UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results and sample locality map of stream-sediment and panned-concentrate samples from the Hayfork 1:100,000 quadrangle, (northwest quarter of the Redding, California 1:250,000 quadrangle) Trinity and Humboldt Counties, California

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CONTENTS

ILLUSTRATIONS

TABLES

STUDIES RELATED TO CUSMAP

This report presents the results of a geochemical survey of the Hayfork 1:100,000 (northwest quadrangle of the Redding 1° X 2°) quadrangle, California. Geochemical samples were collected as one of several multidisciplinary studies associated with the Conterminous United States Mineral Appraisal Program (CUSMAP).

INTRODUCTION

In 1985, the U.S. Geological Survey conducted a reconnaissance stream-sediment survey of the Hayfork 1:100,000 quadrangle in Humboldt and Trinity Counties, California. The Hayfork quadrangle is the northwest quarter of the Redding 1° X 2° quadrangle which is currently undergoing geological, geophysical, geochemical, and mineral resource assessment studies as part of the CUSMAP program.

The Hayfork quadrangle is approximately 50 kilometers west of Redding, California. Major access is by Highway 299 extending west from Redding. This highway, and Highway 3, and several good quality secondary and gravel roads access the eastern and northern part of the quadrangle. The southwestern part is quite remote but can be accessed from the south from Highway 36 by a few gravel roads and jeep trails. Although numerous gravel and logging roads exist in the quadrangle, some areas are accessible only by primitive pack trails or by rafting the major streams that run through the area such as the Trinity, Mad, and Van Duzen Rivers.

GENERAL GEOLOGY OF THE REDDING 1° X 2° QUADRANGLE

Figure 1 is a generalized geologic map of the Redding 1° x 2° quadrangle showing the outlines of the four 1:100,000 quadrangles that it may be subdivided into. The quadrangle contains parts of three physiographic provinces; the Coast Ranges, the Klamath Mountains, and the Great Valley. The Coast Ranges and the Klamath Mountains provinces are part of the complex of accreted terranes that form the western margin of North America from Alaska to Mexico (Coney and others, 1980).

The Klamath Mountains province consists of a series of lithotectonic units or belts of rock that form thrust plates in a generally eastward dipping sequence (Irwin, 1981). These "terranes" as they are now referred to and their structural and tectonic evolution have been described by Irwin (1981; 1985). They are all of oceanic origin and consist of variable quantities of island-arc volcanic and sedimentary rocks and ophiolites that formed during Ordovician through Jurassic time. The Eastern Klamath Terrane (fig. 1) is the nucleus of the province. It was formed from long standing volcanic arc activity that extended from the Devonian through the Jurassic. The Eastern Klamath Terrane was built on Ordovician oceanic crust and upper mantle, now represented by the Trinity Terrane. The Central Metamorphic Terrane (fig. 1) developed along the western edge of the Eastern Klamath Terrane during Devonian subduction beneath the Trinity Terrane. Subsequently, during middle to late Jurassic time, the Northfork, Hayfork, Rattlesnake Creek, and Western Jurassic Terranes were accreted to the Eastern Klamath Terrane-Central Metamorphic Terrane nucleus by successive subduction events (Irwin, 1981; 1985).

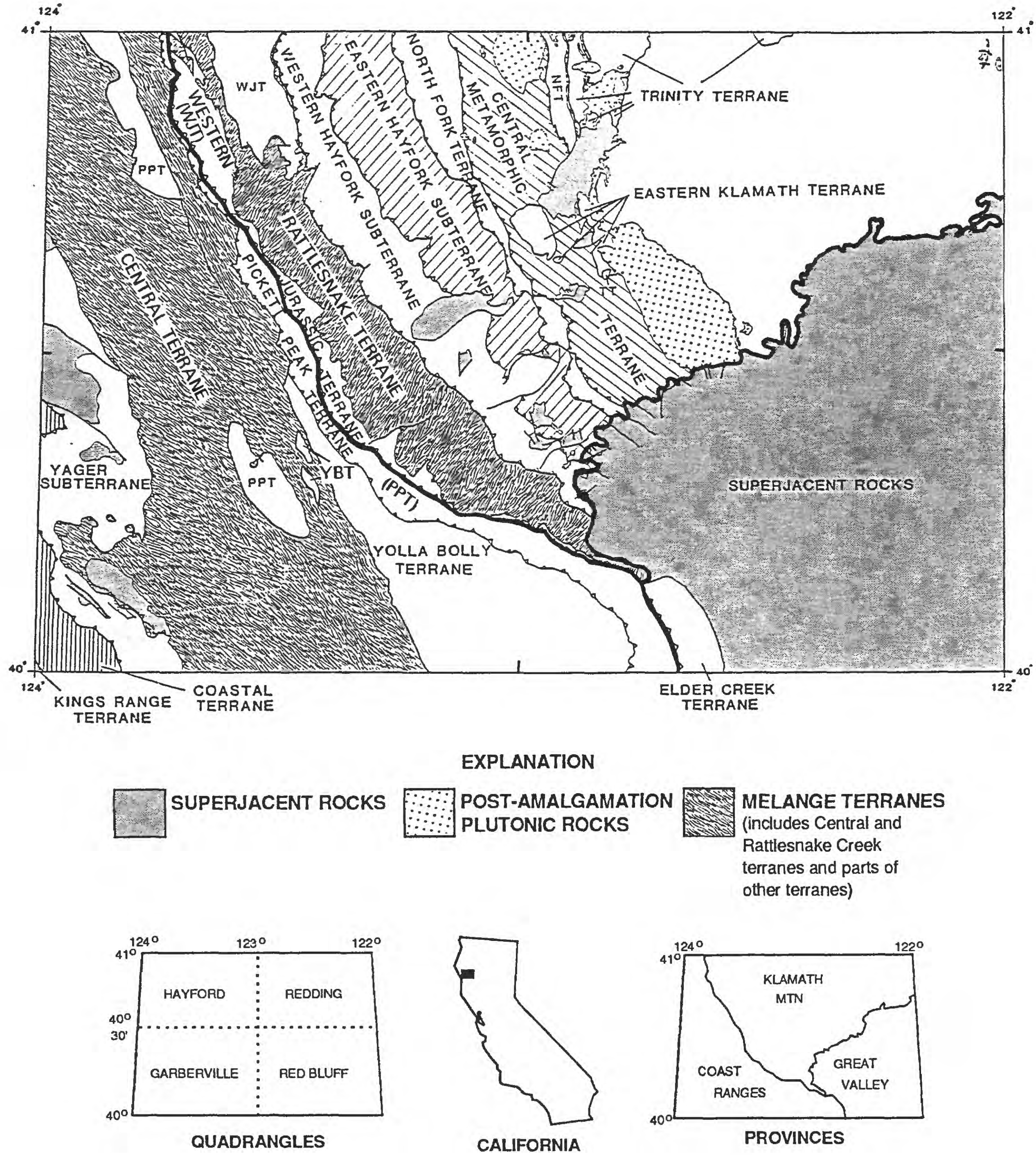

Figure 1. Generalized geologic map of the Redding 1° X 2° quadrangle showing physiographic provinces and geologic terranes (modified from Fraticelli and others, 1987).

Granitic plutons occur in all of the terranes of the Klamath Mountains and can be subdivided into belts that generally follow the trends of the individual terranes. Some plutons and plutonic belts were emplaced before the host terranes were attached to an adjacent terrane and are hence "pre-amalgamation". Most of these are parts of ophiolites or are co-magmatic with the volcanic rock sequences that formed in island arcs. Other plutons or plutonic belts are post amalgamation as they are significantly younger than the rocks of their host terranes, on the basis of isotopic ages, or they can be seen to cross cut terrane boundaries (Irwin, 1985).

The terrane boundaries are generally thrust faults and many of them contain ultramafic bodies, now usually serpentinite. It is now recognized that most of the serpentinites are dismembered parts of ophiolites originating from oceanic crust and upper mantle that formed parts of the basement of the oceanic terranes (Irwin, 1981). The amalgamation process resulted in dismemberment, remobilization, and intrusion of these serpentinites along the regional thrust faults, some of which form the terrane boundaries. Other thrust faults are internal to the individual terranes. The serpentinites are strongly magmatic and show well on regional aeromagnetic maps. Their subsurface extent can be well delineated on these maps even where they outcrop poorly, or hardly at all (Griscom, 1990).

The Coast Ranges Province is dominantly composed of another sequence of oceanic rocks, the Franciscan complex, consisting of several terranes of intensely deformed and dismembered turbidite sandstones, mudstones, shales, greenstones, cherts, and serpentinite bodies (Bailey and others, 1964). The Franciscan terrane was thrust under the Klamath Mountains by a subduction event in the Early Cretaceous (Irwin, 1981). The boundary between the two provinces is the South Fork Mountain Fault, along the footwall of which a regionally extensive blueschist metamorphic rock, the South Fork Mountain schist developed (Picket Peak Terrane of fig. 1).

Many of the terranes of the Coast Ranges and the Klamath Mountains contain similar lithologies. Others, such as the Rattlesnake Creek and Central Metamorphic Belt are unique. The former is largely dismembered ophiolite, the latter is a complex of mafic and felsic gneisses and schists. Some terranes such as the Northfork and Eastern Hayfork Terranes of the Klamaths and the Central Terrane of the Coast ranges are melanges or contain a significant melange component. The melanges are chaotic mixtures of varied oceanic arc-type lithologies in a shaley matrix.

Perhaps the only significant differences between the Klamath Mountains and the Coast Ranges are the lack of granitic intrusions in the Franciscan rocks, and the occurrence within Franciscan melanges of blueschist facies exotic blocks. No granitic bodies of significant size have been mapped in the Franciscan rocks in the Redding quadrangle, although some magnetic anomalies along the trend of the South Fork Mountain Schist (Picket Peak Terrane of fig. 1) may be indicative of subsurface granitic bodies (Griscom, 1990).

Superjacent rocks that overlie the amalgamated terranes include the Great Valley Sequence sedimentary rocks of Cretaceous age, and other sedimentary and volcanic rocks of Cretaceous and Tertiary age. Most of these occur in the Great Valley Physiographic Province (fig. 1).

The lithological assemblages in the Provinces and terranes are described by Irwin (1977; 1981). The plutonic rocks and their relationship to their host rocks and to the overall tectonic evolution are described by Irwin (1985). Irwin (1985) also includes a summary of radiometric ages of plutonic rocks in the Klamath Mountains. Individual formations in the terranes, including plutons are described by Fraticelli and others (1987), from which the generalized geologic map was modified (fig. 1). We have described the overall framework of the Redding quadrangle in some detail above as a framework for our summaries of the geochemistry of the four component 1:100,000 quadrangles. Hayfork, the northwest one-quarter of the Redding quadrangle, is the first of this series to be summarized.

Slightly less than one-half of the 4,600 square kilometers of the Hayfork quadrangle, the western part, is underlain by Coast Range Province rocks, mostly the Central Terrane of the Franciscan Complex (fig. 1). Slightly more than one-half of the quadrangle, the eastern part, is composed of several of the terranes of the Klamath Mountains (fig. 1). Both areas have small patches of superjacent rocks of a variety of ages and lithologies.

TOPOGRAPHY

Most of the topography of the Hayfork quadrangle is rugged. The maximum elevation of 2,723 meters (8,933 ft) is in the east in the Trinity Alps at Mt. Hilton. Minimum elevation near Blue Lake is 131 meters (430 ft). Relief is usually high and the slopes are steep. The area is mostly heavily wooded. Road access is good for the eastern and northern part of the quadrangle, especially for most of the old historically mined areas. Other parts of the quadrangle, particularly the southwest are very remote and restricted of access. River courses and logging roads can give access to some of it.

The whole Redding quadrangle is, at the time of this writing, economically depressed due to a decline in the lumbering industry because of lower demand from the housing industry and pressure by environmental groups to preserve woodland. Mining, other than small scale and recreational placer mining, and some small scale exploration and development in gold mines in the eastern part of the quadrangle, including parts of Hayfork, is not active. The quadrangle is heavily infested with marijuana growing areas. This makes access an even more difficult problem, and in some cases makes it actually dangerous. Some areas of the quadrangle were not sampled because of this problem, or because we were unable to arrange access to land controlled by timber companies.

METHODS OF STUDY

Sample Media

Analyses of the stream-sediment samples represent the chemistry of the rock and soil material eroded from the drainage basin upstream from each sample site. Such information is useful in identifying basins which contain concentrations of elements that may be related to mineral deposits. Panned-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.

Analyses of unaltered or unmineralized rock samples provide background geochemical data for individual rock units. On the other hand, analyses of altered or mineralized rocks, where present, may provide useful geochemical information about the major- and trace-element assemblages associated with a mineralizing system. Rock geochemical data are currently being summarized and will be published at a later date.

Sample Collection

Stream-sediment samples were collected at 287 sites (plate 1). At 91 sites a panned-concentrate sample was collected in addition to the stream-sediment sample. Average sampling density was about one sample site per 16.3 km^2 (6.3 mi^2) for the stream sediments. The area of the drainage basins sampled range from 0.5 km^2 (0.2 mi^2) to 150 km^2 (57.9 mi^2).

Stream-sediment samples

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 at scales of 1:24,000 and 1:25,000. A few stream-sediment samples were collected from higher-order streams and can be used to determine approximate local geochemical background conditions.

Panned-concentrate samples

Panned-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 (oven) dried (at 40 °C), then sieved using 80-mesh (0.17-mm) stainless-steel sieves. The portion of the sediment passing through the sieve was ground between ceramic plates to -100 mesh and saved for analysis.

The panned-concentrate samples were sieved to -35 mesh and then separated into three fractions using a large electromagnet (a modified Frantz Isodynamic Separator) by placing the sample in contact with the face of the magnet. The most magnetic material, primarily magnetite, ilmenite, and mixed grains containing magnetite, was not analyzed. The second fraction (C2), consisting largely of weakly magnetic (paramagnetic) minerals such as ferromagnesian silicates and iron oxides, was saved for analysis. The remaining third fraction, C3 (the nonmagnetic material which may include the nonmagnetic ore minerals, zircon, sphene, apatite and barite), was split using a Jones splitter. One split was hand ground for spectrographic analysis; the other split was saved for mineralogical analysis. These magnetic separations are the same separations 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 the weakly magnetic (C2) and nonmagnetic (C3) fractions.

Sample Analysis

Spectrographic method

The stream-sediment and panned-concentrate samples were analyzed for 31 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their lower limits of determination are listed in table 1 for stream-sediment samples and in table 2 for panned-concentrate samples. 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 Hayfork 1:100,000 quadrangle are listed in table 4 for the -80 mesh stream sediment fraction and in tables 5 and 6 for weakly-magnetic (C2) and nonmagnetic (C3) panned-concentrate fractions, respectively.

Chemical methods

Other methods of analysis (for Au, Hg, As, Sb, and Zn) used on samples from the study area are summarized in table 3. Analytical results for -80 mesh stream-sediment analyzed by these methods are included in table 4.

ROCK ANALYSIS STORAGE SYSTEM

Upon completion of all analytical work, the analytical results were entered into a computer-based file called Rock Analysis Storage System (RASS). This data base contains both descriptive geological information and analytical data. Any or all of this information may be retrieved and converted to a binary form (STATPAC) for computerized statistical analysis or publication (VanTrump and Miesch, 1977).

DESCRIPTION OF DATA TABLES

Tables 4-6 list the results of analyses for samples of stream sediment and panned concentrate. For the 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 heading has a letter "s" below the element symbol are emission spectrographic analyses; "aa" indicates atomic absorption analyses; and "i" indicates other instrumental analyses. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination value preceding the "N". If an element was observed but was below the lowest reporting value, a "less than" symbol (<) was entered in the tables in front of the lower limit of determination. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the tables in front of the upper limit of determination. If an element was not determined due to insufficient sample material or simply not analyzed for in a sample, two dashes (--) was entered in tables 4-6 in place of a value.

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

Elements	Lower determination limit	Upper determination limit
	Percent	
Iron (Fe)	0.05	20
Magnesium (Mg)	0.02	10
Calcium (Ca)	0.05	20
Titanium (Ti)	0.002	1
	Parts per million	
Manganese (Mn)	10	5,000
Silver (Ag)	0.5	5,000
Arsenic (As)	200	10,000
Gold (Au)	10	500
Boron (B)	10	2,000
Barium (Ba)	20	5,000
Beryllium (Be)	1	1,000
Bismuth (Bi)	10	1,000
Cadmium (Cd)	20	500
Cobalt (Co)	10	2,000
Chromium (Cr)	10	5,000
Copper (Cu)	5	20,000
Lanthanum (La)	50	1,000
Molybdenum (Mo)	5	2,000
Niobium (Nb)	20	2,000
Nickel (Ni)	5	5,000
Lead (Pb)	10	20,000
Antimony (Sb)	100	10,000
Scandium (Sc)	5	100
Tin (Sn)	10	1,000
Strontium (Sr)	100	5,000
Vanadium (V)	10	10,000
Tungsten (W)	20	10,000
Yttrium (Y)	10	2,000
Zinc (Zn)	200	10,000
Zirconium (Zr)	10	1,000
Thorium (Th)	100	2,000

TABLE 2. Limits of determination for the spectrographic analysis of panned concentrates based on a 5-mg sample.

Elements	Lower determination limit	Upper determination limit
	Percent	
Iron (Fe)	0.1	50
Magnesium (Mg)	0.05	20
Calcium (Ca)	0.1	50
Titanium (Ti)	0.005	2
	Parts per million	
Manganese (Mn)	20	10,000
Silver (Ag)	1	10,000
Arsenic (As)	500	20,000
Gold (Au)	20	1,000
Boron (B)	20	5,000
Barium (Ba)	50	10,000
Beryllium (Be)	2	2,000
Bismuth (Bi)	20	2,000
Cadmium (Cd)	50	1,000
Cobalt (Co)	10	5,000
Chromium (Cr)	20	10,000
Copper (Cu)	10	50,000
Lanthanum (La)	50	2,000
Molybdenum (Mo)	10	5,000
Niobium (Nb)	50	5,000
Nickel (Ni)	10	10,000
Lead (Pb)	20	50,000
Antimony (Sb)	200	20,000
Tin (Sn)	20	2,000
Strontium (Sr)	200	10,000
Vanadium (V)	20	20,000
Tungsten (W)	100	20,000
Yttrium (Y)	20	5,000
Zinc (Zn)	500	20,000
Zirconium (Zr)	20	2,000
Thorium (Th)	200	5,000

TABLE 3. Chemical methods used on stream-sediment samples

[AA = atomic absorption; I = instrumental method]

Element or constituent determined	Method	Determination limit (micrograms/ gram or ppm)	Reference
Gold (Au)	AA	0.05 or 0.10	Thompson and others, 1968.
Mercury (Hg)	I	0.02	Modification of McNerney and others 1972, and Vaughn, and McCarthy, 1964
Arsenic (As)	AA	10	O'Leary and Viets, 1986.
Antimony (Sb)	AA	2	
Zinc (Zn)	AA	5	

Table 4. Results of analyses of stream-sediment samples from the Hayfork 1:100,000 quadrangle, Trinity and Humboldt Counties, California.

