1.50	>2.00	1,500	N	N	N	500	1,000
KR097H	68 4 40	153 6 36	20.0	.15	.15	2.00	2,000	N	N	N	150	500
KR098H	68 5 2	153 16 55	20.0	.10	.70	>2.00	1,500	N	N	N	300	500
KR099H	68 6 28	153 24 0	20.0	.15	.50	1.50	1,500	N	N	N	200	1,500
KR100H	68 10 34	153 53 45	20.0	1.00	2.00	2.00	2,000	N	N	N	200	1,500
KR101H	68 7 15	153 57 50	20.0	.30	1.50	2.00	2,000	2.0	N	N	300	5,000
KR102H	68 7 30	154 2 25	20.0	.20	.50	2.00	2,000	N	N	N	150	500
KR103H	68 6 45	153 57 30	20.0	.50	.70	2.00	2,000	N	N	N	300	3,000
KR104H	68 6 18	153 48 0	20.0	1.00	.70	2.00	1,500	N	N	N	200	500
KR105H	68 4 12	153 44 25	20.0	1.50	1.00	1.00	1,500	N	N	N	150	5,000
KR106H	68 1 25	153 50 25	20.0	.50	.70	>2.00	1,500	N	N	N	300	2,000
KR107H	68 2 0	153 56 30	20.0	.20	1.50	2.00	3,000	N	N	N	300	700
KR108H	68 5 20	153 58 15	15.0	.20	1.50	>2.00	3,000	N	N	N	300	5,000
KR109H	68 4 47	154 11 55	20.0	.30	1.00	2.00	3,000	3.0	N	N	100	5,000
KR110H	68 4 47	154 15 40	20.0	.30	1.00	>2.00	3,000	<1.0	N	N	300	2,000
KR111H	68 8 6	154 23 15	30.0	.30	.70	1.50	5,000	N	N	N	300	1,500
KR112H	68 16 4	154 6 0	20.0	.20	.70	.70	2,000	3.0	N	N	200	>10,000
KR113H	68 15 0	154 12 40	20.0	.30	.70	>2.00	1,500	<1.0	N	N	200	>10,000
KR114H	68 12 40	154 10 20	15.0	.20	1.00	2.00	2,000	5.0	N	N	150	>10,000
KR115H	68 12 25	154 12 32	20.0	.20	.70	1.00	2,000	N	N	N	150	>10,000
KR116H	68 11 58	154 19 20	7.0	.10	.70	1.50	1,000	1.0	N	N	100	>10,000
KR117H	68 13 35	154 20 50	7.0	.10	.50	.70	700	N	N	N	50	>10,000
KR118H	68 7 25	153 39 55	20.0	1.00	.70	2.00	5,000	15.0	N	N	150	2,000
KR119H	68 11 26	153 54 35	5.0	.50	3.00	1.00	700	N	N	N	200	500
KR120H	68 12 50	153 42 35	15.0	.20	1.00	1.50	1,500	N	N	N	N	>10,000
KR121H	68 16 25	154 36 20	10.0	.10	.70	>2.00	700	15.0	N	N	100	>10,000
KR122H	68 15 5	154 37 50	15.0	.10	.20	1.00	1,500	3.0	N	N	50	>10,000
KR123H	68 13 0	154 37 37	20.0	.20	1.50	1.50	2,000	N	N	N	200	>10,000
KR124H	68 13 28	154 38 35	30.0	.15	.50	1.00	700	7.0	N	N	50	>10,000
KR125H	68 15 37	154 32 40	10.0	.10	.50	1.00	700	3.0	N	N	50	>10,000
KR126H	68 13 32	154 31 5	30.0	.10	.70	.70	1,500	2.0	N	N	200	>10,000
KR127H	68 8 15	154 28 32	20.0	.15	.70	2.00	1,500	N	N	N	200	10,000
KR128H	68 8 22	154 38 0	20.0	.15	.70	1.00	2,000	N	N	N	200	>10,000
KR130H	68 9 50	154 35 55	20.0	.15	1.50	.70	2,000	N	N	N	150	7,000
KR131H	68 7 45	154 50 58	15.0	.30	15.00	.70	1,500	500.0	N	N	100	7,000
KR132H	68 8 32	155 0 12	20.0	.30	2.00	1.00	2,000	50.0	N	N	200	7,000
KR133H	68 8 12	154 59 45	20.0	.30	3.00	1.50	2,000	30.0	N	N	300	7,000
KR134H	68 14 0	153 30 0	20.0	.50	.70	1.00	1,500	2.0	N	N	100	>10,000
KR135H	68 13 42	153 30 35	20.0	.30	.70	1.50	1,500	2.0	N	N	200	>10,000
KR136H	68 11 40	153 29 0	20.0	.30	1.00	>2.00	1,000	2.0	N	N	150	10,000

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
KR091H	N	N	N	100	150	500	150	N	N	70	200	N	20
KR092H	N	N	N	15	500	50	200	N	N	70	50	<200	20
KR093H	N	N	N	30	500	200	200	N	N	70	70	N	10
KR094H	N	N	N	50	70	150	200	N	N	70	70	N	10
KR095H	N	N	N	30	700	200	700	N	50	70	100	N	20
KR096H	N	N	N	30	300	200	700	N	50	70	300	N	10
KR097H	N	N	N	30	150	70	200	N	N	70	30	N	N
KR098H	N	N	N	30	200	100	500	N	N	70	70	N	10
KR099H	N	N	N	50	200	100	300	N	N	70	150	N	10
KR100H	N	N	N	30	300	300	500	N	<50	70	300	N	10
KR101H	N	N	N	50	700	700	500	N	N	100	2,000	N	10
