UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results and sample locality map of stream-sediment and heavy-mineral-concentrate samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Clearwater and Idaho Counties, Idaho

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STUDIES RELATED TO WILDERNESS

The Wilderness Act (Public Law 88-577, September 3, 1964) and related acts require the U.S. Geological Survey and the U.S. Bureau of Mines to survey certain areas on Federal lands to determine their mineral values, if any. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a geochemical survey of the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas (SMA), Clearwater National Forest, Clearwater and Idaho Counties, Idaho.

INTRODUCTION

In October 1989, the U.S. Geological Survey conducted a reconnaissance geochemical survey of the Kelly-Cayuse Wilderness--Proposed and the Cook Mountain and East Weitas Special Clearwater Management Areas (SMA), in the Clearwater National Forest, Clearwater and Idaho Counties, Idaho (fig. 1). Hereafter, this will be collectively referred to as the study area.

The 195,450-acre (305-mi^2) study area is approximately eight miles north of U.S. Highway 12, the route from Missoula, Montana, to Kooskia over Lolo Pass and along the Lochsa River. Bounded on the east by the Bitterroot Divide (Idaho-Montana border), the study area extends approximately 36 miles to the west and is about 13 miles wide. Access to the study area is by improved Forest Service roads from Highway 12 to the south and from the town of Pierce to the west. A helicopter based in Missoula, approximately 40 miles to the east, was used in the collection of geochemical samples.

The Kelly-Cayuse Wilderness--Proposed is mainly underlain by Tertiary granite except for an enclave of Proterozoic rocks of the Belt Supergroup along Lunde Ridge near the center of the southwestern segment of the proposed wilderness. Cretaceous granite of the Idaho-Bitterroot batholith underlies most of the Cook Mountain and East Weitas SMA's, with the exception of approximately the northern quarter of the East Weitas SMA where rocks of the Belt Supergroup again occur. These rocks also occur along the northern fringe of the entire study area (Rember and Bennett, 1979).

Elevations range from a maximum of 7930 feet at Rhodes Peak near the Bitterroot divide on the eastern boundary down to 2357 feet at Weitas Creek Campground where the North Fork of the Clearwater River exits the western edge of the study area. The rugged terrain is heavily forested except for the area above timberline along the Bitterroot divide and an area in the west that was burned during the early part of the century.

METHODS OF STUDY

Sample Media

Analyses of the stream-sediment samples represent the chemistry of the rock material eroded from the drainage basin upstream from each sample site. Such information is useful in identifying those basins that contain concentrations of elements that may be related to mineral deposits.
Heavy-mineral-concentrate samples provide information about the chemistry of certain minerals in rock material eroded from the drainage basin upstream from each sample site. The selective concentration of minerals, many of which may be ore related, permits determination of some elements that are not easily detected in stream-sediment samples.

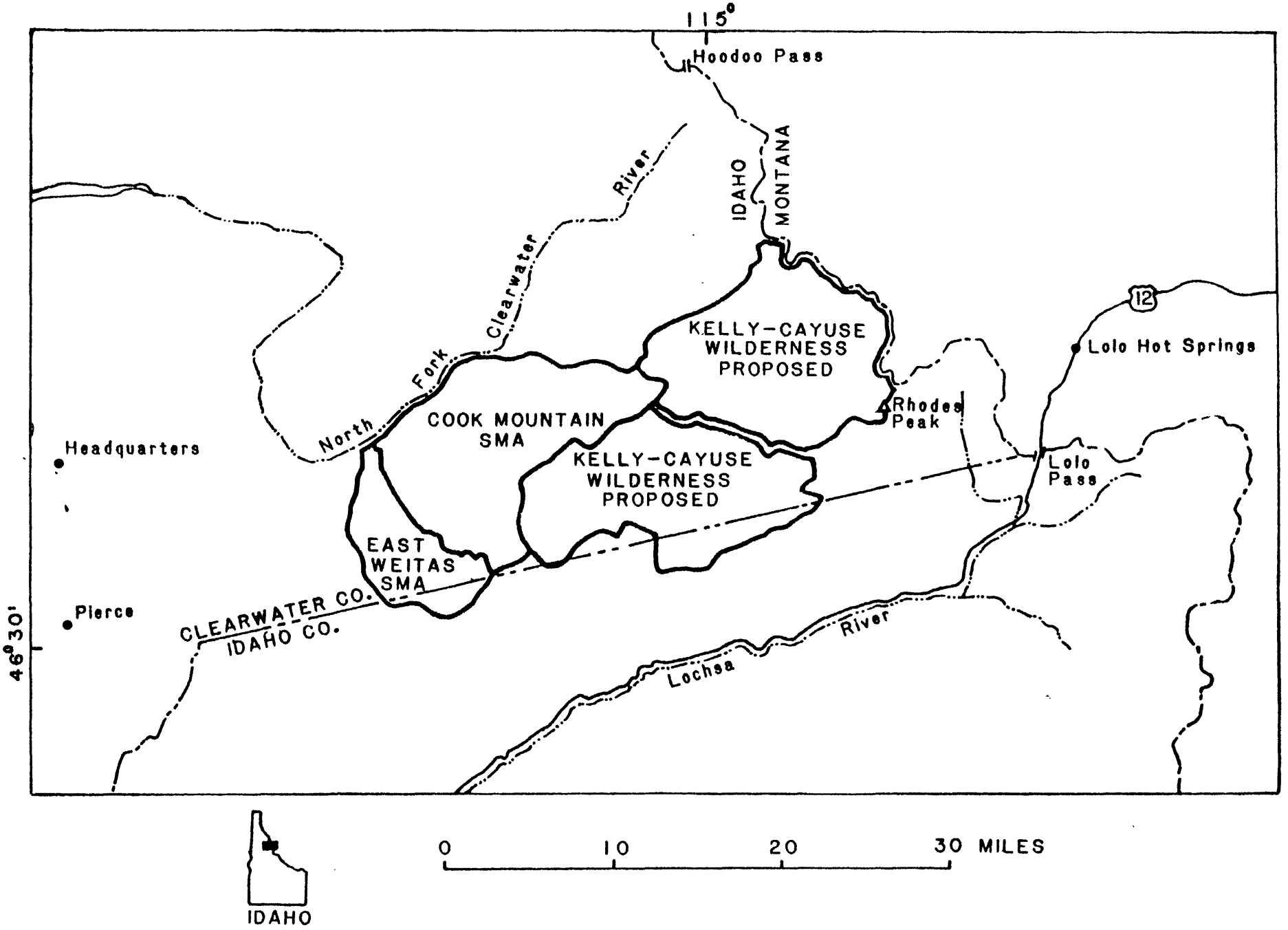

Figure 1. Location of the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Clearwater and Idaho Counties, Idaho.

Sample Collection

Stream-sediment samples were collected at 138 sites (plate 1). Heavy-mineral-concentrate samples were collected at all but three sites. Sampling density was about one sample site per 2.2 mi^2. The area of the drainage basins sampled ranged from 0.5 mi^2 to 5 mi^2.

Stream-sediment samples

The stream-sediment samples consisted of active alluvium collected primarily from first-order (unbranched) and second-order (below the junction of two first-order) streams as shown on USGS topographic maps (scale = 1:24,000) (plate 1). Each sample was composited from several localities within an area that may extend as much as 20 ft from the site plotted on the map.

Heavy-mineral-concentrate samples

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

Sample Preparation

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

Samples that had been panned in the field were air dried and sieved to -35 mesh; the remaining quartz and feldspar were removed by flotation in bromoform (specific gravity 2.85). The resultant heavy-mineral sample was separated into three fractions using a large electromagnet (in this case a modified Frantz Isodynamic Separator). The most magnetic material (removed at a setting of 0.25 ampere), primarily magnetite, was not analyzed. The second fraction (removed at a setting of 1.75 ampere), largely ferromagnesian silicates and iron oxides, was saved for archival storage. The third fraction (the nonmagnetic material which may include the nonmagnetic ore minerals, zircon, sphene, etc.) was split using a Jones splitter. One split was hand ground for spectrographic analysis; the other split was saved for mineralogical analysis. (These magnetic separates are the same separates that would be produced by using a Frantz Isodynamic Separator set at a slope of 15° and a tilt of 10° with a current of 0.2 ampere to remove the magnetite and ilmenite, and a current of 0.6 ampere to split the remainder of the sample into paramagnetic and nonmagnetic fractions.)

Sample Analysis

Spectrographic method

The stream-sediment samples were analyzed for 35 elements and the heavy-mineral-concentrate samples were analyzed for 37 elements using a semiquantitative, direct-current arc emission spectrographic method (modification of Grimes and Marranzino, 1968, and Myers and others, 1961). The elements analyzed and their lower limits of determination are listed in table 1. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are

geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Values determined for the major elements, iron, magnesium, calcium, and titanium, are given in weight percent; all others are given in parts per million (micrograms/gram). Analytical data for samples from the study area are listed in tables 3 and 4.

Chemical methods

Stream-sediment samples from this study area were also analyzed by other analytical methods. They were analyzed for gold using graphite furnace (flameless) atomic absorption spectroscopy and for antimony, arsenic, bismuth, cadmium, copper, gold, lead, molybdenum, silver, and zinc using inductively coupled plasma-atomic absorption spectroscopy. See table 2 for a more detailed summary of these other chemical methods used.

Analytical results for stream-sediment samples are listed in table 3.

DATA STORAGE SYSTEM

Upon completion of all analytical work, the analytical results were entered into the Branch of Geochemistry's computer data base called PLUTO. This data base contains both descriptive geological information and analytical data. Any or all of this information may be retrieved and converted to a binary form (STATPAC) for computerized statistical analysis or publication (VanTrump and Miesch, 1977).

DESCRIPTION OF DATA TABLES

Tables 3 and 4 list the results of analyses for the samples of stream sediment and heavy-mineral concentrate, respectively. For the two tables, the data are arranged so that column 1 contains the USGS-assigned sample numbers. These numbers correspond to the numbers shown on the site location map (plate 1). Columns in which the element headings show the letter "s" after the element symbol are six-step semiquantitative emission spectrographic analyses; "faa" indicates graphite furnace (flameless) atomic absorption spectroscopic analyses; and "icp" indicates inductively coupled plasma-atomic emission spectroscopic analyses. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination shown for that element in table 1. A "less than" symbol (<) entered in the tables in front of the lower limit of determination indicates that an element was observed but was below the lowest reporting value. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the tables in front of the upper limit of determination. If an element was not looked for in a sample, two dashes (--) are entered in tables 3 and 4 in place of an analytical value.

REFERENCES CITED

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

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

Elements	Lower determination limit	Upper determination limit
	Percent	
Calcium (Ca)	.05	20
Iron (Fe)	0.05	20
Magnesium (Mg)	.02	10
Sodium (Na)	0.2	5
Phosphorus (P)	0.2	10
Titanium (Ti)	.002	1
	Parts per million	
Silver (Ag)	0.5	5,000
Arsenic (As)	200	10,000
Gold (Au)	10	500
Boron (B)	10	2,000
Barium (Ba)	20	5,000
Beryllium (Be)	1	1,000
Bismuth (Bi)	10	1,000
Cadmium (Cd)	20	500
Cobalt (Co)	10	2,000
Chromium (Cr)	10	5,000
Copper (Cu)	5	20,000
Gallium (Ga)	5	500
Germanium (Ge)	10	100
Lanthanum (La)	50	1,000
Manganese (Mn)	10	5,000
Molybdenum (Mo)	5	2,000
Niobium (Nb)	20	2,000
Nickel (Ni)	5	5,000
Lead (Pb)	10	20,000
Antimony (Sb)	100	10,000
Scandium (Sc)	5	100
Tin (Sn)	10	1,000
Strontium (Sr)	100	5,000
Thorium (Th)	100	2,000
Vanadium (V)	10	10,000
Tungsten (W)	20	10,000
Yttrium (Y)	10	2,000
Zinc (Zn)	200	10,000
Zirconium (Zr)	10	1,000
Palladium (Pd)*	5	1,000
Platinum (Pt)*	20	1,000

*Determined in heavy-mineral-concentrate samples only. Limits are for heavy-mineral-concentrate samples.

Table 2.–Other chemical methods used for stream sediments

[FAA = graphite furnace (flameless) atomic absorption spectroscopy;
ICP = inductively coupled plasma-atomic emission spectroscopy;
ppm = parts per million]

Element or constituent determined	Method	Determination limit (micrograms/ gram or ppm)	Reference
Gold (Au)	FAA	0.002	Meier, 1980.
Arsenic (As)	ICP	.60	Motooka, 1988.
Antimony (Sb)	ICP	.60	
Bismuth (Bi)	ICP	.60	
Cadmium (Cd)	ICP	.030	
Copper (Cu)	ICP	.050	
Gold (Au)	ICP	.15	
Lead (Pb)	ICP	.60	
Molybdenum (Mo)	ICP	.090	
Silver (Ag)	ICP	.045	
Zinc (Zn)	ICP	.050	

Table 3. Results of analyses of stream-sediment samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.