SAMPLE #	LATITUDE	LONGITUDE	Fe s	Mg s	Ca s	Ti s	Mn s	Ag s	As s	Au s
1 A1S001	403420	1230550	7	1	1.5	0.5	1000	0.5N	200N	10N
2 A1S002	403418	1230406	10	1	1	0.7	1000	0.5N	200N	10N
3 A1S003	403333	1230646	7	1	1	0.5	700	0.5N	200N	10N
4 A1S004	403058	1230510	10	1.5	0.7	>1	1500	0.5N	200N	10N
5 A1S005	403011	1230459	10	2	1	1	1000	0.5N	200N	10N
6 A1S006	403002	1230103	5	1.5	2	0.5	1000	0.5N	200N	10N
7 A1S007	403218	1230527	7	2	1	0.7	1000	0.5N	200N	10N
8 A1S008	403503	1230421	5	1	0.5	0.5	700	0.5N	200N	10N
9 A1S009	403447	1230304	10	2	1.5	0.7	1000	0.5N	200N	10N
10 A1S010	403441	1230222	7	2	0.5	1	1000	0.5N	200N	10N
11 A2S001	403125	1231337	7	7	3	0.5	1000	0.5N	200N	10N
12 A2S002	403723	1230951	5	2	2	1	1500	0.5N	200N	10N
13 A2S003	403560	1230909	5	2	2	0.7	1000	0.5N	200N	10N
14 A2S004	403328	1230807	2	1	1	1	1000	0.5N	200N	10N
15 A2S005	403113	1231339	5	3	1.5	0.5	1000	0.5N	200N	10N
16 A2S006	403255	1231212	5	2	1	1	1000	0.5N	200N	10N
17 A2S007	403028	1230843	3	2	2	0.7	1000	0.5N	200N	10N
18 A2S008	403303	1230815	5	2	1	1	1500	0.5N	200N	10N
19 A2S009	403321	1231057	10	1.5	2	1	2000	0.5N	200N	10N
20 A2S010	403320	1231053	10	2	2	1	1500	0.5N	200N	10N
21 A2S011	403242	1231243	10	2	2	0.7	3000	0.5N	200N	10N
22 A2S012	403315	1231225	5	1.5	0.5	0.3	700	0.5N	200N	10N
23 A3S001	403054	1232118	5	2	1	0.7	1000	0.5N	200N	10N
24 A3S002	403044	1231914	5	1	1	0.7	1500	0.5N	200N	10N
25 A3S003	403034	1231908	5	3	3	1	1000	0.5N	200N	10N
26 A3S004	403145	1232032	5	2	1	0.7	700	0.5N	200N	10N
27 A3S005	403714	1232223	5	3	3	0.7	1000	0.5N	200N	10N
28 A3S006	403649	1232018	7	2	3	1	1500	0.5N	200N	10N
29 A3S007	403511	1231529	7	2	3	1	2000	0.5N	200N	10N
30 A3S008	403519	1231549	7	2	2	1	1500	0.5N	200N	10N
31 A3S009	403553	1231552	10	3	5	1	3000	0.5N	200N	10N
32 A3S010	403548	1231651	10	2	3	1	2000	0.5N	200N	10N
33 A3S011	403617	1231657	10	2	3	1	2000	0.5N	200N	10N
34 A4S001	403709	1232824	3	2	1	0.7	500	0.5N	200N	10N
35 A4S002	403630	1232707	5	5	1	0.5	1000	0.5N	200N	10N
36 A4S003	403021	1232806	3	2	1	0.7	1500	0.5N	200N	10N
37 A4S004	403448	1232637	5	2	0.5	0.7	700	0.5N	200N	10N
38 A4S005	403342	1232726	3	1	0.5	0.7	700	0.5N	200N	10N
39 A4S006	403331	1232734	5	1.5	0.5	0.7	1000	0.5N	200N	10N
40 A4S007	403414	1232632	7	10	3	0.7	1000	0.5N	200N	10N
41 A4S008	403238	1232723	5	2	0.15	0.7	700	0.5N	200N	10N
42 A4S009	403317	1232729	5	2	0.15	0.5	700	0.5N	200N	10N
43 A4S010	403357	1232449	5	5	3	0.7	1500	0.5N	200N	10N
44 A4S011	403241	1232349	5	3	2	0.5	1500	0.5N	200N	10N
45 A4S012	403157	1232302	7	3	2	0.7	2000	0.5N	200N	10N
46 A4S013	403510	1232315	5	2	3	0.7	1000	0.5N	200N	10N
47 A4S014	403724	1232423	5	3	3	0.5	1500	0.5N	200N	10N
48 A5S001	403657	1233601	5	1	0.2	1	1000	0.5N	200N	10N
49 A5S002	403653	1233605	5	1	0.2	0.7	1000	0.5N	200N	10N
50 A5S003	403429	1233434	5	1	0.2	1	1000	0.5N	200N	10N
51 A5S004	403435	1233445	5	1	0.15	1	1000	0.5N	200N	10N
52 A5S005	403443	1233444	7	1	0.15	1	1000	0.5N	200N	10N
53 A5S006	403233	1233416	--	--	--	--	--	--	--	--
54 A6S001	403545	1234308	10	2	1	0.5	1500	0.5N	200N	10N
55 A7S001	403648	1235103	5	2	0.5	1	700	0.5N	200N	10N
56 A7S002	403301	1235149	3	1	0.5	0.5	1000	0.5N	200N	10N
57 A7S003	403028	1234910	5	1	0.3	0.5	1000	0.5N	200N	10N
58 A7S004	403258	1234844	5	1.5	0.5	0.5	1000	0.5N	200N	10N
59 A7S005	403437	1234603	5	1.5	0.7	0.7	1000	0.5N	200N	10N
60 A7S006	403524	1234531	7	3	0.5	1	1000	0.5N	200N	10N

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	LATITUDE	LONGITUDE	Fe s	Mg s	Ca s	Ti s	Mn s	Ag s	As s	Au s
61 A7S007	403653	1234526	7	2	0.2	1	1000	0.5N	200N	10N
62 A7S008	403708	1234909	5	1.5	0.5	0.3	1000	0.5N	200N	10N
63 A8S001	403005	1235823	3	1	0.3	0.2	500	0.5N	200N	10N
64 A8S002	403449	1235822	5	1	0.2	0.2	1000	0.5N	200N	10N
65 A8S003	403434	1235604	5	0.7	0.2	0.2	1500	0.5N	200N	10N
66 A8S004	403606	1235601	3	1	0.3	0.2	700	0.5N	200N	10N
67 A8S005	403411	1235610	7	1	0.5	0.3	700	0.5N	200N	10N
68 A8S006	403607	1235834	2	0.7	0.15	0.2	700	0.5N	200N	10N
69 A8S007	403658	1235912	10	1.5	0.2	0.5	1000	0.5N	200N	10N
70 A8S008	403139	1235947	3	1	0.3	0.3	700	0.5N	200N	10N
71 A8S009	403032	1235911	5	1	0.3	0.5	700	0.5N	200N	10N
72 A8S010	403238	1235449	3	1	0.3	0.3	700	0.5N	200N	10N
73 B1S001	404304	1230308	2	1	1	1	2000	0.5N	200N	10N
74 B1S002	403955	1230203	5	2	1.5	1	1000	0.5N	200N	10N
75 B1S003	403957	1230030	5	3	1	1	1000	0.5N	200N	10N
76 B1S004	403941	1230126	7	2	1	1	700	0.5N	200N	10N
77 B1S005	404123	1230342	7	2	1	1	1000	0.5N	200N	10N
78 B1S006	404057	1230407	7	1	1	1	1000	0.5N	200N	10N
79 B1S007	404053	1230525	7	3	1	1	1000	0.5N	200N	10N
80 B1S008	404357	1230117	10	2	2	>1	2000	0.5N	200N	10N
81 B1S009	404227	1230221	7	1.5	2	1	1500	0.5N	200N	10N
82 B1S010	404449	1230305	15	5	10	>1	3000	0.5N	200N	10N
83 B2S001	404048	1230743	5	2	1	1	1000	0.5N	200N	10N
84 B2S002	404049	1230746	5	1.5	0.7	1	700	0.5N	200N	10N
85 B2S003	404425	1231437	5	1.5	1	1	1000	0.5N	200N	10N
86 B2S004	404002	1230849	5	2	3	1	1000	0.5N	200N	10N
87 B2S005	403915	1230926	2	1.5	3	1	1000	0.5N	200N	10N
88 B2S006	403838	1231058	3	1.5	2	0.7	1000	0.5N	200N	10N
89 B2S007	404420	1231110	5	2	0.5	0.5	1000	<0.5	200N	10N
90 B2S008	404427	1231154	7	2	1.5	0.5	1000	0.5N	200N	10N
91 B2S009	404424	1231311	7	3	1.5	0.5	1000	0.5N	200N	10N
92 B3S001	403808	1232145	7	2	3	>1	2000	0.5N	200N	10N
93 B3S002	403811	1232124	10	5	3	>1	2000	0.5N	200N	10N
94 B3S003	404414	1231507	3	5	2	0.7	1500	0.5N	200N	10N
95 B3S004	404206	1231829	3	1	2	0.5	1500	0.5N	200N	10N
96 B3S005	404209	1231845	1.5	0.7	2	0.2	1000	0.5N	200N	10N
97 B3S006	404207	1232057	10	2	5	>1	3000	0.5N	200N	10N
98 B3S007	404212	1232133	5	2	3	0.5	1500	0.5N	200N	10N
99 B3S008	404215	1232137	5	1.5	3	1	1500	0.5N	200N	10N
100 B3S009	404134	1232220	20	2	1.5	>1	2000	0.5N	200N	10N
101 B3S010	404452	1231636	7	2	1	1	1500	0.5N	200N	10N
102 B3S011	404441	1231611	7	2	1	0.5	1500	0.5N	200N	10N
103 B3S012	404425	1231504	3	1	2	0.5	1500	0.5N	200N	10N
104 B4S001	403942	1232934	5	3	2	0.7	1000	0.5N	200N	10N
105 B4S002	403846	1232940	7	10	0.7	0.3	700	0.5N	200N	10N
106 B4S003	403802	1232859	5	1	1	1	1000	0.5N	200N	10N
107 B4S004	403856	1232606	5	5	2	0.7	1000	0.5N	200N	10N
108 B4S005	404055	1232703	5	1.5	2	0.3	1000	0.5N	200N	10N
109 B4S006	404126	1232802	10	1.5	2	1	1000	0.5N	200N	10N
110 B4S007	404155	1232626	10	1.5	2	>1	1500	0.5N	200N	10N
111 B4S008	404200	1232536	15	1	2	>1	3000	0.5N	200N	10N
112 B5S001	404312	1233711	10	1.5	0.3	1	1000	0.5N	200N	10N
113 B5S002	404308	1233115	10	10	1	0.3	1000	0.5N	200N	10N
114 B5S003	404222	1233539	5	1	0.2	0.7	700	0.5N	200N	10N
115 B5S004	404253	1233449	5	10	3	1	1000	0.5N	200N	10N
116 B5S005	404213	1233214	5	5	0.5	0.7	1000	0.5N	200N	10N
117 B5S006	404154	1233146	3	1	0.15	1	1000	0.5N	200N	10N
118 B5S007	404224	1233501	5	1	0.5	1	700	0.5N	200N	10N
119 B6S001	404420	1234427	7	2	0.3	0.3	1500	0.5N	200N	10N
120 B6S002	404259	1234237	5	2	0.3	0.5	1000	0.5N	200N	10N

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	LATITUDE	LONGITUDE	Fe s	Mg s	Ca s	Ti s	Mn s	Ag s	As s	Au s
121 B6S003	404330	1233828	3	1	0.3	1	1000	0.5N	200N	10N
122 B6S004	404318	1233825	5	1	0.15	1	1000	0.5N	200N	10N
123 B6S005	403838	1234042	3	1	0.2	1	700	0.5N	200N	10N
124 B6S006	404001	1234341	3	3	0.5	0.5	700	0.5N	200N	10N
125 B6S007	404001	1234412	3	2	0.5	0.7	700	0.5N	200N	10N
126 B7S001	404347	1235113	7	2	0.3	0.5	1000	0.5N	200N	10N
127 B7S002	404304	1235051	10	3	0.3	0.5	1000	0.5N	200N	10N
128 B7S003	404215	1235040	5	1	0.2	0.3	1000	0.5N	200N	10N
129 B7S004	403946	1234832	7	2	0.2	0.7	1000	0.5N	200N	10N
130 B7S005	403942	1234738	1.5	1	0.15	0.3	500	0.5N	200N	10N
131 B7S006	403926	1234657	10	3	0.5	0.5	1000	0.5N	200N	10N
132 B7S007	403923	1234524	7	2	0.5	0.3	700	0.5N	200N	10N
133 B7S008	404120	1235142	5	1.5	0.5	0.2	300	0.5N	200N	10N
134 B7S009	404011	1235140	5	5	0.3	0.2	700	0.5N	200N	10N
135 B7S010	403952	1235045	5	3	0.5	0.5	1000	0.5N	200N	10N
136 B7S011	403945	1235012	3	0.7	0.5	0.3	700	0.5N	200N	10N
137 B7S012	403810	1235225	3	1.5	0.5	0.5	500	0.5N	200N	10N
138 B8S001	404133	1235237	10	7	0.5	0.3	1000	0.5N	200N	10N
139 B8S002	404405	1235736	10	1.5	0.5	0.5	1000	0.5N	200N	10N
140 B8S003	403830	1235326	10	1.5	0.3	0.5	1000	0.5N	200N	10N
141 B8S004	403912	1235515	10	3	1	0.5	1000	0.5N	200N	10N
142 B8S005	404003	1235518	1.5	2	0.5	0.2	700	0.5N	200N	10N
143 B8S006	404110	1235605	7	2	0.7	0.3	1000	0.5N	200N	10N
144 B8S007	404152	1235609	10	2	0.5	0.5	1000	0.5N	200N	10N
145 B8S008	404024	1235720	5	1.5	0.5	0.2	700	0.5N	200N	10N
146 B8S009	404029	1235909	7	1.5	0.5	0.3	1000	0.5N	200N	10N
147 B8S010	403756	1235937	7	1.5	0.2	0.2	1000	0.5N	200N	10N
148 C1S001	404816	1230334	10	3	5	>1	1500	0.5N	200N	10N
149 C1S002	405015	1230300	10	2	3	1	1000	0.5N	200N	10N
150 C1S003	405112	1230029	10	5	3	1	2000	0.5N	200N	10N
151 C1S004	405047	1230041	7	2	2	1	1000	0.5N	200N	10N
152 C1S005	405160	1230205	10	5	5	>1	1500	0.5	200N	10N
153 C1S006	404916	1230329	10	5	5	>1	2000	0.5N	200N	10N
154 C1S007	404742	1230323	10	5	5	>1	3000	0.5N	200N	10N
155 C1S008	404503	1230509	7	3	0.5	1	2000	0.5N	200N	10N
156 C1S009	404921	1230728	10	5	5	>1	2000	0.5N	200N	10N
157 C1S010	404850	1230707	10	5	5	>1	2000	0.5N	200N	10N
158 C1S011	404718	1230730	7	2	2	>1	2000	0.5N	200N	10N
159 C2S001	404547	1230821	3	1.5	0.5	0.3	1000	0.5N	200N	10N
160 C2S002	404531	1230901	7	5	2	1	1000	0.5N	200N	10N
161 C2S003	404505	1230950	7	3	2	1	1000	0.5N	200N	10N
162 C2S004	405048	1231009	10	5	2	1	1000	0.5N	200N	10N
163 C2S005	405001	1230934	10	7	2	0.5	1000	0.5N	200N	10N
164 C3S001	405146	1231642	5	2	2	0.5	1000	0.5N	200N	10N
165 C3S002	405143	1231624	7	3	2	0.5	1000	0.5N	200N	10N
166 C3S003	405026	1231646	3	1	1	0.5	700	0.5N	200N	10N
167 C3S004	405031	1231700	2	1	1	0.5	500	0.5N	200N	10N
168 C3S005	404953	1231715	3	1	1	0.5	700	0.5N	200N	10N
169 C3S006	404924	1231745	3	1	0.7	0.7	700	0.5N	200N	10N
170 C3S007	405028	1232105	5	1	1	1	1000	0.5N	200N	10N
171 C3S008	405112	1232037	2	1	0.7	0.5	500	0.5N	200N	10N
172 C3S009	404616	1231822	10	2	1	>1	1000	0.5N	200N	10N
173 C3S010	404547	1231708	2	1	1	0.2	500	0.5N	200N	10N
174 C3S011	404746	1232149	2	1	3	0.3	500	0.5N	200N	10N
175 C3S012	404741	1232119	5	3	3	0.7	1000	0.5N	200N	10N
176 C3S013	404735	1232060	7	3	2	1	1500	0.5N	200N	10N
177 C3S014	404647	1231951	10	2	1.5	0.7	2000	0.5N	200N	10N
178 C3S015	404640	1232020	10	2	1	1	1000	0.5N	200N	10N
179 C3S016	404652	1231831	5	1	1	0.2	1000	0.5N	200N	10N
180 C3S017	404559	1231755	3	0.7	1	0.3	700	0.5N	200N	10N

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	LATITUDE	LONGITUDE	Fe s	Mg s	Ca s	Ti s	Mn s	Ag s	As s	Au s
181 C4S001	405204	1233003	5	2	2	0.3	1000	0.5N	200N	10N
182 C4S002	404939	1232914	5	7	0.5	0.15	1000	0.5N	200N	10N
183 C4S003	404846	1232842	10	10	0.5	0.15	1000	0.5N	200N	10N
184 C4S004	404811	1232855	10	10	0.3	0.2	1000	0.5N	200N	10N
185 C4S005	404720	1232644	15	7	1	0.3	1000	0.5N	200N	10N
186 C4S006	404722	1232627	20	2	1	>1	5000	0.5N	200N	10N
187 C4S007	404713	1232529	7	1	1.5	0.5	1000	0.5N	200N	10N
188 C4S008	404723	1232443	5	1	1.5	0.3	1000	0.5N	200N	10N
189 C4S009	404805	1232319	2	0.7	1.5	0.15	300	0.5N	200N	10N
190 C5S001	405015	1233345	3	0.7	0.3	1	500	0.5N	200N	10N
191 C5S002	404860	1233338	3	1.5	1	0.2	1000	0.5N	200N	10N
192 C5S003	404723	1233400	5	1.5	1.5	0.5	2000	0.5N	200N	10N
193 C5S004	404714	1233311	5	3	1	0.3	1000	0.5N	200N	10N
194 C5S005	404704	1233252	10	5	1.5	0.3	1500	0.5N	200N	10N
195 C5S006	404557	1233238	7	10	1	0.2	1000	0.5N	200N	10N
196 C5S007	405151	1233101	5	2	0.2	1	500	0.5N	200N	10N
197 C5S008	405134	1233041	7	2	0.2	1	500	0.5N	200N	10N
198 C6S001	405121	1234153	10	10	1.5	0.15	1000	0.5N	200N	10N
199 C6S002	405105	1234139	10	7	1	0.2	1000	0.5N	200N	10N
200 C6S003	405011	1234202	5	3	1	0.2	1000	0.5N	200N	10N
201 C6S004	404926	1234127	5	2	1.5	0.3	700	0.5N	200N	10N
202 C6S005	404746	1233803	10	1.5	1.5	0.3	1500	0.5N	200N	10N
203 C6S006	404638	1233760	15	5	2	1	1500	0.5N	200N	10N
204 C7S001	404948	1234611	10	3	0.3	0.5	1000	0.5N	200N	10N
205 C7S002	404825	1234658	7	2	0.15	0.5	700	0.5N	200N	10N
206 C7S003	404737	1234553	10	2	0.1	0.5	700	0.5N	200N	10N
207 C7S004	405141	1234814	7	3	0.2	0.5	700	0.5N	200N	10N
208 C7S005	405201	1234720	7	1	0.2	0.7	700	0.5N	200N	10N
209 C7S006	405144	1234657	7	1.5	0.15	0.5	1000	0.5N	200N	10N
210 C8S001	405015	1235635	7	1.5	1	>1	1000	0.5N	200N	10N
211 C8S002	404944	1235809	1.5	0.7	0.2	0.5	500	0.5N	200N	10N
212 C8S003	405004	1235832	3	1	0.7	0.5	700	0.5N	200N	10N
213 C8S004	405060	1235925	2	1	0.7	0.5	500	0.5N	200N	10N
214 C8S005	404844	1235503	5	1.5	0.5	0.5	700	0.5N	200N	10N
215 C8S006	404822	1235449	5	1	0.3	0.5	700	0.5N	200N	10N
216 C8S007	404957	1235532	5	1	1	0.7	1000	0.5N	200N	10N
217 C8S008	405206	1235729	7	1.5	0.1	0.5	700	0.5N	200N	10N
218 C8S009	405046	1235336	5	1	0.1	0.5	500	0.5N	200N	10N
219 C8S010	404653	1235237	3	1	0.7	0.2	700	0.5N	200N	10N
220 C8S011	404636	1235427	7	3	0.5	0.5	700	0.5N	200N	10N
221 C8S012	404715	1235959	3	1.5	0.2	0.3	500	0.5N	200N	10N
222 D1S001	405250	1230138	10	2	5	>1	2000	0.5N	200N	10N
223 D1S002	405330	1230116	10	3	5	>1	2000	0.5N	200N	10N
224 D1S003	405514	1230133	5	2	3	1	1500	0.5N	200N	10N
225 D1S004	405712	1230135	5	2	5	0.7	1000	0.5N	200N	10N
226 D1S005	405841	1230142	3	1.5	5	0.5	1000	0.5N	200N	10N
227 D2S001	405337	1230743	7	3	5	1	1500	0.5N	200N	10N
228 D2S002	405339	1230738	10	3	5	>1	2000	0.5N	200N	10N
229 D2S003	405241	1230739	10	3	5	>1	2000	0.5N	200N	10N
230 D2S004	405905	1230945	5	3	3	1	1000	0.5N	200N	10N
231 D2S005	405905	1230934	7	3	3	>1	1000	0.5N	200N	10N
232 D2S006	405731	1230912	7	2	5	>1	1500	0.5N	200N	10N
233 D2S007	405642	1230919	3	3	5	0.5	1000	0.5N	200N	10N
234 D2S008	405610	1230921	10	3	5	>1	1500	0.5N	200N	10N
235 D2S009	405240	1230951	7	2	5	0.7	1000	0.5N	200N	10N
236 D3S001	405902	1231841	10	5	2	0.5	1000	0.5N	200N	10N
237 D3S002	405858	1231848	10	2	0.7	0.5	1000	0.5N	200N	10N
238 D3S003	405742	1232054	10	3	0.7	0.5	1000	0.5N	200N	10N
239 D3S004	405605	1231509	7	2	2	0.3	1000	0.5N	200N	10N
240 D3S005	405605	1231716	10	7	1	0.3	1000	0.5N	200N	10N

