U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Analytical results of rock samples from the Livengood 1° X 3° quadrangle, Alaska

By

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(Plates are in pocket)

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STUDIES RELATED TO AMRAP

The U.S. Geological Survey is required by the Alaskan National Interests Lands Conservation Act (Public Law 96-487, 1980) to survey certain Federal lands to determine their mineral values. Results from the Alaskan Mineral Resource Assessment Program (AMRAP) must be made available to the public and be submitted to the President and Congress. This report presents analytical results of a geochemical survey of the Livengood 1^{o} X 3^{o} degree quadrangle, Alaska. The data contained in this report are also available in digital format.

INTRODUCTION

In 1986-1988 the U.S. Geological Survey conducted a reconnaissance geochemical survey of the Livengood 1^{o} X 3^{o} degree quadrangle, Alaska (Figure 1).

The Livengood quadrangle is in east-central Alaska from 65 to 66 degrees north latitude, and from 147 to 150 degrees west longitude. The quadrangle is approximately 5570 sq mi (14,400 sq km) in area. The Elliott Highway traverses the quadrangle in an arch from the southwest to the southeast passing approximately through the quadrangle center. The Dalton Highway crosses the quadrangle from the northwest to about the quadrangle center. The Steese Highway crosses the southeastern corner of the quadrangle from southwest to northeast. The topographic relief of the quadrangle is about 4,500 ft (1400 m). A maximum elevation of 4,772 ft (1455 m) occurs at Cache Mountain. The White Mountains form a topographic high in the east and are drained by Beaver Creek to the south, west, and north. The west side of the quadrangle is drained by the Yukon and Tolovana Rivers. The climate is arid to semi-arid. Tundra and permafrost prohibit ground-water seepage and enhance surface runoff.

GENERALIZED GEOLOGY

The Livengood quadrangle predominantly consists of northeast trending, Precambrian, Paleozoic, and Mesozoic sedimentary and metasedimentary rocks within the northwest Yukon-Tanana Upland (Wahrhaftig, 1965)(Figure 2). The Upland is a metamorphic terrane composed of quartzitic, pelitic, calcareous, and volcaniclastic metasedimentary and metamorphosed mafic and felsic igneous plutonic rocks that are intruded by Mesozoic and Cenozoic granitic rocks and minor intermediate and mafic rocks (Chapman and others, 1971). Quaternary loess blankets much of the southern third of the quadrangle, and alluvial deposits fill the major drainages. Outcrops are scarce throughout the quadrangle except in areas of high relief. The following summary of the Livengood quadrangle geology is derived from the geologic base map compiled during an AMRAP study of the quadrangle (Weber et al., 1992).

The quadrangle lies within a structurally deformed block between the Tintina fault system to the north and the Denali fault system to the south. The dominant structural orientation is northeast-southwest. The major faults are thrusts and strike-slip splays of the Tintina fault zone. Two of these faults, the Victoria Creek and Beaver Creek faults, divide the quadrangle into three unique rock assemblages.

The rocks north of the Victoria Creek fault belong mostly to the Rampart group. The Rampart group includes Mississippian to Triassic ocean basin rocks, mafic igneous rocks, and associated argillite, chert, graywacke, shale, and limestone. The Precambrian and Paleozoic sedimentary rocks in the northeastern part of the quadrangle are remnants of ancestral North America, and are predominantly grit, phyllite, quartzite, slate, and limestone.

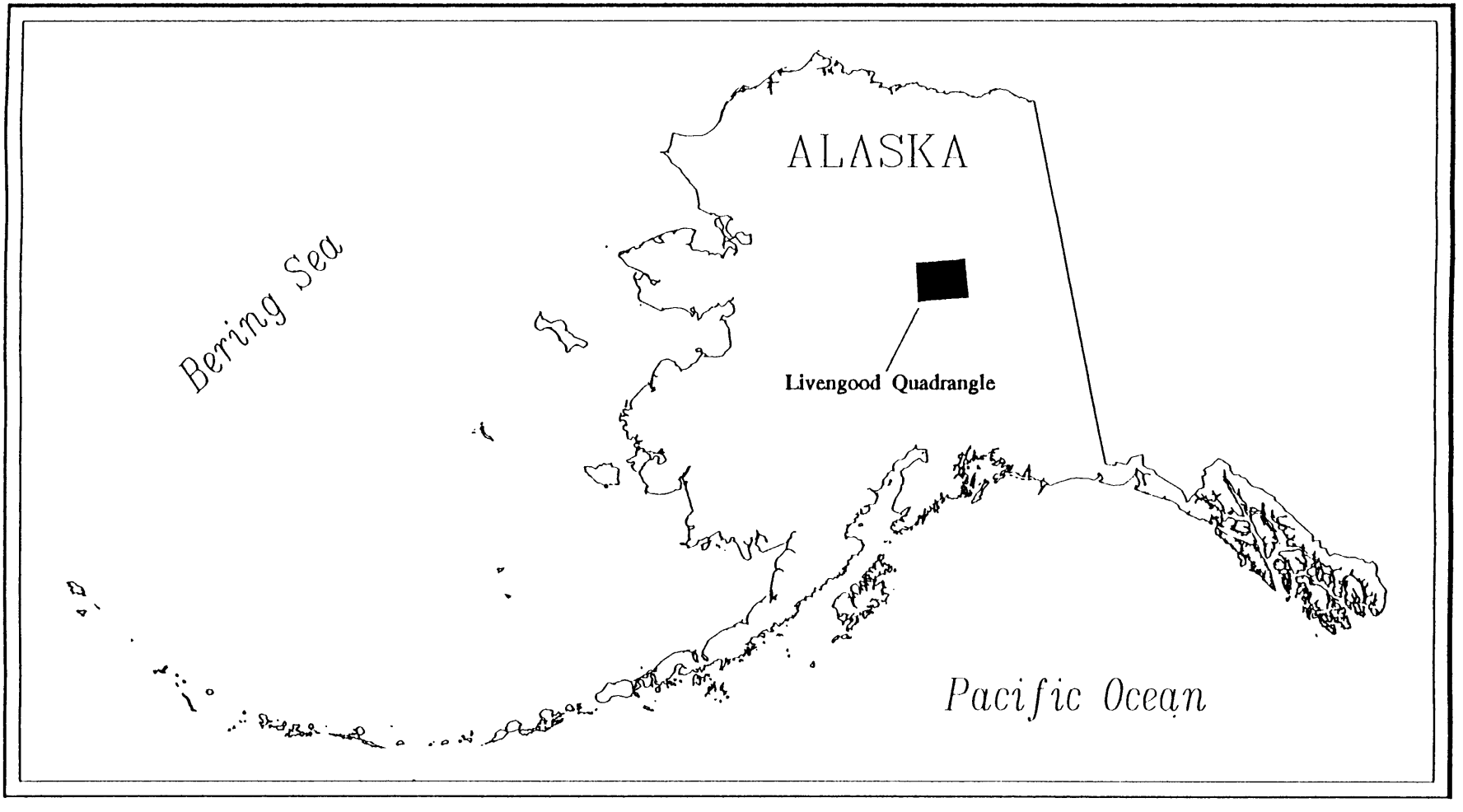

Figure 1: Livengood quadrangle location map.