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

KC001S	46 48 26	114 56 29	1.5	1	.3	.15	300	N	N	N
KC002S	46 45 39	114 57 32	2	1	.5	.2	300	N	N	N
KC003S	46 45 12	114 58 53	2	1.5	2	.15	500	N	N	N
KC004S	46 45 1	114 59 52	2	1	1.5	.15	500	N	N	N
KC005S	46 44 38	115 0 54	3	2	3	.5	700	N	N	N
KC006S	46 44 47	115 1 3	3	2	3	.2	700	N	N	N
KC007S	46 44 18	115 2 23	3	2	1.5	.3	500	N	N	N
KC008S	46 44 26	115 2 24	2	2	3	.2	700	N	N	N
KC009S	46 44 0	115 4 33	3	2	5	.5	700	N	N	N
KC010S	46 42 56	115 1 51	3	3	3	.3	700	N	N	N
KC011S	46 42 35	114 57 47	5	1	1.5	.3	700	N	N	N
KC012S	46 43 11	114 57 19	7	3	2	.3	700	N	N	N
KC013S	46 44 23	114 55 44	3	3	3	.3	700	N	N	N
KC014S	46 42 48	114 57 34	5	3	3	.5	700	N	N	N
KC015S	46 41 45	114 56 10	7	.7	2	.3	700	N	N	N
KC016S	46 41 38	114 55 29	3	.7	1.5	.2	700	N	N	N
KC017S	46 41 38	114 53 53	3	.7	1.5	.3	500	N	N	N
KC018S	46 40 33	114 51 1	2	.7	1	.3	500	N	N	N
KC019S	46 39 41	114 52 6	3	1	1.5	.5	700	N	N	N
KC020S	46 42 38	114 51 46	2	1	1	.3	300	N	N	N
KC021S	46 41 54	114 49 7	3	1	1	.3	700	N	N	N
KC022S	46 41 54	114 49 2	3	.7	.7	.3	700	N	N	N
KC023S	46 40 55	114 48 21	3	1	1	.2	700	N	N	N
KC024S	46 40 57	114 48 18	3	.7	.7	.3	500	N	N	N
KC025S	46 41 54	114 47 16	1.5	.7	1.5	.3	700	N	N	N
KC026S	46 41 53	114 47 11	3	.7	.7	.5	700	N	N	N
KC027S	46 44 27	114 50 2	5	1	.7	.5	700	N	N	N
KC028S	46 44 54	114 48 52	2	.5	.15	.3	150	N	N	N
KC029S	46 44 42	114 48 54	3	1	1.5	.3	500	N	N	N
KC030S	46 44 52	114 48 48	3	.7	.3	.3	200	N	N	N
KC031S	46 44 51	114 48 15	3	.7	.3	.3	200	N	N	N
KC032S	46 44 46	114 47 51	3	1.5	.7	.3	500	N	N	N
KC033S	46 44 48	114 47 51	2	.7	.5	.3	500	N	N	N
KC034S	46 45 1	114 52 16	2	3	1.5	.2	300	N	N	N
KC035S	46 46 55	114 52 8	1.5	.7	.3	.2	500	N	N	N
KC036S	46 46 54	114 52 2	3	1	.3	.3	500	N	N	N
KC037S	46 36 6	114 53 37	10	1	2	.3	700	N	N	N
KC038S	46 36 2	114 53 36	5	1	2	.3	700	N	N	N
KC039S	46 35 23	114 53 3	3	2	5	.3	700	N	N	N
KC040S	46 36 13	114 54 5	3	1	2	.3	700	N	N	N
KC041S	46 35 19	114 55 43	5	2	3	.3	700	N	N	N
KC042S	46 34 58	114 55 57	3	1.5	1.5	.3	700	N	N	N
KC043S	46 35 6	114 57 21	2	2	2	.2	500	N	N	N
KC044S	46 34 55	114 57 33	2	.7	.7	.15	300	N	N	N
KC045S	46 34 58	114 58 41	3	2	3	.3	700	N	N	N
KC046S	46 35 31	115 0 45	1.5	.3	.3	.15	300	N	N	N
KC047S	46 35 40	115 0 50	3	1	1.5	.2	300	N	N	N
KC048S	46 35 43	115 2 0	3	1.5	1.5	.3	500	N	N	N
KC049S	46 35 37	115 2 6	3	.5	.3	.3	500	N	N	N
KC050S	46 41 50	115 1 24	3	1	1.5	.3	700	N	N	N
KC051S	46 41 27	115 2 4	5	.7	1.5	.3	700	N	N	N
KC052S	46 40 34	115 2 52	5	.7	1.5	.3	700	N	N	N
KC053S	46 39 34	115 2 23	5	.7	1.5	.3	700	N	N	N
KC054S	46 39 11	115 1 10	5	1	2	.3	700	N	N	N
KC055S	46 39 2	115 1 5	7	1	2	.3	700	N	N	N
KC056S	46 38 43	114 59 55	5	.7	1.5	.3	700	N	N	N
KC057S	46 38 50	114 59 49	3	1	2	.3	700	N	N	N
KC058S	46 38 37	114 59 7	3	.7	1.5	.15	700	N	N	N
KC059S	46 38 30	114 59 9	5	1	1.5	.3	700	N	N	N
KC060S	46 38 7	114 58 4	10	.7	.7	.3	700	N	N	N

Table 3. Results of analyses of stream-sediment samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	B ppm-s	Ba ppm-s	Be ppm-s	Bi ppm-s	Cd ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	La ppm-s	Mo ppm-s
KC001S	30	700	1.5	N	N	10	15	10	50	N
KC002S	50	300	1.5	N	N	15	20	15	50	N
KC003S	20	500	1.5	N	N	20	15	10	50	N
KC004S	30	500	1.5	N	N	15	10	7	50	N
KC005S	30	300	1	N	N	20	100	7	50	N
KC006S	30	700	1.5	N	N	15	15	10	50	N
KC007S	30	300	1.5	N	N	20	70	10	100	N
KC008S	30	1,000	1.5	N	N	15	50	10	100	N
KC009S	30	500	1.5	N	N	15	70	7	150	N
KC010S	10	300	1.5	N	N	30	150	20	150	N
KC011S	15	700	1.5	N	N	15	30	7	200	N
KC012S	30	300	1	N	N	30	200	15	<50	N
KC013S	30	150	<1	N	N	30	200	30	N	N
KC014S	20	300	1	N	N	30	200	15	70	N
KC015S	N	700	1	N	N	15	100	7	300	N
KC016S	15	700	1.5	N	N	15	50	7	50	N
KC017S	15	700	1	N	N	15	30	20	150	N
KC018S	15	700	2	N	N	15	30	20	70	N
KC019S	20	700	1.5	N	N	15	50	20	150	N
KC020S	30	500	1.5	N	N	15	50	15	<50	N
KC021S	15	700	2	N	N	20	100	20	100	N
KC022S	20	500	2	N	N	10	20	10	50	N
KC023S	20	500	1.5	N	N	15	30	20	<50	N
KC024S	20	500	2	N	N	10	20	7	100	<5
KC025S	15	700	3	N	N	<10	20	7	100	N
KC026S	10	500	3	N	N	10	50	7	200	5
KC027S	50	200	1	N	N	20	30	30	150	N
KC028S	30	150	1	N	N	15	20	5	70	N
KC029S	30	300	1.5	N	N	15	30	20	150	N
KC030S	50	200	1.5	N	N	20	50	10	100	N
KC031S	50	300	1.5	N	N	20	30	10	100	N
KC032S	30	300	2	N	N	15	30	15	150	N
KC033S	20	200	2	N	N	10	15	7	150	N
KC034S	30	200	1	N	N	15	50	7	100	N
KC035S	50	500	1.5	N	N	<10	15	7	150	N
KC036S	30	500	1.5	N	N	15	30	15	150	N
KC037S	15	500	1	N	N	20	50	7	150	N
KC038S	30	700	1.5	N	N	15	70	10	150	N
KC039S	20	300	2	N	N	15	70	10	50	N
KC040S	20	700	1.5	N	N	15	70	7	70	N
KC041S	15	300	1	N	N	15	50	7	100	N
KC042S	<10	500	3	N	N	15	15	7	50	N
KC043S	10	500	1.5	N	N	10	30	10	150	N
KC044S	10	150	5	N	N	<10	<10	5	70	N
KC045S	10	700	2	N	N	15	70	20	150	N
KC046S	<10	300	3	N	N	N	N	<5	70	N
KC047S	30	700	1.5	N	N	15	70	15	70	N
KC048S	20	700	1.5	N	N	15	70	10	200	N
KC049S	10	300	3	N	N	N	10	5	200	N
KC050S	10	500	2	500	N	<10	30	15	500	N
KC051S	10	500	2	N	N	<10	10	5	500	N
KC052S	10	700	1.5	N	N	10	30	5	200	N
KC053S	10	700	1.5	N	N	15	30	7	200	N
KC054S	<10	700	1.5	N	N	15	50	5	200	N
KC055S	10	700	1.5	N	N	15	70	5	200	N
KC056S	15	700	1.5	N	N	10	50	7	300	N
KC057S	10	700	1.5	N	N	10	30	20	150	N
KC058S	10	1,000	1.5	N	N	<10	<10	5	<50	N
KC059S	10	700	1.5	N	N	15	30	10	200	N
KC060S	N	500	<1	N	N	15	70	10	300	N

Table 3. Results of analyses of stream-sediment samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	Nb ppm-s	Ni ppm-s	Pb ppm-s	Sb ppm-s	Sc ppm-s	Sn ppm-s	Sr ppm-s	V ppm-s	W ppm-s	Y ppm-s
KC001S	<20	7	30	N	7	N	N	50	N	70
KC002S	<20	20	30	N	7	N	N	50	N	30
KC003S	<20	10	15	N	10	N	<100	70	N	30
KC004S	<20	15	15	N	10	N	<100	70	N	30
KC005S	<20	30	20	N	20	N	300	150	N	50
KC006S	<20	10	20	N	15	N	<100	70	N	70
KC007S	<20	30	15	N	15	N	150	100	N	50
KC008S	<20	20	20	N	10	N	150	70	N	100
KC009S	<20	15	30	N	15	N	200	100	N	70
KC010S	<20	50	20	N	20	N	200	100	N	50
KC011S	<20	5	30	N	15	N	500	100	N	30
KC012S	<20	70	20	N	20	N	500	150	N	30
KC013S	<20	70	20	N	30	N	300	150	N	30
KC014S	<20	70	20	N	30	N	500	150	N	70
KC015S	<20	70	30	N	20	N	500	200	N	70
KC016S	<20	7	50	N	15	N	700	150	N	30
KC017S	20	7	30	N	15	N	300	150	N	50
KC018S	<20	7	70	N	10	N	300	70	N	30
KC019S	<20	7	70	N	10	N	500	100	N	30
KC020S	<20	15	15	N	15	N	300	100	N	30
KC021S	<20	30	50	N	15	N	500	150	N	30
KC022S	20	15	50	N	10	<10	200	70	N	30
KC023S	N	15	70	N	7	N	300	70	N	20
KC024S	30	5	50	N	10	10	200	70	N	70
KC025S	20	<5	50	N	7	N	500	70	N	50
KC026S	30	5	70	N	7	15	200	100	N	70
KC027S	<20	15	15	N	15	N	N	150	N	70
KC028S	<20	15	<10	N	7	N	N	70	N	50
KC029S	<20	10	20	N	10	N	<100	70	N	50
KC030S	<20	15	15	N	7	N	N	100	N	70
KC031S	<20	15	20	N	10	N	<100	100	N	50
KC032S	<20	10	30	N	10	N	N	100	N	30
KC033S	<20	7	20	N	7	N	<100	70	N	30
KC034S	<20	15	15	N	10	N	N	70	N	30
KC035S	<20	7	10	N	7	N	N	70	N	30
KC036S	<20	15	30	N	7	N	N	100	N	70
KC037S	<20	10	50	N	20	N	500	150	N	50
KC038S	<20	7	50	N	15	N	300	150	N	50
KC039S	<20	15	30	N	15	N	150	70	N	50
KC040S	<20	10	50	N	15	N	500	150	N	30
KC041S	<20	10	30	N	15	N	300	150	N	30
KC042S	<20	10	30	N	10	N	500	100	20	30
KC043S	<20	20	20	N	10	N	150	70	N	30
KC044S	30	7	50	N	7	15	150	70	N	70
KC045S	<20	20	20	N	15	N	300	150	N	30
KC046S	20	<5	30	N	<5	10	150	20	N	20
KC047S	<20	20	30	N	10	N	200	70	N	30
KC048S	<20	30	30	N	10	N	300	70	N	30
KC049S	30	5	50	N	7	20	150	70	N	50
KC050S	20	5	30	N	10	N	200	70	N	50
KC051S	<20	5	30	N	10	N	300	100	N	50
KC052S	<20	<5	30	N	10	N	500	150	N	50
KC053S	<20	5	30	N	10	N	500	150	N	30
KC054S	<20	5	30	N	15	N	700	150	N	50
KC055S	<20	7	30	N	15	N	500	150	N	70
KC056S	<20	20	30	N	10	N	300	150	N	50
KC057S	<20	N	30	N	15	N	500	150	N	50
KC058S	N	5	30	N	7	N	500	100	N	20
KC059S	<20	10	50	N	10	N	300	150	N	30
KC060S	20	<5	30	N	7	N	200	200	N	50