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	LATITUDE	LONGITUDE	Fe s	Mg s	Ca s	Ti s	Mn s	Ag s	As s	Au s
241 D3S006	405549	1231743	7	2	0.5	0.7	1500	0.5N	200N	10N
242 D3S007	405554	1231749	10	1.5	0.2	0.5	700	0.5N	200N	10N
243 D3S008	405451	1231945	3	1	0.7	0.3	1000	0.5N	200N	10N
244 D3S009	405455	1231941	7	5	1	0.5	1000	0.5N	200N	10N
245 D3S010	405543	1232007	10	7	1	0.5	700	0.5N	200N	10N
246 D3S011	405559	1231656	10	5	1	0.5	1000	0.5N	200N	10N
247 D4S001	405713	1232319	15	2	3	0.5	3000	0.5N	200N	10N
248 D4S002	405719	1232239	2	1.5	0.7	0.5	700	0.5N	200N	10N
249 D4S003	405434	1232547	5	5	2	0.7	1500	0.5N	200N	10N
250 D4S004	405413	1232638	5	2	2	0.7	1000	0.5N	200N	10N
251 D4S005	405342	1232523	5	7	3	0.3	1000	0.5N	200N	10N
252 D5S001	405517	1233723	7	7	2	0.7	1000	0.5N	200N	10N
253 D5S001	405517	1233723	3	0.7	0.3	1	700	0.5N	200N	10N
254 D5S002	405514	1233626	2	0.7	1	1	500	0.5N	200N	10N
255 D5S003	405352	1233357	2	1	0.3	0.7	500	0.5N	200N	10N
256 D5S004	405341	1233324	2	1	0.3	1	1000	0.5N	200N	10N
257 D5S005	405327	1233023	3	1.5	0.5	0.7	1000	0.5N	200N	10N
258 D5S006	405651	1233634	7	10	2	0.5	1000	0.5N	200N	10N
259 D5S007	405234	1233716	7	10	2	0.5	700	0.5N	200N	10N
260 D6S001	405914	1233756	5	1	0.5	0.7	700	0.5N	200N	10N
261 D6S002	405746	1233832	7	5	0.7	0.7	1000	0.5N	200N	10N
262 D6S003	405853	1233824	5	3	0.7	1	700	0.5N	200N	10N
263 D6S004	405423	1234220	10	10	2	1	1000	0.5N	200N	10N
264 D6S005	405517	1234152	7	7	1.5	1	1000	0.5N	200N	10N
265 D6S006	405704	1234103	7	7	0.3	0.7	700	0.5N	200N	10N
266 D6S007	405714	1234018	7	5	3	0.7	1000	0.5N	200N	10N
267 D6S008	405638	1233922	7	7	0.5	0.2	1000	0.5N	200N	10N
268 D6S009	405516	1234137	7	10	0.7	0.2	700	0.5N	200N	10N
269 D6S010	405318	1233836	7	10	1	0.3	1000	0.5N	200N	10N
270 D7S001	405443	1234843	7	1.5	0.3	0.7	700	0.5N	200N	10N
271 D7S002	405646	1235041	7	2	0.7	0.7	1000	0.5N	200N	10N
272 D7S003	405910	1235056	7	2	0.5	0.7	700	0.5N	200N	10N
273 D7S004	405740	1235004	7	1.5	0.3	1	1000	0.5N	200N	10N
274 D7S005	405422	1234942	7	3	0.2	0.7	500	0.5N	200N	10N
275 D7S006	405406	1234558	7	1.5	0.3	0.5	>5000	0.5N	200N	10N
276 D7S007	405412	1234603	7	1.5	0.2	0.5	700	0.5N	200N	10N
277 D7S008	405321	1234725	7	2	0.15	0.5	1000	0.5N	200N	10N
278 D8S001	405353	1235452	5	1.5	0.3	0.5	500	0.5N	200N	10N
279 D8S002	405622	1235551	5	1	0.2	0.3	500	0.5N	200N	10N
280 D8S003	405744	1235619	7	1.5	0.3	0.5	700	0.5N	200N	10N
281 D8S004	405802	1235648	10	2	0.3	0.5	1000	0.5N	200N	10N
282 D8S005	405757	1235731	5	1.5	0.2	0.3	700	0.5N	200N	10N
283 D8S006	405943	1235508	7	2	0.3	0.7	1000	0.5N	200N	10N
284 D8S007	405425	1235444	10	1.5	0.2	0.5	1000	0.5N	200N	10N
285 D8S008	405314	1235559	3	1	0.3	0.5	500	0.5N	200N	10N
286 D8S009	405652	1235257	3	1.5	0.3	0.5	1000	0.5N	200N	10N
287 D8S010	405317	1235832	5	2	0.3	0.7	700	0.5N	200N	10N

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	B s	Ba s	Be s	Bi s	Cd s	Co s	Cr s	Cu s	La s	Mo s
1 A1S001	30	700	1	10N	20N	20	>5000	50	20N	5N
2 A1S002	100	700	1	10N	20N	15	1500	100	<20	5N
3 A1S003	70	500	1	10N	20N	20	1500	70	20N	5N
4 A1S004	100	500	1	10N	20N	30	1000	70	50	5N
5 A1S005	100	500	1	10N	20N	20	200	100	<20	<5
6 A1S006	100	1000	1.5	10N	20N	15	200	50	50	5N
7 A1S007	70	1000	1.5	10N	20N	20	700	70	50	5N
8 A1S008	50	500	1	10N	20N	20	500	50	<20	5N
9 A1S009	50	500	1	10N	20N	30	2000	50	20N	5N
10 A1S010	70	500	1.5	10N	20N	30	700	70	20N	5N
11 A2S001	50	300	1	10N	20N	50	2000	70	20N	5N
12 A2S002	100	1000	1.5	10N	20N	20	150	70	<20	<5
13 A2S003	100	1000	1.5	10N	20N	20	500	50	100	<5
14 A2S004	50	700	1.5	10N	20N	10	700	100	20N	5N
15 A2S005	20	500	1	10N	20N	20	>5000	70	20N	5N
16 A2S006	30	500	1	10N	20N	20	1000	100	<20	5N
17 A2S007	50	500	1	10N	20N	20	500	70	20N	5N
18 A2S008	100	500	1.5	10N	20N	20	1000	100	<20	<5
19 A2S009	50	500	1	10N	20N	30	2000	70	20N	5N
20 A2S010	50	500	1	10N	20N	20	1500	70	20N	5N
21 A2S011	50	500	1	10N	20N	20	1000	100	20N	5N
22 A2S012	70	500	1	10N	20N	15	300	50	20N	5N
23 A3S001	50	300	1	10N	20N	15	1500	70	20N	5N
24 A3S002	50	500	1.5	10N	20N	15	200	70	20N	5N
25 A3S003	50	300	1.5	10N	20N	20	2000	100	20N	5N
26 A3S004	50	500	1	10N	20N	20	1500	70	20N	5N
27 A3S005	50	700	1	10N	20N	20	200	150	20N	5N
28 A3S006	50	500	1	10N	20N	30	150	150	20N	5N
29 A3S007	30	700	1	10N	20N	20	100	150	50	5
30 A3S008	30	300	1	10N	20N	15	1000	100	20N	5N
31 A3S009	50	500	1	10N	20N	50	200	100	20N	5
32 A3S010	50	300	1	10N	20N	50	100	150	20N	<5
33 A3S011	20	300	1	10N	20N	30	200	70	20N	<5
34 A4S001	100	700	1.5	10N	20N	20	200	50	50	5N
35 A4S002	50	300	1	10N	20N	50	2000	50	20N	5N
36 A4S003	100	500	1.5	10N	20N	50	500	50	<20	5N
37 A4S004	100	700	1.5	10N	20N	30	500	50	<20	<5
38 A4S005	100	700	1.5	10N	20N	20	150	30	20N	<5
39 A4S006	150	700	1.5	10N	20N	50	200	70	50	5N
40 A4S007	100	500	1	10N	20N	50	2000	100	20N	5N
41 A4S008	100	500	1.5	10N	20N	30	150	100	50	5N
42 A4S009	150	500	1.5	10N	20N	20	100	150	70	5N
43 A4S010	100	700	1	10N	20N	50	5000	100	20N	<5
44 A4S011	150	200	1	10N	20N	50	1500	100	20N	5N
45 A4S012	100	500	1	10N	20N	30	1000	150	20N	5N
46 A4S013	100	500	1	10N	20N	30	1500	50	20N	5N
47 A4S014	70	500	1	10N	20N	50	1500	150	20N	<5
48 A5S001	100	700	1	10N	20N	30	150	100	20N	5N
49 A5S002	100	1500	1	10N	20N	30	200	50	30	5N
50 A5S003	150	1000	1.5	10N	20N	30	150	70	30	5N
51 A5S004	150	1000	1.5	10N	20N	30	100	70	30	5N
52 A5S005	150	700	1.5	10N	20N	30	150	70	50	5N
53 A5S006	--	--	--	--	--	--	--	--	--	--
54 A6S001	30	500	1	10N	20N	30	500	100	20N	5N
55 A7S001	50	500	1	10N	20N	20	200	30	20N	5N
56 A7S002	50	500	1	10N	20N	15	500	50	20N	5N
57 A7S003	50	700	1.5	10N	20N	20	300	50	20N	5N
58 A7S004	50	500	1	10N	20N	15	500	50	20N	5N
59 A7S005	100	500	1.5	10N	20N	20	700	50	20N	5N
60 A7S006	70	500	1	10N	20N	30	1000	100	20N	5N

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	B	Ba	Be	Bi	Cd	Co	Cr	Cu	La	Mo
	s	s	s	s	s	s	s	s	s	s
61 A7S007	70	500	1	10N	20N	20	200	70	20N	5N
62 A7S008	50	700	1	10N	20N	15	200	50	20N	5N
63 A8S001	50	500	1	10N	20N	10	150	10	20N	5N
64 A8S002	50	500	1.5	10N	20N	20	70	50	50	5N
65 A8S003	50	500	1.5	10N	20N	20	70	30	<20	5N
66 A8S004	50	300	1	10N	20N	7	150	30	<20	5N
67 A8S005	70	700	1	10N	20N	20	200	50	20N	5N
68 A8S006	50	700	1	10N	20N	7	50	20	<20	5N
69 A8S007	70	500	1.5	10N	20N	20	100	70	20N	5N
70 A8S008	50	300	1	10N	20N	10	700	20	20N	5N
71 A8S009	50	300	1	10N	20N	10	700	30	20N	5N
72 A8S010	50	700	1	10N	20N	5	300	30	<20	5N
73 B1S001	70	200	1	10N	20N	15	500	30	<20	5N
74 B1S002	70	500	1	10N	20N	20	2000	100	<20	5N
75 B1S003	100	700	1	10N	20N	20	2000	100	20N	5N
76 B1S004	100	1000	1	10N	20N	20	700	100	<20	5N
77 B1S005	100	700	1	10N	20N	20	2000	50	<20	5N
78 B1S006	150	1000	1.5	10N	20N	30	200	150	50	5
79 B1S007	100	1000	1	10N	20N	50	700	70	<20	<5
80 B1S008	70	500	1	10N	20N	30	500	150	20N	5N
81 B1S009	100	500	1	10N	20N	20	500	100	20N	5N
82 B1S010	20	20	1N	10N	20N	70	100	100	20N	5N
83 B2S001	100	500	1	10N	20N	20	1500	50	50	5N
84 B2S002	150	500	1	10N	20N	20	150	50	50	5N
85 B2S003	150	1000	1.5	10N	20N	15	500	50	<20	5
86 B2S004	150	700	1.5	10N	20N	30	1000	30	50	5N
87 B2S005	100	700	1.5	10N	20N	30	500	70	50	<5
88 B2S006	100	700	1.5	10N	20N	30	200	50	30	<5
89 B2S007	70	700	1	10N	20N	20	500	50	20N	5
80 B2S008	50	1000	1	10N	20N	20	500	70	20N	5
91 B2S009	70	700	1	10N	20N	30	700	100	20N	5
92 B3S001	50	700	1	10N	20N	50	500	100	20N	<5
93 B3S002	70	300	1	10N	20N	50	1000	100	20N	<5
94 B3S003	100	700	1.5	10N	20N	50	200	70	20N	5
95 B3S004	70	500	1.5	10N	20N	30	50	70	<20	<5
96 B3S005	50	200	1.5	10N	20N	15	1000	50	20N	<5
97 B3S006	50	500	1	10N	20N	50	200	100	<20	5
98 B3S007	50	500	1	10N	20N	30	100	100	20N	5N
99 B3S008	50	700	1.5	10N	20N	30	200	100	<20	5N
100 B3S009	50	1000	<1	10N	20N	30	100	100	20N	5N
101 B3S010	100	1000	1.5	10N	20N	20	300	100	50	<5
102 B3S011	100	1000	1.5	10N	20N	20	300	100	30	<5
103 B3S012	150	500	1	10N	20N	15	100	70	20N	5N
104 B4S001	70	500	1	10N	20N	50	1000	100	20N	5
105 B4S002	100	200	<1	10N	20N	50	1500	50	20N	5N
106 B4S003	100	500	1.5	10N	20N	30	1000	70	50	5N
107 B4S004	50	500	1	10N	20N	50	5000	70	20N	5N
108 B4S005	50	150	1	10N	20N	30	>5000	70	20N	<5
109 B4S006	100	700	1	10N	20N	30	>5000	100	20N	<5
110 B4S007	50	1000	1.5	10N	20N	30	500	150	50	5N
111 B4S008	50	1000	1	10N	20N	50	100	100	<20	5N
112 B5S001	200	500	1.5	10N	20N	30	700	50	20N	5N
113 B5S002	100	700	1	10N	20N	30	>5000	50	20N	5N
114 B5S003	150	700	1.5	10N	20N	20	150	150	50	5N
115 B5S004	100	200	<1	10N	20N	50	1000	100	20N	<5
116 B5S005	100	500	1	10N	20N	50	2000	100	20N	5N
117 B5S006	100	700	1.5	10N	20N	30	100	100	<20	<5
118 B5S007	100	500	1.5	10N	20N	30	500	100	30	5N
119 B6S001	150	700	1	10N	20N	20	500	70	20N	5N
120 B6S002	100	500	1	10N	20N	20	500	100	20N	5N

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	B s	Ba s	Be s	Bi s	Cd s	Co s	Cr s	Cu s	La s	Mo s
121 B6S003	100	500	1.5	10N	20N	30	200	70	20N	5N
122 B6S004	100	700	1.5	10N	20N	30	100	100	<20	5N
123 B6S005	100	500	1.5	10N	20N	30	200	30	<20	5N
124 B6S006	100	500	1.5	10N	20N	70	1000	100	20N	5N
125 B6S007	100	500	1.5	10N	20N	20	1000	50	<20	5N
126 B7S001	70	500	1	10N	20N	20	1000	70	<20	5N
127 B7S002	100	700	1	10N	20N	20	700	70	20N	5N
128 B7S003	70	500	1	10N	20N	15	150	20	20N	5N
129 B7S004	100	500	1	10N	20N	15	300	70	20N	5N
130 B7S005	50	300	1	10N	20N	7	150	20	20N	<5
131 B7S006	100	1000	1	10N	20N	20	500	70	20N	5N
132 B7S007	100	700	1	10N	20N	20	1000	50	70	5N
133 B7S008	70	500	1	10N	20N	7	300	50	20N	5N
134 B7S009	50	500	1	10N	20N	20	2000	50	20N	5N
135 B7S010	100	500	1.5	10N	20N	20	1000	50	<20	5N
136 B7S011	20	1000	1.5	10N	20N	10	100	15	50	5N
137 B7S012	50	300	1	10N	20N	15	1500	20	<20	5N
138 B8S001	50	150	<1	10N	20N	50	2000	50	20N	5N
139 B8S002	50	300	1	10N	20N	15	700	50	20N	5N
140 B8S003	70	500	1	10N	20N	15	1000	50	20N	5N
141 B8S004	70	300	1	10N	20N	20	1000	70	20N	5N
142 B8S005	50	150	1	10N	20N	10	500	15	20N	5N
143 B8S006	50	500	1	10N	20N	20	1000	50	20N	5N
144 B8S007	70	700	1	10N	20N	20	1500	100	20N	5N
145 B8S008	50	700	1	10N	20N	10	500	15	20N	5N
146 B8S009	70	700	1	10N	20N	10	1500	20	20N	5N
147 B8S010	70	700	1	10N	20N	10	500	50	20N	5N
148 C1S001	50	20	<1	10N	20N	30	150	100	20N	5
149 C1S002	30	<20	<1	10N	20N	30	100	70	20N	5N
150 C1S003	20	100	<1	10N	20N	30	150	50	20N	<5
151 C1S004	10	300	1	10N	20N	20	100	50	20N	5N
152 C1S005	10	20	<1	10N	20N	50	150	150	20N	5N
153 C1S006	50	20	<1	10N	20N	50	100	100	20N	5N
154 C1S007	15	20	<1	10N	20N	30	150	100	20N	5N
155 C1S008	150	1000	1.5	10N	20N	20	300	100	50	7
156 C1S009	50	150	<1	10N	20N	30	150	100	20N	5N
157 C1S010	20	20	<1	10N	20N	30	150	100	20N	5N
158 C1S011	50	300	<1	10N	20N	30	150	70	20N	5N
159 C2S001	100	500	1	10N	20N	15	70	100	20N	<5
160 C2S002	70	500	<1	10N	20N	50	700	100	20N	<5
161 C2S003	70	1000	1	10N	20N	30	500	70	20N	7
162 C2S004	100	20	1	10N	20N	20	50	150	20N	5N
163 C2S005	100	50	1N	10N	20N	30	5000	100	20N	5N
164 C3S001	100	300	1	10N	20N	15	100	50	20N	5N
165 C3S002	100	300	1	10N	20N	30	500	150	20N	<5
166 C3S003	100	500	1	10N	20N	10	200	50	20N	<5
167 C3S004	100	300	1	10N	20N	10	100	20	20N	<5
168 C3S005	100	500	1	10N	20N	10	200	50	20N	<5
169 C3S006	100	500	1	10N	20N	10	200	30	20N	5N
170 C3S007	150	500	1	10N	20N	10	500	50	20N	5N
171 C3S008	70	500	1	10N	20N	10	200	30	20N	5N
172 C3S009	150	1000	1.5	10N	20N	30	300	100	50	5N
173 C3S010	100	500	1.5	10N	20N	7	200	30	20N	5N
174 C3S011	50	500	1	10N	20N	5	1000	20	20N	5N
175 C3S012	100	700	1	10N	20N	15	500	100	20N	<5
176 C3S013	100	1000	1	10N	20N	20	300	100	20N	5
177 C3S014	150	500	1	10N	20N	20	100	100	50	5N
178 C3S015	150	700	1.5	10N	20N	20	150	100	30	5N
179 C3S016	150	500	1	10N	20N	10	200	70	20N	5N
180 C3S017	150	200	1.5	10N	20N	7	150	20	20N	<5

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	B s	Ba s	Be s	Bi s	Cd s	Co s	Cr s	Cu s	La s	Mo s
181 C4S001	100	1000	1.5	10N	20N	20	500	100	<20	5N
182 C4S002	50	150	<1	10N	20N	50	5000	15	20N	5N
183 C4S003	50	500	<1	10N	20N	70	>5000	30	20N	5N
184 C4S004	100	500	1N	10N	20N	30	>5000	50	20N	5N
185 C4S005	30	300	1N	10N	20N	50	>5000	100	20N	5N
186 C4S006	50	500	1N	10N	20N	30	300	100	20N	5N
187 C4S007	50	500	1	10N	20N	15	100	50	20N	5N
188 C4S008	30	200	1	10N	20N	7	50	70	20N	5N
189 C4S009	20	200	1	10N	20N	5	70	50	20N	<5
190 C5S001	100	700	2	10N	20N	20	100	70	50	5N
191 C5S002	100	700	1.5	10N	20N	50	5000	100	20N	5N
192 C5S003	70	700	1.5	10N	20N	50	200	150	<20	5N
193 C5S004	100	500	1	10N	20N	20	1500	100	20N	<5
194 C5S005	150	1000	1.5	10N	20N	20	1000	150	20N	<5
195 C5S006	100	300	<1	10N	20N	70	2000	70	20N	5N
196 C5S007	100	1000	1	10N	20N	30	100	50	30	5N
197 C5S008	100	1000	1	10N	20N	20	150	50	30	5N
198 C6S001	50	20	1N	10N	20N	50	>5000	150	20N	5N
199 C6S002	100	200	1	10N	20N	50	3000	30	20N	5N
200 C6S003	100	150	1	10N	20N	20	1000	50	20N	5N
201 C6S004	50	200	1	10N	20N	15	1500	30	20N	<5
202 C6S005	100	500	1	10N	20N	15	20	70	20N	5N
203 C6S006	70	300	<1	10N	20N	30	500	100	20N	<5
204 C7S001	150	1000	1	10N	20N	15	200	70	20N	5N
205 C7S002	200	500	1	10N	20N	30	150	50	20N	5N
206 C7S003	200	500	1.5	10N	20N	20	200	100	20N	5N
207 C7S004	150	500	1.5	10N	20N	20	300	100	20N	5N
208 C7S005	150	700	1.5	10N	20N	15	150	100	20N	5N
209 C7S006	150	500	1	10N	20N	15	200	100	20N	5N
210 C8S001	50	200	<1	10N	20N	15	>5000	15	20N	5N
211 C8S002	50	300	1	10N	20N	5	100	10	20N	5N
212 C8S003	50	500	1	10N	20N	10	1000	15	20N	5N
213 C8S004	50	500	1	10N	20N	10	1000	15	20N	5
214 C8S005	70	700	1	10N	20N	15	1000	20	20N	5N
215 C8S006	70	500	1	10N	20N	10	200	20	20N	<5
216 C8S007	70	500	1	10N	20N	15	2000	15	70	5N
217 C8S008	100	500	1	10N	20N	20	700	50	20N	5N
218 C8S009	100	300	1	10N	20N	7	100	20	20N	5N
219 C8S010	30	1000	1	10N	20N	5	50	10	20N	5N
220 C8S011	50	500	1	10N	20N	30	2000	30	50	5N
221 C8S012	70	300	1	10N	20N	7	700	15	20N	5N
222 D1S001	50	50	<1	10N	20N	50	150	100	20N	<5
223 D1S002	50	30	<1	10N	20N	30	150	50	20N	5N
224 D1S003	100	300	1	10N	20N	30	100	20	20N	5N
225 D1S004	50	300	1	10N	20N	30	200	15	20N	5N
226 D1S005	20	300	1	10N	20N	30	100	15	20N	5N
227 D2S001	70	200	1	10N	20N	50	200	70	20N	5N
228 D2S002	50	50	<1	10N	20N	70	200	100	20N	5N
229 D2S003	50	20	<1	10N	20N	50	200	100	20N	5N
230 D2S004	50	300	1	10N	20N	50	1000	70	20N	5N
231 D2S005	50	100	<1	10N	20N	50	150	100	20N	5N
232 D2S006	50	70	<1	10N	20N	50	200	100	20N	5N
233 D2S007	50	100	<1	10N	20N	50	1500	50	20N	<5
234 D2S008	30	100	<1	10N	20N	50	200	100	20N	5N
235 D2S009	50	50	<1	10N	20N	50	200	150	20N	5N
236 D3S001	100	500	1	10N	20N	50	2000	100	20N	5N
237 D3S002	150	2000	1.5	10N	20N	30	500	150	20N	5N
238 D3S003	150	500	1	10N	20N	30	1000	100	20N	5N
239 D3S004	30	50	<1	10N	20N	20	700	100	20N	5N
240 D3S005	100	300	<1	10N	20N	50	1000	100	20N	5N