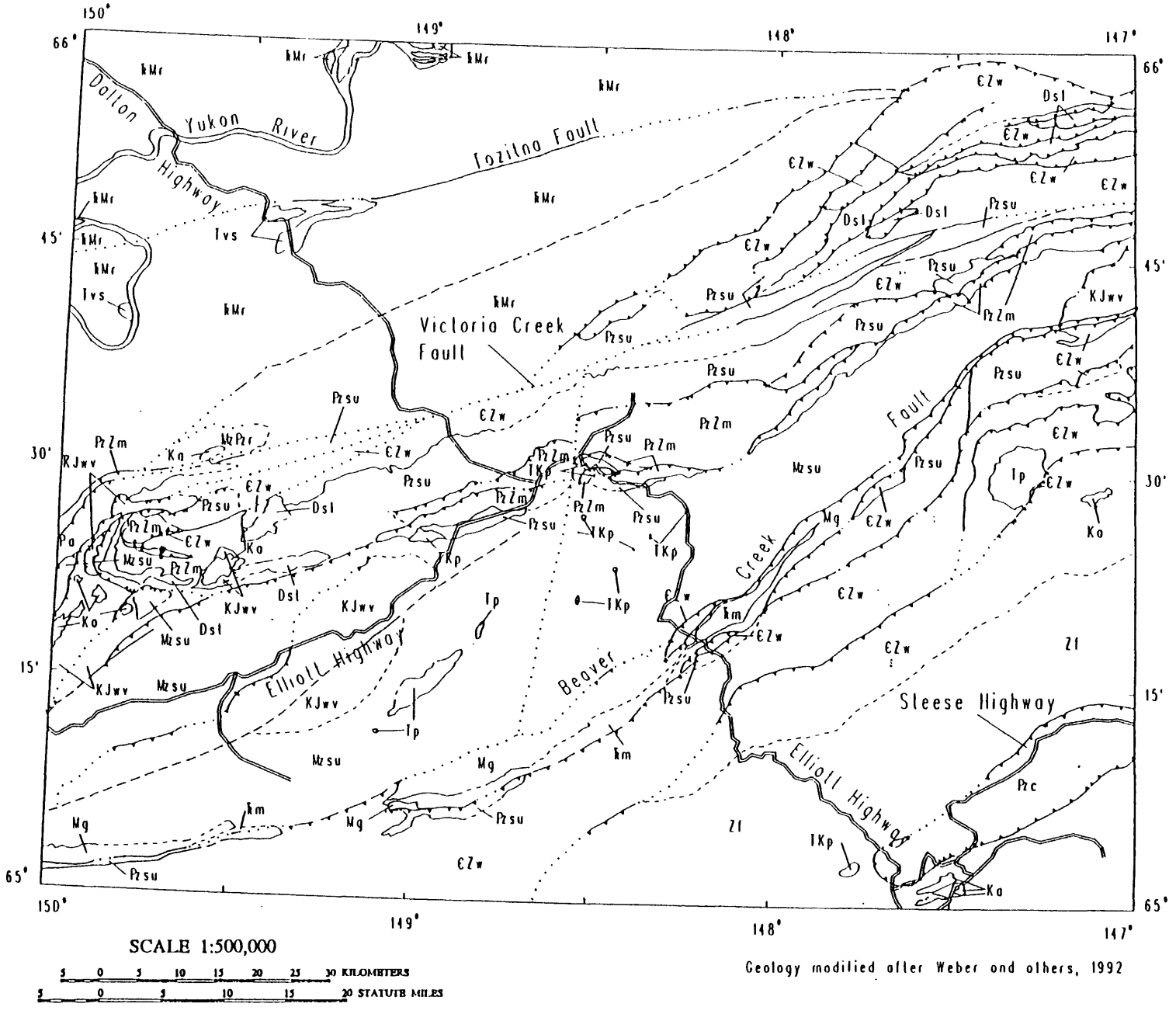

Figure 2a: Generalized geology of Livengood quadrangle.

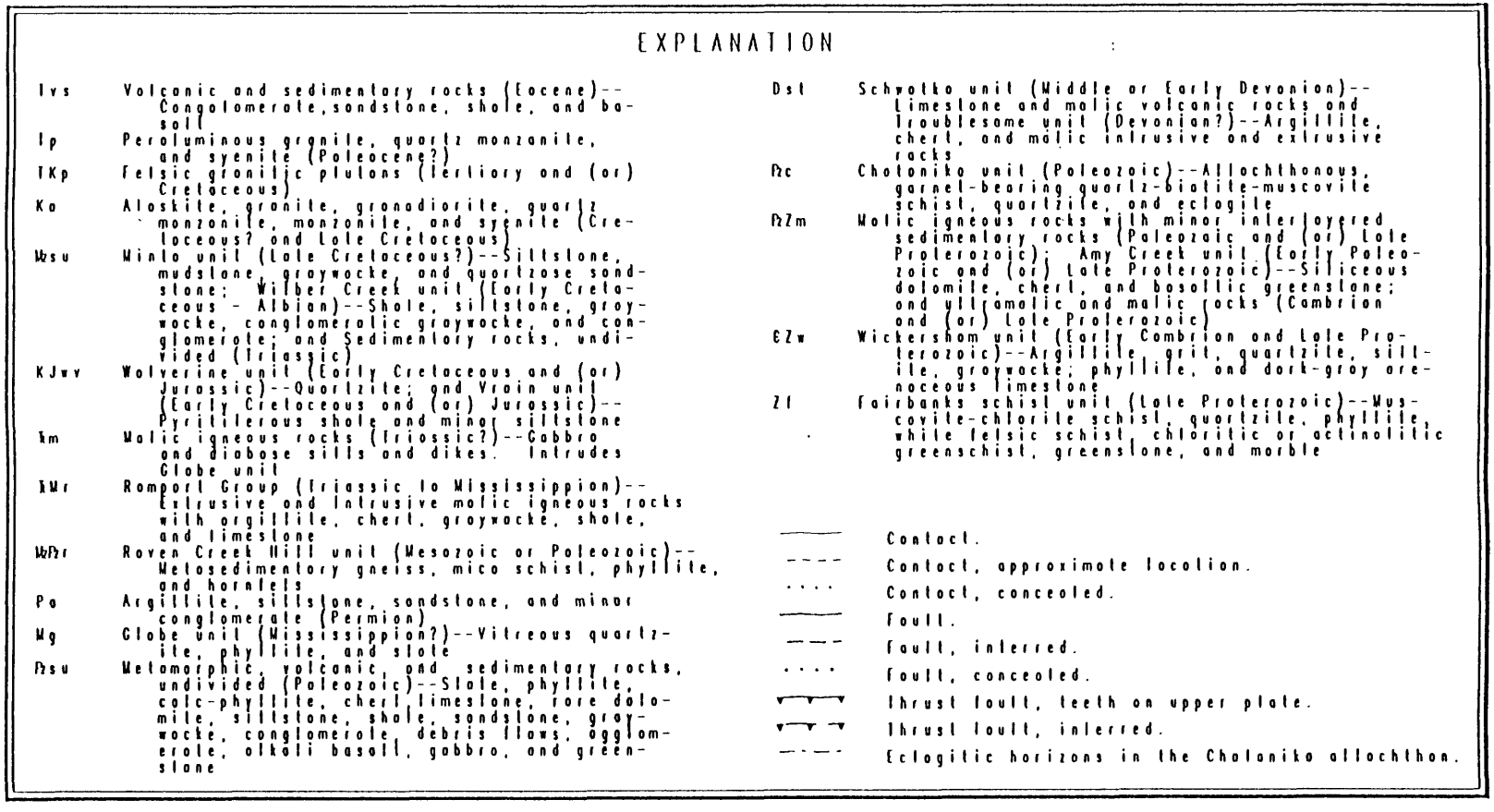

Figure 2b: Map unit explanation.

The rocks between the Victoria and Beaver Creek faults are mostly Cretaceous turbidites of the Wilber Creek unit, and represent the remains of a Mesozoic flysch basin. Precambrian and Paleozoic chert, dolomite, shale, argillite, and associated Precambrian and Cambrian mafic and ultramafic rocks also crop out in this region and may be a remnant of ancestral North America.

Precambrian and Paleozoic metamorphic and sedimentary rocks underlie the area south of the Beaver Creek fault. The Fairbanks schist is the dominant unit and consists of greenschist facies muscovite-chlorite schist, quartzite, and phyllite. The Fairbanks schist is the metamorphic core of the Yukon-Tanana Upland. The overlying Precambrian and Paleozoic sedimentary rocks are predominantly argillite, grit, quartzite, graywacke, limestone, phyllite, and slate.

METHODS OF STUDY

Sample Collection

Rock samples were collected at 1844 sites (Plates 1-4). The average sampling density was about one sample per 3 square miles. No samples were collected in the inch-to-mile scale quadrangles A-4 and D-4 because of the lack of outcrop exposure in the Yukon and Minto flats. On plates 1-4, the sample locations are labeled. Where samples were collected too close together to be differentiated at the map scale, the sample labels were separated by a slash and assigned to a single map location. In such cases, if labels share the same prefix, only the first label at a location retains the prefix and subsequent entries consist only of their unique label parts, for example, 88KW028/048B/67CH271/272/275. Continuous sequences of labels are shown with hyphens, for example, LA1062R1-7.