Table 3. Results of analyses of stream-sediment samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	Zn ppm-s	Zr ppm-s	Na %-s	P %-s	Ga ppm-s	Ge ppm-s	Th ppm-s	Au ppm-faa	As ppm-icp	Bi ppm-icp
KC001S	N	100	1	N	15	N	N	N	3.4	N
KC002S	N	150	1	N	15	N	N	<.002	4.4	N
KC003S	N	150	1	N	15	N	N	<.002	N	N
KC004S	N	150	1	N	10	N	N	.028	N	N
KC005S	N	300	1.5	N	20	N	N	<.004	N	N
KC006S	N	150	1.5	N	20	N	N	N	.82	N
KC007S	N	200	1.5	N	20	N	N	<.002	N	N
KC008S	N	50	1	N	20	N	N	<.008	N	N
KC009S	N	200	2	N	30	N	N	<.002	N	N
KC010S	N	200	1.5	N	15	N	N	N	N	N
KC011S	N	500	2	<.2	30	N	N	N	5.9	N
KC012S	N	500	1.5	<.2	30	N	N	N	N	N
KC013S	N	200	1.5	N	20	N	N	N	N	N
KC014S	N	1,000	1.5	N	20	N	N	N	N	N
KC015S	N	>1,000	2	<.2	30	N	N	.02	15	N
KC016S	N	700	2	<.2	30	N	N	N	13	N
KC017S	N	700	1.5	<.2	30	N	N	N	4.6	N
KC018S	N	300	3	<.2	30	N	N	N	N	N
KC019S	N	700	3	<.2	50	N	N	N	8.1	N
KC020S	N	200	1.5	<.2	15	N	N	N	N	N
KC021S	N	300	3	<.2	30	N	N	N	.66	N
KC022S	N	1,000	1.5	N	20	N	N	N	1.5	N
KC023S	N	300	1.5	<.2	20	N	N	N	2	N
KC024S	N	>1,000	1.5	N	20	N	<100	N	1.6	N
KC025S	N	500	3	N	30	N	N	N	N	N
KC026S	N	700	2	N	50	N	N	N	4.2	N
KC027S	N	300	2	N	20	N	N	.004	9.8	N
KC028S	N	200	2	N	15	N	N	N	8.5	N
KC029S	N	500	1.5	<.2	20	N	N	N	5.6	1.1
KC030S	N	300	2	<.2	20	N	N	<.002	14	N
KC031S	N	200	2	<.2	20	N	N	<.002	3.9	N
KC032S	N	300	2	<.2	20	N	N	N	8.7	N
KC033S	N	300	3	<.2	20	N	N	N	6	N
KC034S	N	200	2	<.2	15	N	N	N	2.8	N
KC035S	N	150	2	<.2	10	N	N	N	11	N
KC036S	N	150	2	<.2	20	N	N	.004	11	N
KC037S	N	700	2	<.2	30	N	N	2.4	4.6	N
KC038S	N	300	1.5	N	20	N	N	N	7.9	N
KC039S	N	200	2	N	30	N	N	N	11	N
KC040S	N	200	2	<.2	30	N	N	N	4.7	N
KC041S	N	500	2	N	30	N	N	N	1.4	N
KC042S	N	200	2	N	30	N	N	.004	2.5	N
KC043S	N	200	2	N	30	N	N	N	1.9	N
KC044S	N	700	3	N	30	N	N	<.008	N	N
KC045S	N	200	1.5	N	15	N	N	N	1.8	N
KC046S	N	150	3	N	30	N	N	N	N	N
KC047S	N	150	2	N	20	N	N	.002	1.2	N
KC048S	N	150	2	<.2	20	N	N	N	1.4	N
KC049S	N	500	3	N	30	N	N	N	N	N
KC050S	N	700	1.5	N	20	N	N	N	N	N
KC051S	N	700	2	<.2	30	N	N	.002	N	N
KC052S	N	300	1.5	<.2	30	N	N	.004	7.4	N
KC053S	N	300	2	<.2	30	N	N	.004	22	N
KC054S	N	300	2	<.2	30	N	N	N	8.9	4.2
KC055S	N	150	2	<.2	30	N	N	N	2.5	N
KC056S	N	200	1.5	<.2	20	N	N	.008	3.8	N
KC057S	N	500	2	<.2	30	N	N	<.008	20	N
KC058S	N	100	1.5	<.2	20	N	N	N	9.9	N
KC059S	N	200	2	<.2	30	N	N	.012	19	N
KC060S	N	500	2	N	30	N	N	.004	14	N

Table 3. Results of analyses of stream-sediment samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	Cd ppm-icp	Sb ppm-icp	Zn ppm-icp	Cu ppm-icp	Pb ppm-icp	Ag ppm-icp	Mo ppm-icp	Au ppm-icp
KC001S	.1	N	49	8.2	9.8	N	.2	N
KC002S	N	N	29	9.3	8.7	N	.2	N
KC003S	N	N	5.1	6.6	1.5	N	.14	N
KC004S	N	N	14	5.6	2.6	N	.097	N
KC005S	N	N	12	4	1.2	N	.14	N
KC006S	N	N	5.1	7.4	1.7	N	.099	N
KC007S	N	N	10	7.3	1.5	N	N	N
KC008S	N	N	14	5.3	2.1	N	.11	N
KC009S	N	N	11	4.4	2.4	N	N	N
KC010S	N	N	11	11	1.7	N	N	N
KC011S	N	N	32	2.4	4.2	N	.13	N
KC012S	N	N	18	4.8	1.7	N	.14	N
KC013S	N	N	14	14	1.6	N	N	N
KC014S	N	N	14	4.9	3	N	.15	N
KC015S	N	N	32	1.9	3	.21	.1	N
KC016S	.31	N	61	2.8	13	N	N	N
KC017S	.37	N	51	6.6	14	N	.27	N
KC018S	.21	N	32	3.7	14	N	N	N
KC019S	.25	N	52	4.7	17	.071	1	N
KC020S	.16	N	41	5.3	4.6	N	N	N
KC021S	1.1	N	85	12	19	N	.46	N
KC022S	.2	N	57	4.4	13	N	.86	N
KC023S	.51	N	120	5.9	31	N	2	N
KC024S	.25	N	50	4.3	17	N	1.6	N
KC025S	.31	N	26	3.3	6.1	.13	.89	N
KC026S	.17	N	48	3.4	13	N	2.3	N
KC027S	.033	N	11	22	3	N	.26	N
KC028S	N	N	2.6	3.1	1.1	N	.2	N
KC029S	.19	N	25	11	7.5	N	.59	N
KC030S	.058	N	6.6	5.9	2.7	N	.3	N
KC031S	.062	N	9.7	5.7	2.6	N	.26	N
KC032S	.18	N	27	9.8	8.8	N	.77	N
KC033S	.2	N	26	4.8	8.1	.053	1	N
KC034S	.039	N	6.2	6.4	2.2	N	.16	N
KC035S	.081	N	22	8	6.4	N	.46	N
KC036S	.072	N	14	8.3	4.8	N	.36	N
KC037S	.16	N	38	3.2	6.4	N	.23	N
KC038S	.13	N	32	11	7.1	N	.38	N
KC039S	.27	N	22	5.9	6.5	.093	.3	N
KC040S	.14	N	36	4.1	6.5	N	.4	N
KC041S	N	N	23	3	5	N	.16	N
KC042S	.11	N	35	4.6	6.4	.07	.21	N
KC043S	N	N	13	3.4	5.3	N	.12	N
KC044S	.063	N	46	2.2	5	N	1	N
KC045S	N	N	18	14	4.1	N	.45	N
KC046S	N	N	41	1.5	6.7	N	.55	N
KC047S	N	N	14	7.8	5.3	N	.11	N
KC048S	N	N	14	6.2	2.9	N	.13	N
KC049S	N	N	53	2.1	9.7	N	1.6	N
KC050S	N	N	29	8	3.1	.26	.23	N
KC051S	N	N	31	1.6	2.6	N	.16	N
KC052S	N	N	32	2	6.3	N	.12	N
KC053S	N	N	38	2.4	3.1	N	.14	N
KC054S	N	N	34	2.8	3.1	N	N	N
KC055S	N	N	38	1.5	3.6	N	.097	N
KC056S	.053	N	39	3.6	4.6	N	.33	N
KC057S	.099	N	44	7.6	7.4	.12	.22	N
KC058S	.054	N	27	1.3	3.3	N	N	N
KC059S	.14	N	48	4.1	5.9	N	.54	N
KC060S	.069	N	39	4	3.6	N	2.1	N

Table 3. Results of analyses of stream-sediment samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	Latitude	Longitude	Fe %-s	Mg %-s	Ca %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s	Au ppm-s
KC061S	46 38 23	114 57 53	7	1	3	.3	700	N	N	N
KC062S	46 37 46	114 57 24	7	1	1.5	.3	700	N	N	N
KC063S	46 40 36	115 3 24	5	1	1	1	700	N	N	N
KC064S	46 40 1	115 3 56	3	.7	.7	.3	500	N	N	N
KC065S	46 40 6	115 4 9	5	1	1.5	.7	1,000	N	N	N
KC066S	46 39 41	115 4 27	10	.7	1.5	.3	700	N	N	N
KC067S	46 39 31	115 4 39	7	.7	1.5	.3	700	N	N	N
KC068S	46 39 38	115 5 18	3	1	1	.3	700	N	N	N
KC069S	46 39 14	115 5 15	5	.7	1.5	.3	700	N	N	N
KC070S	46 39 8	115 5 28	5	1	1.5	.3	700	N	N	N
KC071S	46 39 4	115 5 39	3	1	1.5	.3	700	N	N	N
KC072S	46 39 15	115 5 58	5	1	1.5	.5	700	N	N	N
KC073S	46 38 51	115 7 45	2	.5	.5	.3	700	N	N	N
KC074S	46 38 58	115 7 40	2	.5	.3	.2	500	N	N	N
KC075S	46 37 55	115 7 0	3	1	.7	.3	700	N	N	N
KC076S	46 37 53	115 9 19	3	1.5	1.5	.3	700	N	N	N
KC077S	46 36 45	115 10 36	3	1.5	1.5	.5	700	N	N	N
KC078S	46 34 49	115 12 8	3	.7	.7	.3	500	<.5	N	N
KC079S	46 34 5	115 12 27	1.5	.3	.5	.3	300	<.5	N	N
KC080S	46 33 58	115 12 23	1.5	.5	.5	.15	300	N	N	N
KC081S	46 37 11	115 6 47	2	1.5	1.5	.3	700	N	N	N
KC082S	46 36 29	115 5 22	3	1.5	2	.5	700	N	N	N
KC083S	46 36 1	115 4 17	1.5	1.5	1.5	.3	300	N	N	N
KC084S	46 35 21	115 5 49	2	.7	.7	.3	300	N	N	N
KC085S	46 35 31	115 5 56	3	1	.7	.5	500	N	N	N
KC086S	46 35 40	115 5 19	3	.7	.5	.3	300	N	N	N
KC087S	46 34 33	115 7 58	1.5	.3	.2	.15	300	N	N	N
KC088S	46 34 17	115 8 31	2	.5	.7	.5	500	N	N	N
KC089S	46 32 19	115 10 5	3	.7	1	.3	500	N	N	N
KC090S	46 32 1	115 13 48	2	.5	.7	.3	500	N	N	N
KC091S	46 31 55	115 15 27	3	.5	.7	.7	700	N	N	N
KC092S	46 30 18	115 17 15	5	1	2	.3	700	N	N	N
KC093S	46 29 41	115 19 11	3	1	1.5	.3	700	N	N	N
KC094S	46 30 5	115 20 33	3	1	1.5	.7	700	N	N	N
KC095S	46 31 32	115 18 12	5	1	1.5	1	700	N	N	N
KC096S	46 31 33	115 18 20	5	1.5	2	1	700	N	N	N
KC097S	46 32 7	115 21 4	5	1.5	2	>1	700	N	N	N
KC098S	46 32 10	115 21 11	5	1.5	3	>1	700	N	N	N
KC099S	46 30 59	115 21 56	3	1.5	3	.7	500	N	N	N
KC100S	46 30 47	115 23 50	2	.7	1.5	.2	500	N	N	N
KC101S	46 31 23	115 24 20	3	1.5	3	.3	700	N	N	N
KC102S	46 42 28	115 6 28	5	1.5	5	1	1,000	N	N	N
KC103S	46 42 37	115 9 32	3	1	2	.7	700	N	N	N
KC104S	46 42 27	115 10 2	3	1	1	.5	700	N	N	N
KC105S	46 40 48	115 11 46	5	1.5	2	1	700	N	N	N
KC106S	46 40 50	115 11 51	5	.7	.7	1	1,000	N	N	N
KC107S	46 40 37	115 10 3	3	1.5	2	.5	700	N	N	N
KC108S	46 40 37	115 10 16	3	1	1	.5	700	N	N	N
KC109S	46 40 3	115 10 22	3	.7	.7	.3	700	N	N	N
KC110S	46 39 59	115 10 27	5	1	1.5	.5	1,000	N	N	N
KC111S	46 40 58	115 14 21	5	1	1.5	1	1,000	N	N	N
KC112S	46 43 17	115 16 12	5	2	2	.5	700	N	N	N
KC113S	46 42 27	115 19 1	3	1.5	2	.3	700	1	N	N
KC114S	46 39 50	115 22 25	5	2	2	1	1,000	N	N	N
KC115S	46 40 2	115 19 52	5	2	3	.7	700	N	N	N
KC116S	46 39 45	115 19 26	3	2	2	.7	700	N	N	N
KC117S	46 39 38	115 18 50	3	2	3	.5	700	N	N	N
KC118S	46 39 15	115 18 48	3	1.5	2	.5	700	N	N	N
KC119S	46 38 33	115 17 43	3	1.5	2	.5	700	N	N	N
KC120S	46 38 32	115 17 13	5	2	3	.7	1,000	N	N	N