KR102H	N	N	N	30	300	1,500	200	N	50	70	100	N	10
KR103H	N	N	N	50	500	200	700	N	<50	70	100	N	10
KR104H	N	N	N	30	300	700	50	N	<50	70	70	N	10
KR105H	N	N	N	50	150	3,000	150	N	N	70	1,000	N	20
KR106H	N	N	N	50	200	1,000	1,000	N	70	100	50	N	10
KR107H	N	N	N	30	300	70	500	N	<50	100	70	N	10
KR108H	N	N	N	30	300	100	700	N	<50	70	1,500	N	10
KR109H	N	N	N	30	300	300	500	N	N	70	1,500	N	10
KR110H	N	N	N	30	150	300	700	N	<50	100	1,500	N	10
KR111H	N	N	N	50	200	200	200	N	N	70	100	N	20
KR112H	N	N	N	50	100	200	150	N	N	70	200	N	10
KR113H	N	N	N	30	700	500	1,000	N	50	70	150	N	10
KR114H	N	N	N	30	150	300	500	N	<50	70	700	300	10
KR115H	N	N	N	30	70	200	150	N	N	70	70	N	10
KR116H	N	N	N	20	70	30	200	N	N	50	700	N	10
KR117H	N	N	N	20	70	500	200	N	N	50	500	N	<10
KR118H	N	N	N	70	200	700	100	50	N	50	20,000	N	10
KR119H	N	N	N	30	70	70	200	N	N	50	150	N	N
KR120H	N	N	150	50	100	200	500	N	N	50	500	N	10
KR121H	N	N	100	50	70	200	700	N	100	100	20,000	N	N
KR122H	N	N	N	100	70	500	100	N	N	70	300	N	10
KR123H	N	N	N	70	70	500	200	N	N	70	200	N	20
KR124H	N	N	N	200	150	1,500	300	N	N	100	5,000	N	<10
KR125H	N	N	N	70	70	700	150	N	N	70	1,000	N	<10
KR126H	N	N	N	70	70	700	150	N	N	70	150	N	20
KR127H	N	N	N	200	150	150	300	N	100	100	150	N	10
KR128H	N	N	N	70	150	150	200	N	N	100	100	N	20
KR130H	N	N	N	70	100	200	300	N	N	70	100	N	20
KR131H	N	N	N	50	100	150	200	N	N	50	>50,000	1,500	10
KR132H	N	N	N	100	150	500	200	N	N	70	15,000	200	20
KR133H	N	N	N	70	200	200	300	N	N	100	10,000	200	20
KR134H	N	N	150	50	150	150	200	N	N	70	5,000	N	30
KR135H	N	N	N	70	150	1,000	200	N	50	70	5,000	N	30
KR136H	N	N	N	150	200	300	500	N	150	100	7,000	N	20

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
KR091H	N	N	150	N	100	500	2,000	N
KR092H	N	N	200	N	200	N	>2,000	N
KR093H	N	200	200	N	150	N	>2,000	N
KR094H	N	N	200	N	100	700	2,000	N
KR095H	N	200	300	N	500	500	>2,000	N
KR096H	N	200	300	N	300	N	>2,000	N
KR097H	N	N	200	N	70	N	2,000	N
KR098H	N	200	300	N	200	N	>2,000	N
KR099H	N	200	300	N	100	N	2,000	N
KR100H	N	200	300	N	200	N	2,000	N
KR101H	N	300	200	N	150	5,000	>2,000	N
KR102H	N	N	200	N	100	700	>2,000	N
KR103H	N	N	200	N	150	N	>2,000	N
KR104H	N	N	200	N	70	N	1,500	N
KR105H	N	N	200	N	70	2,000	700	N
KR106H	N	N	200	N	100	N	2,000	N
KR107H	N	500	300	N	150	N	>2,000	N
KR108H	N	700	300	N	150	2,000	>2,000	N
KR109H	N	N	200	N	150	N	>2,000	N
KR110H	N	700	300	N	150	N	>2,000	N
KR111H	N	N	300	N	70	N	700	N
KR112H	N	200	200	N	100	2,000	500	N
KR113H	N	1,500	300	N	150	5,000	>2,000	N
KR114H	N	700	200	N	150	1,000	>2,000	N
KR115H	N	500	200	N	150	N	2,000	N
KR116H	N	1,000	150	N	30	700	2,000	N
KR117H	N	1,000	100	N	30	1,500	2,000	N
KR118H	N	N	150	N	30	N	1,500	N
KR119H	N	N	150	N	200	N	2,000	N
KR120H	N	200	100	N	150	10,000	1,500	N
KR121H	N	700	150	N	150	7,000	>2,000	N
KR122H	N	500	100	N	50	N	700	N
KR123H	N	500	150	N	150	3,000	2,000	N
KR124H	N	700	150	N	150	700	2,000	N
KR125H	N	500	150	N	100	3,000	1,500	N
KR126H	N	200	150	N	150	20,000	1,500	N
KR127H	<20	200	200	N	200	500	2,000	N
KR128H	N	200	150	N	150	700	1,500	N
KR130H	N	200	150	N	200	700	1,500	N
KR131H	N	N	150	N	200	3,000	1,000	N
KR132H	N	N	150	N	150	7,000	1,500	N
KR133H	N	200	200	N	150	2,000	2,000	N
KR134H	N	N	150	N	150	N	1,000	N
KR135H	N	N	150	N	150	5,000	1,500	N