Sample Media

Samples of both unaltered and altered and/or mineralized rocks were collected where possible. Rock samples were crushed and pulverized to minus 0.15 mm with ceramic plates.

Analyses of unaltered, unmineralized rock samples provide background geochemical data for individual rock units. Analyses of altered or mineralized rocks may provide useful geochemical information about the major- and trace-element assemblages associated with mineralized systems.

Sample Analysis

Direct-current arc emission spectrographic method:

The rock samples were analyzed for 35 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements determined and their lower limits of determination are listed in Table 1. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, etcetera. 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 major element concentrations (calcium, iron, magnesium, phosphorous, sodium, and titanium) are given in weight percent; all other concentrations are given in parts per million (ppm, or micrograms/gram). Spectrographic data for rock samples from the Livengood quadrangle are listed in Table 6 .

Atomic absorption spectrometric method:

The samples were analyzed using an atomic absorption spectrometric method (O'Leary and Viets, 1986) by F. W. Tippitt, R. J. Fairfield, and Z. A. Brown. The elements determined and the corresponding lower limits of determination are listed in Table 2. Results of these analyses are listed in Tables 6 and 9.

Inductively coupled plasma-atomic emission spectrometric (ICP-AES) method:

A subset of the total samples were analyzed for 40 elements using inductively coupled plasma-atomic emission spectrometrometry (Briggs, 1990, p. 83-91; Lichte et al., 1987, p. B1-B10). The elements analyzed and the limits of determination are listed in Table 3; results of these analyses are listed in Table 7. Some samples were analyzed for major element oxides using the ICP-AES method described by Jackson et al. (1987, p. G1-23). These data are listed in Table 10.

X-ray fluorescence spectrometric methods:

Major oxides were determined for 108 samples using a wavelength dispersive x-ray fluorescence spectrometric method (Taggart et al., 1990, p. 166-172; Taggart et al., 1987, p. E1-E19). Oxides determined and the limits of determination are listed in Table 4. Data are listed in Table 8.

Energy dispersive x-ray fluorescence spectrometric analyses were performed on 22 samples for 12 elements (Nb, Rb, Sr, Zr, Y, Ba, Ce, La, Cu, Ni, Zn, and Cr). The limits of determination for these elements are listed in Table 5; data are listed in Table 9.

Miscellaneous methods:

Potentiometric titration analysis of FeO and coulometric titration analysis of CO_2 were performed on 17 samples. These methods are described in Arbogast (1990, p. 68-72, 139-145). Analytical results are listed in Table 10.

H_2O- was determined on 17 samples by the weight loss of the samples at 110°C. H_2O+ was calculated as the difference between total water, previously determined by Karl Fischer titration (Norton and Papp, 1990, pp 73-82), and the H_2O- concentration. These data are listed in Table 10.

ROCK ANALYSIS STORAGE SYSTEM

Analytical results were entered into a computer-based file called the Rock Analysis Storage System (RASS). The data base contains descriptive geological information and analytical data. All or a portion of the data base may be retrieved and converted to a binary form (STATPAC) for computerized analysis or publication (VanTrump and Miesch, 1977).

DESCRIPTION OF DATA TABLES

Tables 6-10 list the results of analyses of the rock samples. The USGS-assigned sample labels are listed in column one of the tables. The sample numbers correspond to the labels shown on the sample location maps (Plates 1-4). Column headings in which the letter "s" is listed below the element symbol indicates data produced by the emission spectrographic method; "aa" indicates atomic absorption analyses; "edxrf" indicates energy dispersive x-ray fluorescence spectrometric analyses; "i" indicates inductively coupled plasma-atomic emission spectrometric analyses; "t" indicates potentiometric titration analyses; "dif" indicates difference calculation between total water, previously determined by Karl Fischer titration, and the H_2O- concentration; "wl" indicates weight loss of sample at 110°C; and "c" indicates coulometric titration analyses. The letter "N" in the tables indicates that a given element was not detected at the lower limit of determination listed for that element in Tables 1-5. If an element was detected but the concentration was below the lowest reporting value, a "less than" symbol (<) occurs in the table in front of the lower limit of determination for that element. The symbols "N" and the "less than" symbol (<) are not distinguished in ICP and XRF analyses. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) occurs in front of the upper limit of determination. The symbol "--" indicates the element was excluded from the analyses. Table 6 lists the general rock types according to RASS code. Rock types corresponding to the code numbers designated in the rock code column of Table 6 are:

Rock Type			
11	unidentified rock	24	schist
12	sedimentary rock	25	quartzite
13	metamorphic rock	28	phyllite or slate
14	igneous rock	29	felsic igneous
16	conglomerate	30	intermediate igneous
17	sandstone	31	mafic igneous
18	siltstone	32	ultramafic igneous
19	claystone	34	chert or jasperoid
20	shale	35	other
21	limestone or dolomite		

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TABLE 1: Limits of determination for the spectrographic analysis of rock samples based on a 10 mg sample.
(Lower determination limit - LDL; Upper determination limit - UDL)

Element	LDL (%)	UDL (%)
Calcium (Ca)	0.05	20
Iron (Fe)	0.05	20
Magnesium (Mg)	0.02	10
Sodium (Na)	0.2	5
Phosphorous (P)	0.2	10
Titanium (Ti)	0.002	1
	(PPM)	(PPM)
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)	5 or 10	2,000
Chromium (Cr)	10	5,000
Copper (Cu)	5	20,000
Gallium (Ga)	5	500
Germanium (Ge)	10	100
Lanthanum (La)	20 or 50	1,000
Manganese (Mn)	10	5,000
Molybdenum (Mo)	5	2,000
Niobium (Nb)	20	2,000
Nickel (Ni)	5	5,000
Lead (Pb)	100	10,000
Scandium (Sc)	5	100
Tin (Sn)	10	1,000
Strontium (Sr)	100	5,000
Thorium (Th)	100	2,000
Vanadium (V)	10	10,000
Tungsten (W)	20 or 50	10,000
Yttrium (Y)	10	2,000
Zinc (Zn)	200	10,000
Zirconium (Zr)	10	1,000

Table 2: Determination limits for elements analyzed using atomic absorption spectrometry (in PPM).
(Lower determination limit - LDL; Upper determination limit - UDL)

Element	LDL	UDL
Arsenic (As)	10	2,000
Gold (Au)	.005	
Bismuth (Bi)	1	1,000
Cadmium (Cd)	0.1	100
Copper (Cu)	5	1,000
Lead (Pb)	5	1,000
Antimony (Sb)	2	1,000
Zinc (Zn)	5	2,000

Table 3: Determination limits for elements determined using inductively coupled plasma-atomic emission spectrometry
(Lower determination limit - LDL)

Element	LDL
	(%)
Aluminum (Al)	0.005
Calcium (Ca)	0.005
Iron (Fe)	0.005
Magnesium (Mg)	0.005
Potasium (K)	0.05
Sodium (Na)	0.005
Phosphorous (P)	0.005
Titanium (Ti)	0.005
	(PPM)
Silver (Ag)	2
Arsenic (As)	10
Gold (Au)	8
Boron (B)	10
Barium (Ba)	1
Beryllium (Be)	1
Bismuth (Bi)	10
Cadmium (Cd)	2
Cerium (Ce)	4
Cobalt (Co)	1
Chromium (Cr)	1
Copper (Cu)	1
Europium (Eu)	2
Gallium (Ga)	4
Lanthanum (La)	2
Lithium (Li)	2
Manganese (Mn)	4
Molybdenum (Mo)	2
Niobium (Nb)	4
Neodymium (Nd)	4
Nickel (Ni)	2
Lead (Pb)	4
Scandium (Sc)	2
Tin (Sn)	10
Strontium (Sr)	2
Tantalum (Ta)	40
Thorium (Th)	4
Uranium (U)	100
Vanadium (V)	2
Yttrium (Y)	2
Ytterbium (Yb)	1
Zinc (Zn)	2