Table 3. Results of analyses of stream-sediment samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	B ppm-s	Ba ppm-s	Be ppm-s	Bi ppm-s	Cd ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	La ppm-s	Mo ppm-s
KC061S	10	1,000	1	N	N	20	70	5	200	N
KC062S	10	700	1.5	N	N	15	30	10	150	N
KC063S	10	300	<1	N	N	20	100	5	50	N
KC064S	20	700	1.5	N	N	10	15	5	70	N
KC065S	10	500	1	N	N	20	50	15	200	N
KC066S	N	700	1	N	N	15	70	5	150	N
KC067S	<10	700	1.5	N	N	20	70	7	200	N
KC068S	<10	300	1.5	N	N	20	70	20	150	N
KC069S	10	700	1.5	N	N	15	20	15	300	N
KC070S	10	700	1.5	N	N	15	70	5	150	N
KC071S	10	1,000	1.5	N	N	15	30	5	150	N
KC072S	10	700	1.5	N	N	20	50	15	150	N
KC073S	N	700	1.5	N	N	<10	<10	7	300	N
KC074S	20	700	2	N	N	<10	<10	<5	200	N
KC075S	30	700	1.5	N	N	15	100	15	<50	N
KC076S	10	700	1.5	N	N	20	100	20	150	N
KC077S	<10	1,000	1.5	N	N	20	100	20	100	N
KC078S	10	700	3	N	N	10	10	20	300	N
KC079S	N	500	3	N	N	<10	<10	10	300	N
KC080S	10	500	3	N	N	<10	N	7	300	N
KC081S	20	500	1.5	N	N	20	70	15	50	N
KC082S	20	700	1.5	N	N	20	100	15	100	N
KC083S	15	500	1.5	N	N	10	50	5	150	N
KC084S	15	700	2	N	N	<10	20	5	200	N
KC085S	15	700	1.5	N	N	20	100	10	100	N
KC086S	10	500	3	N	N	<10	20	5	300	N
KC087S	10	300	3	N	N	N	N	<5	70	N
KC088S	15	500	3	N	N	<10	<10	N	700	N
KC089S	<10	700	3	N	N	<10	10	15	1,000	N
KC090S	10	700	2	N	N	<10	<10	<5	200	N
KC091S	<10	700	3	N	N	10	<10	10	300	N
KC092S	10	1,000	1.5	N	N	15	70	10	300	N
KC093S	<10	1,000	1.5	N	N	20	100	10	200	N
KC094S	10	700	1.5	N	N	20	30	10	300	N
KC095S	10	700	2	N	N	20	15	15	200	N
KC096S	15	700	2	N	N	20	30	15	200	N
KC097S	10	700	1.5	N	N	20	70	15	300	N
KC098S	10	700	1.5	N	N	20	70	20	300	N
KC099S	10	700	1.5	N	N	15	70	20	100	N
KC100S	10	700	1.5	N	N	15	70	10	200	N
KC101S	15	700	1.5	N	N	15	100	15	150	N
KC102S	<10	500	1.5	N	N	20	100	20	70	N
KC103S	10	500	1	N	N	10	50	10	300	N
KC104S	10	500	1.5	N	N	15	70	10	150	N
KC105S	10	700	1	N	N	20	150	7	300	N
KC106S	<10	500	<1	N	N	15	15	7	>1,000	N
KC107S	<10	500	1	N	N	20	150	10	300	N
KC108S	10	700	1.5	N	N	15	70	7	200	N
KC109S	10	700	1.5	N	N	15	50	30	500	N
KC110S	N	700	1	N	N	15	50	10	1,000	N
KC111S	10	1,500	<1	N	N	20	50	15	150	N
KC112S	<10	700	1	N	N	30	100	15	150	N
KC113S	<10	500	1.5	N	N	20	70	20	100	N
KC114S	10	500	<1	N	N	20	100	20	200	N
KC115S	10	700	2	N	N	20	100	20	200	N
KC116S	10	500	1.5	N	N	20	100	30	200	N
KC117S	10	500	1.5	N	N	15	100	15	150	N
KC118S	20	700	2	N	N	20	100	15	300	N
KC119S	10	700	1.5	N	N	20	100	20	200	N
KC120S	10	500	1	N	N	30	150	20	150	N

Table 3. Results of analyses of stream-sediment samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	Nb ppm-s	Ni ppm-s	Pb ppm-s	Sb ppm-s	Sc ppm-s	Sn ppm-s	Sr ppm-s	V ppm-s	W ppm-s	Y ppm-s
KC061S	<20	7	50	N	20	N	700	150	N	70
KC062S	<20	5	50	N	10	N	300	150	N	50
KC063S	30	30	20	N	10	N	200	150	N	30
KC064S	<20	7	50	N	7	N	500	100	N	20
KC065S	<20	30	30	N	15	N	300	150	N	200
KC066S	<20	<5	50	N	15	N	500	200	N	70
KC067S	<20	20	30	N	15	N	500	200	N	50
KC068S	<20	30	30	N	15	N	300	150	N	100
KC069S	<20	10	30	N	15	N	500	150	N	70
KC070S	<20	15	30	N	15	N	500	150	N	50
KC071S	20	7	50	N	15	N	500	150	N	100
KC072S	<20	30	50	N	15	N	300	150	N	50
KC073S	<20	N	30	N	10	N	300	50	N	20
KC074S	<20	<5	50	N	5	N	300	30	N	15
KC075S	<20	30	30	N	10	N	200	100	N	30
KC076S	<20	50	50	N	15	N	500	100	N	50
KC077S	<20	30	30	N	10	N	500	100	N	30
KC078S	20	7	70	N	7	15	300	70	N	20
KC079S	<20	<5	70	N	<5	<10	300	30	N	20
KC080S	N	<5	50	N	5	<10	300	50	N	15
KC081S	<20	30	30	N	10	N	200	100	N	30
KC082S	<20	50	30	N	15	N	300	150	N	30
KC083S	N	20	20	N	7	N	200	70	N	20
KC084S	20	7	30	N	7	<10	300	70	N	50
KC085S	20	50	30	N	10	N	300	100	N	30
KC086S	20	10	50	N	7	<10	300	70	N	30
KC087S	20	<5	30	N	5	N	150	30	N	15
KC088S	30	<5	50	N	7	20	300	70	N	70
KC089S	30	<5	50	N	7	30	300	70	<20	70
KC090S	20	5	50	N	5	<10	300	50	N	20
KC091S	20	5	50	N	7	10	300	70	N	30
KC092S	<20	30	50	N	15	N	1,000	150	N	100
KC093S	<20	50	30	N	15	N	700	150	N	70
KC094S	20	15	50	N	15	<10	700	100	N	200
KC095S	20	10	30	N	15	N	500	100	N	30
KC096S	20	30	50	N	15	<10	700	100	N	30
KC097S	30	20	50	N	20	10	700	100	N	50
KC098S	20	20	50	N	20	15	500	150	N	50
KC099S	<20	30	30	N	15	N	700	100	N	50
KC100S	<20	20	30	N	10	N	700	70	N	70
KC101S	<20	30	30	N	15	N	700	100	N	150
KC102S	<20	30	50	N	20	N	500	150	N	70
KC103S	<20	7	30	N	15	N	500	150	N	70
KC104S	<20	20	30	N	10	N	300	100	N	50
KC105S	<20	50	30	N	20	N	700	100	N	30
KC106S	<20	20	30	N	15	N	300	70	N	50
KC107S	<20	50	30	N	15	N	500	100	N	300
KC108S	<20	20	50	N	7	N	500	100	N	30
KC109S	<20	20	30	N	10	N	300	100	N	30
KC110S	20	15	50	N	15	N	300	100	N	50
KC111S	<20	20	30	N	20	N	300	100	N	30
KC112S	<20	30	30	N	20	N	500	150	N	50
KC113S	<20	30	30	N	15	N	500	100	N	50
KC114S	<20	30	30	N	20	N	700	150	N	70
KC115S	<20	30	50	N	20	N	700	150	N	30
KC116S	20	30	30	N	15	N	300	150	N	70
KC117S	<20	30	20	N	15	N	300	100	N	70
KC118S	20	30	30	N	15	N	300	100	N	70
KC119S	<20	50	50	N	20	N	300	150	N	50
KC120S	<20	50	30	N	20	N	300	150	N	150

Table 3. Results of analyses of stream-sediment samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	Zn ppm-s	Zr ppm-s	Na %-s	P %-s	Ga ppm-s	Ge ppm-s	Th ppm-s	Au ppm-faa	As ppm-icp	Bi ppm-icp
KC061S	N	500	3	<.2	50	N	N	.03	14	N
KC062S	N	300	1.5	N	30	N	N	.004	20	N
KC063S	N	300	1.5	N	20	N	N	N	N	N
KC064S	N	150	2	<.2	30	N	N	.002	N	N
KC065S	N	300	1.5	<.2	20	N	N	N	N	N
KC066S	N	500	2	<.2	50	N	N	.008	3.6	.77
KC067S	N	300	2	<.2	30	N	N	.02	10	N
KC068S	N	200	2	<.2	30	N	N	N	.79	N
KC069S	N	200	2	<.2	30	N	N	N	5.6	N
KC070S	N	300	2	<.2	30	N	N	<.002	3.9	N
KC071S	N	200	2	<.2	30	N	N	N	5.6	N
KC072S	N	300	2	<.2	30	N	N	N	N	N
KC073S	N	300	2	N	30	N	N	N	N	N
KC074S	N	500	2	N	30	N	N	N	N	N
KC075S	N	200	1.5	N	30	N	N	N	4.1	N
KC076S	N	200	2	<.2	30	N	N	N	3.6	N
KC077S	N	150	2	N	30	N	N	N	.83	N
KC078S	N	200	2	N	30	N	N	N	N	N
KC079S	N	500	2	<.2	30	N	<100	.002	N	N
KC080S	N	150	2	<.2	30	N	N	N	N	N
KC081S	N	200	2	N	30	N	N	N	1.1	N
KC082S	N	200	2	<.2	30	N	N	N	N	N
KC083S	N	300	2	N	20	N	N	N	N	N
KC084S	N	700	3	N	50	N	N	N	N	N
KC085S	N	300	2	N	30	N	N	N	1.2	N
KC086S	N	200	2	N	30	N	N	N	N	N
KC087S	N	150	2	N	30	N	N	N	N	N
KC088S	N	700	3	N	30	N	N	N	N	N
KC089S	N	500	3	N	30	N	<100	N	N	N
KC090S	N	300	2	N	30	N	N	N	N	N
KC091S	N	300	2	N	30	N	N	N	N	N
KC092S	N	200	3	<.2	50	N	N	N	N	N
KC093S	N	300	2	<.2	30	N	N	N	N	N
KC094S	N	300	2	<.2	30	N	N	N	N	N
KC095S	N	300	2	<.2	30	N	N	N	N	N
KC096S	N	300	3	N	50	N	N	<.002	N	N
KC097S	N	700	2	N	30	N	N	N	N	3.6
KC098S	N	700	3	N	50	N	N	N	N	N
KC099S	N	300	2	<.2	30	N	N	.002	N	N
KC100S	N	150	2	<.2	30	N	N	.024	1.5	N
KC101S	N	300	3	<.2	30	N	N	N	4	N
KC102S	N	200	2	N	30	N	N	N	.62	N
KC103S	N	300	1.5	N	20	N	N	N	N	N
KC104S	N	300	2	<.2	30	N	N	N	N	N
KC105S	N	700	2	N	30	N	N	<.002	N	N
KC106S	N	1,000	1.5	N	30	N	N	N	N	N
KC107S	N	300	2	<.2	30	N	N	N	N	N
KC108S	N	700	2	N	30	N	N	N	N	N
KC109S	N	500	2	<.2	30	N	N	N	N	N
KC110S	N	1,000	2	N	30	N	N	N	N	N
KC111S	N	1,000	1.5	<.2	30	N	N	N	N	N
KC112S	N	200	2	N	30	N	N	N	N	N
KC113S	N	150	2	N	20	N	N	N	N	N
KC114S	N	300	2	<.2	30	N	N	<.004	N	N
KC115S	N	300	2	<.2	50	N	N	N	N	N
KC116S	N	300	2	<.2	50	N	N	N	N	N
KC117S	N	150	1.5	<.2	20	N	N	N	N	N
KC118S	N	300	1.5	N	30	N	N	N	N	N
KC119S	N	300	2	N	30	N	N	N	1.4	N
KC120S	N	200	1.5	N	30	N	N	N	N	N