KR136H	30	200	200	N	150	7,000	1,500	N

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
KR137H	68 13 28	153 25 35	15.0	.30	.70	>2.00	1,000	<1.0	N	N	200	>10,000
KR138H	68 13 47	153 20 35	15.0	.30	.70	1.50	1,500	N	N	N	150	>10,000
KR139H	68 11 22	153 15 52	20.0	.50	.70	1.50	1,500	5.0	N	N	100	700
KR140H	68 13 30	153 15 0	20.0	.70	1.00	1.50	1,000	N	N	N	150	300
KR141H	68 11 13	153 4 58	20.0	.70	1.00	2.00	1,000	7.0	N	N	100	10,000
KR142H	68 9 15	153 5 25	20.0	1.00	.70	.70	1,000	10.0	5,000	N	300	>10,000
KR143H	68 9 45	153 9 0	20.0	.50	1.00	1.00	1,000	1.5	N	N	200	3,000
KR144H	68 8 2	153 9 27	20.0	.70	1.00	2.00	1,500	1.0	N	N	200	>10,000
KR145H	68 7 42	153 19 55	20.0	.50	.70	2.00	1,500	1.0	N	N	300	2,000
KR146H	68 7 47	153 32 8	20.0	.50	.70	>2.00	700	7.0	N	N	300	2,000
KR147H	68 16 55	153 42 50	7.0	.50	1.50	2.00	1,500	N	N	N	150	1,500
KR148H	68 16 20	153 44 0	10.0	.50	1.50	2.00	1,000	N	N	N	150	1,000
KR149H	68 3 33	153 36 55	15.0	.50	3.00	>2.00	2,000	N	N	N	700	1,500
KR150H	68 0 2	153 24 55	20.0	.50	1.00	2.00	1,500	N	N	N	500	500
KR151H	68 4 50	153 11 2	30.0	.20	1.00	2.00	1,500	3.0	N	N	300	500
KR152H	68 6 2	153 19 55	20.0	.15	.10	>2.00	1,000	N	N	N	500	1,500
KR153H	68 14 35	153 35 25	20.0	.20	.30	2.00	3,000	N	N	N	300	500
KR154H	68 16 28	153 36 35	20.0	.50	.70	.70	1,500	3.0	N	N	100	>10,000
KR155H	68 18 57	153 41 37	20.0	.50	3.00	2.00	1,500	1.0	N	N	200	>10,000
KR156H	68 17 45	153 33 20	15.0	.70	10.00	1.50	1,500	N	N	N	500	2,000
KR157H	68 20 25	153 45 25	20.0	.50	1.50	2.00	1,500	N	N	N	200	>10,000
KR158H	68 22 50	153 32 0	2.0	.10	.50	.30	200	N	N	N	N	>10,000
KR159H	68 21 8	153 33 7	30.0	.20	.70	.70	3,000	N	N	N	300	>10,000
KR160H	68 20 15	153 23 55	30.0	.50	1.00	1.50	3,000	N	N	N	150	3,000
KR161H	68 16 32	153 15 2	30.0	.50	.70	.70	1,500	10.0	N	N	100	>10,000
KR162H	68 22 58	153 2 25	30.0	.30	1.50	.50	3,000	3.0	N	N	200	>10,000
KR163H	68 18 30	153 7 5	30.0	.70	3.00	.50	5,000	N	N	N	500	>10,000
KR164H	68 20 13	153 2 35	30.0	1.00	10.00	.50	2,000	1.0	N	N	20	>10,000
KR165H	68 22 6	153 11 57	20.0	.70	3.00	>2.00	3,000	2.0	N	N	500	10,000
KR166H	68 22 9	153 17 23	20.0	.70	7.00	2.00	1,500	5.0	N	N	200	>10,000
KR167H	68 12 42	153 5 7	15.0	.50	1.50	1.50	1,500	7.0	N	N	300	>10,000
KR168H	68 14 32	153 12 35	5.0	.20	1.00	1.00	700	<1.0	N	N	150	>10,000
KR169H	68 12 47	153 9 52	5.0	.20	1.50	1.00	500	5.0	N	N	70	>10,000
KR170H	68 11 37	153 10 35	10.0	.70	1.50	2.00	2,000	10.0	N	N	150	>10,000
KR171H	68 9 45	153 11 50	20.0	.70	1.00	2.00	5,000	20.0	N	N	500	>10,000
KR172H	68 8 50	153 6 28	15.0	.70	3.00	2.00	3,000	1.0	N	N	300	3,000
KR173H	68 9 20	153 6 2	20.0	.70	2.00	1.50	5,000	1.0	N	N	300	10,000
KR174H	68 5 8	155 0 2	20.0	.70	2.00	>2.00	3,000	N	N	N	500	10,000
KR175H	68 5 10	154 46 8	15.0	.70	5.00	1.50	3,000	5.0	N	N	100	>10,000
KR176H	68 5 8	154 46 10	20.0	1.50	5.00	>2.00	7,000	N	N	N	500	1,500
KR177H	68 4 54	154 40 10	30.0	.50	1.50	1.50	5,000	N	N	N	500	2,000
KR178H	68 1 23	154 43 0	15.0	.70	3.00	>2.00	3,000	N	N	N	300	10,000
KR179H	68 1 31	154 54 2	20.0	.50	3.00	1.50	3,000	7.0	N	N	150	>10,000
KR180H	68 0 10	155 32 35	3.0	.50	.70	2.00	3,000	N	N	N	500	2,000
KR181H	68 1 56	155 40 5	15.0	.50	.70	2.00	3,000	3.0	N	N	300	1,000

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