Table 4: Concentration ranges for oxides determined using wavelength dispersive X-ray flourescence spectrometry

Oxides	LDL (%)	UDL (%)
SiO_2	0.10	99.0
Al_2O_3	0.10	28.0
Fe_2O_3	0.04	28.0
MgO	0.10	60.0
CaO	0.02	60.0
Na_2O	0.15	30.0
K_2O	0.02	30.0
TiO_2	0.02	10.0
P_2O_5	0.01	15.0

Table 5: Determination limits for elements determined using energy-dispersive X-ray fluorescence spectrometry (in PPM)

(Lower determination limit - LDL; Upper determination limit - UDL)

Element	LDL	UDL
Barium (Ba)	5	4,000
Cerium (Ce)	5	500
Chromium (Cr)	20	4,000
Copper (Cu)	2	1,000
Lanthanum (La)	2	
Niobium (Nb)	10	500
Nickel (Ni)	5	
Rubidium (Rb)	2	2,000
Strontium (Sr)	2	2,000
Yttrium (Y)	2	500
Zinc (Zn)	2	1,000
Zirconium (Zr)	2	

Table 6: Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
51CC5	F-003567	65 22 32	149 31 24	14	1	5	2	5	<0.2	0.2	3	N	N	10	1500	<1	N	N	15	20	30	30	N
51CH200	D-320141	65 22 18	149 32 00	14	2	5	2	2	<0.2	0.7	N	<200	N	15	2000	3	N	N	30	200	50	30	N
51CH201	D-320142	65 22 08	149 32 07	14	0.05	1.5	0.3	<0.2	<0.2	0.5	<0.5	700	N	200	1000	1	N	N	N	150	30	15	N
51CH203	F-003568	65 21 40	149 32 18	13	0.05	5	1	1.5	<0.2	0.3	N	N	N	150	1000	<1	N	N	10	150	10	20	N
51CH204	F-003569	65 22 00	149 32 15	12	0.7	15	<0.02	N	N	0.005	N	>10000	N	N	20	<1	100	N	<10	N	10	10	N
51CH205	D-320143	65 21 50	149 32 15	14	0.7	0.7	0.1	3	N	0.07	2	N	N	15	300	5	N	N	N	<10	15	100	N
51CH207	D-320144	65 23 08	149 30 42	14	5	5	3	2	<0.2	0.7	N	N	N	N	2000	1.5	N	N	30	300	30	30	N
51CH208	D-320145	65 22 18	149 32 10	14	0.15	10	0.15	N	N	0.05	7	>10000	30	N	1000	<1	70	N	20	10	500	10	N
51CH212	F-003570	65 22 32	149 31 27	12	<0.05	10	0.2	N	N	0.7	30	>10000	50	20	500	<1	N	N	70	150	150	10	<10
51CH213	D-320147	65 22 32	149 31 27	14	0.1	0.5	0.2	N	N	0.15	2	7000	N	30	500	<1	N	N	N	20	30	<5	N
51CH215	F-003571	65 22 32	149 31 27	14	1	10	5	1	1	0.7	N	200	N	N	2000	N	N	N	100	100	100	20	N
51CH216	F-003572	65 22 32	149 31 27	12	0.2	0.5	0.3	N	0.5	0.2	N	500	N	15	1000	N	N	N	<10	30	10	<5	N
51CH217	F-003573	65 23 08	149 30 40	12	0.05	5	0.7	1	<0.2	0.15	N	<200	N	15	50	N	N	N	<10	70	15	7	N
62CH087	F-003574	65 20 04	149 04 50	12	0.1	7	2	3	<0.2	0.2	N	N	N	20	500	<1	N	N	20	100	70	15	N
62CH193	ERV189	65 17 09	147 08 15	11	<0.05	1.5	0.2	--	--	0.15	N	N	N	10	200	1	N	N	7	30	10	--	--
62CH194	ERV190	65 16 55	147 10 50	11	<0.05	1	0.2	--	--	0.1	N	N	N	20	200	N	N	N	5	20	7	--	--
62TB010	D-320135	65 31 52	148 30 01	13	0.15	5	5	N	N	<0.002	N	N	N	N	150	<1	N	N	30	1500	15	N	N
62TB011D	F-003575	65 31 04	148 29 14	13	0.07	5	7	N	N	0.002	N	<200	N	10	20	N	N	N	70	1500	70	<5	N
62TB146A	F-004042	65 13 57	149 09 10	12	0.2	1	0.3	<0.2	0.5	0.15	N	N	N	50	150	N	N	N	N	700	10	<5	N
62TB146B	F-004043	65 13 57	149 09 10	12	0.2	1.5	1	0.3	0.3	0.2	N	N	N	70	300	N	N	N	N	500	20	<5	N
62TB148A	F-004044	65 14 18	149 09 11	14	2	10	3	2	0.2	>1	<0.5	N	N	500	5000	<1	N	N	50	200	500	50	N
62TB322	CHJ230	65 23 46	147 37 38	11	1	1.5	0.7	--	--	0.5	N	N	N	20	500	<1	N	N	N	20	5	--	--
62TB326	CHJ231	65 27 13	147 44 18	11	20	15	7	--	--	>1	N	N	N	20	50	N	N	N	50	500	150	--	--
62TB327B	CHJ232	65 30 46	147 19 56	11	2	10	1.5	--	--	1	N	N	N	<10	500	2	N	N	7	70	<5	--	--
65WR131B	CHJ235	65 40 38	147 38 40	11	20	15	5	--	--	1	N	N	N	N	300	N	N	N	30	50	100	--	--
65WR131C	CHJ236	65 40 38	147 38 40	11	<0.05	10	>10	--	--	0.005	N	N	N	30	N	N	N	N	100	1000	<5	--	--
67CH065	ERV183	65 27 15	147 01 45	11	0.3	3	0.5	--	--	0.2	N	N	N	20	200	N	N	N	5	30	7	--	--
67CH260	ERV238	65 15 30	147 20 50	11	0.07	1.5	0.7	--	--	0.1	N	N	N	20	500	<1	N	N	N	70	10	--	--
67CH261	ERV239	65 18 35	147 06 15	11	0.1	0.5	0.2	--	--	0.1	N	N	N	10	200	<1	N	N	N	50	<5	--	--
67CH263	ERV182	65 24 30	147 01 40	11	2	10	2	--	--	0.5	N	N	N	N	150	N	N	N	30	50	50	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
51CC5	<50	1000	N	N	10	50	N	10	N	500	N	70	N	15	N	100	--	N	N	N	N	80
51CH200	50	700	<5	<20	30	30	<100	15	N	700	N	100	N	30	<200	150	--	70	N	0.1	4	20
51CH201	<50	20	N	<20	20	30	<100	10	N	N	N	200	N	20	N	150	<0.05	330	N	0.2	16	25
51CH203	<50	500	N	N	70	<10	N	15	N	N	N	200	N	20	<200	150	--	90	N	0.1	6	40
51CH204	N	20	N	N	<5	100	700	N	N	200	N	20	N	20	N	N	--	>2000	150	0.9	840	10
51CH205	N	200	N	20	5	300	N	<5	<10	200	N	15	N	15	N	150	N	40	N	0.1	10	15
51CH207	50	700	N	<20	50	30	N	20	N	500	N	150	N	30	<200	200	--	20	N	0.1	6	50
51CH208	<50	30	N	N	7	500	>10000	5	N	N	N	30	N	10	500	<10	1.3	>2000	50	1.8	>1000	N
51CH212	50	10	N	N	100	N	2000	10	N	N	N	300	150	30	N	<10	--	>2000	N	0.8	>1000	50
51CH213	<50	15	15	<20	10	<10	1500	5	N	N	N	300	N	15	N	70	2.7	>2000	N	N	750	15
51CH215	<50	1000	N	N	200	<10	200	20	N	300	N	200	N	30	300	<10	--	440	N	0.4	160	400
51CH216	70	200	N	N	100	<10	<100	N	N	N	N	150	N	15	N	300	--	530	N	N	42	70
51CH217	N	50	N	N	30	<10	N	5	N	N	N	100	N	10	N	100	--	150	N	N	16	45
62CH087	N	1000	N	N	50	10	N	15	N	N	N	150	N	20	N	70	--	60	N	0.1	6	75
62CH193	<20	100	N	N	20	<10	N	5	N	N	N	30	N	10	N	150	--	N	N	0.1	N	40
62CH194	N	100	N	N	15	<10	N	<5	N	N	N	20	N	<10	N	150	--	N	N	0.1	N	25
62TB010	N	1000	N	N	300	<10	N	7	N	N	N	30	N	N	N	<10	--	10	N	0.5	6	35
62TB011D	N	1000	N	N	1000	<10	N	5	N	N	N	15	N	N	N	N	--	440	N	5.4	10	25
62TB146A	50	150	N	N	30	<10	N	7	N	<100	N	50	N	20	N	500	N	N	N	N	N	40
62TB146B	N	200	N	N	15	N	N	5	N	N	N	50	N	20	N	500	N	N	N	N	N	30
62TB148A	70	1500	N	20	70	N	N	30	N	300	N	150	N	50	<200	150	N	N	N	0.2	N	85
62TB322	N	700	N	N	10	20	N	5	N	<100	N	50	N	10	<200	300	--	--	--	--	--	--
62TB326	20	2000	N	20	100	10	N	50	N	2000	N	300	N	30	200	150	--	--	--	--	--	--
62TB327B	700	2000	<5	20	N	30	N	30	N	N	N	100	N	300	N	1000	--	--	--	--	--	--
65WR131B	N	2000	N	N	20	N	N	50	N	500	N	500	N	50	N	70	--	--	--	--	--	--
65WR131C	N	700	N	N	5000	N	N	5	N	N	N	20	N	N	N	N	--	--	--	--	--	--
67CH065	30	300	N	N	20	<10	N	5	N	N	N	30	N	20	N	300	--	N	N	0.1	N	30
67CH260	N	150	N	N	5	10	N	5	N	<100	N	50	N	<10	N	150	--	N	N	N	N	10
67CH261	N	100	N	N	5	<10	N	<5	N	N	N	20	N	<10	N	100	--	N	N	N	N	10
67CH263	20	500	N	N	50	10	N	15	N	300	N	100	N	15	N	70	--	N	N	0.2	N	65