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	B	Ba	Be	Bi	Cd	Co	Cr	Cu	La	Mo
	s	s	s	s	s	s	s	s	s	s
241 D3S006	150	700	1.5	10N	20N	20	300	100	50	5N
242 D3S007	300	1000	1.5	10N	20N	20	150	100	20N	5N
243 D3S008	100	500	1	10N	20N	10	200	50	20N	5N
244 D3S009	100	500	1	10N	20N	30	1500	100	<20	5N
245 D3S010	100	500	<1	10N	20N	30	1500	100	20N	5N
246 D3S011	100	1500	1	10N	20N	20	1000	100	20N	5N
247 D4S001	50	500	<1	10N	20N	15	500	70	20N	5N
248 D4S002	100	1000	1.5	10N	20N	15	200	50	20N	5N
249 D4S003	100	1000	2	10N	20N	30	1000	100	20N	5N
250 D4S004	50	1000	2	10N	20N	15	150	100	20N	5
251 D4S005	30	300	<1	10N	20N	20	700	50	20N	<5
252 D5S001	70	500	<1	10N	20N	50	2000	100	20N	5N
253 D5S001	100	1000	1	10N	20N	20	100	30	30	5N
254 D5S002	100	1000	1.5	10N	20N	20	150	50	30	5N
255 D5S003	100	1000	1.5	10N	20N	30	150	50	30	5N
256 D5S004	100	1000	1.5	10N	20N	20	150	30	30	5N
257 D5S005	100	1000	1.5	10N	20N	30	200	70	50	5N
258 D5S006	70	300	1	10N	20N	70	5000	100	20N	5N
259 D5S007	100	500	1	10N	20N	50	1500	50	20N	5N
260 D6S001	150	700	1.5	10N	20N	10	100	50	20N	5N
261 D6S002	100	500	1	10N	20N	30	2000	70	20N	5N
262 D6S003	150	1000	1.5	10N	20N	30	1000	100	20N	5N
263 D6S004	50	200	<1	10N	20N	50	2000	150	20N	<5
264 D6S005	100	500	1	10N	20N	50	1500	100	20N	5N
265 D6S006	100	500	1	10N	20N	30	1000	70	20N	5N
266 D6S007	50	200	1	10N	20N	50	1000	100	20N	<5
267 D6S008	100	300	<1	10N	20N	50	1500	100	20N	5N
268 D6S009	500	300	<1	10N	20N	70	1000	50	20N	5N
269 D6S010	200	200	<1	10N	20N	50	2000	50	20N	5N
270 D7S001	100	500	1.5	10N	20N	20	200	70	20N	5N
271 D7S002	100	500	1	10N	20N	30	500	100	20N	5N
272 D7S003	100	500	1	10N	20N	20	200	100	<20	5N
273 D7S004	100	500	1	10N	20N	20	150	150	20N	5N
274 D7S005	100	500	1	10N	20N	30	500	70	<20	5N
275 D7S006	100	700	1.5	10N	20N	30	150	50	<20	5N
276 D7S007	100	700	1	10N	20N	20	100	50	20N	5N
277 D7S008	100	700	1	10N	20N	30	100	50	20N	5N
278 D8S001	50	500	1	10N	20N	10	200	50	20N	5N
279 D8S002	50	500	1	10N	20N	7	200	15	20N	5N
280 D8S003	100	700	1	10N	20N	15	200	70	20N	5N
281 D8S004	100	700	1	10N	20N	20	200	70	20N	5N
282 D8S005	50	300	1	10N	20N	10	100	30	20N	5N
283 D8S006	100	500	1	10N	20N	15	200	50	20N	5N
284 D8S007	100	700	1	10N	20N	15	100	50	20N	5N
285 D8S008	70	500	1	10N	20N	10	500	30	30	5N
286 D8S009	100	300	1	10N	20N	15	200	70	20N	5N
287 D8S010	100	500	1	10N	20N	20	1000	50	20N	5N

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	Nb s	Ni s	Pb s	Sb s	Sc s	Sn s	Sr s	V s	W s	Y s
1 A1S001	20N	200	<10	100N	15	10N	300	200	50N	15
2 A1S002	<20	150	15	100N	15	10N	200	200	50N	20
3 A1S003	20N	200	15	100N	15	10N	200	200	50N	20
4 A1S004	20N	150	15	100N	20	10N	150	300	50N	30
5 A1S005	20N	150	20	100N	20	10N	200	200	50N	20
6 A1S006	<20	100	10	100N	15	10N	200	150	50N	20
7 A1S007	<20	200	<10	100N	15	10N	100	150	50N	20
8 A1S008	20N	150	<10	100N	15	10N	200	150	50N	15
9 A1S009	20N	200	10N	100N	20	10N	200	200	50N	15
10 A1S010	<20	500	20	100N	15	10N	100	100	50N	15
11 A2S001	20N	2000	<10	100N	20	50	150	150	50N	20
12 A2S002	<20	100	10	100N	20	10N	200	150	50N	30
13 A2S003	<20	200	<10	100N	30	10N	200	200	50N	30
14 A2S004	20N	200	<10	100N	20	<10	200	150	50N	20
15 A2S005	20N	300	<10	100N	30	100	300	200	50N	20
16 A2S006	20N	300	10	100N	50	30	300	200	50N	30
17 A2S007	20N	100	10	100N	50	10N	300	200	50N	20
18 A2S008	<20	300	15	100N	20	20	200	200	50N	20
19 A2S009	20N	300	15	100N	30	10N	200	150	50N	20
20 A2S010	20N	150	200	100N	30	10N	300	200	50N	20
21 A2S011	20N	200	10N	100N	30	10N	200	200	50N	20
22 A2S012	20N	150	10	100N	15	10N	100	100	50N	15
23 A3S001	20N	300	<10	100N	20	30	200	150	50N	20
24 A3S002	20N	70	<10	100N	30	10N	300	200	50N	20
25 A3S003	20N	700	<10	100N	30	30	200	200	50N	30
26 A3S004	20N	500	<10	100N	30	30	200	300	50N	20
27 A3S005	20N	500	10	100N	30	50	200	200	50N	15
28 A3S006	20N	30	<10	100N	50	10N	300	500	50N	20
29 A3S007	20N	30	<10	100N	50	10N	500	500	50N	20
30 A3S008	20N	300	10N	100N	30	20	200	200	50N	20
31 A3S009	20N	30	10N	100N	50	10N	500	500	50N	20
32 A3S010	20N	30	10N	100N	30	10N	500	500	50N	15
33 A3S011	20N	50	10N	100N	50	10N	500	700	50N	20
34 A4S001	20N	150	10	100N	15	10	200	100	50N	20
35 A4S002	20N	500	<10	100N	20	30	200	150	50N	20
36 A4S003	20N	100	<10	100N	20	10N	100	100	50N	30
37 A4S004	<20	100	10	100N	20	10N	100	100	50N	20
38 A4S005	20N	100	10	100N	15	10N	100	100	50N	30
39 A4S006	<20	100	15	100N	20	10N	100	150	50N	50
40 A4S007	20N	500	<10	100N	30	20	200	150	50N	30
41 A4S008	20N	150	20	100N	20	10N	100	100	50N	50
42 A4S009	20N	100	20	100N	20	10N	100	100	50N	50
43 A4S010	20N	500	<10	100N	30	50	150	150	50N	30
44 A4S011	20N	300	<10	100N	30	30	150	100	50N	30
45 A4S012	20N	200	10	100N	30	20	100	150	50N	30
46 A4S013	20N	200	10	100N	20	30	150	100	50N	20
47 A4S014	20N	500	10	100N	20	30	150	150	50N	30
48 A5S001	20N	100	20	100N	20	10N	100	150	50N	30
49 A5S002	<20	150	<10	100N	20	10N	100	150	50N	20
50 A5S003	20N	100	20	100N	20	100	100	150	50N	20
51 A5S004	<20	100	20	100N	20	15	100	150	50N	20
52 A5S005	<20	150	15	100N	20	10N	100	150	50N	30
53 A5S006	--	--	--	--	--	--	--	--	--	--
54 A6S001	20N	500	<10	100N	20	10N	100	300	50N	20
55 A7S001	20N	150	<10	100N	15	10N	100	150	50N	15
56 A7S002	20N	100	10	100N	10	10N	100	100	50N	10
57 A7S003	20N	50	15	100N	10	10N	150	100	50N	15
58 A7S004	20N	100	<10	100N	15	10N	100	100	50N	15
59 A7S005	20N	200	10	100N	15	10N	150	100	50N	15
60 A7S006	20N	500	20	100N	20	10N	<100	100	50N	20

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	Nb s	Ni s	Pb s	Sb s	Sc s	Sn s	Sr s	V s	W s	Y s
61 A7S007	<20	150	10	100N	20	10N	<100	100	50N	15
62 A7S008	<20	100	20	100N	15	10N	150	100	50N	15
63 A8S001	20N	50	10N	100N	10	10N	200	100	<50	10
64 A8S002	20N	20	<10	100N	10	10N	200	150	50N	20
65 A8S003	20N	20	<10	100N	10	10N	200	100	<50	20
66 A8S004	20N	50	10N	100N	7	10N	200	100	50N	10
67 A8S005	20N	100	<10	100N	10	10N	200	150	<50	20
68 A8S006	20N	15	10N	100N	7	10N	100	100	50N	10
69 A8S007	20N	70	15	100N	15	10N	150	200	<50	15
70 A8S008	20N	50	10N	100N	10	10N	150	100	50N	10
71 A8S009	20N	100	10N	100N	10	10N	100	100	<50	10
72 A8S010	20N	100	10N	100N	7	10N	100	100	50N	10
73 B1S001	20N	200	10N	100N	20	10N	200	200	50N	20
74 B1S002	20N	200	10	100N	30	30	200	300	50N	30
75 B1S003	<20	500	10	100N	20	50	200	150	50N	30
76 B1S004	<20	300	10	100N	30	10	200	150	50N	30
77 B1S005	<20	300	<10	100N	20	30	200	150	50N	20
78 B1S006	<20	150	15	100N	20	10N	100	150	50N	30
79 B1S007	<20	300	10	100N	20	10	100	150	50N	30
80 B1S008	20N	200	10	100N	30	10N	100	200	50N	30
81 B1S009	<20	200	10	100N	20	10N	100	200	50N	30
82 B1S010	20N	50	10N	100N	50	10N	150	300	50N	30
83 B2S001	20N	300	10	100N	30	30	300	200	50N	20
84 B2S002	<20	100	15	100N	20	10N	200	150	50N	20
85 B2S003	<20	100	15	100N	20	<10	200	150	50N	20
86 B2S004	20N	200	<10	100N	20	10	200	150	50N	30
87 B2S005	<20	200	15	100N	20	<10	200	150	50N	20
88 B2S006	<20	200	<10	100N	20	10N	200	150	50N	20
89 B2S007	20N	200	<10	100N	20	10N	100	200	50N	20
90 B2S008	20N	100	10	100N	20	10N	200	200	50N	15
91 B2S009	20N	150	<10	100N	20	10N	200	200	50N	20
92 B3S001	20N	150	<10	100N	20	15	300	700	50N	15
93 B3S002	20N	500	10N	100N	30	10	300	700	50N	15
94 B3S003	20N	150	15	100N	20	10N	200	200	50N	30
95 B3S004	20N	100	10	100N	20	10N	200	200	50N	20
96 B3S005	20N	100	10	100N	15	15	200	200	50N	20
97 B3S006	20N	30	<10	100N	30	10N	500	500	50N	20
98 B3S007	20N	50	10	100N	20	10N	300	200	50N	20
99 B3S008	20N	50	10	100N	20	10N	300	200	50N	20
100 B3S009	20N	15	10N	100N	30	10N	300	700	50N	20
101 B3S010	<20	200	10	100N	20	10N	200	200	50N	30
102 B3S011	<20	200	10	100N	20	10N	200	150	50N	20
103 B3S012	20N	100	10	100N	15	10N	150	100	50N	15
104 B4S001	20N	500	15	100N	20	20	200	150	50N	20
105 B4S002	20N	2000	<10	100N	15	20	<100	100	50N	15
106 B4S003	20N	300	15	100N	20	20	100	150	50N	30
107 B4S004	20N	1000	<10	100N	20	50	100	150	50N	15
108 B4S005	20N	500	<10	100N	15	100	100	150	50N	20
109 B4S006	<20	700	<10	100N	20	100	100	150	50N	20
110 B4S007	20N	150	10	100N	20	10N	500	200	50N	30
111 B4S008	<20	20	<10	100N	20	10N	500	300	50N	20
112 B5S001	20N	200	10	100N	15	<10	100	150	50N	30
113 B5S002	20N	2000	10N	100N	15	50	100	100	50N	15
114 B5S003	<20	100	10	100N	20	10N	100	150	50N	30
115 B5S004	20N	700	<10	100N	30	20	100	200	50N	30
116 B5S005	20N	700	10	100N	20	50	100	200	50N	30
117 B5S006	<20	100	15	100N	20	10N	100	150	50N	30
118 B5S007	20N	150	10	100N	20	10N	100	150	50N	30
119 B6S001	20N	200	10	100N	20	10N	<100	150	50N	20
120 B6S002	20N	300	15	100N	15	10N	<100	150	50N	15

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	Nb s	Ni s	Pb s	Sb s	Sc s	Sn s	Sr s	V s	W s	Y s
121 B6S003	<20	100	10	100N	30	10N	100	150	50N	30
122 B6S004	<20	100	20	100N	30	10N	100	150	50N	30
123 B6S005	20N	100	10	100N	20	10N	100	100	50N	20
124 B6S006	20N	1000	10	100N	20	20	100	100	50N	20
125 B6S007	20N	200	10	100N	20	20	150	100	50N	20
126 B7S001	20N	300	10	100N	15	10N	100	200	50N	20
127 B7S002	20N	500	10	100N	15	10N	150	200	50N	20
128 B7S003	20N	100	<10	100N	10	10N	150	150	50N	10
129 B7S004	20N	150	10	100N	15	10N	100	200	50N	15
130 B7S005	20N	100	10N	100N	5	10N	100	100	50N	10
131 B7S006	20N	300	10	100N	15	10N	100	200	50N	15
132 B7S007	20N	300	10	100N	15	10N	100	150	50N	15
133 B7S008	20N	150	<10	100N	7	10N	200	100	50N	10
134 B7S009	20N	700	<10	100N	7	10N	100	100	50N	15
135 B7S010	20N	200	15	100N	15	10N	200	150	50N	20
136 B7S011	20N	20	10	100N	7	10N	300	100	50N	10
137 B7S012	20N	15	10N	100N	10	10N	100	100	50N	15
138 B8S001	20N	5000	10N	100N	10	10N	150	150	50N	15
139 B8S002	20N	150	10	100N	10	10N	150	150	50N	20
140 B8S003	20N	150	10	100N	15	10N	150	150	50N	20
141 B8S004	20N	700	10	100N	20	10N	100	200	50N	20
142 B8S005	20N	300	10N	100N	7	10N	<100	70	50N	10
143 B8S006	20N	200	10	100N	10	10N	100	150	50N	15
144 B8S007	20N	200	10	100N	15	10N	150	200	50N	20
145 B8S008	20N	200	<10	100N	10	10N	200	100	50N	10
146 B8S009	20N	150	<10	100N	10	10N	150	150	50N	10
147 B8S010	20N	100	15	100N	15	10N	100	150	50N	15
148 C1S001	20N	70	10N	100N	50	10N	100	500	50N	50
149 C1S002	20N	70	15	100N	30	10N	150	300	50N	50
150 C1S003	20N	70	10N	100N	30	10N	150	300	50N	30
151 C1S004	20N	50	<10	100N	20	10N	300	200	50N	20
152 C1S005	20N	70	10	100N	50	10N	150	300	50N	50
153 C1S006	20N	50	10N	100N	50	10N	100	500	50N	50
154 C1S007	20N	70	10N	100N	50	10N	100	500	50N	50
155 C1S008	<20	200	20	100N	20	10N	<100	150	50N	20
156 C1S009	20N	100	10N	100N	50	10N	200	300	50N	30
157 C1S010	20N	70	10N	100N	30	10N	150	300	50N	30
158 C1S011	20N	70	10N	100N	20	10N	100	200	50N	30
159 C2S001	20N	70	10N	100N	10	10N	100	150	50N	15
160 C2S002	<20	200	10N	100N	30	10N	200	200	50N	20
161 C2S003	20N	300	<10	100N	15	10N	100	150	50N	20
162 C2S004	20N	50	10N	100N	20	10N	150	300	50N	20
163 C2S005	20N	1500	10N	100N	20	10N	100	200	50N	15
164 C3S001	20N	70	<10	100N	20	10N	200	200	50N	20
165 C3S002	20N	150	10	100N	20	30	200	200	50N	20
166 C3S003	20N	100	<10	100N	10	10N	<100	100	50N	20
167 C3S004	20N	70	10N	100N	10	10N	100	100	50N	15
168 C3S005	20N	150	<10	100N	10	10N	100	100	50N	15
169 C3S006	20N	100	10N	100N	10	10N	<100	100	50N	10
170 C3S007	<20	200	20	100N	15	10N	100	150	50N	20
171 C3S008	20N	150	<10	100N	10	10N	<100	100	50N	10
172 C3S009	<20	200	30	100N	20	10N	100	150	50N	30
173 C3S010	20N	70	<10	100N	10	10N	<100	100	50N	15
174 C3S011	20N	50	10N	100N	7	10N	<100	100	50N	10
175 C3S012	20N	200	15	100N	15	10N	200	100	50N	20
176 C3S013	<20	300	10	100N	20	10N	<100	150	50N	20
177 C3S014	<20	100	20	100N	20	10N	150	150	50N	20
178 C3S015	<20	100	20	100N	20	10N	150	200	50N	20
179 C3S016	20N	70	10N	100N	10	10N	100	200	50N	15
180 C3S017	20N	70	10N	100N	7	10N	<100	100	50N	15

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	Nb s	Ni s	Pb s	Sb s	Sc s	Sn s	Sr s	V s	W s	Y s
181 C4S001	20N	300	15	100N	15	10N	150	200	50N	20
182 C4S002	20N	2000	10N	100N	10	10N	100N	100	50N	<10
183 C4S003	20N	>5000	10N	100N	10	10N	100N	100	50N	10
184 C4S004	20N	>5000	10N	100N	10	10N	100N	100	50N	10
185 C4S005	20N	5000	10N	100N	20	10N	<100	200	50N	10
186 C4S006	20N	30	10N	100N	30	10N	200	1500	50N	15
187 C4S007	20N	50	10N	100N	15	10N	500	300	50N	15
188 C4S008	20N	30	10N	100N	15	10N	300	200	50N	15
189 C4S009	20N	50	<10	100N	10	10N	200	100	50N	10
190 C5S001	<20	100	<10	100N	20	10N	150	100	50N	30
191 C5S002	20N	300	10	100N	20	70	150	150	50N	30
192 C5S003	20N	200	<10	100N	20	<10	150	150	50N	20
193 C5S004	20N	1000	10N	100N	15	10N	<100	150	50N	15
194 C5S005	20N	200	20	100N	20	10	200	200	50N	20
195 C5S006	20N	5000	<10	100N	15	10N	100	150	50N	10
196 C5S007	<20	70	10	100N	15	10N	100	150	50N	20
197 C5S008	20N	70	10	100N	15	10N	100	200	50N	20
198 C6S001	20N	>5000	10N	100N	15	10N	100	150	50N	<10
199 C6S002	20N	5000	10N	100N	10	10N	100	100	50N	15
200 C6S003	20N	3000	10	100N	10	10N	<100	100	50N	15
201 C6S004	20N	2000	<10	100N	15	10N	100	150	50N	15
202 C6S005	20N	70	20	100N	20	10N	300	200	50N	20
203 C6S006	20N	300	10N	100N	30	10N	200	300	50N	15
204 C7S001	20N	200	15	100N	20	30	100	200	50N	20
205 C7S002	20N	100	10N	100N	20	10N	<100	200	50N	20
206 C7S003	20N	200	15	100N	15	10N	<100	200	50N	20
207 C7S004	20N	200	20	100N	15	10N	<100	200	50N	20
208 C7S005	<20	100	20	100N	15	10N	<100	150	50N	20
209 C7S006	20N	150	20	100N	15	10N	<100	150	50N	20
210 C8S001	20N	150	10N	100N	20	10N	200	200	50N	30
211 C8S002	20N	20	10N	100N	7	10N	200	50	50N	<10
212 C8S003	<20	50	<10	100N	10	10N	200	100	50N	15
213 C8S004	20N	50	10N	100N	10	10N	200	100	50N	10
214 C8S005	20N	100	10N	100N	10	10N	150	150	50N	15
215 C8S006	20N	70	10N	100N	10	10N	100	150	50N	15
216 C8S007	20N	100	10N	100N	15	10N	150	150	50N	15
217 C8S008	<20	100	15	100N	15	10N	100	100	50N	20
218 C8S009	20N	100	10N	100N	10	10N	150	100	50N	10
219 C8S010	20N	15	10	100N	7	10N	300	70	50N	10
220 C8S011	20N	500	<10	100N	15	10N	200	100	50N	20
221 C8S012	20N	150	10N	100N	7	10N	100	100	50N	15
222 D1S001	20N	100	10N	100N	50	10N	150	300	50N	70
223 D1S002	20N	100	10N	100N	50	10N	<100	300	50N	50
224 D1S003	20N	50	10	100N	20	10N	300	200	50N	30
225 D1S004	20N	100	10	100N	15	10N	500	150	50N	20
226 D1S005	20N	70	10	100N	20	10N	500	150	50N	20
227 D2S001	20N	100	10N	100N	30	10N	200	300	50N	50
228 D2S002	20N	100	10N	100N	50	10N	200	300	50N	50
229 D2S003	20N	70	10N	100N	50	10N	200	300	50N	50
230 D2S004	20N	300	10N	100N	30	20	200	200	50N	50
231 D2S005	20N	100	10N	100N	50	10N	200	200	50N	50
232 D2S006	20N	100	10N	100N	50	10N	200	300	50N	70
233 D2S007	20N	300	10N	100N	30	30	200	200	50N	30
234 D2S008	20N	70	10N	100N	50	10N	200	500	50N	50
235 D2S009	20N	100	<10	100N	30	10N	200	200	50N	30
236 D3S001	20N	500	10	100N	15	10N	100	200	50N	20
237 D3S002	<20	500	15	100N	20	10N	100	200	50N	20
238 D3S003	20N	300	15	100N	20	10N	100	150	50N	20
239 D3S004	20N	300	10N	100N	20	10N	100	200	50N	15
240 D3S005	20N	2000	10	100N	15	10N	<100	150	50N	15