KR137H	N	N	N	30	200	300	500	N	100	100	300	N	20
KR138H	N	N	N	30	100	300	300	N	N	100	300	N	20
KR139H	N	N	N	50	100	3,000	500	N	N	70	7,000	N	20
KR140H	N	N	N	20	100	300	200	N	N	70	500	N	20
KR141H	N	N	N	100	150	2,000	200	N	N	70	10,000	N	15
KR142H	N	<20	N	70	100	700	100	N	N	100	30,000	N	20
KR143H	N	N	N	100	150	700	200	N	N	100	3,000	N	20
KR144H	N	N	N	100	150	1,000	200	N	N	100	1,500	N	20
KR145H	N	N	N	70	300	1,500	300	N	50	100	500	N	10
KR146H	N	N	N	100	300	1,500	300	N	50	100	7,000	N	10
KR147H	N	N	N	20	300	200	700	N	50	70	70	N	10
KR148H	N	N	N	20	200	200	700	N	70	70	70	N	N
KR149H	N	N	N	30	500	200	1,000	N	50	100	100	N	20
KR150H	150	N	N	50	300	150	500	N	N	100	100	N	10
KR151H	N	N	N	100	150	500	700	N	50	100	3,000	N	10
KR152H	N	N	N	30	200	100	700	N	N	70	100	N	10
KR153H	N	N	N	30	150	100	300	N	N	70	100	N	10
KR154H	N	N	N	150	100	10,000	50	N	50	70	3,000	N	10
KR155H	N	N	N	30	500	300	500	N	N	100	100	N	20
KR156H	N	N	N	30	150	100	500	N	50	70	200	N	15
KR157H	N	N	N	30	700	150	1,000	N	N	70	200	N	20
KR158H	N	N	N	N	<20	30	N	N	N	10	N	N	N
KR159H	N	N	N	30	70	100	300	N	N	100	70	N	10
KR160H	N	N	N	30	150	70	500	N	N	70	70	N	10
KR161H	N	N	N	100	100	1,500	150	N	N	100	20,000	N	10
KR162H	N	N	N	50	70	2,000	150	N	N	100	300	N	10
KR163H	N	N	N	30	200	300	200	N	N	70	2,000	N	10
KR164H	N	N	100	20	150	100	300	N	N	70	300	N	10
KR165H	N	N	N	30	300	500	500	N	50	100	300	N	20
KR166H	N	N	N	30	100	300	500	N	<50	70	500	N	10
KR167H	N	N	N	50	100	300	300	N	N	70	5,000	N	10
KR168H	N	N	N	20	50	200	200	N	N	50	200	N	N
KR169H	N	N	N	30	50	1,000	300	N	N	50	200	N	N
KR170H	N	N	150	50	150	300	500	N	50	70	30,000	N	N
KR171H	N	N	N	50	200	200	300	N	50	70	20,000	N	10
KR172H	N	N	N	30	500	30	500	N	50	70	7,000	N	10
KR173H	N	N	N	30	200	50	300	N	<50	50	2,000	N	20
KR174H	N	N	N	30	300	70	300	N	<50	50	700	N	20
KR175H	N	N	N	30	200	1,000	300	N	N	50	15,000	N	10
KR176H	N	N	N	50	500	300	300	N	70	70	150	N	20
KR177H	N	N	N	30	200	30	300	N	N	50	200	N	20
KR178H	N	N	N	30	500	1,000	500	N	100	50	700	N	20
KR179H	N	N	150	30	500	70	300	N	N	70	15,000	N	20
KR180H	N	N	N	20	200	20	150	N	50	50	200	N	10
KR181H	N	N	N	30	150	30	200	N	50	50	2,000	N	15

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
KR137H	<20	500	200	N	200	2,000	>2,000	N
KR138H	N	500	150	N	100	500	1,500	N
KR139H	N	500	150	N	100	5,000	500	N
KR140H	N	N	150	N	70	3,000	500	N
KR141H	N	500	150	N	100	20,000	2,000	N
KR142H	N	5,000	200	N	50	10,000	150	N
KR143H	N	700	200	N	70	7,000	500	N
KR144H	N	200	200	N	100	2,000	2,000	N
KR145H	N	500	200	N	100	500	2,000	N
KR146H	N	1,000	150	N	150	2,000	2,000	N
KR147H	N	700	150	N	200	N	>2,000	N
KR148H	N	500	150	N	200	N	>2,000	N
KR149H	N	1,000	200	N	500	700	>2,000	N
KR150H	N	N	200	N	200	500	>2,000	N
KR151H	N	N	150	N	200	3,000	2,000	N
KR152H	N	5,000	200	N	200	500	>2,000	N
KR153H	N	N	200	N	150	N	2,000	N
KR154H	N	500	150	N	150	20,000	700	N
KR155H	N	1,000	200	N	300	3,000	>2,000	N
KR156H	N	1,000	200	N	500	N	700	N
KR157H	N	1,000	200	N	200	N	>2,000	N
KR158H	N	2,000	70	N	50	3,000	500	N
KR159H	N	500	200	N	100	500	1,500	N
KR160H	N	200	200	N	100	500	1,000	N
KR161H	N	700	150	N	70	15,000	1,000	N
KR162H	N	500	150	N	100	5,000	500	N
KR163H	N	700	200	N	100	7,000	200	N
KR164H	N	700	100	N	150	10,000	200	N
KR165H	N	1,000	200	N	200	N	>2,000	N