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
67CH264	ERV191	65 25 00	147 04 20	11	0.07	0.7	0.1	--	--	0.1	N	N	N	15	50	N	N	N	<5	15	5	--	--
67CH266	ERV192	65 29 05	147 00 30	11	<0.05	1	0.15	--	--	0.05	N	N	N	10	50	N	N	N	5	<10	<5	--	--
67CH267	ERV184	65 30 25	147 00 10	11	0.3	2	0.1	--	--	0.1	N	N	N	10	100	N	N	N	N	10	<5	--	--
67CH268	ERV185	65 28 30	147 05 40	11	0.05	5	1	--	--	0.3	N	N	N	70	500	1	N	N	10	100	20	--	--
67CH269	ERV241	65 26 35	147 10 15	11	0.05	2	1	--	--	0.15	N	N	N	30	200	<1	N	N	5	50	10	--	--
67CH270	ERV242	65 28 30	147 18 20	11	0.5	0.5	0.15	--	--	0.05	N	N	N	15	200	3	N	N	N	N	<5	--	--
67CH270A	ERV243	65 28 30	147 18 20	11	0.7	0.7	0.15	--	--	0.07	N	N	N	150	200	2	N	N	<5	N	<5	--	--
67CH271	ERV186	65 28 40	147 17 25	11	0.2	3	0.7	--	--	0.15	N	N	N	<10	50	<1	N	N	7	15	10	--	--
67CH272	ERV187	65 28 40	147 17 25	11	0.5	2	0.05	--	--	0.07	N	N	N	15	200	3	N	N	N	N	<5	--	--
67CH273	ERV188	65 25 40	147 20 12	11	0.05	0.5	0.07	--	--	0.05	N	N	N	20	150	<1	N	N	<5	<10	N	--	--
68CH250	ERV172	65 35 32	147 01 10	11	<0.05	3	0.7	--	--	0.2	N	N	N	50	200	<1	N	N	5	30	15	--	--
68CH251	ERV173	65 36 00	147 03 10	11	0.07	2	0.5	--	--	0.15	N	N	N	30	200	<1	N	N	<5	20	10	--	--
68CH252	ERV174	65 36 10	147 04 50	11	3	10	7	--	--	0.5	N	N	N	20	300	1	N	N	50	500	150	--	--
68CH253	ERV175	65 36 05	147 04 40	11	5	10	3	--	--	1	N	N	N	20	700	N	N	N	50	70	150	--	--
68CH254	ERV176	65 36 15	147 06 00	11	<0.05	3	0.5	--	--	0.15	N	N	N	20	300	<1	N	N	5	20	10	--	--
68CH255	ERV177	65 33 10	147 08 20	11	0.3	5	0.7	--	--	0.3	N	N	N	30	300	<1	N	N	10	30	15	--	--
68CH256	ERV178	65 33 55	147 08 30	11	5	3	0.7	--	--	0.15	N	N	N	50	200	N	N	N	15	50	30	--	--
68CH257	ERV179	65 34 05	147 08 50	11	0.05	5	1	--	--	0.3	N	N	N	150	500	<1	N	N	20	70	20	--	--
68CH261	ERV194	65 36 25	147 08 15	11	3	5	3	--	--	0.3	N	N	N	<10	50	N	N	N	30	150	50	--	--
68CH262	ERV195	65 36 30	147 08 20	11	0.3	2	0.2	--	--	0.1	N	N	N	30	150	<1	N	N	10	20	10	--	--
68CH263	ERV196	65 36 40	147 08 25	11	3	3	2	--	--	0.5	N	N	N	15	1500	1	N	N	15	20	30	--	--
68CH281	ERV197	65 37 00	147 22 05	11	3	5	2	--	--	0.5	N	N	N	10	1000	N	N	N	20	70	20	--	--
68CH282	ERV198	65 37 00	147 22 05	11	5	7	2	--	--	0.7	N	N	N	N	1000	N	N	N	30	300	20	--	--
68CH284	ERV200	65 36 50	147 22 25	11	0.1	1	0.05	--	--	0.02	0.7	N	N	15	>5000	<1	N	N	N	15	50	--	--
68CH285	ERV201	65 37 40	147 29 59	11	0.7	5	1	--	--	0.2	N	N	N	10	200	<1	N	N	10	<10	15	--	--
68CH286	ERV295	65 38 10	147 28 00	11	>20	1.5	0.5	--	--	0.1	N	N	N	N	100	N	N	N	5	30	7	--	--
68CH287	ERV296	65 38 10	147 28 00	11	2	7	2	--	--	0.7	N	N	N	10	1500	N	N	N	50	300	50	--	--
68CH288	ERV297	65 30 40	147 32 30	11	>20	0.05	1	--	--	0.01	<0.5	N	N	N	20	N	N	N	N	<10	10	--	--
68CH289	ERV298	65 30 40	147 32 30	11	3	5	1.5	--	--	0.5	N	N	N	15	20	N	N	N	20	200	30	--	--
68CH290	ERV299	65 30 40	147 32 30	11	10	<0.05	7	--	--	<0.002	N	N	N	N	N	N	N	N	N	N	7	--	--