Table 3. Results of analyses of stream-sediment samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	Cd ppm-icp	Sb ppm-icp	Zn ppm-icp	Cu ppm-icp	Pb ppm-icp	Ag ppm-icp	Mo ppm-icp	Au ppm-icp
KC061S	.044	N	41	1.5	5.3	N	N	N
KC062S	.16	N	57	6.9	6.4	N	.42	N
KC063S	N	N	21	4.5	2.3	N	N	N
KC064S	N	N	39	2.5	7.1	N	N	N
KC065S	N	N	35	12	3.3	N	N	N
KC066S	.087	N	35	1.7	4.6	N	N	N
KC067S	.04	N	45	2.6	5.4	N	N	N
KC068S	N	N	41	9	4	N	.12	N
KC069S	N	N	36	2	4.2	N	N	N
KC070S	N	N	30	2.4	3.8	N	N	N
KC071S	.045	N	28	1.7	4.4	N	N	N
KC072S	N	N	30	7.5	4.6	N	N	N
KC073S	N	N	36	3.1	2.9	N	.25	N
KC074S	.064	N	31	1.8	4.6	N	.14	N
KC075S	.13	N	32	5.9	7.1	N	N	N
KC076S	.24	N	46	10	7.1	N	.15	N
KC077S	.037	N	23	9.9	3.8	N	.11	N
KC078S	.87	N	84	14	9.6	.25	.37	N
KC079S	.31	N	53	6.3	11	.2	.26	N
KC080S	.092	N	27	2.6	3.9	.17	.26	N
KC081S	N	N	24	6.8	3.8	N	.3	N
KC082S	N	N	35	7.5	5.5	N	.24	N
KC083S	N	N	15	3.6	3.1	N	N	N
KC084S	N	N	31	2.1	5.6	N	.34	N
KC085S	N	N	25	4.7	3.6	N	.14	N
KC086S	N	N	39	2.6	7.1	N	.4	N
KC087S	N	N	36	2.5	7	N	.16	N
KC088S	N	N	33	1.5	4.9	N	.25	N
KC089S	.17	N	37	5.3	6.6	N	.83	N
KC090S	.14	N	31	2.1	4.4	N	N	N
KC091S	.23	N	46	4	8.5	N	.18	N
KC092S	.035	N	30	3.4	3.9	N	N	N
KC093S	N	N	27	5.1	4.6	N	N	N
KC094S	.11	N	35	6.7	6.1	N	N	N
KC095S	.19	N	65	11	7.1	N	N	N
KC096S	N	N	43	4.3	2.8	N	.13	N
KC097S	.23	N	49	6	7.2	N	N	N
KC098S	.21	N	51	6.3	7.3	N	.096	N
KC099S	N	N	32	6.8	4.3	N	.23	N
KC100S	N	N	27	4.8	4.6	N	N	N
KC101S	N	N	27	6.3	3.6	N	.15	N
KC102S	.16	N	30	13	3.2	N	.33	N
KC103S	N	N	25	6.5	3	N	.17	N
KC104S	N	N	36	6.2	3.4	N	.12	N
KC105S	N	N	33	4.8	4.5	N	.16	N
KC106S	.051	N	48	3.7	4.6	N	.21	N
KC107S	N	N	27	6.7	2.6	N	N	N
KC108S	N	N	34	3.3	5.3	N	.14	N
KC109S	.045	N	45	6.1	5.1	N	.26	N
KC110S	.11	N	41	6	5.1	N	.25	N
KC111S	.06	N	37	7	3.2	N	.31	N
KC112S	N	N	40	8.2	3.4	N	N	N
KC113S	N	N	36	11	2.4	N	.14	N
KC114S	N	N	37	10	2.7	N	.12	N
KC115S	N	N	41	8.2	3.2	N	N	N
KC116S	N	N	34	14	3.2	N	.16	N
KC117S	N	N	24	7.4	2.1	.67	N	N
KC118S	N	N	36	9.6	3.4	N	.14	N
KC119S	N	N	34	11	4.9	N	.14	N
KC120S	N	N	28	9	2.8	N	N	N

Table 3. Results of analyses of stream-sediment samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	Latitude	Longitude	Fe %-s	Mg %-s	Ca %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s	Au ppm-s
KC121S	46 38 49	115 15 8	5	1.5	1.5	.7	1,000	N	N	N
KC122S	46 38 15	115 14 26	3	1.5	1.5	.3	700	N	N	N
KC123S	46 38 20	115 14 23	3	1.5	1.5	.3	700	N	N	N
KC124S	46 38 57	115 14 4	5	1.5	1.5	.3	700	N	N	N
KC125S	46 39 8	115 13 38	3	1.5	1.5	.3	700	N	N	N
KC126S	46 39 13	115 13 39	5	1.5	1.5	.7	1,000	N	N	N
KC127S	46 37 14	115 15 54	3	1.5	1.5	.3	700	N	N	N
KC128S	46 35 26	115 16 27	3	1.5	2	.7	700	N	N	N
KC129S	46 34 54	115 14 49	2	.7	.7	.5	300	N	N	N
KC130S	46 31 46	115 24 55	3	1	1.5	.3	500	N	N	N
KC131S	46 33 0	115 25 38	2	1	1.5	.3	300	N	N	N
KC132S	46 34 36	115 26 39	3	1.5	1.5	.3	700	N	N	N
KC133S	46 36 44	115 26 0	3	1.5	1.5	.5	700	N	N	N
KC134S	46 35 56	115 24 19	2	1	1.5	.2	300	.5	N	N
KC135S	46 36 59	115 21 4	3	1.5	2	.3	700	N	N	N
KC136S	46 36 16	115 21 53	1.5	.7	1.5	.2	300	N	N	N
KC137S	46 38 37	115 25 25	3	1.5	2	.5	700	N	N	N
KC138S	46 39 0	115 24 22	3	1.5	1.5	.5	700	N	N	N

Sample	B ppm-s	Ba ppm-s	Be ppm-s	Bi ppm-s	Cd ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	La ppm-s	Mo ppm-s
KC121S	<10	500	1.5	N	N	30	100	20	50	N
KC122S	<10	700	1.5	N	N	20	150	15	100	N
KC123S	10	1,000	1.5	N	N	20	150	15	100	N
KC124S	<10	700	1.5	N	N	20	100	15	150	N
KC125S	N	500	1.5	N	N	20	70	20	200	N
KC126S	N	500	1	N	N	20	70	15	500	N
KC127S	<10	700	1.5	N	N	20	100	20	100	N
KC128S	N	700	1.5	N	N	20	30	10	150	N
KC129S	<10	700	2	N	N	10	15	<5	200	N
KC130S	10	700	1.5	N	N	15	70	15	200	N
KC131S	20	1,000	1.5	N	N	15	100	<5	200	N
KC132S	10	700	1.5	N	N	20	100	10	150	N
KC133S	<10	700	1.5	N	N	20	70	10	200	N
KC134S	20	700	2	N	N	15	70	5	300	N
KC135S	10	700	1.5	N	N	20	150	20	150	N
KC136S	15	1,000	2	N	N	15	30	5	150	N
KC137S	<10	700	1.5	N	N	20	50	15	50	N
KC138S	10	300	1.5	N	N	20	70	15	150	N

Sample	Nb ppm-s	Ni ppm-s	Pb ppm-s	Sb ppm-s	Sc ppm-s	Sn ppm-s	Sr ppm-s	V ppm-s	W ppm-s	Y ppm-s
KC121S	<20	50	30	N	15	N	500	150	N	50
KC122S	<20	70	30	N	15	N	500	100	N	100
KC123S	<20	50	30	N	15	N	500	150	N	50
KC124S	<20	30	30	N	15	N	500	100	N	30
KC125S	<20	30	30	N	15	N	300	100	N	30
KC126S	30	50	30	N	20	N	500	100	N	70
KC127S	<20	50	100	N	15	N	500	70	N	50
KC128S	20	7	30	N	15	N	700	100	N	30
KC129S	20	5	50	N	10	15	300	70	N	50
KC130S	<20	30	30	N	15	N	500	100	N	50
KC131S	<20	20	30	N	10	N	700	70	N	30
KC132S	<20	50	30	N	15	N	500	70	N	50
KC133S	<20	30	30	N	15	N	500	100	N	50
KC134S	N	30	50	N	10	N	500	70	N	30
KC135S	<20	50	30	N	20	N	500	100	N	50
KC136S	N	20	50	N	7	N	700	70	N	10
KC137S	<20	15	20	N	15	N	700	100	N	30
KC138S	<20	20	30	N	15	N	300	100	N	70

Table 3. Results of analyses of stream-sediment samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	Zn ppm-s	Zr ppm-s	Na	%-s	P	%-s	Ga ppm-s	Ge ppm-s	Th ppm-s	Au ppm-faa	As ppm-icp	Bi ppm-icp
KC121S	N	300	1.5		<.2		30	N	N	N	N	N
KC122S	N	150	2		N		30	N	N	N	1.7	N
KC123S	N	200	2		N		30	N	N	N	N	N
KC124S	N	200	2		<.2		30	N	N	N	N	N
KC125S	N	700	2		<.2		30	N	N	N	N	N
KC126S	N	>1,000	1.5		<.2		30	N	N	N	N	N
KC127S	N	300	1.5		<.2		20	N	N	N	N	N
KC128S	N	500	2		N		30	N	N	N	N	N
KC129S	N	700	1.5		N		30	N	N	N	N	N
KC130S	N	300	2		<.2		30	N	N	N	N	N
KC131S	N	200	2		<.2		30	N	N	N	N	N
KC132S	N	150	2		N		30	N	N	N	N	N
KC133S	N	300	1.5		<.2		30	N	N	N	N	N
KC134S	N	150	2		N		30	N	N	N	N	N
KC135S	N	200	2		N		50	N	N	N	N	N
KC136S	N	100	2		<.2		30	N	N	N	N	N
KC137S	N	200	2		.2		30	N	N	N	N	N
KC138S	N	300	1.5		<.2		30	N	N	N	N	N

Sample	Cd ppm-icp	Sb ppm-icp	Zn ppm-icp	Cu ppm-icp	Pb ppm-icp	Ag ppm-icp	Mo ppm-icp	Au ppm-icp
KC121S	N	N	34	12	3.2	N	.13	N
KC122S	.049	N	33	11	3.9	N	.15	N
KC123S	N	N	30	9.2	3.8	N	.23	N
KC124S	N	N	44	11	3.9	N	.19	N
KC125S	N	N	40	6.7	5.2	N	.22	N
KC126S	N	N	39	6.9	4.2	N	.1	N
KC127S	.29	N	77	14	33	N	.14	N
KC128S	N	N	41	5.9	5.3	N	.14	N
KC129S	N	N	39	3.1	7.8	.13	.14	N
KC130S	N	N	28	6.3	3.4	N	.13	N
KC131S	N	N	25	2.7	3.4	N	N	N
KC132S	N	N	28	6.8	2.8	N	N	N
KC133S	N	N	33	9.7	3.2	N	.1	N
KC134S	N	N	25	2.6	2.8	N	N	N
KC135S	N	N	35	8.6	3.6	N	.21	N
KC136S	.081	N	35	3.1	3.8	N	N	N
KC137S	N	N	44	7.4	2	N	N	N
KC138S	N	N	29	10	2.2	N	.1	N

Table 4. Results of analyses of heavy-mineral-concentrate samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.