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	Nb s	Ni s	Pb s	Sb s	Sc s	Sn s	Sr s	V s	W s	Y s
241 D3S006	20	200	20	100N	15	10N	100	150	50N	20
242 D3S007	<20	150	30	100N	15	10N	<100	100	50N	20
243 D3S008	20N	100	<10	100N	10	10N	100	100	50N	15
244 D3S009	20N	500	10	100N	20	10N	100	150	50N	20
245 D3S010	20N	1000	15	100N	20	10N	100	200	50N	20
246 D3S011	<20	500	10	100N	20	10N	150	200	50N	30
247 D4S001	20N	100	10N	100N	20	10N	200	700	50N	20
248 D4S002	20N	150	10	100N	10	10N	200	100	50N	15
249 D4S003	20N	300	10	100N	20	10N	200	150	50N	20
250 D4S004	20N	50	15	100N	20	10N	300	200	50N	20
251 D4S005	20N	150	<10	100N	30	10N	150	200	50N	10
252 D5S001	20N	500	10N	100N	20	10N	150	200	50N	20
253 D5S001	<20	50	<10	100N	10	10N	150	100	50N	30
254 D5S002	<20	70	10	100N	10	10N	200	100	50N	20
255 D5S003	<20	70	<10	100N	10	10N	100	100	50N	20
256 D5S004	20N	100	10	100N	10	10N	150	100	50N	20
257 D5S005	20N	200	15	100N	10	10N	150	150	50N	30
258 D5S006	20N	1000	10N	100N	20	10N	100	150	50N	30
259 D5S007	20N	1500	10	100N	20	10N	100	150	50N	20
260 D6S001	<20	50	15	100N	15	10N	100	150	50N	20
261 D6S002	20N	500	10	100N	20	10N	100	150	50N	50
262 D6S003	20N	200	30	100N	20	10	200	200	50N	20
263 D6S004	20N	500	<10	100N	30	10N	200	300	50N	15
264 D6S005	20N	500	10	100N	30	10N	100	200	50N	20
265 D6S006	20N	500	15	100N	15	10N	100	150	50N	20
266 D6S007	20N	500	10N	100N	20	10N	100	200	50N	20
267 D6S008	20N	2000	10N	100N	15	10N	<100	150	50N	10
268 D6S009	20N	3000	10N	100N	15	10N	<100	100	50N	15
269 D6S010	20N	2000	10N	100N	20	10N	<100	150	50N	15
270 D7S001	20N	100	<10	100N	20	10N	<100	200	50N	20
271 D7S002	20N	150	10	100N	20	10N	100	200	50N	20
272 D7S003	20N	150	10	100N	20	10N	<100	200	50N	30
273 D7S004	20N	100	20	100N	15	10N	100	200	50N	20
274 D7S005	20N	70	10	100N	20	10N	<100	300	50N	20
275 D7S006	20N	150	50	100N	15	10N	150	200	50N	20
276 D7S007	20N	100	10	100N	15	10N	100	200	50N	15
277 D7S008	20N	70	10	100N	20	10N	<100	200	50N	20
278 D8S001	20N	70	<10	100N	15	10N	<100	200	50N	15
279 D8S002	20N	70	10N	100N	10	10N	100	100	50N	10
280 D8S003	20N	50	10	100N	20	10N	100	150	50N	15
281 D8S004	20N	100	<10	100N	20	10N	<100	150	50N	20
282 D8S005	20N	150	10N	100N	10	10N	100	100	50N	10
283 D8S006	20N	100	10	100N	15	10N	100	200	50N	20
284 D8S007	20N	150	<10	100N	10	10N	100	150	50N	15
285 D8S008	20N	70	10	100N	10	10N	100	150	50N	15
286 D8S009	20N	50	15	100N	10	10N	100	150	50N	20
287 D8S010	20N	200	<10	100N	10	10N	100	200	50N	20

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	Zn s	Zr s	Th s	Au aa	Hg i	As aa	Sb aa	Zn aa
1 A1S001	200N	100	100N	0.05N	0.02	10N	2N	40
2 A1S002	200N	150	100N	0.05N	0.02	10N	2N	90
3 A1S003	200N	100	100N	0.05N	0.02	10N	2N	90
4 A1S004	200N	100	100N	0.05N	0.08	<10	2N	70
5 A1S005	200N	100	100N	0.05N	0.04	<10	2N	75
6 A1S006	200N	100	100N	0.05N	0.08	10N	2N	50
7 A1S007	200N	100	100N	26	0.16	10	2N	70
8 A1S008	200N	100	100N	0.05N	0.22	10N	2N	70
9 A1S009	200N	100	100N	2.4	0.08	10N	2N	60
10 A1S010	200N	100	100N	0.05N	0.04	10N	2N	70
11 A2S001	<200	50	100N	0.05	0.02	10N	2N	50
12 A2S002	<200	100	100N	0.10N	0.02	10N	2N	65
13 A2S003	<200	70	100N	0.10N	--	10N	2N	55
14 A2S004	<200	100	100N	0.10N	0.08	10N	2N	40
15 A2S005	200	70	100N	0.10N	0.02	10N	2N	40
16 A2S006	200	100	100N	0.10N	0.02	10N	2N	55
17 A2S007	<200	100	100N	0.15	0.18	10N	2N	50
18 A2S008	<200	100	100N	<0.10	0.08	<10	2N	80
19 A2S009	200N	100	100N	0.05N	0.06	10N	2N	55
20 A2S010	200N	100	100N	<0.05	0.02	10N	2N	90
21 A2S011	200N	100	100N	0.05N	0.02	10N	2N	45
22 A2S012	200N	150	100N	<0.05	0.06	10N	2	65
23 A3S001	<200	100	100N	0.10N	0.16	10N	2N	75
24 A3S002	<200	50	100N	0.10N	0.04	10N	2N	80
25 A3S003	<200	100	100N	0.10N	0.06	10N	2N	90
26 A3S004	<200	70	100N	0.10N	0.02	10N	2N	70
27 A3S005	<200	100	100N	0.10N	0.02	10N	2N	50
28 A3S006	<200	150	100N	0.10N	0.02	10N	2N	40
29 A3S007	200	100	100N	0.10N	--	10N	2N	50
30 A3S008	<200	50	100N	0.10N	0.02	10N	2N	60
31 A3S009	200	50	100N	0.10N	--	10N	2N	40
32 A3S010	<200	100	100N	0.10N	0.02	10N	2N	45
33 A3S011	<200	50	100N	0.10N	--	10N	2N	25
34 A4S001	<200	100	100N	0.10N	0.08	10N	2N	60
35 A4S002	200	70	100N	0.10	0.14	10N	2N	55
36 A4S003	<200	100	100N	0.10N	0.08	10N	2N	70
37 A4S004	<200	100	100N	0.10N	0.20	10N	2N	70
38 A4S005	<200	100	100N	0.10N	0.04	10N	2N	65
39 A4S006	<200	100	100N	0.10N	0.10	10N	2N	90
40 A4S007	<200	100	100N	<0.10	0.08	10N	2N	60
41 A4S008	<200	150	100N	<0.10	0.16	10N	2N	100
42 A4S009	<200	100	100N	0.10N	0.16	10	2N	90
43 A4S010	<200	100	100N	0.10N	0.04	10N	2N	65
44 A4S011	<200	50	100N	0.05	0.06	10N	2N	55
45 A4S012	<200	100	100N	0.10N	0.04	10N	2N	65
46 A4S013	<200	100	100N	0.10N	0.04	10N	2N	65
47 A4S014	<200	100	100N	0.10N	0.04	10N	2N	55
48 A5S001	<200	100	100N	0.10N	0.06	10N	2N	90
49 A5S002	<200	100	100N	<0.10	0.06	10N	2N	90
50 A5S003	<200	150	100N	0.10N	0.08	10N	2N	95
51 A5S004	<200	70	100N	0.10N	0.06	10N	2N	95
52 A5S005	<200	100	100N	0.05N	0.06	10	2N	80
53 A5S006	--	--	--	--	--	--	--	--
54 A6S001	200N	100	100N	0.05N	0.04	10N	4	75
55 A7S001	200N	100	100N	0.05N	0.08	<10	2N	55
56 A7S002	200N	200	100N	0.05N	0.18	<10	2N	45
57 A7S003	200N	100	100N	<0.05	0.06	<10	2N	65
58 A7S004	200N	150	100N	<0.05	0.08	<10	2N	55
59 A7S005	200N	100	100N	<0.05	0.12	<10	2N	50
60 A7S006	200N	150	100N	<0.05	0.10	10	2N	85

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	Zn s	Zr s	Th s	Au aa	Hg i	As aa	Sb aa	Zn aa
61 A7S007	200N	200	100N	0.05N	0.10	<10	2N	75
62 A7S008	200N	150	100N	<0.05	0.04	<10	2N	60
63 A8S001	200N	100	100N	0.05N	0.02	10N	2N	25
64 A8S002	200N	100	100N	0.05N	0.10	10	2N	110
65 A8S003	200N	150	100N	0.05N	0.08	<10	2N	80
66 A8S004	200N	100	100N	0.05N	0.04	<10	2N	60
67 A8S005	200N	150	100N	0.05N	0.04	<10	2N	55
68 A8S006	200N	50	100N	0.05N	0.16	10	2N	160
69 A8S007	200N	100	100N	0.05N	0.12	10	2N	130
70 A8S008	200N	70	100N	0.05N	0.04	10N	2N	40
71 A8S009	200N	200	100N	0.05N	0.02	10N	2N	40
72 A8S010	200N	100	100N	0.05N	0.02	10N	2N	45
73 B1S001	<200	50	100N	0.10N	0.06	10N	2N	60
74 B1S002	200	70	100N	0.10N	0.02	10N	2N	60
75 B1S003	200	100	100N	0.10N	0.06	10N	2N	55
76 B1S004	<200	100	100N	0.10N	0.04	10N	2N	60
77 B1S005	<200	100	100N	0.10N	0.02	10N	2N	60
78 B1S006	<200	100	100N	0.20	0.06	10	2N	160
79 B1S007	<200	100	100N	0.05N	0.02	10N	2N	65
80 B1S008	<200	150	100N	0.10	0.12	10	2N	100
81 B1S009	200N	150	100N	0.05N	0.12	<10	2N	120
82 B1S010	<200	100	100N	0.05N	0.04	10N	2N	35
83 B2S001	<200	100	100N	0.10N	0.02	10N	2N	55
84 B2S002	<200	150	100N	0.10N	0.02	10N	2N	45
85 B2S003	<200	100	100N	0.10N	0.04	10N	2N	65
86 B2S004	<200	100	100N	0.10N	0.02	10N	2N	50
87 B2S005	<200	100	100N	0.10N	0.04	10N	2N	60
88 B2S006	<200	100	100N	0.10N	0.02	10N	2N	85
89 B2S007	200N	100	100N	<0.05	0.04	<10	2N	80
90 B2S008	200N	70	100N	0.05N	0.30	10N	2N	65
91 B2S009	200N	70	100N	0.05N	0.06	10N	2N	45
92 B3S001	200	100	100N	0.10N	--	10N	2N	45
93 B3S002	<200	50	100N	0.10N	0.02	10N	2N	35
94 B3S003	<200	100	100N	0.10N	0.06	10N	2N	65
95 B3S004	<200	100	100N	0.10N	0.02	10N	2N	50
96 B3S005	<200	50	100N	0.05	0.10	10N	2N	55
97 B3S006	200	100	100N	0.10N	--	10N	2N	30
98 B3S007	200	150	100N	0.10N	0.02	10N	2N	80
99 B3S008	<200	200	100N	0.10N	0.02	10N	2N	55
100 B3S009	200N	200	100N	0.05N	0.02	10N	2N	60
101 B3S010	200N	100	100N	0.05N	0.06	<10	2N	90
102 B3S011	200N	100	100N	0.25	0.16	10N	2N	95
103 B3S012	200N	50	100N	0.05N	0.22	10N	2N	85
104 B4S001	<200	50	100N	0.10N	0.02	10N	2N	70
105 B4S002	<200	100	100N	0.10N	0.06	10N	2N	40
106 B4S003	<200	100	100N	0.10N	0.04	10N	2N	80
107 B4S004	<200	50	100N	0.10N	0.02	10N	2N	65
108 B4S005	<200	50	100N	0.10N	0.04	10N	2N	100
109 B4S006	<200	70	100N	<0.10	0.04	10N	2N	95
110 B4S007	<200	200	100N	0.10N	--	10N	2N	55
111 B4S008	<200	200	100N	<0.10	--	10N	2N	70
112 B5S001	<200	100	100N	0.10N	0.04	10N	2N	100
113 B5S002	<200	50	100N	0.10N	0.02	10N	2N	55
114 B5S003	<200	200	100N	0.10N	0.14	<10	2N	110
115 B5S004	<200	50	100N	0.10N	0.08	10N	2N	60
116 B5S005	<200	50	100N	0.10N	0.08	10N	2N	80
117 B5S006	<200	100	100N	<0.10	0.08	10N	2N	100
118 B5S007	<200	100	100N	0.10N	0.14	10N	2N	95
119 B6S001	<200	100	100N	<0.05	0.12	<10	2N	110
120 B6S002	200N	100	100N	<0.05	0.08	<10	2N	85

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	Zn s	Zr s	Th s	Au aa	Hg i	As aa	Sb aa	Zn aa
121 B6S003	<200	100	100N	<0.10	0.06	10N	2N	80
122 B6S004	<200	100	100N	0.10N	0.08	10N	2N	110
123 B6S005	<200	100	100N	0.10N	0.12	10N	2N	90
124 B6S006	<200	100	100N	0.10	0.16	10N	2N	100
125 B6S007	<200	100	100N	0.10N	0.04	10N	2N	65
126 B7S001	200N	150	100N	<0.05	0.06	<10	2N	70
127 B7S002	200N	200	100N	0.05N	0.08	10N	2N	80
128 B7S003	200N	100	100N	0.05N	0.04	<10	2N	75
129 B7S004	200N	100	100N	0.05N	0.06	10	2N	70
130 B7S005	200N	150	100N	0.05N	0.06	<10	2N	65
131 B7S006	200N	150	100N	0.05N	0.10	<10	2N	85
132 B7S007	200N	300	100N	0.05N	0.06	<10	2N	70
133 B7S008	200N	50	100N	0.05N	0.14	10N	2N	50
134 B7S009	200N	50	100N	0.05	0.08	<10	2N	60
135 B7S010	200N	100	100N	0.05N	0.06	<10	2N	65
136 B7S011	200N	200	100N	0.05N	0.04	10N	2N	40
137 B7S012	200N	50	100N	0.05N	0.04	<10	2N	60
138 B8S001	200N	50	100N	0.05N	0.06	10N	2N	45
139 B8S002	200N	100	100N	0.05N	0.04	10N	2N	55
140 B8S003	200N	200	100N	0.05N	0.04	<10	2N	55
141 B8S004	200N	100	100N	0.05N	0.06	10N	2N	65
142 B8S005	200N	50	100N	0.05	0.04	<10	2N	65
143 B8S006	200N	100	100N	0.05N	0.02	<10	2N	50
144 B8S007	200N	100	100N	0.05N	0.06	<10	2N	70
145 B8S008	200N	200	100N	0.05N	0.02	10N	2N	30
146 B8S009	200N	500	100N	0.05N	0.04	10N	2N	40
147 B8S010	200N	100	100N	<0.05	0.08	<10	2N	100
148 C1S001	200N	50	100N	<0.05	0.02	10N	2N	35
149 C1S002	200N	50	100N	0.46	0.16	10N	2N	45
150 C1S003	200N	70	100N	0.10	0.02	10N	2N	20
151 C1S004	200N	100	100N	0.05N	0.02	10N	2N	35
152 C1S005	200N	100	100N	1.60	0.20	<10	2N	25
153 C1S006	200N	100	100N	0.05N	0.02	10N	2N	20
154 C1S007	200N	100	100N	0.05N	0.12	10N	2N	30
155 C1S008	200N	100	100N	<0.05	0.12	20	2N	120
156 C1S009	200N	70	100N	0.30	0.14	10N	2N	80
157 C1S010	200N	70	100N	1.0	0.16	10N	2N	35
158 C1S011	200N	70	100N	0.05N	0.04	<10	2N	60
159 C2S001	<200	70	100N	<0.05	0.06	10	2N	100
160 C2S002	200N	100	100N	0.05N	0.06	10N	2N	45
161 C2S003	200N	100	100N	0.05N	0.02	10	2N	60
162 C2S004	200N	100	100N	0.05N	0.06	10N	2N	100
163 C2S005	<200	20	100N	0.20	0.04	10N	2N	65
164 C3S001	200N	100	100N	0.05	0.06	10N	2N	50
165 C3S002	200N	100	100N	<0.05	0.06	10N	2N	90
166 C3S003	200N	70	100N	0.10	0.26	<10	2N	70
167 C3S004	200N	100	100N	0.05N	0.06	<10	2N	70
168 C3S005	200N	100	100N	0.05N	0.04	10N	2N	90
169 C3S006	200N	100	100N	0.05N	0.04	10N	2N	90
170 C3S007	200N	100	100N	<0.05	0.06	10N	2N	90
171 C3S008	200N	50	100N	0.05N	0.04	10N	2N	120
172 C3S009	200N	100	100N	0.05N	0.04	10N	2N	90
173 C3S010	200N	50	100N	0.05N	0.08	10N	2N	85
174 C3S011	200N	70	100N	0.05	0.52	<10	2N	45
175 C3S012	200N	100	100N	<0.05	0.10	10N	2N	75
176 C3S013	200N	100	100N	0.05N	0.04	10N	2N	75
177 C3S014	200N	150	100N	0.05	0.06	10N	2N	80
178 C3S015	200N	100	100N	0.05N	0.02	<10	2N	80
179 C3S016	200N	50	100N	0.10N	0.04	<10	2N	70
180 C3S017	200N	50	100N	0.05	0.10	10	2N	70

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	Zn s	Zr s	Th s	Au aa	Hg i	As aa	Sb aa	Zn aa
181 C4S001	<200	150	100N	0.05N	0.18	<10	2N	160
182 C4S002	200N	20	100N	0.05	0.04	10N	2N	50
183 C4S003	200N	50	100N	0.05N	0.04	10N	2N	45
184 C4S004	200N	50	100N	0.05N	0.02	10N	2N	55
185 C4S005	200N	100	100N	0.05	0.02	10N	2N	35
186 C4S006	<200	100	100N	<0.05	0.02	10N	2N	60
187 C4S007	200N	150	100N	0.05N	0.02	10N	2N	50
188 C4S008	200N	100	100N	0.70	0.10	10N	2N	45
189 C4S009	200N	30	100N	0.05N	0.12	<10	2N	70
190 C5S001	<200	100	100N	0.10N	0.08	10N	2N	95
191 C5S002	<200	100	100N	0.10N	0.06	10N	2N	75
192 C5S003	<200	100	100N	0.10N	0.04	10N	2N	95
193 C5S004	200N	100	100N	0.05N	0.06	<10	2N	80
194 C5S005	200	100	100N	0.10N	0.10	<10	2N	110
195 C5S006	200N	30	100N	0.05N	0.06	10N	2N	85
196 C5S007	200N	200	100N	0.05N	0.22	10	2N	75
197 C5S008	<200	200	100N	0.05N	0.18	10	2N	90
198 C6S001	200N	10N	100N	0.05N	0.08	10N	2N	40
199 C6S002	200N	50	100N	0.05N	0.06	10N	2N	55
200 C6S003	200N	50	100N	0.05N	0.10	<10	2N	75
201 C6S004	200N	50	100N	<0.05	0.08	10N	2N	55
202 C6S005	200	200	100N	0.05N	1.8	10N	2N	110
203 C6S006	200	100	100N	<0.05	0.08	10N	2N	75
204 C7S001	<200	100	100N	0.05N	0.10	10	2N	120
205 C7S002	<200	200	100N	0.05N	0.18	<10	2N	120
206 C7S003	200	100	100N	<0.05	0.10	10N	2N	110
207 C7S004	<200	100	100N	0.05	0.10	10N	2N	95
208 C7S005	200N	150	100N	0.05N	0.08	<10	2N	110
209 C7S006	200N	150	100N	<0.05	0.22	<10	2N	90
210 C8S001	200N	700	100N	0.05N	0.02	10N	2N	20
211 C8S002	200N	50	100N	0.05N	0.04	<10	2N	55
212 C8S003	200N	200	100N	0.05N	0.06	10N	2N	60
213 C8S004	200N	200	100N	0.05N	0.04	10N	2N	40
214 C8S005	200N	150	100N	0.05N	0.02	10N	2N	25
215 C8S006	200N	150	100N	<0.05	0.04	10N	2N	45
216 C8S007	200N	200	100N	0.05N	0.08	10N	2N	50
217 C8S008	200N	150	100N	0.05N	0.02	10N	2N	30
218 C8S009	200N	150	100N	0.05N	0.08	<10	2N	75
219 C8S010	200N	200	100N	0.05N	0.04	10N	2N	50
220 C8S011	200N	150	100N	0.05N	0.16	10N	2N	40
221 C8S012	200N	200	100N	0.05N	0.02	10N	2N	45
222 D1S001	<200	100	100N	0.10N	0.02	10N	2N	40
223 D1S002	<200	100	100N	<0.10	0.02	10N	2N	15
224 D1S003	<200	100	100N	<0.10	0.02	10N	2N	30
225 D1S004	200N	100	100N	<0.10	0.02	10N	2N	25
226 D1S005	200N	100	100N	<0.10	--	10N	2N	35
227 D2S001	<200	100	100N	0.10N	0.02	10N	2N	50
228 D2S002	<200	50	100N	0.05	0.06	10N	2N	35
229 D2S003	<200	50	100N	<0.10	0.02	10N	2N	45
230 D2S004	<200	100	100N	0.10N	0.02	10N	2N	40
231 D2S005	<200	50	100N	0.10N	--	10N	2N	30
232 D2S006	<200	50	100N	0.10N	0.02	10N	2N	50
233 D2S007	<200	50	100N	0.10N	0.02	10N	2N	25
234 D2S008	<200	70	100N	<0.10	--	10N	2N	55
235 D2S009	<200	70	100N	0.10N	0.04	10N	2N	150
236 D3S001	200N	70	100N	0.05N	0.06	10	2N	75
237 D3S002	200N	150	100N	<0.05	0.10	<10	2N	95
238 D3S003	200N	100	100N	0.05N	0.04	10N	2N	80
239 D3S004	200N	50	100N	0.15	0.02	10N	2N	55
240 D3S005	200N	70	100N	<0.05	0.08	10N	2N	70

Table 4. Results of analyses of stream-sediment samples - continued.