KR166H	N	1,000	200	N	200	2,000	2,000	N
KR167H	N	1,000	150	N	150	1,500	2,000	N
KR168H	N	700	100	N	100	N	700	N
KR169H	N	1,000	100	N	150	N	1,000	N
KR170H	N	700	200	N	150	7,000	1,500	N
KR171H	300	300	200	100	150	5,000	2,000	N
KR172H	N	300	200	N	150	3,000	2,000	N
KR173H	N	N	200	N	150	3,000	700	N
KR174H	N	200	300	N	150	1,500	1,500	N
KR175H	N	700	200	N	150	2,000	2,000	N
KR176H	N	500	300	N	200	2,000	2,000	N
KR177H	N	N	200	N	150	N	1,500	N
KR178H	N	700	300	N	200	2,000	2,000	N
KR179H	N	500	200	N	150	7,000	>2,000	N
KR180H	N	200	200	N	150	N	1,500	N
KR181H	N	200	200	N	150	2,000	1,500	N

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
KR182H	68 4 35	155 24 40	10.0	.70	1.50	>2.00	3,000	N	N	N	300	3,000
KR183H	68 3 40	155 12 25	20.0	.70	1.50	2.00	3,000	1.0	N	N	300	10,000
KR184H	68 5 32	155 17 2	15.0	.70	2.00	>2.00	3,000	N	N	N	500	2,000
KR185H	68 12 32	154 48 10	5.0	.50	2.00	>2.00	2,000	N	N	N	150	>10,000
KR186H	68 13 50	154 47 58	5.0	.10	1.00	1.50	300	1.0	N	N	20	>10,000
KR187H	68 16 38	154 51 55	7.0	.10	1.00	>2.00	700	N	N	N	200	>10,000
KR188H	68 4 27	154 30 0	10.0	.20	5.00	1.50	1,500	N	N	N	300	10,000
KR189H	68 2 53	154 26 13	3.0	.10	1.50	>2.00	200	N	N	N	200	>10,000
KR190H	68 3 37	154 24 35	5.0	.10	2.00	1.50	500	1.0	N	N	100	>10,000
KR191H	68 6 2	155 20 27	5.0	.20	1.50	>2.00	500	7.0	N	N	200	2,000
KR192H	68 6 47	155 31 33	7.0	.20	1.00	2.00	1,000	N	N	N	200	500
KR193H	68 7 33	155 45 28	7.0	.20	1.00	>2.00	1,500	N	N	N	500	5,000
KR194H	68 8 12	155 53 40	30.0	.20	.30	2.00	2,000	N	N	N	300	1,000
KR195H	68 10 33	155 59 36	30.0	.20	1.00	2.00	3,000	N	N	N	500	3,000
KR196H	68 12 30	155 35 58	7.0	.30	1.50	>2.00	1,500	N	N	N	300	5,000
KR197H	68 14 37	155 39 0	20.0	.20	.70	2.00	2,000	N	N	N	500	>10,000
KR198H	68 15 45	155 38 28	20.0	.20	1.00	>2.00	2,000	N	N	N	500	1,500
KR199H	68 16 35	155 37 58	30.0	.20	3.00	2.00	3,000	N	N	N	500	1,000
KR200H	68 14 2	153 35 58	30.0	1.00	.70	2.00	1,500	N	N	N	500	10,000
KR201H	68 17 32	153 38 55	3.0	.20	7.00	>2.00	1,000	N	N	N	300	10,000
KR202H	68 19 37	153 38 58	30.0	.20	3.00	2.00	3,000	N	N	N	500	10,000
KR203H	68 18 34	153 34 10	5.0	.30	3.00	>2.00	1,500	N	N	N	500	700
KR204H	68 22 50	153 48 5	7.0	.30	3.00	>2.00	1,500	N	N	N	500	10,000
KR205H	68 23 35	153 37 25	7.0	.20	5.00	1.50	1,500	N	N	N	300	>10,000
KR206H	68 21 35	153 30 25	7.0	.20	5.00	>2.00	1,500	N	N	N	500	10,000
KR207H	68 21 28	153 25 25	7.0	.20	1.50	>2.00	1,500	N	N	N	300	7,000
KR208H	68 17 12	153 27 35	10.0	.30	1.00	>2.00	1,500	N	N	N	300	2,000
KR209H	68 17 12	153 28 15	5.0	.30	3.00	2.00	700	N	N	N	300	700
KR210H	68 15 55	153 11 50	30.0	.70	1.50	1.50	1,000	N	N	N	150	>10,000
KR211H	68 15 45	153 2 57	20.0	.20	2.00	1.50	700	1.0	N	N	300	>10,000
KR212H	68 19 20	153 7 2	15.0	.30	1.00	2.00	500	1.0	N	N	150	>10,000
KR213H	68 20 25	153 2 35	30.0	.20	5.00	.30	500	N	N	N	70	>10,000
KR215H	68 24 35	153 11 0	3.0	.10	1.50	.20	200	N	N	N	300	>10,000
KR216H	68 12 0	155 2 0	30.0	.20	1.00	1.50	2,000	N	N	N	300	10,000
KR217H	68 14 35	155 8 10	30.0	.20	1.00	1.50	1,500	N	N	N	500	>10,000
KR218H	68 13 12	155 10 55	30.0	.15	1.00	2.00	2,000	N	N	N	500	3,000
KR219H	68 12 38	155 13 38	30.0	.15	1.00	1.50	1,500	N	N	N	200	>10,000
KR220H	68 11 10	155 12 45	30.0	.15	1.00	2.00	2,000	2.0	N	N	300	2,000