68CH291	ERV300	65 30 40	147 32 30	11	20	0.05	0.5	--	--	0.01	N	N	N	N	N	N	N	N	N	<10	<5	--	--
68CH292	ERV301	65 31 55	147 32 10	11	2	7	2	--	--	0.5	N	N	N	10	500	N	N	N	30	200	50	--	--
68CH293	ERV199	65 36 42	147 23 30	11	0.05	5	1	--	--	0.5	N	N	N	100	700	1	N	N	7	50	20	--	--
68CH294	ERV227	65 31 55	147 32 10	11	20	5	1.5	--	--	0.2	N	N	N	<10	70	N	N	N	5	70	15	--	--
68CH295	ERV228	65 31 55	147 32 10	11	>20	1	1	--	--	0.07	N	N	N	N	70	N	N	N	N	50	5	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
67CH264	N	200	N	N	<5	<10	N	<5	N	N	N	20	N	10	N	300	--	N	N	N	N	10
67CH266	N	100	N	N	20	N	N	N	N	N	N	10	N	<10	N	50	--	N	N	N	N	75
67CH267	<20	500	N	N	7	<10	N	N	N	N	N	20	N	<10	N	100	--	N	N	0.2	N	20
67CH268	70	150	N	N	20	<10	N	15	N	<100	N	100	N	20	N	100	--	40	N	0.1	6	25
67CH269	<20	300	N	N	10	<10	N	5	N	100	N	30	N	15	N	150	--	N	N	N	N	45
67CH270	100	200	N	N	N	20	N	<5	N	<100	N	<10	N	150	N	70	--	N	<1	0.1	N	20
67CH270A	70	200	N	<20	N	30	N	5	<10	<100	N	10	N	50	N	150	--	N	N	N	N	20
67CH271	30	200	N	N	20	<10	N	5	N	100	N	30	N	15	N	200	--	N	N	0.2	N	85
67CH272	70	200	N	N	N	10	N	<5	N	N	N	<10	N	50	N	50	--	N	N	0.1	N	20
67CH273	N	200	N	N	5	<10	N	N	N	N	N	10	N	N	N	70	--	N	N	0.1	N	10
68CH250	N	150	N	N	20	<10	N	5	N	N	N	30	N	10	N	200	--	N	N	0.2	N	50
68CH251	N	200	N	N	20	<10	N	5	N	N	N	20	N	10	N	200	--	N	N	0.1	N	25
68CH252	N	1000	N	50	300	N	N	10	N	200	N	100	N	20	N	300	--	N	N	0.2	N	70
68CH253	N	1000	N	30	70	<10	N	10	N	700	N	300	N	20	N	100	--	N	N	0.2	N	95
68CH254	N	100	N	N	20	10	N	<5	N	N	N	20	N	15	N	200	--	N	N	0.1	N	20
68CH255	<20	150	N	N	20	10	N	5	N	<100	N	50	N	20	N	300	--	N	N	0.1	N	25
68CH256	50	1000	N	N	30	10	N	7	N	200	N	50	N	15	N	70	--	N	N	0.1	N	60
68CH257	70	150	N	<20	50	10	N	10	N	N	N	50	N	20	N	100	--	N	N	0.2	N	70
68CH261	20	500	N	20	100	N	N	15	N	500	N	70	N	15	N	70	--	N	N	0.1	N	50
68CH262	N	200	N	N	20	10	N	5	N	N	N	15	N	15	N	100	--	N	N	0.1	N	75
68CH263	70	700	N	20	10	<10	N	15	N	500	N	70	N	15	N	100	--	N	N	0.2	N	160
68CH281	N	500	N	<20	30	N	N	15	N	150	N	50	N	15	N	100	--	N	N	N	N	75
68CH282	N	500	N	N	50	<10	N	20	N	300	N	50	N	20	N	100	--	N	N	0.2	N	80
68CH284	N	15	20	N	100	N	N	N	N	200	N	1000	N	20	500	20	--	30	N	7.2	18	480
68CH285	70	500	N	20	5	N	N	15	N	200	N	20	N	50	N	300	--	N	N	N	N	50
68CH286	<20	500	N	N	10	N	N	7	N	300	N	50	N	15	N	20	--	N	1	0.2	N	10
68CH287	N	500	N	N	100	N	N	15	N	300	N	70	N	15	N	50	--	N	1	0.1	N	75
68CH288	N	10	N	N	<5	N	N	N	N	200	N	<10	N	N	N	N	--	N	1	0.1	N	N
68CH289	N	200	N	N	100	N	N	10	N	500	N	70	N	10	N	50	--	N	1	0.3	N	70
68CH290	N	<10	N	N	5	N	N	N	N	<100	N	<10	N	N	N	N	--	N	1	N	N	10
68CH291	N	15	N	N	<5	N	N	N	N	<100	N	<10	N	N	N	N	--	N	1	0.2	N	N
68CH292	N	500	N	N	30	N	N	20	N	700	N	100	N	10	N	50	--	N	1	0.2	N	100
68CH293	50	150	N	<20	20	15	N	10	N	N	N	50	N	20	N	150	--	N	N	0.2	N	80
68CH294	N	200	N	N	15	N	N	10	N	200	N	50	N	20	N	50	--	N	N	N	N	25
68CH295	N	200	N	N	7	N	N	10	N	300	N	20	N	20	N	30	--	N	N	N	N	5