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

Sample	Latitude	Longitude	Fe %-s	Mg %-s	Ca %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s	Au ppm-s
KC001C	46 48 26	114 56 29	2	.1	.1	.5	50	<1	N	N
KC002C	46 45 39	114 57 32	1	3	2	2	100	N	N	N
KC003C	46 45 12	114 58 53	.3	.3	1.5	1.5	70	N	N	N
KC004C	46 45 1	114 59 52	.5	.5	2	>2	70	N	N	N
KC005C	46 44 38	115 0 54	1	3	3	2	150	N	N	N
KC006C	46 44 47	115 1 3	.5	.5	3	2	100	N	N	N
KC007C	46 44 18	115 2 23	.3	.3	1	>2	50	N	N	N
KC008C	46 44 36	115 2 24	1	1	3	>2	150	N	N	N
KC009C	46 44 0	115 4 33	.5	1	7	>2	150	N	N	N
KC010C	46 42 56	115 1 51	.15	.1	1.5	>2	50	N	N	N
KC011C	46 42 35	114 57 47	.3	.07	7	>2	200	N	N	N
KC012C	46 43 11	114 57 19	.3	.07	5	>2	150	N	N	N
KC013C	46 44 23	114 55 44	.3	.3	2	2	70	N	N	N
KC014C	46 42 48	114 57 34	.3	.3	3	>2	100	N	N	N
KC015C	46 41 45	114 56 10	.3	.1	7	>2	200	N	N	N
KC016C	46 41 38	114 55 29	.3	.07	7	>2	200	N	N	N
KC017C	46 41 38	114 53 53	.5	.2	7	>2	150	N	N	N
KC018C	46 40 35	114 51 1	.3	.15	5	>2	100	N	N	N
KC019C	46 39 41	114 52 6	.7	.5	2	>2	150	N	N	N
KC020C	46 42 38	114 51 46	.3	.2	2	>2	70	N	N	N
KC021C	46 41 54	114 49 7	.7	.2	2	2	100	N	N	N
KC022C	46 41 54	114 49 2	.5	.1	.7	2	70	N	N	N
KC023C	46 40 55	114 48 21	.3	.05	.1	>2	50	N	N	N
KC024C	46 40 57	114 48 18	.5	.2	5	>2	100	N	N	N
KC025C	46 41 54	114 47 16	.2	<.05	<.1	>2	30	N	N	N
KC026C	46 41 53	114 47 11	.5	<.05	<.1	>2	70	N	N	N
KC027C	46 44 27	114 50 2	.5	.7	.5	>2	50	N	N	N
KC028C	46 44 54	114 48 52	3	.2	.5	>2	20	N	N	N
KC029C	46 44 43	114 48 54	.7	5	1	>2	100	N	N	N
KC030C	46 44 52	114 48 48	1	.2	.5	>2	<20	N	N	N
KC031C	46 44 51	114 48 15	2	.5	.5	>2	70	N	N	N
KC032C	46 44 46	114 47 51	1.5	5	2	.7	150	N	N	N
KC033C	46 44 48	114 47 51	.1	.2	<.1	1.5	<20	N	N	N
KC034C	46 46 1	114 52 16	1.5	5	7	>2	150	N	N	N
KC035C	46 46 55	114 52 8	.3	.3	.1	>2	<20	N	N	N
KC036C	46 46 54	114 52 2	1	.3	2	>2	70	N	N	N
KC037C	46 36 6	114 53 37	.5	.2	5	>2	150	N	N	N
KC038C	46 36 2	114 53 36	1	5	5	2	100	N	N	N
KC039C	46 35 23	114 53 3	.5	2	3	2	70	N	N	N
KC040C	46 36 13	114 54 5	1	3	7	>2	150	N	N	N
KC041C	46 35 19	114 55 43	1.5	5	5	.7	500	N	N	N
KC042C	46 34 58	114 55 57	1	3	7	>2	700	N	N	N
KC043C	46 35 6	114 57 21	2	5	5	.5	200	N	N	N
KC044C	46 34 55	114 57 33	1	2	3	2	150	N	N	N
KC045C	46 34 58	114 58 41	2	5	5	1	200	N	N	N
KC046C	46 35 31	115 0 45	1	2	1.5	2	150	N	1,000	N
KC047C	46 35 40	115 0 50	1.5	5	7	2	200	N	N	N
KC048C	46 35 43	115 2 0	1.5	5	5	1.5	500	N	N	N
KC049C	46 35 37	115 2 6	1	.1	.1	2	50	N	N	N
KC050C	46 41 50	115 1 24	.5	1	2	1.5	100	N	N	N
KC051C	46 41 27	115 2 4	.2	<.05	1	>2	100	N	N	N
KC052C	46 40 34	115 2 52	.5	.1	5	>2	150	N	N	N
KC053C	46 39 34	115 2 23	.5	.05	10	>2	700	N	N	N
KC054C	46 39 11	115 1 10	.7	.1	10	>2	500	N	N	N
KC055C	46 39 2	115 1 5	.2	.05	5	>2	150	N	N	N
KC056C	46 38 43	114 59 55	.5	.1	5	>2	500	N	N	N
KC057C	46 38 50	114 59 49	.5	.1	7	>2	700	N	N	N
KC058C	46 38 37	114 59 7	.5	.07	7	1.5	300	N	N	N
KC059C	46 38 30	114 59 9	1	1.5	7	>2	500	N	N	N
KC060C	46 38 7	114 58 4	.3	.2	2	2	200	N	N	N

Table 4. Results of analyses of heavy-mineral-concentrate samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	B ppm-s	Ba ppm-s	Be ppm-s	Bi ppm-s	Cd ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	La ppm-s
KC001C	200	50	N	N	N	30	20	10	<100
KC002C	150	300	N	N	N	<20	100	N	100
KC003C	30	300	N	100	N	N	30	N	N
KC004C	20	100	N	500	N	<20	200	N	<100
KC005C	20	<50	N	<20	N	N	20	N	<100
KC006C	20	200	N	30	N	<20	100	N	<100
KC007C	20	70	N	200	N	<20	70	N	<100
KC008C	20	150	N	<20	N	N	50	N	N
KC009C	50	300	<2	N	N	<20	200	N	150
KC010C	20	70	N	100	N	<20	70	N	N
KC011C	20	70	N	N	N	N	<20	N	100
KC012C	20	100	N	N	N	N	<20	N	<100
KC013C	20	70	N	N	N	N	20	N	<100
KC014C	20	70	N	N	N	<20	20	N	<100
KC015C	20	50	N	N	N	<20	N	N	100
KC016C	20	100	N	30	N	N	<20	<10	150
KC017C	20	70	N	N	N	<20	20	<10	150
KC018C	20	100	N	N	N	N	100	10	200
KC019C	20	150	<2	N	N	<20	50	N	200
KC020C	30	70	N	N	N	<20	50	N	200
KC021C	30	70	N	N	N	<20	20	N	150
KC022C	20	100	<2	200	N	N	<20	<10	100
KC023C	20	70	2	N	N	<20	20	10	N
KC024C	50	150	N	N	N	N	200	N	100
KC025C	20	70	<2	N	N	N	N	<10	N
KC026C	20	150	3	N	N	<20	<20	15	N
KC027C	150	70	N	N	N	30	500	30	<100
KC028C	100	70	N	N	N	500	200	<10	150
KC029C	70	100	N	20	N	N	20	N	100
KC030C	50	50	N	N	N	150	300	N	100
KC031C	200	100	N	N	N	200	150	15	1,000
KC032C	30	50	10	N	N	<20	<20	<10	N
KC033C	20	70	N	N	N	N	20	<10	<100
KC034C	200	70	15	200	N	N	50	N	200
KC035C	300	150	N	500	N	30	200	15	200
KC036C	500	200	N	N	N	70	300	15	1,000
KC037C	20	300	N	N	N	N	<20	N	100
KC038C	20	<50	N	N	N	N	30	N	100
KC039C	20	70	10	N	N	N	70	N	100
KC040C	20	50	N	N	N	N	<20	N	<100
KC041C	20	N	N	N	N	N	<20	N	N
KC042C	20	150	<2	N	N	N	50	N	200
KC043C	20	N	100	N	N	N	20	<10	N
KC044C	20	50	N	N	N	N	<20	10	150
KC045C	20	50	10	N	N	N	<20	N	N
KC046C	20	50	N	100	N	N	<20	10	200
KC047C	20	70	N	N	N	N	30	<10	<100
KC048C	30	50	<2	<20	N	<20	20	N	100
KC049C	20	70	N	150	N	N	<20	<10	150
KC050C	20	50	N	15	N	N	<20	<10	<100
KC051C	20	70	N	200	N	N	N	<10	500
KC052C	20	50	N	N	N	<20	<20	N	100
KC053C	20	100	N	N	N	N	<20	N	200
KC054C	20	100	N	N	N	N	<20	N	200
KC055C	20	N	N	N	N	<20	<20	N	<100
KC056C	20	70	N	N	N	N	<20	N	150
KC057C	20	100	N	N	N	N	<20	N	1,000
KC058C	20	50	N	N	N	N	<20	N	100
KC059C	30	70	N	N	N	N	<20	N	200
KC060C	20	50	N	N	N	N	<20	N	100

Table 4. Results of analyses of heavy-mineral-concentrate samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	Mo ppm-s	Nb ppm-s	Ni ppm-s	Pb ppm-s	Pd ppm-s	Pt ppm-s	Sb ppm-s	Sc ppm-s	Sn ppm-s	Sr ppm-s
KC001C	30	50	20	100	N	N	N	N	N	N
KC002C	N	150	10	30	N	N	N	20	100	N
KC003C	N	100	N	20	N	N	N	N	20	N
KC004C	N	200	N	100	N	N	N	N	70	N
KC005C	<10	100	<10	N	N	N	N	<10	50	N
KC006C	N	100	N	<20	N	N	N	N	70	N
KC007C	N	200	N	N	N	N	N	N	50	N
KC008C	N	150	<10	<20	N	N	N	N	50	N
KC009C	<10	300	N	N	N	N	N	20	70	N
KC010C	<10	200	N	20	N	N	N	N	70	N
KC011C	<10	150	N	N	N	N	N	15	70	N
KC012C	<10	200	N	N	N	N	N	<10	50	N
KC013C	N	50	N	N	N	N	N	<10	<20	N
KC014C	<10	100	N	N	N	N	N	<10	20	N
KC015C	N	100	N	N	N	N	N	20	70	N
KC016C	N	200	N	100	N	N	N	15	70	N
KC017C	N	150	N	100	N	N	N	15	50	N
KC018C	N	100	N	500	N	N	N	20	70	N
KC019C	N	150	N	70	N	N	N	50	70	N
KC020C	N	100	N	N	N	N	N	N	70	N
KC021C	N	70	N	50	N	N	N	<10	30	N
KC022C	N	200	N	70	N	N	N	50	150	N
KC023C	N	150	N	50	N	N	N	70	100	N
KC024C	200	100	N	1,000	N	N	N	50	50	N
KC025C	N	200	N	20	N	N	N	50	100	N
KC026C	N	300	N	30	N	N	N	100	500	N
KC027C	N	200	<10	N	N	N	N	30	150	N
KC028C	N	150	150	N	N	N	N	15	100	N
KC029C	N	50	N	N	N	N	N	N	<20	N
KC030C	N	150	30	N	N	N	N	20	70	N
KC031C	N	150	30	<20	N	N	N	15	50	N
KC032C	N	<50	10	N	N	N	N	10	N	N
KC033C	N	<50	N	N	N	N	N	30	30	N
KC034C	N	100	<10	20	N	N	N	20	20	N
KC035C	N	150	15	150	N	N	N	15	70	N
KC036C	N	300	20	N	N	N	N	30	150	N
KC037C	<10	500	N	<20	N	N	N	15	50	N
KC038C	N	150	<10	N	N	N	N	<10	30	N
KC039C	N	150	N	N	N	N	N	N	50	N
KC040C	<10	150	<10	N	N	N	N	<10	30	N
KC041C	N	50	N	N	N	N	N	N	<20	N
KC042C	20	200	<10	50	N	N	N	20	300	N
KC043C	N	50	N	N	N	N	N	N	30	N
KC044C	N	100	N	70	N	N	N	50	700	N
KC045C	N	70	N	50	N	N	N	N	20	N
KC046C	N	150	N	50	N	N	N	70	700	N
KC047C	N	100	<10	N	N	N	N	<10	50	N
KC048C	N	150	10	N	N	N	N	N	50	N
KC049C	N	100	N	50	N	N	N	50	>2,000	N
KC050C	N	<50	N	N	N	N	N	20	70	N
KC051C	N	<50	N	N	N	N	N	70	20	N
KC052C	<10	200	N	N	N	N	N	N	30	N
KC053C	<10	150	N	N	N	N	N	20	50	N
KC054C	<10	200	N	N	N	N	N	15	50	N
KC055C	<10	200	N	N	N	N	N	N	<20	N
KC056C	<10	150	N	N	N	N	N	15	50	N
KC057C	N	200	N	<20	N	N	N	20	50	N
KC058C	N	100	N	N	N	N	N	N	30	N
KC059C	<10	100	N	N	N	N	N	20	50	N
KC060C	<10	200	N	N	N	N	N	<10	30	N