SAMPLE #	Zn s	Zr s	Th s	Au aa	Hg i	As aa	Sb aa	Zn aa
241 D3S006	200N	150	100N	0.05N	0.06	10N	2N	90
242 D3S007	200N	150	100N	0.05	0.08	10N	2	95
243 D3S008	200N	50	100N	0.55	0.08	<10	2N	90
244 D3S009	200N	100	100N	0.05N	0.04	<10	2N	85
245 D3S010	200N	100	100N	0.05	0.04	<10	2N	80
246 D3S011	200N	100	100N	0.10	0.16	10	2N	150
247 D4S001	200N	30	100N	1.0	0.36	10	2	55
248 D4S002	200N	70	100N	0.05N	0.06	<10	2N	85
249 D4S003	<200	100	100N	0.05	0.06	20	2N	100
250 D4S004	200N	700	100N	<0.05	0.02	10	2N	80
251 D4S005	200N	50	100N	0.05	0.04	10	2N	30
252 D5S001	200N	70	100N	0.05N	0.06	10N	2N	80
253 D5S001	<200	150	100N	<0.10	0.10	10N	2N	65
254 D5S002	<200	150	100N	0.10N	0.08	10N	2N	65
255 D5S003	<200	150	100N	0.10N	0.12	<10	2N	80
256 D5S004	<200	150	100N	0.10N	0.16	10N	2N	75
257 D5S005	<200	150	100N	0.10N	0.14	10N	2N	80
258 D5S006	<200	50	100N	0.10N	0.04	10N	2N	70
259 D5S007	<200	70	100N	0.10N	0.08	10N	2N	60
260 D6S001	200N	100	100N	0.05N	0.14	<10	2N	60
261 D6S002	200N	100	100N	0.05N	0.14	10N	2N	95
262 D6S003	200N	150	100N	0.05	0.18	<10	2N	100
263 D6S004	200N	50	100N	0.05N	0.52	10N	2N	65
264 D6S005	<200	100	100N	0.05N	0.20	<10	2N	90
265 D6S006	200N	50	100N	<0.05	0.18	<10	2N	80
266 D6S007	200N	50	100N	0.05N	0.06	10N	2N	70
267 D6S008	200N	30	100N	0.25	0.02	10N	2N	60
268 D6S009	200N	50	100N	0.05N	0.16	10N	2N	50
269 D6S010	200N	50	100N	0.05N	1.7	10N	2N	55
270 D7S001	200N	200	100N	0.05N	0.08	<10	2N	95
271 D7S002	200N	100	100N	0.05N	0.08	<10	2N	90
272 D7S003	200N	100	100N	0.05N	0.08	<10	2N	120
273 D7S004	200N	150	100N	0.05N	0.06	10	2N	100
274 D7S005	200N	100	100N	0.05N	0.06	<10	2N	100
275 D7S006	200N	100	100N	0.05N	0.10	10	2N	95
276 D7S007	200N	200	100N	0.05N	0.06	<10	2N	75
277 D7S008	200N	200	100N	0.05N	0.06	10	2N	90
278 D8S001	200N	100	100N	0.05N	0.04	10N	2N	55
279 D8S002	200N	150	100N	0.05	0.02	10N	2N	35
280 D8S003	200N	50	100N	0.05N	0.08	<10	2N	100
281 D8S004	200N	50	100N	0.05N	0.08	<10	2N	100
282 D8S005	200N	70	100N	0.05N	0.04	10N	2N	55
283 D8S006	200N	100	100N	0.05N	0.08	<10	2N	100
284 D8S007	200N	500	100N	0.05N	0.10	<10	2N	70
285 D8S008	200N	300	100N	0.05N	0.04	10N	2N	45
286 D8S009	200N	50	100N	0.05N	0.08	10N	2N	85
287 D8S010	200N	100	100N	0.05N	0.06	<10	2N	80

Table 5. Results of analyses of weakly-magnetic panned-concentrate samples from the Hayfork 1:100,000 quadrangle, Trinity and Humboldt Counties, California.

	SAMPLE #	LATITUDE	LONGITUDE	Fe s	Mg s	Ca s	Ti s	Mn s	Ag s	As s	Au s
1	A2P002C2	403723	1230951	7	3	5	>2	2000	1N	500N	20N
2	A2P003C2	403560	1230909	10	7	5	>2	2000	1N	500N	20N
3	A2P004C2	403328	1230807	15	5	3	>2	2000	1N	500N	20N
4	A2P006C2	403255	1231212	15	3	5	>2	10000	1N	500N	20N
5	A3P011C2	403617	1231657	15	10	7	>2	10000	1N	500N	20N
6	A4P007C2	403414	1232632	7	7	5	2	1500	1N	500N	20N
7	A4P008C2	403238	1232723	50	2	0.3	1	500	7	700	20N
8	A4P009C2	403317	1232729	10	3	0.3	>2	700	1N	500N	20N
9	A4P012C2	403157	1232302	10	10	7	>2	2000	1N	500N	20N
10	A6P001C2	403545	1234308	7	3	0.5	>2	1000	1N	500N	20N
11	A7P001C2	403648	1235103	10	5	2	>2	1500	1N	500N	20N
12	A7P002C2	403301	1235149	7	3	3	>2	1500	1N	500N	20N
13	A7P005C2	403437	1234603	10	7	3	>2	1500	1N	500N	20N
14	A7P006C2	403524	1234531	10	10	0.5	1.5	1000	1N	500N	20N
15	A8P001C2	403005	1235823	10	5	5	>2	2000	1N	500N	20N
16	A8P005C2	403411	1235610	15	5	5	>2	2000	1N	500N	20N
17	A8P008C2	403607	1235834	7	3	5	>2	1500	1N	500N	20N
18	A8P010C2	403238	1235449	7	3	5	>2	1500	1N	500N	20N
19	B1P001C2	404304	1230308	10	5	7	>2	2000	1N	500N	20N
20	B1P002C2	403955	1230203	15	5	2	>2	2000	1N	500N	20N
21	B1P003C2	403957	1230030	20	3	5	>2	7000	1N	500N	20N
22	B1P005C2	404123	1230342	20	5	3	1.5	2000	1N	500N	20N
23	B1P007C2	404053	1230525	10	5	7	>2	2000	1N	500N	20N
24	B2P001C2	404048	1230743	7	5	2	2	1000	1N	500N	20N
25	B2P004C2	404002	1230849	15	5	3	>2	1500	1N	500N	20N
26	B2P005C2	403915	1230926	15	5	7	>2	7000	1N	500N	20N
27	B3P003C2	404414	1231507	10	5	7	>2	2000	1N	500N	20N
28	B3P004C2	404206	1231829	7	3	5	>2	2000	1N	500N	20N
29	B3P007C2	404212	1232133	20	3	5	>2	>10000	1N	500N	20N
30	B4P001C2	403943	1232934	20	5	5	>2	10000	1N	500N	20N
31	B4P004C2	403856	1232606	15	7	7	>2	2000	1N	500N	20N
32	B4P006C2	404126	1232802	15	5	5	>2	5000	1N	500N	20N
33	B4P007C2	404155	1232626	20	1.5	0.3	>2	10000	1N	500N	20N
34	B4P008C2	404200	1232536	30	2	1	>2	>10000	1N	500N	20N
35	B5P002C2	404308	1233115	20	7	5	1.5	1500	1N	500N	20N
36	B5P007C2	404224	1233501	7	3	1.5	2	1000	1N	500N	20N
37	B6P002C2	404259	1234237	10	5	1	2	1000	1N	500N	20N
38	B6P003C2	404330	1233828	15	3	1	>2	5000	1N	500N	20N
39	B7P001C2	404347	1235113	15	7	3	>2	1500	1N	500N	20N
40	B7P002C2	404304	1235051	10	5	1.5	2	1500	1N	500N	20N
41	B7P003C2	404215	1235040	7	3	1	1.5	1000	1N	500N	20N
42	B7P004C2	403946	1234832	7	5	0.7	1	1000	1N	500N	20N
43	B7P005C2	403943	1234738	7	5	1	0.7	1000	1N	500N	20N
44	B7P006C2	403926	1234657	7	3	1	0.5	700	1N	500N	20N
45	B7P007C2	403923	1234524	10	10	2	2	1500	1N	500N	20N
46	B7P008C2	404120	1235142	7	5	2	1.5	1500	1N	500N	20N
47	B7P009C2	404011	1235140	7	10	3	2	1500	1N	500N	20N
48	B8P008C2	404024	1235720	10	5	5	>2	2000	1N	500N	20N
49	C1P001C2	404816	1230334	20	7	5	>2	3000	1N	500N	20N
50	C1P002C2	405015	1230300	--	--	--	--	--	--	--	--
51	C1P003C2	405112	1230029	15	7	7	>2	2000	1N	500N	20N
52	C1P005C2	405160	1230205	15	7	7	>2	2000	1N	500N	20N
53	C1P006C2	404916	1230329	20	7	5	>2	5000	1N	500N	20N
54	C1P008C2	404503	1230509	10	5	2	>2	3000	1N	500N	20N
55	C2P002C2	404531	1230901	15	7	5	>2	2000	1N	500N	20N
56	C3P001C2	405146	1231642	20	10	7	2	2000	1N	500N	20N
57	C3P002C2	405143	1231624	15	10	7	1.5	2000	1N	500N	20N
58	C3P003C2	405026	1231646	15	7	5	>2	3000	1N	500N	20N
59	C3P006C2	404924	1231745	10	7	3	>2	5000	1N	500N	20N
60	C3P011C2	404746	1232149	15	10	5	>2	10000	1N	500N	20N

Table 5. Results of analyses of weakly-magnetic panned-concentrate samples - continued

	SAMPLE #	LATITUDE	LONGITUDE	Fe s	Mg s	Ca s	Ti s	Mn s	Ag s	As s	Au s
61	C3P012C2	404741	1232119	10	7	5	2	3000	1N	500N	20N
62	C3P016C2	404652	1231831	20	10	7	>2	5000	1N	500N	20N
63	C3P017C2	404559	1231755	10	5	5	>2	3000	1N	500N	20N
64	C4P002C2	404940	1232914	10	10	5	1	2000	1N	500N	20N
65	C4P003C2	404846	1232842	10	5	2	0.7	1000	1N	500N	20N
66	C4P005C2	404720	1232644	15	7	2	>2	2000	1N	500N	20N
67	C4P006C2	404722	1232627	20	3	5	>2	>10000	1N	500N	20N
68	C5P003C2	404723	1233400	7	7	5	>2	2000	1N	500N	20N
69	C5P007C2	405152	1233101	5	2	0.5	>2	500	1N	500N	20N
70	C7P003C2	404737	1234553	10	5	0.3	0.7	1500	1N	500N	20N
71	C8P001C2	405015	1235635	15	3	5	>2	10000	1N	500N	20N
72	C8P003C2	405004	1235832	7	3	1.5	1	1000	1N	500N	20N
73	C8P005C2	404844	1235503	15	5	7	>2	7000	1N	500N	20N
74	C8P007C2	404957	1235532	10	5	2	>2	2000	1N	500N	20N
75	D1P001C2	405250	1230138	10	5	7	>2	5000	1N	500N	20N
76	D1P002C2	405330	1230116	15	10	7	>2	3000	1N	500N	20N
77	D2P001C2	405337	1230743	20	7	7	>2	5000	1N	500N	20N
78	D2P002C2	405339	1230738	20	5	7	>2	7000	1N	500N	20N
79	D3P001C2	405902	1231841	10	10	5	1.5	1500	1N	500N	20N
80	D3P003C2	405742	1232054	10	7	5	2	3000	1N	500N	20N
81	D3P004C2	405604	1231509	10	10	10	1.5	1500	1N	500N	20N
82	D4P001C2	405713	1232319	15	10	10	>2	10000	1N	500N	20N
83	D4P003C2	405434	1232547	15	10	10	>2	7000	1N	500N	20N
84	D4P005C2	405342	1232523	7	15	15	2	5000	1N	500N	20N
85	D5P004C2	405341	1233324	10	3	0.2	1.5	1500	1N	500N	20N
86	D5P005C2	405327	1233023	10	3	1.5	>2	7000	1N	500N	20N
87	D5P007C2	405234	1233716	10	5	5	>2	5000	1N	500N	20N
88	D6P004C2	405423	1234220	7	7	5	2	1500	1N	500N	20N
89	D6P006C2	405704	1234103	10	5	3	1.5	700	1N	500N	20N
90	D7P001C2	405443	1234843	7	3	0.5	2	1000	1N	500N	20N
91	D7P004C2	405739	1235004	7	2	0.3	2	1000	1N	500N	20N

Table 5. Results of analyses of weakly-magnetic panned-concentrate samples - continued

	SAMPLE #	B s	Ba s	Be s	Bi s	Cd s	Co s	Cr s	Cu s	La s	Mo s
1	A2P002C2	1000	700	<2	20N	50N	30	2000	70	100	10N
2	A2P003C2	200	500	<2	20N	50N	70	>10000	100	100	10N
3	A2P004C2	100	300	<2	20N	50N	200	>10000	50	100	10N
4	A2P006C2	70	70	<2	20N	50N	150	>10000	100	50N	10N
5	A3P011C2	30	70	<2	20N	50N	100	1000	100	<50	10N
6	A4P007C2	500	100	<2	20N	50N	50	>10000	50	50N	10N
7	A4P008C2	200	700	<2	20N	50N	1000	500	5000	2000	10N
8	A4P009C2	200	700	<2	20N	50N	50	300	700	200	10N
9	A4P012C2	700	300	<2	20N	50N	70	10000	70	50N	10N
10	A6P001C2	200	700	<2	20N	50N	50	2000	50	50N	10N
11	A7P001C2	150	500	<2	20N	50N	70	>10000	50	100	10N
12	A7P002C2	150	500	<2	20N	50N	50	>10000	20	200	10N
13	A7P005C2	200	500	<2	20N	50N	100	>10000	50	300	10N
14	A7P006C2	150	500	<2	20N	50N	50	10000	50	50N	10N
15	A8P001C2	200	500	<2	20N	50N	50	10000	15	100	10N
16	A8P005C2	200	1000	<2	20N	50N	70	>10000	100	300	10N
17	A8P008C2	200	500	<2	20N	50N	50	>10000	20	150	10N
18	A8P010C2	200	500	2N	20N	50N	70	>10000	50	300	10N
19	B1P001C2	100	200	2N	20N	50N	70	2000	100	50N	10N
20	B1P002C2	100	300	2N	20N	50N	100	>10000	100	50N	10N
21	B1P003C2	50	200	2N	20N	50N	100	>10000	100	50N	10N
22	B1P005C2	500	300	2N	20N	50N	200	>10000	150	50N	10N
23	B1P007C2	500	500	2N	20N	50N	100	>10000	100	150	10N
24	B2P001C2	500	700	2N	20N	50N	30	2000	50	<50	10N
25	B2P004C2	500	700	2N	20N	50N	50	3000	70	<50	10N
26	B2P005C2	500	500	2N	20N	50N	50	>10000	70	150	10N
27	B3P003C2	200	500	2N	20N	50N	70	1500	70	100	10N
28	B3P004C2	300	500	2N	20N	50N	30	5000	50	50N	10N
29	B3P007C2	70	70	2N	20N	50N	50	5000	50	50N	10N
30	B4P001C2	100	500	2N	20N	50N	100	>10000	70	50N	10N
31	B4P004C2	70	500	2N	20N	50N	100	>10000	70	50N	10N
32	B4P006C2	150	500	2N	20N	50N	100	>10000	70	50N	10N
33	B4P007C2	20	50	2N	20N	50N	70	10000	70	50N	10N
34	B4P008C2	70	70	2N	20N	50N	100	1000	100	50N	10N
35	B5P002C2	50	500	2N	20N	50N	150	>10000	70	50N	10N
36	B5P007C2	200	700	2N	20N	50N	50	3000	70	200	10N
37	B6P002C2	200	700	2N	20N	50N	100	>10000	100	70	10N
38	B6P003C2	300	700	2N	20N	50N	100	>10000	200	700	10N
39	B7P001C2	300	700	2N	20N	50N	100	>10000	70	150	10N
40	B7P002C2	200	1000	2N	20N	50N	50	10000	70	70	10N
41	B7P003C2	300	700	<2	20N	50N	50	5000	50	150	<10
42	B7P004C2	200	500	<2	20N	50N	50	5000	50	50	10N
43	B7P005C2	200	700	<2	20N	50N	50	2000	50	100	10N
44	B7P006C2	200	500	<2	20N	50N	30	1500	50	50	10N
45	B7P007C2	300	700	<2	20N	50N	50	10000	70	150	<10
46	B7P008C2	200	500	<2	20N	50N	200	10000	50	50	<10
47	B7P009C2	200	1000	<2	20N	50N	70	>10000	50	70	10N
48	B8P008C2	300	500	<2	20N	50N	70	>10000	70	500	10N
49	C1P001C2	100	50N	<2	20N	50N	70	500	100	50N	10N
50	C1P002C2	--	--	--	--	--	--	--	--	--	--
51	C1P003C2	70	50N	<2	20N	50N	50	500	50	50N	10N
52	C1P005C2	20	<50	<2	20N	50N	70	500	100	50N	10N
53	C1P006C2	100	50N	<2	20N	50N	70	200	100	50N	10N
54	C1P008C2	500	1000	<2	20N	50N	50	2000	100	70	10
55	C2P002C2	150	500	<2	20N	50N	50	5000	70	50N	10N
56	C3P001C2	200	500	<2	20N	50N	70	700	30	50N	10N
57	C3P002C2	300	100	<2	20N	50N	100	>10000	200	50	10N
58	C3P003C2	500	1000	<2	20N	50N	50	2000	100	70	10N
59	C3P006C2	500	1000	<2	20N	50N	50	1500	70	70	10N
60	C3P011C2	70	500	<2	20N	50N	100	>10000	100	70	10N

Table 5. Results of analyses of weakly-magnetic panned-concentrate samples - continued