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
68CH296	ERV303	65 31 55	147 32 10	11	>20	0.5	0.3	--	--	0.07	N	N	N	N	50	N	N	N	N	20	<5	--	--
68CH298	ERV304	65 27 50	147 38 20	11	3	10	3	--	--	0.5	N	N	N	<10	500	N	N	N	30	70	70	--	--
68CH304	ERV229	65 52 30	147 02 59	11	0.3	1	0.7	--	--	0.1	N	N	N	50	200	<1	N	N	N	70	5	--	--
68CH305	ERV305	65 52 15	147 01 50	11	0.05	5	1	--	--	0.5	N	N	N	50	500	N	N	N	10	50	20	--	--
68CH306	ERV230	65 52 00	147 01 40	11	>20	0.3	3	--	--	0.015	N	N	N	N	200	<1	N	N	N	<10	<5	--	--
68CH307	ERV231	65 51 35	147 01 20	11	5	7	2	--	--	1	N	N	N	N	100	N	N	N	20	150	20	--	--
68CH310	ERV232	65 39 45	147 24 24	11	10	5	5	--	--	0.3	10	N	N	15	300	N	N	N	30	500	30	--	--
68CH313	ERV233	65 38 30	147 28 00	11	2	5	2	--	--	0.5	N	N	N	<10	>5000	1	N	N	15	50	15	--	--
68CH314	ERV234	65 38 30	147 28 00	11	0.1	5	1	--	--	0.7	0.5	N	N	100	700	1	N	N	10	100	30	--	--
68CH315	ERV306	65 38 30	147 28 00	11	<0.05	1	0.3	--	--	0.05	N	N	N	15	300	N	N	N	N	10	15	--	--
68CH316	ERV307	65 38 30	147 28 00	11	0.5	3	1.5	--	--	0.2	N	N	N	<10	1000	N	N	N	15	100	15	--	--
68CH317	ERV308	65 25 25	147 46 00	11	>20	N	0.2	--	--	<0.002	N	N	N	N	20	N	N	N	N	N	N	--	--
68CH318	ERV309	65 25 40	147 46 00	11	>20	0.07	0.2	--	--	0.015	N	N	N	N	20	N	N	N	N	20	N	--	--
68CH319	ERV310	65 25 40	147 46 00	11	>20	0.1	0.3	--	--	0.01	N	N	N	N	100	N	N	N	N	10	N	--	--
68CH320	ERV235	65 25 50	147 46 00	11	5	7	2	--	--	1	N	N	N	10	500	N	N	N	20	100	20	--	--
68CH321	ERV236	65 26 00	147 45 00	11	0.2	5	1.5	--	--	0.2	N	N	N	150	500	1	N	N	20	100	20	--	--
68CH322	ERV180	65 26 00	147 45 00	11	1.5	10	2	--	--	0.7	N	N	N	<10	<20	N	N	N	50	50	50	--	--
68CH323	ERV181	65 27 10	147 44 10	11	2	7	0.7	--	--	0.5	N	N	N	100	200	<1	N	N	20	30	15	--	--
68CH324	ERV237	65 27 10	147 44 10	11	>20	0.05	1.5	--	--	0.003	N	N	N	N	20	N	N	N	N	N	N	--	--
68CH325	ERV311	65 23 50	147 46 10	11	0.1	7	1	--	--	0.3	N	N	N	150	300	<1	N	N	30	100	20	--	--
68CH326	ERV312	65 23 50	147 46 10	11	20	1	0.7	--	--	0.1	N	N	N	N	700	N	N	N	5	20	<5	--	--
68CH328	ERV313	65 23 55	147 47 15	11	3	10	3	--	--	0.5	N	N	N	10	3000	N	N	N	50	200	100	--	--
68CH329	ERV314	65 23 55	147 47 15	11	20	10	2	--	--	0.7	N	N	N	15	2000	N	N	N	30	30	20	--	--
68CH330	ERV315	65 23 55	147 48 20	11	<0.05	5	0.5	--	--	0.15	N	N	N	50	700	N	N	N	7	50	20	--	--
68CH331	ERV316	65 23 55	147 48 20	11	<0.05	1	0.2	--	--	0.07	N	N	N	20	700	<1	N	N	N	10	5	--	--
68CH332	ERV317	65 23 55	147 48 20	11	<0.05	2	0.5	--	--	0.2	N	N	N	50	1000	<1	N	N	7	20	20	--	--
68CH333	ERV318	65 25 55	147 41 20	11	>20	0.1	10	--	--	0.005	N	N	N	N	50	N	N	N	N	<10	<5	--	--
68CH344	ERV202	65 45 29	147 21 35	11	<0.05	5	1.5	--	--	0.3	N	N	N	50	700	1	N	N	10	50	20	--	--
68CH345	ERV193	65 45 20	147 21 30	11	2	5	2	--	--	0.5	N	N	N	N	500	<1	N	N	20	70	20	--	--
68CH346	ERV203	65 45 07	147 21 30	11	2	10	2	--	--	0.5	N	N	N	<10	700	N	N	N	30	100	30	--	--
68CH347	ERV204	65 45 07	147 21 30	11	1	10	3	--	--	0.5	N	N	N	15	500	N	N	N	50	300	50	--	--
68CH348	ERV205	65 45 07	147 21 30	11	20	0.1	10	--	--	0.02	N	N	N	N	20	N	N	N	N	<10	<5	--	--
68CH349	ERV206	65 44 55	147 21 30	11	<0.05	0.2	0.05	--	--	0.03	<0.5	N	N	15	70	N	N	N	N	10	15	--	--
68CH350	ERV207	65 44 33	147 21 20	11	<0.05	3	10	--	--	0.002	N	N	N	20	N	N	N	N	70	1500	10	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
68CH296	N	70	N	N	<5	N	N	N	N	500	N	10	N	<10	N	15	--	N	1	N	N	N
68CH298	N	500	N	N	50	N	N	20	N	300	N	100	N	20	N	70	--	N	1	0.2	N	95
68CH304	<20	300	N	N	7	N	N	7	N	<100	N	30	N	20	N	200	--	N	N	N	N	30
68CH305	20	200	N	N	30	15	N	7	N	N	N	50	N	10	N	200	--	N	1	0.1	N	60
68CH306	N	1500	N	N	<5	20	N	<5	N	1500	N	30	N	10	N	50	--	N	N	0.5	N	5
68CH307	N	1000	N	N	30	10	N	20	N	500	N	150	N	30	N	100	--	20	N	0.3	N	90
68CH310	N	1000	N	N	100	N	N	20	N	300	N	100	N	15	N	70	--	N	N	N	N	35
68CH313	30	700	N	N	15	10	N	7	N	500	N	50	N	15	N	100	--	N	N	0.3	N	155
68CH314	20	100	N	50	20	20	N	10	N	100	N	100	N	20	N	150	--	N	N	0.2	N	80
68CH315	N	20	N	N	10	N	N	<5	N	N	N	20	N	N	N	30	--	N	1	0.1	N	15
68CH316	50	200	N	N	20	10	N	10	N	100	N	50	N	20	N	100	--	N	1	0.1	N	25
68CH317	N	N	N	N	5	N	N	N	N	150	N	<10	N	N	N	N	--	N	1	N	N	5
68CH318	N	20	N	N	5	N	N	N	N	500	N	<10	N	<10	N	<10	--	N	1	N	N	N
68CH319	N	30	N	N	<5	N	N	N	N	500	N	<10	N	<10	N	10	--	N	1	N	N	20
68CH320	<20	700	N	20	30	10	N	15	N	500	N	100	N	20	N	100	--	N	N	0.3	N	80
68CH321	100	500	N	<20	20	10	N	15	N	<100	N	50	N	20	N	100	--	N	N	N	N	140
68CH322	20	1000	N	<20	50	15	N	20	N	500	N	200	N	20	<200	100	--	N	N	0.1	N	85
68CH323	30	3000	N	N	100	10	N	15	N	N	N	50	N	20	N	500	--	N	N	0.1	N	120
68CH324	N	70	N	N	N	N	N	<5	N	300	N	<10	N	N	N	<10	--	N	N	N	N	N
68CH325	70	100	N	N	50	<10	N	20	N	<100	N	70	N	20	<200	150	--	N	1	0.1	N	175
68CH326	N	5000	N	N	10	10	N	5	N	500	N	20	N	10	N	50	--	N	1	0.4	N	10
68CH328	N	500	N	N	100	N	N	20	N	500	N	100	N	15	N	50	--	N	1	0.2	N	90
68CH329	50	700	N	50	20	<10	N	10	N	700	N	100	N	20	N	100	--	N	1	0.2	N	60
68CH330	20	70	N	N	30	<10	N	7	N	N	N	70	N	10	N	150	--	10	1	0.3	N	75
68CH331	N	30	N	N	20	N	N	N	N	N	N	50	N	N	N	100	--	10	1	0.3	N	30
68CH332	50	150	N	N	20	10	N	7	N	N	N	70	N	15	N	200	--	10	1	0.4	N	65
68CH333	N	10	N	N	7	<10	N	N	N	200	N	10	N	N	N	N	--	10	1	0.2	N	15
68CH344	50	150	N	N	50	10	N	10	N	N	N	100	N	20	N	100	--	N	N	0.1	N	115
68CH345	N	700	N	N	70	<10	N	7	N	100	N	50	N	15	<200	70	--	30	N	0.5	4	190
68CH346	N	500	N	<20	70	N	N	10	N	200	N	70	N	20	N	100	--	N	N	0.1	N	130
68CH347	N	700	N	N	100	N	N	15	N	N	N	150	N	15	N	70	--	N	N	N	N	70
68CH348	N	150	N	N	N	<10	N	N	N	150	N	20	N	<10	N	<10	--	N	N	0.1	N	50
68CH349	N	20	N	N	500	<10	N	N	N	N	N	100	N	N	N	20	--	20	N	0.2	6	90
68CH350	N	300	N	N	2000	N	N	7	N	N	N	15	N	N	N	N	--	N	N	N	N	10