Table 4. Results of analyses of heavy-mineral-concentrate samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	V ppm-s	W ppm-s	Y ppm-s	Zn ppm-s	Zr ppm-s	Na %-s	P %-s	Ga ppm-s	Ge ppm-s	Th ppm-s
KC001C	20	100	20	N	1,000	N	<.5	10	N	N
KC002C	100	150	150	N	1,500	1	<.5	20	N	N
KC003C	30	N	100	N	700	1	<.5	30	N	N
KC004C	100	200	300	N	500	.5	.5	10	N	N
KC005C	100	N	300	N	>2,000	1	.7	10	N	N
KC006C	50	100	200	N	500	1.5	<.5	30	N	N
KC007C	100	<50	150	N	>2,000	.7	.5	10	N	N
KC008C	50	70	300	N	150	.5	<.5	50	N	N
KC009C	150	200	500	N	>2,000	1	1.5	10	N	<200
KC010C	70	<50	150	N	2,000	.5	1.5	<10	N	N
KC011C	100	50	300	N	>2,000	<.5	5	<10	N	N
KC012C	100	N	200	N	>2,000	1.5	2	10	N	N
KC013C	70	<50	150	N	>2,000	1	1	15	N	N
KC014C	150	N	300	N	>2,000	.5	1.5	10	N	N
KC015C	100	N	500	N	>2,000	N	3	10	N	N
KC016C	150	N	500	N	>2,000	<.5	5	<10	N	<200
KC017C	100	N	300	N	>2,000	.5	3	15	N	<200
KC018C	100	50	300	N	>2,000	.5	5	<10	N	N
KC019C	100	N	300	N	>2,000	.5	1.5	20	N	N
KC020C	100	N	150	N	2,000	.5	1	<10	N	N
KC021C	50	N	150	N	>2,000	.7	2	10	N	N
KC022C	20	N	300	N	>2,000	<.5	2	10	N	700
KC023C	<20	N	300	N	>2,000	<.5	.5	N	N	1,500
KC024C	100	N	200	N	>2,000	.5	5	10	N	N
KC025C	<20	N	200	N	>2,000	N	<.5	N	N	500
KC026C	N	N	1,000	N	>2,000	N	<.5	<10	N	3,000
KC027C	700	50	150	N	>2,000	.7	.5	N	N	N
KC028C	200	<50	150	N	>2,000	.7	1.5	10	N	N
KC029C	20	N	70	N	>2,000	.7	<.5	10	N	N
KC030C	200	100	70	N	1,000	.5	1	N	N	N
KC031C	100	N	200	N	>2,000	.7	1	15	N	N
KC032C	30	N	70	N	>2,000	1	<.5	20	N	N
KC033C	70	N	200	N	>2,000	N	<.5	<10	N	N
KC034C	150	N	150	N	2,000	1	<.5	15	N	N
KC035C	200	500	100	N	700	.5	.7	N	N	N
KC036C	500	100	200	N	1,000	1	3	<10	N	N
KC037C	100	100	300	N	>2,000	1	1.5	10	N	N
KC038C	100	100	200	N	>2,000	.7	1	15	N	N
KC039C	70	150	150	N	1,000	2	.5	20	N	N
KC040C	100	N	200	N	2,000	.5	1.5	15	N	N
KC041C	50	N	100	N	500	1	<.5	10	N	N
KC042C	100	1,000	500	N	>2,000	<.5	5	<10	N	N
KC043C	50	N	70	N	1,000	1.5	<.5	20	N	N
KC044C	50	N	3,000	N	>2,000	N	1	N	N	1,500
KC045C	70	200	100	N	1,500	1.5	.5	20	N	N
KC046C	50	N	2,000	N	>2,000	N	.7	<10	N	2,000
KC047C	50	1,000	150	N	2,000	1.5	.7	20	N	N
KC048C	50	150	100	N	1,500	1	.5	30	N	N
KC049C	30	N	500	N	>2,000	N	<.5	<10	N	1,000
KC050C	50	N	200	N	>2,000	N	2	<10	N	N
KC051C	70	N	500	N	>2,000	N	2	N	N	N
KC052C	100	N	300	N	>2,000	N	3	N	N	N
KC053C	100	N	700	N	>2,000	N	7	N	N	N
KC054C	100	N	700	N	>2,000	N	10	<10	N	N
KC055C	100	N	200	N	2,000	N	2	10	N	N
KC056C	150	N	700	N	>2,000	N	3	N	N	N
KC057C	100	N	300	N	>2,000	N	20	<10	N	N
KC058C	70	N	200	N	1,500	N	5	N	N	N
KC059C	150	50	700	N	>2,000	N	3	N	N	N
KC060C	70	100	300	N	>2,000	N	1.5	<10	N	N

Table 4. Results of analyses of heavy-mineral-concentrate samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	Latitude	Longitude	Fe %-s	Mg %-s	Ca %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s	Au ppm-s
KC061C	46 38 23	114 57 53	.2	.05	7	>2	300	N	N	N
KC062C	46 37 46	114 57 24	.2	.7	2	>2	500	N	N	N
KC063C	46 40 36	115 3 24	.3	.5	.7	>2	100	N	N	N
KC064C	46 40 1	115 3 56	.7	.3	5	>2	500	N	N	N
KC065C	46 40 6	115 4 9	.2	.1	3	>2	200	N	N	N
KC066C	46 39 41	115 4 27	.3	.05	7	>2	700	N	N	N
KC067C	46 39 31	115 4 39	.3	.05	5	>2	500	N	N	N
KC068C	46 39 38	115 5 18	.15	.05	2	2	100	N	N	N
KC069C	46 39 14	115 5 15	.2	.05	2	>2	200	N	N	N
KC070C	46 39 8	115 5 28	.3	.07	3	>2	150	N	N	N
KC071C	46 39 4	115 5 39	.2	.05	2	>2	150	N	N	N
KC072C	46 39 15	115 5 58	.3	.5	1	>2	100	N	N	N
KC073C	46 38 51	115 7 45	.1	<.05	.5	1	50	N	N	N
KC074C	46 38 58	115 7 40	.15	.1	.3	.7	100	N	N	N
KC076C	46 37 53	115 9 19	.5	1	2	>2	150	N	N	N
KC077C	46 36 45	115 10 36	.5	1	3	>2	150	N	N	N
KC078C	46 34 48	115 12 8	1.5	.2	1.5	>2	200	N	N	N
KC079C	46 34 5	115 12 27	.2	.05	.7	2	70	N	N	N
KC080C	46 33 58	115 12 23	.2	.05	.7	2	50	N	N	N
KC082C	46 36 29	115 5 22	2	5	5	.7	500	N	N	N
KC083C	46 36 1	115 4 17	1.5	5	5	1.5	300	N	N	N
KC084C	46 35 21	115 5 49	1	1.5	.5	>2	300	N	N	N
KC085C	46 35 31	115 5 56	2	2	.7	>2	200	N	N	N
KC086C	46 35 40	115 5 19	3	1.5	.5	>2	200	N	N	N
KC087C	46 34 33	115 7 58	5	1	.5	1	200	N	N	N
KC088C	46 34 17	115 8 31	2	.7	.7	1	300	N	N	N
KC089C	46 32 19	115 10 5	3	1.5	2	>2	1,000	N	N	N
KC090C	46 32 1	115 13 48	2	2	1	1	500	N	N	N
KC091C	46 31 55	115 15 27	2	1	2	>2	700	N	N	N
KC092C	46 30 18	115 17 15	1.5	1	7	1	700	N	N	N
KC093C	46 29 41	115 19 11	1.5	1.5	10	1.5	700	N	N	N
KC094C	46 30 5	115 20 33	1.5	.5	7	>2	500	N	N	N
KC095C	46 31 32	115 18 12	1	.5	7	>2	500	N	N	N
KC096C	46 31 33	115 18 20	1.5	.5	10	>2	700	N	N	N
KC097C	46 32 7	115 21 4	.7	.2	5	>2	200	N	N	N
KC098C	46 32 10	115 21 11	.7	.2	3	>2	200	N	N	N
KC099C	46 30 59	115 21 56	1.5	.5	10	>2	500	N	N	N
KC100C	46 30 27	115 23 50	1.5	1	10	.5	2,000	3	N	N
KC101C	46 31 23	115 24 20	1.5	.5	10	>2	500	N	N	N
KC102C	46 42 28	115 6 28	3	1.5	3	>2	1,000	N	N	N
KC103C	46 42 37	115 9 32	2	2	5	>2	1,000	N	N	N
KC104C	46 42 27	115 10 2	1.5	2	2	>2	700	N	N	N
KC105C	46 40 48	115 11 46	.7	1	1.5	>2	200	N	N	N
KC106C	46 40 50	115 11 51	1.5	.5	1	1.5	700	N	N	N
KC107C	46 40 37	115 10 3	1	1.5	5	>2	150	N	N	N
KC108C	46 40 37	115 10 16	1.5	1.5	3	>2	500	N	N	N
KC109C	46 40 3	115 10 22	3	1	1	1	1,000	N	N	N
KC110C	46 39 59	115 10 27	1.5	.5	5	1.5	1,000	N	N	N
KC111C	46 40 58	115 14 21	1	.7	1.5	1.5	700	N	N	N
KC112C	46 43 17	115 16 12	1.5	1	7	>2	500	N	N	N
KC113C	46 42 27	115 19 1	1	2	10	>2	200	N	N	N
KC114C	46 39 55	115 22 35	1	.7	7	>2	200	N	N	N
KC115C	46 40 2	115 19 52	1	.5	10	>2	500	N	N	N
KC116C	46 39 45	115 19 26	.5	.5	7	>2	100	N	N	N
KC117C	46 39 38	115 18 50	1	2	10	>2	200	N	N	N
KC118C	46 35 15	115 18 48	.3	.5	5	>2	100	N	N	N
KC119C	46 38 33	115 17 43	1	.7	7	>2	200	N	N	N
KC120C	46 38 32	115 17 13	.7	1.5	3	>2	150	N	N	N
KC122C	46 38 15	115 14 26	1	2	5	>2	500	N	N	N
KC123C	46 38 20	115 14 23	2	3	7	>2	700	N	N	N

Table 4. Results of analyses of heavy-mineral-concentrate samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	B ppm-s	Ba ppm-s	Be ppm-s	Bi ppm-s	Cd ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	La ppm-s
KC061C	20	70	N	N	N	N	20	N	100
KC062C	<20	<50	N	N	N	N	<20	N	<100
KC063C	50	70	N	N	N	<20	300	N	150
KC064C	20	70	N	N	N	<20	<20	N	500
KC065C	20	100	N	N	N	<20	20	N	200
KC066C	20	70	N	N	N	<20	<20	N	100
KC067C	20	50	N	50	N	<20	20	N	<100
KC068C	20	<50	N	N	N	N	<20	N	100
KC069C	20	<50	N	N	N	N	<20	N	<100
KC070C	20	<50	N	N	N	N	<20	N	100
KC071C	20	<50	N	N	N	N	<20	N	N
KC072C	20	100	N	N	N	N	<20	N	<100
KC073C	30	50	N	N	N	N	<20	N	200
KC074C	20	<50	N	N	N	N	<20	N	200
KC076C	20	50	2	N	N	<20	50	N	N
KC077C	20	70	N	N	N	<20	100	N	100
KC078C	20	100	10	N	N	<20	<20	<10	500
KC079C	20	50	N	N	N	<20	<20	<10	2,000
KC080C	20	50	N	70	N	<20	<20	<10	1,500
KC082C	20	50	N	N	N	<20	20	<10	150
KC083C	20	50	N	N	N	<20	20	10	200
KC084C	20	100	<2	N	N	N	100	10	1,500
KC085C	20	150	N	N	N	30	200	15	700
KC086C	20	150	2	N	N	<20	70	15	1,000
KC087C	20	100	2	N	N	30	<20	10	700
KC088C	20	70	N	N	N	<20	<20	10	2,000
KC089C	20	100	<2	100	N	<20	20	<10	>2,000
KC090C	20	200	2	N	N	<20	<20	<10	>2,000
KC091C	20	100	N	N	N	<20	<20	<10	2,000
KC092C	20	70	N	N	N	<20	<20	<10	1,000
KC093C	20	70	N	N	N	<20	50	N	1,000
KC094C	20	70	N	N	N	<20	50	10	700
KC095C	20	150	N	N	N	<20	30	<10	500
KC096C	30	150	N	N	N	<20	30	N	1,000
KC097C	20	70	N	N	N	<20	<20	N	300
KC098C	20	50	N	N	N	<20	20	N	300
KC099C	20	50	N	N	N	<20	100	N	1,000
KC100C	20	100	N	50	N	<20	50	<10	2,000
KC101C	20	50	N	N	N	<20	70	N	500
KC102C	20	300	2	N	N	20	100	20	700
KC103C	70	700	N	N	N	<20	100	20	1,000
KC104C	20	200	N	N	N	<20	70	15	700
KC105C	20	150	N	N	N	<20	20	N	500
KC106C	20	50	N	N	N	<20	<20	N	1,500
KC107C	20	150	N	N	N	<20	100	N	1,000
KC108C	30	100	N	N	N	<20	100	N	1,500
KC109C	20	70	N	N	N	<20	<20	<10	>2,000
KC110C	20	70	N	N	N	<20	<20	<10	2,000
KC111C	20	150	N	N	N	N	<20	<10	150
KC112C	20	100	N	N	N	<20	30	<10	300
KC113C	20	100	N	N	N	<20	100	N	500
KC114C	20	150	N	N	N	<20	70	N	300
KC115C	20	150	N	N	N	<20	70	N	200
KC116C	20	70	N	N	N	<20	100	N	500
KC117C	20	100	N	N	N	<20	100	N	500
KC118C	20	70	N	N	N	<20	70	N	200
KC119C	20	150	N	N	N	<20	100	N	200
KC120C	30	70	N	N	N	<20	100	N	150
KC122C	20	100	N	N	N	<20	100	50	200
KC123C	20	150	N	N	N	<20	150	N	500