SAMPLE #	B s	Ba s	Be s	Bi s	Cd s	Co s	Cr s	Cu s	La s	Mo s
61 C3P012C2	200	1000	<2	20N	50N	50	5000	100	100	10N
62 C3P016C2	300	500	<2	20N	50N	100	>10000	150	70	10N
63 C3P017C2	500	500	<2	20N	50N	30	3000	50	50	10N
64 C4P002C2	30	50	<2	20N	50N	300	>10000	20	50N	10N
65 C4P003C2	50	100	<2	20N	50N	200	>10000	20	50N	10N
66 C4P005C2	50	100	<2	20N	50N	300	>10000	100	50N	10N
67 C4P006C2	150	100	<2	20N	50N	100	2000	150	50N	10N
68 C5P003C2	200	500	<2	20N	50N	100	>10000	100	50N	10N
69 C5P007C2	300	1000	<2	20N	50N	30	3000	100	70	10N
70 C7P003C2	300	700	<2	20N	50N	50	1500	50	50N	10N
71 C8P001C2	70	100	<2	20N	50N	100	>10000	70	100	10N
72 C8P003C2	200	700	<2	20N	50N	30	1000	30	70	10N
73 C8P005C2	150	200	<2	20N	50N	100	>10000	70	300	10N
74 C8P007C2	300	700	<2	20N	50N	50	>10000	100	100	10N
75 D1P001C2	70	50	<2	20N	50N	100	500	150	50N	10N
76 D1P002C2	100	50	<2	20N	50N	100	500	150	50N	10N
77 D2P001C2	150	50	<2	20N	50N	100	1000	150	50N	10N
78 D2P002C2	100	<50	<2	20N	50N	100	200	150	50N	10N
79 D3P001C2	150	500	<2	20N	50N	50	1500	70	50N	10N
80 D3P003C2	150	700	<2	20N	50N	50	>10000	70	50N	10N
81 D3P004C2	150	<50	<2	20N	50N	70	>10000	50	50N	10N
82 D4P001C2	100	150	<2	20N	50N	50	1500	70	50N	10N
83 D4P003C2	150	700	<2	20N	50N	70	10000	100	50N	10N
84 D4P005C2	70	150	<2	20N	50N	50	3000	70	50N	10N
85 D5P004C2	200	1000	<2	20N	50N	30	2000	150	150	10N
86 D5P005C2	200	1000	<2	20N	50N	50	>10000	100	50N	10N
87 D5P007C2	150	500	<2	20N	50N	100	>10000	200	50N	10N
88 D6P004C2	100	100	<2	20N	50N	50	1000	150	50N	10N
89 D6P006C2	150	500	<2	20N	50N	100	>10000	100	50N	10N
90 D7P001C2	300	500	<2	20N	50N	20	700	50	50N	10N
91 D7P004C2	150	700	<2	20N	50N	30	500	100	50N	10N

Table 5. Results of analyses of weakly-magnetic panned-concentrate samples - continued

	SAMPLE #	Nb s	Ni s	Pb s	Sb s	Sc s	Sn s	Sr s	V s	W s	Y s
1	A2P002C2	50	100	<20	200N	50	20N	700	200	100N	100
2	A2P003C2	<50	200	30	200N	70	20N	700	300	100N	50
3	A2P004C2	<50	300	<20	200N	30	20N	300	500	100N	30
4	A2P006C2	50	200	20N	200N	50	20N	300	500	100N	<20
5	A3P011C2	<50	70	20N	200N	100	20N	700	500	100N	20
6	A4P007C2	50N	200	20N	200N	30	20N	200	200	100N	<20
7	A4P008C2	50N	7000	700	200N	<10	20N	<200	100	100N	100
8	A4P009C2	50N	200	50	200N	<10	20N	<200	200	100N	50
9	A4P012C2	50N	300	<20	200N	70	20N	300	300	100N	50
10	A6P001C2	50N	200	20N	200N	<10	20N	<200	200	100N	20
11	A7P001C2	50N	300	<20	200N	<10	20N	200	200	100N	30
12	A7P002C2	<50	200	<20	200N	50	20N	500	300	100N	70
13	A7P005C2	50N	500	<20	200N	<10	20N	300	500	100N	70
14	A7P006C2	50N	700	<20	200N	<10	20N	<200	200	100N	20
15	A8P001C2	50N	200	<20	200N	30	20N	500	300	100N	50
16	A8P005C2	<50	300	<20	200N	30	20N	500	500	100N	100
17	A8P008C2	50N	200	<20	200N	<10	20N	500	300	100N	50
18	A8P010C2	<50	200	30	200N	20	20N	300	300	100N	70
19	B1P001C2	<50	300	<20	200N	50	20N	300	500	100N	50
20	B1P002C2	50N	500	50	200N	<10	20N	<200	500	100N	300
21	B1P003C2	50N	300	<20	200N	20	20N	<200	500	100N	30
22	B1P005C2	50N	500	50	200N	<10	20N	<200	500	100N	30
23	B1P007C2	50	500	70	200N	30	20N	500	300	100N	70
24	B2P001C2	<50	200	20	200N	<10	20N	200	200	100N	20
25	B2P004C2	<50	300	50	200N	30	20N	200	300	100N	50
26	B2P005C2	50	200	50	200N	70	20N	500	300	100N	70
27	B3P003C2	50N	200	<20	200N	50	20N	300	200	100N	50
28	B3P004C2	<50	150	<20	200N	20	20N	500	300	100N	20
29	B3P007C2	100	20	<20	200N	70	20N	200	300	100N	20
30	B4P001C2	50	200	<20	200N	50	20N	200	500	100N	20
31	B4P004C2	50N	500	<20	200N	50	20N	200	300	100N	30
32	B4P006C2	<50	300	<20	200N	30	20N	500	500	100N	30
33	B4P007C2	150	20	<20	200N	70	20N	<200	500	100N	20
34	B4P008C2	100	15	<20	200N	100	20N	<200	300	100N	<20
35	B5P002C2	50N	1000	<20	200N	<10	20N	<200	500	100N	20
36	B5P007C2	50N	200	<20	200N	<10	20N	<200	200	100N	70
37	B6P002C2	50N	500	20	200N	<10	20N	<200	500	100N	30
38	B6P003C2	50	200	70	200N	20	20N	<200	200	100N	150
39	B7P001C2	<50	300	<20	200N	30	20N	<200	500	100N	50
40	B7P002C2	50N	300	<20	200N	20	20N	<200	200	100N	50
41	B7P003C2	<50	200	30	200N	<10	20N	300	200	100N	50
42	B7P004C2	50N	200	20	200N	<10	20N	200	200	100N	20
43	B7P005C2	50N	200	20	200N	30	20N	<200	200	100N	30
44	B7P006C2	50N	200	<20	200N	<10	20N	<200	200	100N	20
45	B7P007C2	50N	500	20	200N	30	20N	200	300	100N	50
46	B7P008C2	50N	200	<20	200N	<10	20N	300	200	100N	30
47	B7P009C2	50N	500	<20	200N	<10	20N	200	300	100N	30
48	B8P008C2	70	150	<20	200N	50	20N	300	300	100N	100
49	C1P001C2	50N	30	20N	200N	70	20N	200	500	100N	100
50	C1P002C2	--	--	--	--	--	--	--	--	--	--
51	C1P003C2	50N	30	20N	200N	70	20N	200	500	100N	100
52	C1P005C2	50N	50	20N	200N	100	20N	200	500	100N	200
53	C1P006C2	50N	30	20N	200N	70	20N	300	500	100N	100
54	C1P008C2	<50	200	30	200N	30	20N	300	200	100N	50
55	C2P002C2	50N	200	<20	200N	50	20N	300	200	100N	30
56	C3P001C2	50N	100	<20	200N	100	20N	500	500	100N	50
57	C3P002C2	50	200	20N	200N	70	20N	500	500	100N	70
58	C3P003C2	<50	200	<20	200N	50	20N	500	200	100N	50
59	C3P006C2	50	300	50	200N	<10	20N	500	200	100N	50
60	C3P011C2	50	300	<20	200N	50	20N	300	300	100N	70

Table 5. Results of analyses of weakly-magnetic panned-concentrate samples - continued

SAMPLE #	Nb s	Ni s	Pb s	Sb s	Sc s	Sn s	Sr s	V s	W s	Y s
61 C3P012C2	<50	300	20	200N	30	20N	300	200	100N	50
62 C3P016C2	50	200	<20	200N	100	20N	500	500	100N	70
63 C3P017C2	<50	150	<20	200N	30	20N	300	300	100N	50
64 C4P002C2	50N	2000	20N	200N	30	20N	<200	700	100N	<20
65 C4P003C2	50N	700	20N	200N	<10	20N	<200	500	100N	<20
66 C4P005C2	<50	700	20N	200N	<10	20N	<200	500	100N	<20
67 C4P006C2	50	50	20N	200N	<10	20N	500	500	100N	30
68 C5P003C2	50N	300	20N	200N	<10	20N	500	300	100N	30
69 C5P007C2	<50	200	20N	200N	<10	20N	300	150	100N	100
70 C7P003C2	<50	300	20N	200N	<10	20N	<200	300	100N	30
71 C8P001C2	50	100	20N	200N	<10	20N	500	500	100N	70
72 C8P003C2	50N	70	20	200N	<10	20N	500	100	100N	20
73 C8P005C2	50	100	<20	200N	70	20N	500	500	100N	100
74 C8P007C2	50N	100	20	200N	<10	20N	300	300	100N	50
75 D1P001C2	50N	50	20N	200N	70	20N	300	500	100N	100
76 D1P002C2	50N	70	20N	200N	70	20N	200	500	100N	70
77 D2P001C2	50N	70	20N	200N	70	20N	200	500	100N	70
78 D2P002C2	50N	30	20N	200N	30	20N	200	300	100N	50
79 D3P001C2	<50	300	<20	200N	30	20N	300	300	100N	50
80 D3P003C2	50N	300	20	200N	30	20N	300	300	100N	30
81 D3P004C2	50N	200	20N	200N	70	20N	500	500	100N	50
82 D4P001C2	50	100	20N	200N	70	20N	200	300	100N	50
83 D4P003C2	<50	300	<20	200N	30	20N	200	300	100N	70
84 D4P005C2	50N	200	20N	200N	100	20N	<200	300	100N	30
85 D5P004C2	50N	150	50	200N	<10	20N	<200	150	100N	70
86 D5P005C2	70	200	20N	200N	<10	20N	300	300	100N	50
87 D5P007C2	50N	1000	<20	200N	70	20N	500	500	100N	70
88 D6P004C2	50N	200	20N	200N	30	20N	500	300	100N	30
89 D6P006C2	50N	500	<20	200N	<10	20N	200	300	100N	50
90 D7P001C2	50N	200	20N	200N	<10	20N	200	200	100N	20
91 D7P004C2	50N	200	<20	200N	<10	20N	<200	200	100N	30

Table 5. Results of analyses of weakly-magnetic panned-concentrate samples - continued

	SAMPLE #	Zn s	Zr s	Th s
1	A2P002C2	500N	200	200N
2	A2P003C2	500N	200	200N
3	A2P004C2	1000	200	200N
4	A2P006C2	500N	150	200N
5	A3P011C2	500N	300	200N
6	A4P007C2	1000	100	200N
7	A4P008C2	500N	150	200N
8	A4P009C2	500N	200	200N
9	A4P012C2	500N	150	200N
10	A6P001C2	500N	200	200N
11	A7P001C2	500N	200	200N
12	A7P002C2	500N	200	200N
13	A7P005C2	500N	500	200N
14	A7P006C2	500N	200	200N
15	A8P001C2	500N	150	200N
16	A8P005C2	500N	500	200N
17	A8P008C2	500N	300	200N
18	A8P010C2	500N	300	200N
19	B1P001C2	500N	200	200N
20	B1P002C2	500N	200	200N
21	B1P003C2	500N	150	200N
22	B1P005C2	1000	100	<200
23	B1P007C2	500	200	200N
24	B2P001C2	500N	200	200N
25	B2P004C2	500N	200	200N
26	B2P005C2	500N	150	<200
27	B3P003C2	500N	150	200N
28	B3P004C2	500N	300	200N
29	B3P007C2	500N	200	200N
30	B4P001C2	500N	150	200N
31	B4P004C2	500N	200	200N
32	B4P006C2	500N	200	<200
33	B4P007C2	500N	200	200N
34	B4P008C2	500N	200	200N
35	B5P002C2	700	100	200N
36	B5P007C2	500N	200	200N
37	B6P002C2	500	300	200N
38	B6P003C2	500N	500	200N
39	B7P001C2	500N	200	200N
40	B7P002C2	500N	200	200N
41	B7P003C2	500N	500	200N
42	B7P004C2	500N	200	200N
43	B7P005C2	500N	200	200N
44	B7P006C2	500N	150	200N
45	B7P007C2	500N	200	200N
46	B7P008C2	500N	200	200N
47	B7P009C2	500N	150	200N
48	B8P008C2	500N	300	200N
49	C1P001C2	500N	200	200N
50	C1P002C2	--	--	--
51	C1P003C2	500N	300	200N
52	C1P005C2	500N	200	200N
53	C1P006C2	500N	150	200N
54	C1P008C2	500N	150	200N
55	C2P002C2	500N	100	200N
56	C3P001C2	500N	100	200N
57	C3P002C2	500N	100	200N
58	C3P003C2	500N	200	200N
59	C3P006C2	500N	200	200N
60	C3P011C2	500	150	200N

Table 5. Results of analyses of weakly-magnetic panned-concentrate samples - continued

SAMPLE #	Zn s	Zr s	Th s
61 C3P012C2	500N	200	200N
62 C3P016C2	500N	100	200N
63 C3P017C2	500N	100	200N
64 C4P002C2	1500	50	200N
65 C4P003C2	1000	<20	200N
66 C4P005C2	500N	200	200N
67 C4P006C2	500N	1000	200N
68 C5P003C2	<500	200	200N
69 C5P007C2	500N	700	200N
70 C7P003C2	<500	200	200N
71 C8P001C2	<500	500	200N
72 C8P003C2	500N	150	200N
73 C8P005C2	500N	500	200N
74 C8P007C2	500N	300	200N
75 D1P001C2	500N	200	200N
76 D1P002C2	500N	200	200N
77 D2P001C2	500N	200	200N
78 D2P002C2	500N	150	200N
79 D3P001C2	500N	150	200N
80 D3P003C2	500N	150	200N
81 D3P004C2	500N	100	200N
82 D4P001C2	500N	300	200N
83 D4P003C2	500N	200	200N
84 D4P005C2	500N	70	200N
85 D5P004C2	500N	300	200N
86 D5P005C2	500N	1000	200N
87 D5P007C2	500N	200	200N
88 D6P004C2	500N	100	200N
89 D6P006C2	500	150	200N
90 D7P001C2	500N	150	200N
91 D7P004C2	500N	200	200N

Table 6. Results of analyses of nonmagnetic panned-concentrate samples from the Hayfork 1:100,000 quadrangle, Trinity and Humboldt Counties, California.

	SAMPLE #	LATITUDE	LONGITUDE	Fe s	Mg s	Ca s	Ti s	Mn s	Ag s	As s	Au s
1	A2P002C3	403723	1230951	0.5	0.5	1	2	150	1N	500N	20N
2	A2P003C3	403560	1230909	0.7	0.5	2	2	200	1N	500N	20N
3	A2P004C3	403328	1230807	0.5	0.2	0.3	>2	150	1N	500N	20N
4	A2P006C3	403255	1231212	0.7	0.3	0.5	0.2	150	1N	500N	20N
5	A3P011C3	403617	1231657	0.7	0.2	7	0.3	200	1N	500N	20N
6	A4P007C3	403414	1232632	0.5	0.5	3	0.1	200	1N	500N	20N
7	A4P008C3	403238	1232723	20	0.05	0.3	0.1	150	3	500	20N
8	A4P009C3	403317	1232730	1	0.3	0.5	0.15	150	1N	500N	20N
9	A4P012C3	403157	1232302	1	1	3	0.2	500	1N	500N	20N
10	A6P001C3	403545	1234308	0.5	0.5	0.2	0.1	150	1N	500N	20N
11	A7P001C3	403648	1235103	0.5	0.3	0.7	0.03	150	1N	500N	20N
12	A7P002C3	403301	1235149	0.7	0.5	0.3	0.2	150	1N	500N	20N
13	A7P005C3	403437	1234603	0.5	0.3	0.2	0.3	150	1N	500N	20N
14	A7P006C3	403524	1234531	1	0.7	0.15	0.2	200	1N	500N	20N
15	A8P001C3	403005	1235823	0.5	0.2	0.5	0.5	100	1N	500N	20N
16	A8P005C3	403411	1235610	1	0.5	0.7	0.7	150	1N	500N	20N
17	A8P008C3	403139	1235947	0.7	0.2	0.5	0.5	100	1N	500N	20N
18	A8P010C3	403238	1235449	1.5	0.5	0.5	0.7	150	1N	500N	20N
19	B1P001C3	404304	1230308	1.5	0.5	0.5	0.7	200	1N	500N	20N
20	B1P002C3	403955	1230203	5	10	1	1.5	500	1N	500N	20N
21	B1P003C3	403957	1230030	3	1	1.5	>2	200	15	500N	50
22	B1P005C3	404123	1230342	3	3	2	2	500	1N	500N	20N
23	B1P007C3	404053	1230525	5	7	3	>2	1000	1N	500N	20N
24	B2P001C3	404048	1230743	2	2	1	0.2	500	1N	500N	20N
25	B2P004C3	404002	1230849	1.5	2	0.7	0.5	300	1N	500N	20N
26	B2P005C3	403915	1230926	1.5	1.5	1.5	2	500	1N	500N	20N
27	B3P003C3	404414	1231507	1	1	3	0.2	200	1N	500N	20N
28	B3P004C3	404206	1231828	0.7	0.3	0.5	0.2	150	1N	500N	20N
29	B3P007C3	404212	1232133	1.5	1	2	0.2	500	1N	500N	20N
30	B4P001C3	403942	1232933	2	2	3	0.5	500	1N	500N	20N
31	B4P004C3	403856	1232606	1.5	2	1.5	0.2	300	1N	500N	20N
32	B4P006C3	404126	1232802	2	1	1.5	>2	200	1N	500N	20N
33	B4P007C3	404155	1232626	1.5	0.7	7	2	300	1N	500N	20N
34	B4P008C3	404200	1232536	0.5	0.1	2	0.1	150	1N	500N	20N
35	B5P002C3	404308	1233115	3	1	2	0.15	150	1N	500N	20N
36	B5P007C3	404224	1233501	1	0.2	1.5	2	200	1N	500N	20N
37	B6P002C3	404259	1234237	1.5	0.7	0.5	2	150	1N	500N	20N
38	B6P003C3	404330	1233828	0.7	0.15	0.2	>2	100	1N	500N	20N
39	B7P001C3	404347	1235113	3	2	1	2	300	1N	500N	20N
40	B7P002C3	404304	1235051	1	0.5	0.3	0.2	200	1N	500N	20N
41	B7P003C3	404215	1235040	0.5	0.2	0.2	0.2	200	1N	500N	20N
42	B7P004C3	403946	1234832	1	0.5	0.3	2	300	1N	500N	20N
43	B7P005C3	403942	1234738	0.7	0.3	0.2	0.15	200	1N	500N	20N
44	B7P006C3	403926	1234657	1	0.7	3	0.15	200	1N	500N	20N
45	B7P007C3	403923	1234524	1	0.5	2	0.2	200	1N	500N	20N
46	B7P008C3	404120	1235142	1	0.7	0.5	0.15	200	1N	500N	20N
47	B7P009C3	404011	1235140	1	0.7	0.7	0.5	200	1N	500N	20N
48	B8P008C3	404024	1235721	0.5	0.2	0.7	2	150	1N	500N	20N
49	C1P001C3	404816	1230334	0.7	0.3	5	>2	200	1N	500N	20N
50	C1P002C3	405015	1230300	0.3	0.5	0.7	1	200	1N	500N	20N
51	C1P003C3	405112	1230029	0.5	0.2	7	>2	200	1N	500N	20N
52	C1P005C3	405160	1230206	0.7	0.2	7	>2	200	1N	500N	20N
53	C1P006C3	404916	1230329	0.5	0.1	10	>2	200	100	500N	100
54	C1P008C3	404503	1230509	1	0.7	0.2	0.3	300	1N	500N	20N
55	C2P002C3	404531	1230901	--	--	--	--	--	--	--	--
56	C3P001C3	405146	1231642	0.5	0.3	3	0.1	200	1N	500N	20N
57	C3P002C3	405143	1231624	10	0.7	3	>2	200	1N	500N	20N
58	C3P003C3	405026	1231647	1	1	1.5	1.5	200	1N	500N	20N
59	C3P006C3	404924	1231745	0.7	1	0.2	0.3	300	1N	500N	20N
60	C3P011C3	404746	1232149	1	1	10	0.3	500	1N	500N	20N

Table 6. Results of analyses of nonmagnetic panned-concentrate samples - continued.

	SAMPLE #	LATITUDE	LONGITUDE	Fe s	Mg s	Ca s	Ti s	Mn s	Ag s	As s	Au s
61	C3P012C3	404741	1232119	1	1	2	0.15	300	1N	500N	20N
62	C3P016C3	404652	1231831	0.7	0.5	2	>2	200	20	500N	70
63	C3P017C3	404559	1231755	0.7	0.5	1	2	150	1N	500N	20N
64	C4P002C3	404940	1232914	--	--	--	--	--	--	--	--
65	C4P003C3	404846	1232843	2	1.5	1.5	2	500	2N	1000N	50N
66	C4P005C3	404720	1232644	--	--	--	--	--	--	--	--
67	C4P006C3	404722	1232627	1	0.15	10	2	500	1N	500N	20N
68	C5P003C3	404723	1233400	1	0.7	2	0.7	500	1N	500N	20N
69	C5P007C3	405151	1233101	0.5	0.5	0.7	>2	150	1N	500N	20N
70	C7P003C3	404737	1234553	0.5	0.2	--	0.2	150	1N	500N	20N
71	C8P001C3	405015	1235635	0.7	0.5	2	>2	200	1N	500N	20N
72	C8P003C3	405004	1235833	0.7	0.5	0.3	0.1	150	1N	500N	20N
73	C8P005C3	404844	1235503	0.5	0.2	2	>2	150	1N	500N	20N
74	C8P007C3	404957	1235532	1	0.7	1	1	200	1N	500N	20N
75	D1P001C3	405250	1230138	0.5	0.15	7	>2	200	100	500N	100
76	D1P002C3	405330	1230116	1	0.2	5	>2	150	1N	500N	20N
77	D2P001C3	405337	1230743	1	0.7	5	>2	150	1N	500N	20N
78	D2P002C3	405339	1230738	1	0.2	7	>2	150	3	500N	20N
79	D3P001C3	405902	1231841	1	1.5	5	0.3	300	1N	500N	20N
80	D3P003C3	405742	1232054	1.5	3	5	1	200	1N	500N	20N
81	D3P004C3	405605	1231509	2	3	5	1	1000	1N	500N	20N
82	D4P001C3	405713	1232319	1	2	7	0.2	500	1N	500N	20N
83	D4P003C3	405434	1232547	1	2	5	1.5	700	1N	500N	20N
84	D4P005C3	405342	1232524	2	1.5	5	1.5	500	1N	500N	20N
85	D5P004C3	405341	1233324	2	1	0.7	>2	300	1N	500N	20N
86	D5P005C3	405327	1233023	0.5	0.2	0.3	0.3	100	1N	500N	20N
87	D5P007C3	405234	1233716	7	2	5	>2	200	1N	500N	20N
88	D6P004C3	405423	1234220	0.7	0.7	3	0.3	150	1N	500N	20N
89	D6P006C3	405704	1234103	0.5	0.5	1	1	100	1N	500N	20N
90	D7P001C3	405443	1234843	0.7	0.5	0.3	0.7	150	1N	500N	20N
91	D7P004C3	405740	1235003	0.7	0.5	0.2	>2	150	1N	500N	20N

Table 6. Results of analyses of nonmagnetic panned-concentrate samples - continued.