KR221H	68 9 22	155 10 35	10.0	.10	1.50	2.00	1,000	7.0	N	N	500	3,000
KR222H	68 5 2	155 3 28	30.0	.10	1.00	2.00	1,500	N	N	N	500	700
KR223H	68 4 32	154 58 28	20.0	.20	1.50	>2.00	1,000	N	N	N	300	500
KR224H	68 4 33	154 46 56	20.0	.20	2.00	>2.00	1,500	N	N	N	300	700
KR225H	68 4 58	154 42 3	20.0	.30	2.00	>2.00	1,500	N	N	N	300	1,000
KR226H	68 3 18	154 36 58	20.0	.30	2.00	2.00	1,000	N	N	N	200	2,000
KR227H	68 0 25	154 46 55	7.0	.20	2.00	>2.00	1,000	N	N	N	300	700

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
KR182H	N	N	N	30	500	300	300	N	100	50	1,500	N	20
KR183H	N	N	N	30	500	50	200	N	50	70	150	N	15
KR184H	N	N	N	30	500	150	300	N	50	50	1,000	N	10
KR185H	N	N	N	20	100	70	500	N	70	50	2,000	N	10
KR186H	N	N	N	20	50	200	300	N	N	70	200	N	N
KR187H	N	N	N	20	200	100	500	N	50	70	300	N	10
KR188H	N	N	N	30	100	300	300	N	N	70	300	N	10
KR189H	N	N	N	20	70	200	300	N	<50	70	200	N	10
KR190H	N	N	N	50	70	200	300	N	N	70	500	N	10
KR191H	N	N	N	20	200	70	300	N	50	70	3,000	N	20
KR192H	N	N	N	20	150	300	300	N	<50	70	100	N	N
KR193H	N	N	N	30	500	50	500	N	70	100	150	N	20
KR194H	N	N	N	50	100	150	100	N	N	100	70	N	15
KR195H	N	N	N	50	100	70	200	N	N	70	100	N	10
KR196H	N	N	N	30	300	100	700	N	70	100	200	N	10
KR197H	N	N	N	50	200	100	200	N	N	70	700	N	15
KR198H	N	N	N	30	500	100	500	N	70	100	200	N	15
KR199H	N	N	N	50	150	100	500	N	N	70	70	N	10
KR200H	N	N	N	50	300	1,000	500	N	N	100	700	N	20
KR201H	N	N	N	20	100	700	700	N	50	70	1,000	N	15
KR202H	N	N	N	30	100	150	500	N	<50	70	150	N	20
KR203H	N	N	N	20	150	50	700	N	70	70	100	N	15
KR204H	N	N	N	30	700	70	1,000	N	70	100	100	N	15
KR205H	N	N	N	20	150	50	300	N	N	70	50	N	10
KR206H	N	N	N	30	100	200	700	N	50	70	100	N	30
KR207H	N	N	N	20	100	70	500	N	50	70	50	N	10
KR208H	N	N	N	30	150	100	300	N	50	70	100	N	10
KR209H	N	N	N	15	150	20	1,000	N	50	70	70	N	10
KR210H	N	N	N	50	100	1,000	200	N	N	70	500	N	15
KR211H	N	N	N	20	70	100	500	N	N	70	70	N	10
KR212H	N	N	N	30	150	500	500	N	N	100	1,500	N	10
KR213H	N	N	N	30	100	1,000	300	N	N	70	70	N	N
KR215H	N	N	N	N	20	10	50	N	N	20	N	N	N
KR216H	N	N	N	150	150	1,000	300	N	N	100	700	N	20
KR217H	N	N	N	50	100	300	300	N	N	100	200	N	15
KR218H	N	N	N	50	150	150	300	N	N	100	300	N	10
KR219H	N	N	N	30	100	100	200	N	N	100	50	N	10
KR220H	N	N	N	50	100	500	300	N	N	100	1,500	N	10
KR221H	N	N	N	30	200	1,000	300	N	70	100	7,000	N	10
KR222H	N	N	N	30	200	50	300	N	50	100	300	N	10
KR223H	N	N	N	30	200	100	300	N	50	100	300	N	10
KR224H	N	N	N	30	200	150	500	N	70	100	100	N	10
KR225H	N	N	N	30	200	70	700	N	70	100	70	N	10
KR226H	N	N	N	50	200	500	500	N	<50	100	150	N	10
KR227H	N	N	N	30	200	150	500	N	50	100	200	N	10

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
KR182H	N	500	300	N	150	3,000	2,000	N
KR183H	N	N	200	N	150	N	>2,000	N
KR184H	N	200	300	N	150	N	1,500	N
KR185H	N	300	200	N	150	N	>2,000	N
KR186H	N	700	100	N	70	700	>2,000	N
KR187H	N	700	200	N	100	3,000	>2,000	N
KR188H	N	700	150	N	700	3,000	2,000	N
KR189H	N	700	150	N	200	N	>2,000	N
KR190H	N	1,000	150	N	300	5,000	2,000	N
KR191H	N	500	300	N	300	3,000	>2,000	N
KR192H	N	N	200	N	200	N	1,500	N
KR193H	30	700	300	N	300	3,000	>2,000	N
KR194H	N	N	200	N	100	500	2,000	N
KR195H	N	200	200	N	300	N	1,500	N
KR196H	N	700	200	N	300	3,000	>2,000	N
KR197H	N	200	200	N	100	2,000	2,000	N
KR198H	N	500	200	N	150	500	>2,000	N