Table 4. Results of analyses of heavy-mineral-concentrate samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	Mo ppm-s	Nb ppm-s	Ni ppm-s	Pb ppm-s	Pd ppm-s	Pt ppm-s	Sb ppm-s	Sc ppm-s	Sn ppm-s	Sr ppm-s
KC061C	N	200	<10	N	N	N	N	<10	20	N
KC062C	<10	150	N	70	N	N	N	N	50	N
KC063C	N	300	N	N	N	N	N	20	30	N
KC064C	N	150	N	100	N	N	N	20	50	N
KC065C	N	100	N	20	N	N	N	15	20	N
KC066C	<10	200	N	N	N	N	N	15	50	N
KC067C	<10	200	N	N	N	N	N	N	50	N
KC068C	N	100	N	<20	N	N	N	N	N	N
KC069C	N	200	N	N	N	N	N	N	<20	N
KC070C	<10	200	N	N	N	N	N	N	20	N
KC071C	N	150	N	N	N	N	N	N	20	N
KC072C	N	150	N	N	N	N	N	N	200	N
KC073C	N	<50	N	N	N	N	N	30	N	N
KC074C	N	<50	N	30	N	N	N	N	N	N
KC076C	<10	150	N	N	N	N	N	N	100	N
KC077C	N	300	N	N	N	N	N	10	50	N
KC078C	N	200	N	N	N	N	N	15	70	N
KC079C	N	70	N	20	N	N	N	50	200	N
KC080C	N	100	N	30	N	N	N	50	1,000	N
KC082C	N	70	10	<20	N	N	N	<10	50	N
KC083C	N	100	10	N	N	N	N	15	200	N
KC084C	N	200	10	50	N	N	N	70	300	N
KC085C	N	100	50	20	N	N	N	50	30	N
KC086C	N	200	20	70	N	N	N	70	100	N
KC087C	N	100	15	100	N	N	N	50	150	N
KC088C	N	200	N	30	N	N	N	50	200	N
KC089C	<10	100	N	100	N	N	N	70	700	N
KC090C	N	100	N	<20	N	N	N	100	100	N
KC091C	N	50	<10	100	N	N	N	30	200	N
KC092C	N	50	10	10	N	N	N	30	20	N
KC093C	N	<50	20	N	N	N	N	30	<20	N
KC094C	N	70	<10	10	N	N	N	15	70	N
KC095C	N	150	N	70	N	N	N	15	150	N
KC096C	N	100	N	N	N	N	N	30	100	N
KC097C	N	100	N	N	N	N	N	10	100	N
KC098C	N	100	N	<20	N	N	N	10	70	N
KC099C	N	100	<10	N	N	N	N	30	50	N
KC100C	N	N	10	30	N	N	N	70	20	N
KC101C	N	70	10	N	N	N	N	<10	30	N
KC102C	20	200	30	70	N	N	N	30	20	N
KC103C	N	200	20	30	N	N	N	30	30	N
KC104C	N	100	30	N	N	N	N	30	30	N
KC105C	N	50	20	N	N	N	N	50	20	N
KC106C	N	<50	15	N	N	N	N	30	<20	N
KC107C	N	100	15	N	N	N	N	20	20	N
KC108C	N	<50	30	20	N	N	N	70	50	N
KC109C	N	<50	15	N	N	N	N	50	<20	N
KC110C	N	<50	10	N	N	N	N	50	20	N
KC111C	N	N	10	N	N	N	N	50	N	N
KC112C	N	70	10	<20	N	N	N	20	30	N
KC113C	<10	500	10	N	N	N	N	20	70	N
KC114C	N	100	10	N	N	N	N	30	20	N
KC115C	N	150	10	N	N	N	N	30	50	N
KC116C	N	150	<10	N	N	N	N	10	30	N
KC117C	N	200	10	N	N	N	N	15	50	N
KC118C	N	100	N	30	N	N	N	15	30	N
KC119C	N	200	10	70	N	N	N	30	100	N
KC120C	N	100	30	N	N	N	N	20	30	N
KC122C	5	200	15	300	N	N	N	<10	150	N
KC123C	5	300	30	N	N	N	N	30	70	N

Table 4. Results of analyses of heavy-mineral-concentrate samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	V ppm-s	W ppm-s	Y ppm-s	Zn ppm-s	Zr ppm-s	Na %-s	P %-s	Ga ppm-s	Ge ppm-s	Th ppm-s
KC061C	100	N	200	N	>2,000	N	10	N	N	N
KC062C	100	N	300	N	>2,000	N	1.5	N	N	N
KC063C	70	<50	150	N	>2,000	N	1.5	N	N	N
KC064C	100	100	500	N	>2,000	N	5	<10	N	N
KC065C	50	N	200	N	>2,000	<.5	3	<10	N	N
KC066C	150	N	700	N	>2,000	N	3	<10	N	N
KC067C	150	70	300	N	2,000	N	2	N	N	N
KC068C	50	N	150	N	>2,000	N	1.5	N	N	N
KC069C	150	N	300	N	2,000	N	1	N	N	N
KC070C	150	N	300	N	>2,000	N	1.5	N	N	N
KC071C	100	N	200	N	2,000	N	1.5	<10	N	N
KC072C	70	100	150	N	>2,000	<.5	1	10	N	N
KC073C	<20	100	150	N	>2,000	N	1	N	N	N
KC074C	<20	N	70	N	>2,000	N	1	<10	N	N
KC076C	70	N	150	N	2,000	N	1.5	10	N	N
KC077C	100	100	200	N	>2,000	<.5	1	10	N	N
KC078C	70	N	200	N	>2,000	<.5	<.5	10	N	200
KC079C	50	N	500	N	>2,000	N	1	N	N	1,000
KC080C	10	70	200	N	>2,000	N	.5	10	N	500
KC082C	50	N	150	N	1,500	1	.5	20	N	N
KC083C	70	100	150	N	>2,000	.7	.5	20	N	N
KC084C	70	N	500	N	>2,000	<.5	.5	10	N	1,000
KC085C	70	50	200	N	2,000	<.5	.5	<10	N	N
KC086C	70	N	300	N	>2,000	<.5	<.5	15	N	700
KC087C	50	N	500	N	>2,000	<.5	.5	20	N	500
KC088C	30	N	500	N	>2,000	<.5	<.5	20	N	1,500
KC089C	100	<50	1,500	N	>2,000	.5	<.5	70	N	500
KC090C	50	N	700	N	>2,000	<.5	1	50	N	2,000
KC091C	70	N	300	N	>2,000	.5	.5	20	N	500
KC092C	30	N	500	N	>2,000	.5	10	20	N	N
KC093C	50	N	500	N	>2,000	<.5	7	10	N	N
KC094C	100	N	300	N	2,000	<.5	3	<10	N	N
KC095C	100	N	300	N	1,000	.5	<.5	10	N	N
KC096C	150	N	500	N	>2,000	<.5	<.5	<10	N	N
KC097C	100	N	300	N	>2,000	<.5	<.5	10	N	N
KC098C	100	N	200	N	2,000	N	<.5	10	N	N
KC099C	150	70	300	N	2,000	<.5	3	20	N	N
KC100C	30	N	500	N	>2,000	.5	15	15	N	200
KC101C	100	70	200	N	1,500	<.5	3	50	N	N
KC102C	150	N	300	N	2,000	.7	.7	70	N	<200
KC103C	100	N	300	N	>2,000	.5	2	50	N	<200
KC104C	70	N	200	N	>2,000	.5	1	50	N	<200
KC105C	70	N	200	N	>2,000	<.5	<.5	10	N	N
KC106C	50	N	200	N	>2,000	<.5	.5	10	N	N
KC107C	100	N	300	N	>2,000	<.5	1	15	N	N
KC108C	100	N	500	N	>2,000	<.5	.5	15	N	N
KC109C	50	70	200	N	>2,000	<.5	1	20	N	<200
KC110C	70	N	300	N	>2,000	<.5	5	15	N	N
KC111C	200	N	150	N	>2,000	N	2	15	N	N
KC112C	100	N	200	N	>2,000	.5	3	15	N	N
KC113C	150	N	700	N	2,000	<.5	2	30	N	<200
KC114C	100	70	300	N	>2,000	<.5	10	10	N	N
KC115C	150	N	300	N	>2,000	.5	7	10	N	N
KC116C	70	N	500	N	1,000	N	2	10	N	N
KC117C	100	N	700	N	700	<.5	3	20	N	N
KC118C	70	N	500	N	>2,000	N	3	10	N	N
KC119C	150	N	300	N	>2,000	<.5	3	20	N	N
KC120C	100	N	300	N	2,000	N	.5	N	N	N
KC122C	100	N	300	N	1,500	<.5	.5	<10	N	N
KC123C	150	N	500	N	2,000	<.5	.5	20	N	N

Table 4. Results of analyses of heavy-mineral-concentrate samples from the Kelly-Cayuse Wilderness--Proposed and Cook Mountain and East Weitas Special Management Areas, Clearwater National Forest, Idaho.--Continued

Sample	Latitude	Longitude	Fe %-s	Mg %-s	Ca %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s	Au ppm-s
KC124C	46 38 57	115 14 4	1.5	1.5	7	>2	500	N	N	N
KC125C	46 39 8	115 13 38	1	.5	5	>2	500	N	N	N
KC126C	46 39 13	115 13 39	.7	.3	1.5	>2	500	N	N	N
KC127C	46 37 14	115 15 54	1	1	3	>2	500	N	N	N
KC128C	46 35 26	115 16 27	1	.2	5	>2	500	N	N	N
KC129C	46 34 54	115 14 49	1	.2	2	>2	300	N	N	N
KC130C	46 31 46	115 24 55	1.5	.5	20	>2	1,500	N	N	N
KC131C	46 33 0	115 25 38	1.5	3	7	>2	500	N	N	N
KC132C	46 34 36	115 26 39	2	2	5	>2	500	N	N	N
KC133C	46 36 44	115 26 0	1.5	2	5	>2	500	N	N	N
KC134C	46 35 56	115 24 17	5	5	5	>2	2,000	N	N	N
KC135C	46 36 59	115 21 4	3	3	5	>2	1,000	N	N	N
KC136C	46 36 16	115 21 53	5	5	3	.7	2,000	N	N	N
KC137C	46 38 37	115 25 25	1.5	1	10	>2	500	N	N	N
KC138C	46 39 0	115 24 22	2	2	10	>2	700	N	N	N

Sample	B ppm-s	Ba ppm-s	Be ppm-s	Bi ppm-s	Cd ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	La ppm-s
KC124C	20	150	N	N	N	20	50	N	200
KC125C	20	100	N	N	N	<20	70	N	200
KC126C	50	100	N	N	N	<20	<20	N	200
KC127C	20	70	N	N	N	N	50	20	500
KC128C	20	100	N	N	N	<20	<20	N	500
KC129C	20	50	N	N	N	<20	<20	N	1,500
KC130C	20	200	N	N	N	<20	100	N	1,500
KC131C	20	70	N	N	N	<20	100	N	1,000
KC132C	30	200	N	N	N	<20	200	<10	1,500
KC133C	20	70	N	N	N	<20	50	N	500
KC134C	200	150	N	N	N	30	200	10	>2,000
KC135C	20	150	N	N	N	<20	150	<10	1,500
KC136C	200	100	N	N	N	30	200	<10	1,500
KC137C	20	100	N	N	N	<20	20	N	150
KC138C	50	150	N	N	N	<20	100	10	700

Sample	Mo ppm-s	Nb ppm-s	Ni ppm-s	Pb ppm-s	Pd ppm-s	Pt ppm-s	Sb ppm-s	Sc ppm-s	Sn ppm-s	Sr ppm-s
KC124C	N	50	15	N	N	N	N	20	20	N
KC125C	N	100	N	N	N	N	N	15	30	N
KC126C	N	50	N	N	N	N	N	30	20	N
KC127C	<10	200	10	500	N	N	N	<10	70	N
KC128C	<10	200	N	N	N	N	N	<10	70	N
KC129C	N	150	N	50	N	N	N	30	150	N
KC130C	N	100	10	20	N	N	N	30	20	N
KC131C	N	150	15	N	N	N	N	20	70	N
KC132C	N	150	30	20	N	N	N	50	100	N
KC133C	N	100	10	N	N	N	N	15	20	N
KC134C	N	100	50	20	N	N	N	100	100	N
KC135C	N	150	20	<20	N	N	N	50	30	N
KC136C	N	50	70	N	N	N	N	70	20	N
KC137C	N	50	<10	N	N	N	N	N	20	N
KC138C	N	200	15	N	N	N	N	20	30	N

Sample	V ppm-s	W ppm-s	Y ppm-s	Zn ppm-s	Zr ppm-s	Na %-s	P %-s	Ga ppm-s	Ge ppm-s	Th ppm-s
KC124C	100	N	300	N	>2,000	<.5	5	<10	N	N
KC125C	150	N	200	N	>2,000	N	3	<10	N	N
KC126C	70	N	200	N	>2,000	<.5	1	10	N	N
KC127C	70	50	200	N	2,000	<.5	1	10	N	N
KC128C	100	N	200	N	2,000	<.5	.5	<10	N	N
KC129C	100	N	500	N	>2,000	N	<.5	<10	N	200
KC130C	100	200	1,000	N	>2,000	.5	30	10	N	200
KC131C	100	N	300	N	>2,000	<.5	1.5	<10	N	<200
KC132C	150	70	500	N	>2,000	1	2	20	N	300
KC133C	100	N	200	N	2,000	<.5	2	20	N	N
KC134C	150	50	1,000	N	>2,000	.7	1	50	N	500
KC135C	150	N	500	N	>2,000	.5	2	20	N	200
KC136C	150	N	100	N	2,000	.7	.5	50	N	<200
KC137C	100	N	200	N	>2,000	.5	10	10	N	N
KC138C	100	N	300	N	2,000	.5	5	20	N	<200