	SAMPLE #	B	Ba	Be	Bi	Cd	Co	Cr	Cu	La	Mo
		s	s	s	s	s	s	s	s	s	s
1	A2P002C3	70	1500	<2	20N	50N	<10	30	15	50N	10N
2	A2P003C3	100	700	<2	20N	50N	<10	100	15	50N	10N
3	A2P004C3	50	700	<2	20N	50N	<10	200	10	50N	10N
4	A2P006C3	30	1000	<2	20N	50N	<10	1000	10	50N	10N
5	A3P011C3	30	300	<2	20N	50N	<10	200	15	150	10N
6	A4P007C3	2000	700	<2	20N	50N	<10	1000	10	50N	10N
7	A4P008C3	30	1000	<2	20N	50N	200	<20	1000	50N	10N
8	A4P009C3	50	700	<2	20N	50N	<10	50	20	50N	10N
9	A4P012C3	50	700	<2	20N	50N	<10	100	20	50N	10N
10	A6P001C3	30	100	<2	20N	50N	<10	50	<10	50N	10N
11	A7P001C3	50	>10000	<2	20N	50N	<10	50	<10	50N	10N
12	A7P002C3	50	500	<2	20N	50N	<10	300	15	50N	10N
13	A7P005C3	100	10000	<2	20N	50N	<10	200	10	50N	10N
14	A7P006C3	50	7000	<2	20N	50N	<10	200	15	50N	10N
15	A8P001C3	30	500	<2	20N	50N	<10	200	<10	50N	10N
16	A8P005C3	30	>10000	<2	20N	50N	<10	300	15	50N	10N
17	A8P008C3	70	700	<2	20N	50N	<10	200	<10	50N	10N
18	A8P010C3	100	2000	<2	20N	50N	<10	300	10	50N	10N
19	B1P001C3	100	500	<2	20N	50N	50	500	20	50N	10N
20	B1P002C3	100	700	<2	20N	50N	10	300	70	50N	10N
21	B1P003C3	50	>10000	<2	20N	50N	70	500	100	50N	10N
22	B1P005C3	200	1000	<2	20N	50N	30	700	70	50N	10N
23	B1P007C3	200	700	<2	20N	50N	100	300	100	70	10N
24	B2P001C3	150	500	<2	20N	50N	10	500	30	50N	10N
25	B2P004C3	200	700	<2	20N	50N	<10	300	20	50N	10N
26	B2P005C3	150	700	<2	20N	50N	<10	300	15	50N	10N
27	B3P003C3	100	1000	<2	20N	50N	<10	300	150	50N	10N
28	B3P004C3	100	700	<2	20N	50N	<10	200	15	50N	10N
29	B3P007C3	100	700	<2	20N	50N	<10	300	20	50N	10N
30	B4P001C3	70	7000	<2	20N	50N	150	500	30	50	10N
31	B4P004C3	50	3000	<2	20N	50N	50	700	15	50N	10N
32	B4P006C3	50	500	<2	20N	50N	15	2000	50	50N	10N
33	B4P007C3	30	700	<2	20N	50N	<10	300	30	200	10N
34	B4P008C3	70	1500	<2	20N	50N	<10	200	20	70	10N
35	B5P002C3	50	>10000	<2	20N	50N	500	50	30	50N	10N
36	B5P007C3	50	2000	<2	20N	50N	<10	500	15	50N	10N
37	B6P002C3	500	>10000	<2	20N	50N	<10	500	15	50N	10N
38	B6P003C3	70	>10000	<2	20N	50N	<10	20	20	50N	10N
39	B7P001C3	100	10000	<2	20N	50N	50	100	30	50N	10N
40	B7P002C3	70	>10000	<2	20N	50N	<10	150	15	50N	10N
41	B7P003C3	100	3000	<2	20N	50N	<10	70	10	50N	10N
42	B7P004C3	100	3000	<2	20N	50N	<10	200	20	50N	10N
43	B7P005C3	100	2000	<2	20N	50N	<10	200	15	50N	10N
44	B7P006C3	150	>10000	<2	20N	50N	<10	300	20	50N	10N
45	B7P007C3	150	5000	<2	20N	50N	<10	150	20	50N	10N
46	B7P008C3	500	2000	<2	20N	50N	<10	200	15	50N	10N
47	B7P009C3	200	>10000	<2	20N	50N	30	200	20	50N	10N
48	B8P008C3	70	2000	<2	20N	50N	15	100	10	50N	10N
49	C1P001C3	50	<50	<2	20N	50N	30	700	70	50N	10N
50	C1P002C3	100	700	<2	20N	50N	<10	150	15	50N	10N
51	C1P003C3	50	200	<2	20N	50N	<10	100	30	50N	10N
52	C1P005C3	50	50N	<2	20N	50N	30	100	100	50N	10N
53	C1P006C3	50	50N	<2	20N	50N	10	200	50	50N	10N
54	C1P008C3	100	700	<2	20N	50N	<10	150	15	50N	10N
55	C2P002C3	--	--	--	--	--	--	--	--	--	--
56	C3P001C3	150	700	<2	20N	50N	<10	100	10	50N	10N
57	C3P002C3	500	500	<2	20N	50N	30	300	70	50N	10N
58	C3P003C3	100	1000	<2	20N	50N	<10	300	15	50N	10N
59	C3P006C3	100	1000	<2	20N	50N	<10	100	15	50N	10N
60	C3P011C3	50	1000	<2	20N	50N	<10	700	15	50N	10N

Table 6. Results of analyses of nonmagnetic panned-concentrate samples - continued.

SAMPLE #	B s	Ba s	Be s	Bi s	Cd s	Co s	Cr s	Cu s	La s	Mo s
61 C3P012C3	100	1000	<2	20N	50N	<10	70	15	50N	10N
62 C3P016C3	150	1000	<2	<20	50N	<10	500	300	50N	10N
63 C3P017C3	70	700	<2	20N	50N	10	70	15	50N	10N
64 C4P002C3	--	--	--	--	--	--	--	--	--	--
65 C4P003C3	70	>10000	<5	50N	100N	150	>10000	<20	100N	20N
66 C4P005C3	--	--	--	--	--	--	--	--	--	--
67 C4P006C3	70	700	<2	20N	50N	<10	300	<10	500	10N
68 C5P003C3	100	700	<2	20N	50N	10	300	20	50N	10N
69 C5P007C3	70	2000	<2	20N	50N	<10	100	<10	50N	10N
70 C7P003C3	50	100	<2	20N	50N	<10	100	10	50N	10N
71 C8P001C3	100	500	<2	20N	50N	<10	150	15	50N	10N
72 C8P003C3	70	700	<2	20N	50N	<10	50	<10	50N	10N
73 C8P005C3	100	1500	<2	20N	50N	<10	70	<10	50N	10N
74 C8P007C3	100	2000	<2	20N	50N	<10	200	15	50N	10N
75 D1P001C3	70	150	<2	20N	50N	10	150	20	50N	10N
76 D1P002C3	50	200	<2	20N	50N	30	200	20	50N	10N
77 D2P001C3	70	500	<2	20N	50N	15	100	15	50N	10N
78 D2P002C3	70	500	<2	20N	50N	50	100	20	50N	10N
79 D3P001C3	200	1000	<2	20N	50N	<10	300	20	50N	10N
80 D3P003C3	150	1000	<2	20N	50N	<10	200	15	50N	10N
81 D3P004C3	50	200	<2	20N	50N	15	500	15	50N	10N
82 D4P001C3	500	1000	<2	20N	50N	<10	200	20	150	10N
83 D4P003C3	200	1000	<2	20N	50N	<10	150	20	50N	10N
84 D4P005C3	200	2000	<2	20N	50N	<10	200	20	50N	10N
85 D5P004C3	150	>10000	<2	20N	50N	<10	200	30	50N	10N
86 D5P005C3	100	3000	<2	20N	50N	<10	100	<10	50N	10N
87 D5P007C3	700	>10000	<2	20N	50N	700	500	200	50N	10N
88 D6P004C3	70	500	<2	20N	50N	15	500	50	50N	10N
89 D6P006C3	300	10000	<2	20N	50N	<10	200	<10	50N	10N
90 D7P001C3	200	1000	<2	20N	50N	<10	70	15	50N	10N
91 D7P004C3	50	700	<2	20N	50N	<10	300	15	50N	10N

Table 6. Results of analyses of nonmagnetic panned-concentrate samples - continued.

	SAMPLE #	Nb s	Ni s	Pb s	Sb s	Sc s	Sn s	Sr s	V s	W s	Y s
1	A2P002C3	50	30	500	200N	<10	20N	200	70	100N	50
2	A2P003C3	<50	30	20N	200N	<10	20N	200	100	100N	30
3	A2P004C3	<50	30	20N	200N	<10	20N	200	70	100N	20
4	A2P006C3	50N	30	20N	200N	<10	20N	200	70	100N	30
5	A3P011C3	50N	20	20N	200N	<10	20N	700	50	100N	150
6	A4P007C3	50N	30	20N	200N	<10	20N	200	50	100N	B
7	A4P008C3	50N	700	5000	200N	<10	20N	200	20	100N	20
8	A4P009C3	50N	20	20	200N	<10	20N	200	70	100N	20
9	A4P012C3	50N	50	<20	200N	<10	20N	<200	100	100N	B
10	A6P001C3	50N	15	20N	200N	<10	20N	<200	50	100N	B
11	A7P001C3	50N	15	20N	200N	<10	20N	500	20	100N	B
12	A7P002C3	50N	100	20N	200N	<10	20N	300	70	100N	B
13	A7P005C3	50N	50	20N	200N	<10	20N	300	70	100N	30
14	A7P006C3	50N	70	20N	200N	<10	20N	300	70	100N	B
15	A8P001C3	50N	70	20N	200N	<10	20N	200	30	100N	B
16	A8P005C3	50N	100	20N	200N	<10	20N	300	70	100N	50
17	A8P008C3	50N	100	20N	200N	<10	20N	700	50	100N	B
18	A8P010C3	50N	70	20N	200N	<10	20N	300	50	100N	<20
19	B1P001C3	50N	200	20N	200N	<10	20N	200	70	100N	20N
20	B1P002C3	50N	300	30	200N	<10	20N	200	200	100N	20N
21	B1P003C3	50	300	150	200N	<10	20N	500	100	100N	20
22	B1P005C3	50N	700	20N	200N	<10	20N	200	150	100N	50
23	B1P007C3	<50	2000	20N	200N	<10	20N	200	200	100N	70
24	B2P001C3	50N	200	20N	200N	<10	20N	300	100	100N	20N
25	B2P004C3	50N	70	20N	200N	<10	20N	200	100	100N	20
26	B2P005C3	<50	70	20N	200N	<10	20N	300	100	100N	30
27	B3P003C3	50N	70	20N	200N	<10	20N	500	70	100N	<20
28	B3P004C3	50N	50	20N	200N	<10	20N	300	70	100N	20N
29	B3P007C3	50N	70	20N	200N	<10	20N	500	100	100N	70
30	B4P001C3	50N	3000	1000	200N	<10	20N	700	100	100N	100
31	B4P004C3	50N	700	20N	200N	<10	20N	300	100	100N	20N
32	B4P006C3	50N	100	300	200N	<10	20N	<200	150	100N	20
33	B4P007C3	50N	30	20N	200N	<10	20N	500	70	100N	700
34	B4P008C3	50N	100	70	200N	<10	20N	500	30	100N	300
35	B5P002C3	50N	>10000	20N	200N	<10	20N	3000	50	100N	20N
36	B5P007C3	50N	200	70	200N	<10	20N	200	70	100N	20
37	B6P002C3	50N	100	20N	200N	<10	20N	200	100	100N	30
38	B6P003C3	<50	10	20N	200N	<10	20N	500	100	100N	30
39	B7P001C3	50N	70	20N	200N	<10	20N	200	150	100N	20
40	B7P002C3	50N	100	20N	200N	<10	20N	300	70	100N	<20
41	B7P003C3	50N	15	<20	200N	<10	20N	300	50	100N	<20
42	B7P004C3	50N	100	<20	200N	<10	20N	300	50	100N	<20
43	B7P005C3	50N	70	<20	200N	<10	150	200	50	100N	<20
44	B7P006C3	50N	100	<20	200N	<10	20N	500	50	100N	20N
45	B7P007C3	50N	70	<20	200N	<10	20N	300	50	100N	20N
46	B7P008C3	50N	70	<20	200N	<10	20N	300	70	100N	20N
47	B7P009C3	50N	100	<20	200N	<10	20N	300	70	100N	20
48	B8P008C3	50N	30	<20	200N	<10	20N	500	50	100N	70
49	C1P001C3	50N	100	<20	200N	<10	20N	200	200	100N	100
50	C1P002C3	50N	50	<20	200N	<10	20N	300	70	100N	<20
51	C1P003C3	50N	30	2000	200N	<10	20N	300	150	100N	100
52	C1P005C3	50N	30	70	200N	<10	20N	<200	150	200	100
53	C1P006C3	50N	50	150	200N	<10	20N	<200	200	100	200
54	C1P008C3	50N	50	<20	200N	<10	20N	200	70	100N	20
55	C2P002C3	--	--	--	--	--	--	--	--	--	--
56	C3P001C3	50N	30	50	200N	<10	20N	500	50	100N	<20
57	C3P002C3	50	150	20N	200N	<10	20N	200	50	100N	50
58	C3P003C3	50N	100	20N	200N	<10	20N	200	100	<100	20
59	C3P006C3	50N	70	20N	200N	<10	20N	200	100	100N	20
60	C3P011C3	50N	150	1500	200N	<10	20N	300	100	500	20

Table 6. Results of analyses of nonmagnetic panned-concentrate samples - continued.

SAMPLE #	Nb s	Ni s	Pb s	Sb s	Sc s	Sn s	Sr s	V s	W s	Y s
61 C3P012C3	50N	50	20N	200N	<10	20N	200	100	<100	<20
62 C3P016C3	<50	30	50	200N	<10	20N	200	100	500	50
63 C3P017C3	50N	20	1500	200N	<10	20N	200	100	100N	<20
64 C4P002C3	--	--	--	--	--	--	--	--	--	--
65 C4P003C3	100N	2000	50N	500N	<20	50N	1500	200	<100	70
66 C4P005C3	--	--	--	--	--	--	--	--	--	--
67 C4P006C3	50N	200	20N	200N	50	20N	500	70	<100	500
68 C5P003C3	50N	300	20N	200N	<10	20N	300	100	<100	20
69 C5P007C3	50N	50	20N	200N	<10	20N	300	100	<100	150
70 C7P003C3	50N	30	20N	200N	<10	20N	<200	50	<100	20N
71 C8P001C3	<50	30	20N	200N	<10	20N	300	200	<100	100
72 C8P003C3	50N	30	20N	200N	<10	20N	300	50	<100	20N
73 C8P005C3	<50	30	20N	200N	<10	50	300	100	<100	70
74 C8P007C3	50N	50	20N	200N	<10	20N	200	100	<100	20
75 D1P001C3	50N	20	20N	200N	<10	20N	300	200	<100	100
76 D1P002C3	50N	70	20N	200N	<10	20N	500	100	<100	50
77 D2P001C3	50N	50	20N	200N	<10	20N	700	100	<100	70
78 D2P002C3	50N	30	20N	200N	<10	20N	500	150	100	100
79 D3P001C3	50N	100	20N	200N	<10	20N	300	200	<100	50
80 D3P003C3	50N	50	20N	200N	<10	20N	300	100	<100	30
81 D3P004C3	50N	100	20N	200N	<10	20N	300	200	150	<20
82 D4P001C3	50N	30	100	200N	<10	20N	1000	70	<100	100
83 D4P003C3	50N	100	20N	200N	<10	20N	500	100	<100	30
84 D4P005C3	50N	70	20N	200N	<10	20N	300	100	<100	50
85 D5P004C3	50N	70	20N	200N	<10	20N	500	100	<100	50
86 D5P005C3	50N	30	20N	200N	<10	20N	300	50	<100	150
87 D5P007C3	<50	>10000	3000	200N	<10	20N	1000	150	100N	70
88 D6P004C3	50N	200	20N	200N	<10	20N	500	70	100N	20N
89 D6P006C3	50N	50	20N	200N	<10	20N	700	70	100N	20
90 D7P001C3	50N	20	20N	200N	<10	20N	200	70	100N	<20
91 D7P004C3	50N	30	20N	200N	<10	20N	<200	50	100N	20N

Table 6. Results of analyses of nonmagnetic panned-concentrate samples - continued.

	SAMPLE #	Zn s	Zr s	Th s
1	A2P002C3	500N	100	200N
2	A2P003C3	500N	500	200N
3	A2P004C3	500N	>2000	200N
4	A2P006C3	500N	>2000	200N
5	A3P011C3	500N	>2000	200N
6	A4P007C3	500N	150	200N
7	A4P008C3	500	700	200N
8	A4P009C3	500N	50	200N
9	A4P012C3	500N	150	200N
10	A6P001C3	500N	70	200N
11	A7P001C3	500N	<20	200N
12	A7P002C3	500N	1500	200N
13	A7P005C3	500N	>2000	200N
14	A7P006C3	500N	1000	200N
15	A8P001C3	500N	1500	200N
16	A8P005C3	500N	>2000	200N
17	A8P008C3	500N	2000	200N
18	A8P010C3	500N	>2000	200N
19	B1P001C3	500N	200	200N
20	B1P002C3	500N	1500	200N
21	B1P003C3	500N	2000	200N
22	B1P005C3	500N	>2000	200N
23	B1P007C3	500N	>2000	200N
24	B2P001C3	500N	150	200N
25	B2P004C3	500N	300	200N
26	B2P005C3	500N	300	200N
27	B3P003C3	500N	1000	200N
28	B3P004C3	500N	700	200N
29	B3P007C3	500N	>2000	200N
30	B4P001C3	500N	>2000	200N
31	B4P004C3	500N	1500	200N
32	B4P006C3	500N	>2000	200N
33	B4P007C3	500N	>2000	200N
34	B4P008C3	500N	>2000	200N
35	B5P002C3	500N	70	200N
36	B5P007C3	500N	>2000	200N
37	B6P002C3	500N	>2000	200N
38	B6P003C3	500N	>2000	200N
39	B7P001C3	500N	>2000	200N
40	B7P002C3	500N	>2000	200N
41	B7P003C3	500N	2000	200N
42	B7P004C3	500N	500	200N
43	B7P005C3	500N	300	200N
44	B7P006C3	500N	1500	200N
45	B7P007C3	500N	2000	200N
46	B7P008C3	500N	1500	200N
47	B7P009C3	500N	>2000	200N
48	B8P008C3	500N	>2000	200N
49	C1P001C3	500N	200	200N
50	C1P002C3	500N	2000	200N
51	C1P003C3	500N	>2000	200N
52	C1P005C3	500N	2000	200N
53	C1P006C3	500N	500	200N
54	C1P008C3	500N	100	200N
55	C2P002C3	--	--	--
56	C3P001C3	500N	1000	200N
57	C3P002C3	500N	2000	200N
58	C3P003C3	500N	300	200N
59	C3P006C3	500N	300	200N
60	C3P011C3	500N	500	200N

Table 6. Results of analyses of nonmagnetic panned-concentrate samples - continued.

SAMPLE #	Zn s	Zr s	Th s
61 C3P012C3	500N	150	200N
62 C3P016C3	500N	>2000	200N
63 C3P017C3	500N	500	200N
64 C4P002C3	--	--	--
65 C4P003C3	1000N	>5000	500N
66 C4P005C3	--	--	--
67 C4P006C3	500N	>2000	200N
68 C5P003C3	500N	>2000	200N
69 C5P007C3	500N	>2000	200N
70 C7P003C3	500N	1500	200N
71 C8P001C3	500N	>2000	200N
72 C8P003C3	500N	70	200N
73 C8P005C3	500N	>2000	200N
74 C8P007C3	500N	>2000	200N
75 D1P001C3	500N	>2000	200N
76 D1P002C3	500N	>2000	200N
77 D2P001C3	500N	>2000	200N
78 D2P002C3	500N	>2000	200N
79 D3P001C3	500N	200	200N
80 D3P003C3	500N	300	200N
81 D3P004C3	500N	1500	200N
82 D4P001C3	500N	>2000	200N
83 D4P003C3	500N	2000	200N
84 D4P005C3	500N	>2000	200N
85 D5P004C3	500N	>2000	200N
86 D5P005C3	500N	>2000	200N
87 D5P007C3	500N	>2000	200N
88 D6P004C3	500N	200	200N
89 D6P006C3	500N	>2000	200N
90 D7P001C3	500N	300	200N
91 D7P004C3	500N	500	200N