KR199H	N	500	200	N	150	N	2,000	N
KR200H	N	300	200	N	150	N	>2,000	N
KR201H	N	700	200	N	300	3,000	>2,000	N
KR202H	N	500	200	N	300	N	2,000	N
KR203H	<20	1,000	200	N	200	N	>2,000	N
KR204H	<20	1,000	300	N	200	N	>2,000	N
KR205H	N	700	200	N	200	700	2,000	N
KR206H	N	700	200	N	300	1,000	>2,000	N
KR207H	N	500	200	N	200	N	2,000	N
KR208H	N	N	200	N	200	1,000	>2,000	N
KR209H	N	1,000	100	N	300	N	2,000	N
KR210H	N	2,000	100	N	200	10,000	2,000	N
KR211H	N	700	100	N	200	3,000	1,000	N
KR212H	N	700	100	N	200	5,000	2,000	N
KR213H	N	1,000	70	N	200	10,000	700	N
KR215H	N	1,500	150	N	70	N	150	N
KR216H	N	200	100	N	150	5,000	2,000	N
KR217H	N	200	100	N	150	2,000	2,000	N
KR218H	N	N	200	N	150	2,000	1,000	N
KR219H	N	200	150	N	150	N	1,500	N
KR220H	N	N	150	N	150	700	1,500	N
KR221H	<20	200	150	N	150	500	>2,000	N
KR222H	<20	N	200	N	150	500	1,500	N
KR223H	30	500	200	N	200	N	>2,000	N
KR224H	30	700	200	N	200	N	>2,000	N
KR225H	<20	1,000	150	N	200	N	>2,000	N
KR226H	N	200	150	N	200	3,000	>2,000	N
KR227H	20	700	200	N	200	700	>2,000	N

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
KR228H	68 1 27	155 5 12	10.0	.20	1.50	>2.00	1,000	N	N	N	300	3,000
KR229H	68 0 0	155 15 0	20.0	.20	1.50	2.00	1,000	N	N	N	500	300
KR230H	68 0 0	155 18 40	30.0	.20	1.50	1.50	1,500	N	N	N	500	500
KR231H	68 1 0	155 35 49	30.0	.30	.70	2.00	1,500	N	N	N	500	500
KR232H	68 4 32	155 31 33	20.0	.20	2.00	>2.00	1,000	N	N	N	500	1,500
KR233H	68 4 28	155 20 58	10.0	.30	1.00	2.00	1,500	N	N	N	200	700
KR234H	68 4 28	155 12 32	7.0	.20	1.50	>2.00	1,000	N	N	N	500	700
KR235H	68 12 37	154 42 6	7.0	.30	1.00	>2.00	500	N	N	N	300	>10,000
KR236H	68 13 50	154 54 2	7.0	.20	1.50	>2.00	1,500	N	N	N	300	>10,000
KR237H	68 17 5	154 45 33	10.0	.30	1.00	>2.00	1,500	N	N	N	200	10,000
KR238H	68 18 52	154 26 54	15.0	.20	3.00	2.00	2,000	2.0	N	N	200	>10,000
KR239H	68 17 40	154 20 24	10.0	.30	1.50	2.00	1,000	1.5	N	N	200	>10,000
KR240H	68 6 35	155 24 45	10.0	.30	1.00	2.00	1,500	2.0	N	N	200	7,000
KR241H	68 6 32	155 38 2	10.0	.30	2.00	2.00	1,500	N	N	N	200	1,500
KR242H	68 7 47	155 48 25	30.0	.20	.20	1.50	5,000	N	N	N	200	1,000
KR243H	68 9 35	155 57 38	30.0	.20	.20	1.50	7,000	N	N	N	100	5,000
KR244H	68 11 56	155 36 45	20.0	.20	.50	1.50	1,500	N	N	N	100	300
KR245H	68 14 2	155 36 8	30.0	.30	.20	1.00	5,000	N	N	N	100	3,000
KR246H	68 15 32	155 35 4	20.0	.20	.50	2.00	3,000	N	N	N	500	2,000
KR247H	68 17 28	155 33 58	30.0	.30	1.00	1.00	5,000	1.0	N	N	150	5,000
KR248H	68 18 25	155 41 0	30.0	.30	.50	1.50	3,000	N	N	N	150	10,000
KR249H	68 10 58	155 23 50	30.0	.20	.20	1.50	3,000	N	N	N	200	5,000
KR250H	68 11 48	155 24 5	30.0	.20	.10	1.50	5,000	N	N	N	200	500
KR251H	68 13 47	155 21 2	20.0	.20	.50	1.50	2,000	N	N	N	100	>10,000
KR252H	68 15 28	155 22 2	30.0	.20	.20	1.00	3,000	N	N	N	300	10,000
KR253H	68 17 22	155 21 35	20.0	.30	.70	>2.00	5,000	1.5	N	N	200	3,000
KR254H	68 18 2	155 19 35	20.0	.30	.70	2.00	5,000	N	N	N	100	10,000
KR255H	68 15 48	155 1 18	20.0	.30	.70	.50	5,000	N	N	N	100	>10,000
KR300H	68 9 35	155 22 0	15.0	.30	.70	2.00	2,000	N	N	N	200	2,000
KR301H	68 10 50	155 25 58	7.0	.20	.70	.70	1,000	N	N	N	100	>10,000
KR302H	68 12 15	155 27 25	10.0	.30	1.00	2.00	2,000	7.0	N	N	200	700
KR303H	68 14 32	155 27 48	10.0	.20	.70	>2.00	2,000	N	N	N	200	1,000
KR304H	68 15 57	155 26 45	7.0	.20	.70	>2.00	700	N	N	N	150	7,000
KR305H	68 16 47	155 26 25	10.0	.15	1.00	2.00	2,000	N	N	N	150	10,000
KR306H	68 17 50	155 26 12	10.0	.15	1.50	2.00	1,500	7.0	N	N	500	>10,000

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
KR228H	N	N	N	70	200	70	700	N	50	100	500	N	10
KR229H	N	N	N	50	200	200	700	N	<50	100	200	N	10
KR230H	N	N	N	50	100	200	500	N	N	100	70	N	10
KR231H	N	N	N	50	100	100	200	N	N	100	100	N	10
KR232H	N	N	N	50	200	150	500	N	70	100	700	N	10
KR233H	N	N	N	30	300	300	500	N	50	70	70	N	10
KR234H	N	N	N	20	300	150	300	N	50	100	300	N	10
KR235H	N	N	N	15	200	70	500	N	<50	70	200	N	10
KR236H	N	N	N	30	150	200	500	N	<50	70	200	N	10
KR237H	N	N	N	30	150	200	500	N	<50	100	70	N	10
KR238H	N	N	N	30	100	500	300	N	<50	70	100	N	10
KR239H	N	N	N	30	200	1,000	500	N	<50	70	500	N	10
KR240H	N	N	N	30	200	150	500	N	<50	70	2,000	N	10
KR241H	N	N	N	30	200	70	300	N	<50	70	300	N	10
KR242H	N	N	N	30	150	50	100	N	N	70	30	N	15
KR243H	N	N	N	50	100	50	150	N	N	70	300	N	15
KR244H	N	N	N	30	150	50	200	N	N	50	150	N	10
KR245H	N	N	N	50	500	150	300	N	N	100	500	N	15
KR246H	N	N	N	50	100	150	300	N	<50	70	70	N	10
KR247H	N	N	N	50	100	100	500	N	N	70	100	N	10
KR248H	N	N	N	50	200	1,000	500	N	<50	100	100	N	15
KR249H	N	N	N	50	150	150	300	N	<50	100	70	N	15
KR250H	N	N	N	50	200	150	300	N	N	100	700	N	15
KR251H	N	N	N	30	150	500	300	N	N	100	500	N	10
KR252H	N	N	N	50	100	150	300	N	N	70	500	N	15
KR253H	N	N	N	50	150	300	700	N	100	100	300	N	10
KR254H	N	N	N	50	200	100	500	N	N	100	500	N	10
KR255H	N	N	N	50	200	700	200	N	N	70	50	N	10
KR300H	N	N	N	50	150	100	500	N	<50	100	500	N	10
KR301H	N	N	N	30	70	100	200	N	N	70	1,000	N	N
KR302H	N	N	N	50	70	300	500	N	<50	100	1,000	N	10
KR303H	N	N	N	50	300	300	500	N	50	100	150	N	10
KR304H	N	N	N	50	200	200	700	N	50	100	300	N	10
KR305H	N	N	N	50	70	500	700	N	50	70	100	N	<10
KR306H	N	N	N	50	70	1,000	700	N	50	100	1,000	N	<10

Spectrographic Analysis of Heavy Mineral Concentrates--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
KR228H	30	500	150	N	200	N	>2,000	N
KR229H	N	300	150	N	200	N	2,000	N
KR230H	N	N	150	N	200	2,000	1,000	N
KR231H	N	N	150	N	150	N	1,500	N
KR232H	30	1,000	200	N	300	5,000	>2,000	N
KR233H	N	300	200	N	200	5,000	1,000	N
KR234H	20	200	300	N	200	N	>2,000	N
KR235H	N	700	200	N	200	N	>2,000	N
KR236H	N	1,000	200	N	200	3,000	>2,000	N
KR237H	N	700	200	N	200	N	>2,000	N
KR238H	N	500	200	N	300	N	>2,000	N
KR239H	N	1,000	200	N	200	2,000	>2,000	N
KR240H	N	N	200	N	200	2,000	>2,000	N
KR241H	N	N	200	N	200	N	>2,000	N
KR242H	N	N	200	N	70	N	1,500	N
KR243H	N	N	200	N	70	N	1,500	N
KR244H	N	N	200	N	100	N	500	N
KR245H	N	N	200	N	100	5,000	1,000	N
KR246H	N	N	200	N	100	N	1,000	N
KR247H	N	200	150	N	150	3,000	500	N
KR248H	N	200	150	N	100	7,000	700	N
KR249H	N	N	200	N	100	1,500	1,000	N
KR250H	N	N	200	N	100	N	>2,000	N
KR251H	N	N	200	N	100	1,500	>2,000	N
KR252H	N	N	200	N	70	3,000	1,500	N
KR253H	N	300	200	N	150	2,000	2,000	N
KR254H	N	200	150	N	100	3,000	1,500	N
KR255H	N	200	150	N	100	N	150	N
KR300H	N	N	200	N	150	1,000	2,000	N
KR301H	N	2,000	70	N	100	N	200	N
KR302H	N	N	150	N	200	7,000	>2,000	N
KR303H	N	N	150	N	150	N	2,000	N
KR304H	N	200	200	N	200	N	>2,000	N
KR305H	N	200	150	N	150	1,000	1,500	N
KR306H	N	300	150	N	200	2,000	2,000	N