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
68CH351	ERV210	65 44 25	147 21 20	11	3	7	2	--	--	0.2	N	N	N	<10	150	N	N	N	20	50	30	--	--
68CH352	ERV208	65 45 45	147 21 30	11	2	10	1.5	--	--	0.5	N	N	N	<10	150	N	N	N	30	20	10	--	--
68CH353	ERV209	65 44 30	147 26 20	11	0.1	5	1.5	--	--	0.3	1	N	N	15	500	N	N	N	10	100	20	--	--
68CH354	ERV211	65 44 55	147 26 25	11	0.07	7	2	--	--	0.2	N	N	N	50	150	N	N	N	20	100	70	--	--
68CH355	ERV212	65 43 55	147 26 20	11	0.2	5	1.5	--	--	0.2	N	N	N	15	200	N	N	N	15	100	30	--	--
68CH356	ERV213	65 48 30	147 38 10	11	5	10	3	--	--	0.7	N	N	N	<10	500	N	N	N	50	200	20	--	--
68CH357	ERV214	65 49 20	147 42 25	11	>20	0.5	0.7	--	--	0.02	N	N	N	N	30	N	N	N	N	30	<5	--	--
68CH358	ERV215	65 49 50	147 42 50	11	5	10	2	--	--	0.7	N	N	N	10	1000	N	N	N	30	100	50	--	--
68CH359	ERV216	65 49 50	147 42 50	11	>20	0.07	0.3	--	--	0.002	N	N	N	N	20	N	N	N	N	N	<5	--	--
68CH360	ERV217	65 26 40	147 51 45	11	3	7	2	--	--	0.3	N	N	N	20	200	N	N	N	20	200	100	--	--
68CH361	ERV218	65 25 50	147 54 00	11	0.1	0.7	0.2	--	--	0.1	N	N	N	15	700	N	N	N	N	20	15	--	--
68CH362	ERV219	65 25 10	147 50 50	11	5	10	3	--	--	0.5	<0.5	N	N	20	500	N	N	N	30	150	100	--	--
68CH363	ERV220	65 24 25	147 48 00	11	>20	0.07	1	--	--	0.01	N	N	N	N	50	N	N	N	N	N	<5	--	--
68CH364	ERV221	65 24 25	147 48 00	11	<0.05	1.5	0.2	--	--	0.1	N	N	N	50	1000	<1	N	N	N	20	10	--	--
68CH365	ERV222	65 25 30	147 31 00	11	0.1	2	0.2	--	--	0.15	N	N	N	50	150	<1	N	N	<5	30	10	--	--
68CH366	ERV223	65 27 35	147 20 35	11	0.2	1	0.5	--	--	0.1	0.5	N	N	200	200	5	N	N	N	20	7	--	--
68CH367	ERV224	65 29 22	147 24 00	11	0.1	3	1	--	--	0.15	N	N	N	50	300	1	N	N	<5	50	15	--	--
68CH368	ERV225	65 31 22	147 02 45	11	<0.05	1	0.2	--	--	0.15	N	N	N	10	50	<1	N	N	N	20	10	--	--
68CH369	ERV226	65 31 22	147 02 45	11	1	7	2	--	--	0.3	<0.5	N	N	20	300	<1	N	N	20	200	100	--	--
68WR140A	CHJ237	65 35 29	147 00 41	11	0.1	7	1.5	--	--	0.3	N	N	N	20	100	N	N	N	20	50	15	--	--
68WR140B	CHJ328	65 35 29	147 00 41	11	0.07	5	1	--	--	0.2	N	N	N	10	100	N	N	N	<5	15	7	--	--
68WR140C	CHJ330	65 35 29	147 00 41	11	<0.05	7	2	--	--	0.7	N	N	N	20	1000	N	N	N	15	150	20	--	--
68WR141A	CHJ238	65 36 57	147 02 07	11	0.05	1	0.2	--	--	0.2	N	N	N	50	500	<1	N	N	N	<10	<5	--	--
68WR141B	CHJ329	65 36 57	147 02 07	11	N	5	1	--	--	0.3	N	N	N	70	500	1	<10	N	7	70	50	--	--
68WR142A	CHJ239	65 36 49	147 02 13	11	20	15	5	--	--	>1	N	N	N	<10	300	N	N	N	70	300	100	--	--
68WR143B	CHJ240	65 36 34	147 01 44	11	0.05	7	2	--	--	1	N	N	N	70	3000	1	N	N	15	200	30	--	--
68WR143C	CHJ241	65 36 34	147 01 44	11	20	20	10	--	--	1	N	N	N	N	300	<1	N	N	100	1000	150	--	--
68WR144B	CHJ242	65 36 27	147 02 28	11	1.5	7	2	--	--	0.7	N	N	N	50	500	1	N	N	15	100	15	--	--
68WR145A	CHJ243	65 36 33	147 03 20	11	<0.05	5	1.5	--	--	0.5	N	N	N	150	1000	<1	N	N	N	30	10	--	--
68WR146A	CHJ244	65 36 39	147 03 19	11	>20	0.7	1	--	--	0.05	N	N	N	N	300	N	N	N	N	20	<5	--	--
68WR146B	CHJ245	65 36 39	147 03 19	11	>20	0.7	1	--	--	0.03	N	N	N	N	300	N	N	N	N	20	5	--	--
68WR147B	CHJ246	65 36 47	147 03 30	11	0.2	7	2	--	--	0.7	N	N	N	100	2000	<1	N	N	20	150	70	--	--
68WR148	CHJ247	65 37 33	147 03 42	11	20	5	1.5	--	--	0.5	N	N	N	20	200	N	N	N	15	100	15	--	--
68WR149C	CHJ248	65 38 09	147 04 39	11	0.07	1	0.5	--	--	0.3	N	N	N	70	1000	1	N	N	N	20	5	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
68CH351	N	700	N	N	30	N	N	20	N	N	N	150	N	10	N	20	--	N	N	0.1	N	30
68CH352	N	500	N	N	15	<10	N	15	N	100	N	70	N	20	N	70	--	N	N	0.2	N	125
68CH353	N	1000	N	N	30	200	N	10	N	N	N	100	N	10	200	50	--	N	N	0.3	N	180
68CH354	N	1000	N	N	50	10	N	10	N	N	N	150	N	10	N	100	--	20	N	0.2	N	130
68CH355	N	500	N	N	50	<10	N	15	N	<100	N	150	N	10	N	100	--	N	N	0.2	N	90
68CH356	50	700	N	50	200	10	N	15	N	1000	N	100	N	15	N	200	--	N	N	N	N	75
68CH357	N	200	N	N	5	N	N	<5	N	5000	N	10	N	10	N	20	--	N	N	N	N	<5
68CH358	N	700	N	<20	100	N	N	20	N	500	N	150	N	20	N	100	--	N	N	<0.1	N	80
68CH359	N	300	N	N	<5	N	N	N	N	500	N	20	N	<10	N	10	--	N	N	0.1	N	10
68CH360	N	500	N	N	100	N	N	20	N	100	N	150	N	15	N	200	--	N	N	0.1	N	30
68CH361	N	50	N	N	10	<10	N	5	N	N	N	50	N	<10	N	150	--	N	N	0.1	N	15
68CH362	N	1000	N	N	100	N	N	20	N	200	N	150	N	10	N	50	--	N	N	0.2	N	55
68CH363	N	10	N	N	N	N	N	N	N	200	N	<10	N	N	N	10	--	N	N	N	N	N
68CH364	N	20	N	N	15	N	N	5	N	N	N	50	N	<10	N	100	--	N	N	N	N	35
68CH365	<20	70	N	N	20	<10	N	<5	N	N	N	50	N	<10	N	200	--	N	N	N	N	20
68CH366	30	1000	N	30	15	100	N	5	30	100	N	30	N	20	<200	70	--	N	N	1.1	N	220
68CH367	30	300	N	N	20	<10	N	5	N	<100	N	30	N	15	N	200	--	N	N	0.2	N	120
68CH368	N	150	N	N	5	<10	N	<5	<10	N	N	15	N	<10	N	300	--	N	N	0.1	N	40
68CH369	N	500	N	<20	100	20	N	15	N	100	N	100	N	10	N	70	--	N	N	0.4	N	90
68WR140A	N	1000	N	N	50	50	N	<5	N	N	N	30	N	50	N	500	--	--	--	--	--	--
68WR140B	N	1000	N	N	7	15	N	<5	N	N	N	20	N	<10	N	150	--	--	--	--	--	--
68WR140C	50	200	N	N	20	10	N	15	N	200	N	100	N	20	N	100	--	--	--	--	--	--
68WR141A	N	200	N	N	7	<10	N	<5	N	N	N	20	N	10	N	500	--	--	--	--	--	--
68WR141B	50	100	N	N	20	15	N	7	N	N	N	70	N	15	N	100	--	--	--	--	--	--
68WR142A	N	1500	N	20	50	N	N	50	N	1500	N	300	N	30	200	150	--	--	--	--	--	--
68WR143B	70	500	N	<20	30	20	N	20	N	<100	N	200	N	30	N	300	--	--	--	--	--	--
68WR143C	50	2000	N	50	500	20	N	30	N	500	N	300	N	50	200	150	--	--	--	--	--	--
68WR144B	30	300	N	N	50	10	N	7	N	150	N	70	N	15	N	300	--	--	--	--	--	--
68WR145A	50	200	N	N	10	15	N	10	N	N	N	100	N	20	N	300	--	--	--	--	--	--
68WR146A	N	500	N	N	N	<10	N	N	N	3000	N	20	N	10	N	20	--	--	--	--	--	--
68WR146B	N	500	N	N	N	10	N	N	N	2000	N	10	N	10	N	20	--	--	--	--	--	--
68WR147B	70	100	N	<20	50	<10	N	15	N	100	N	200	N	50	N	200	--	--	--	--	--	--
68WR148	N	2000	N	N	50	30	N	10	N	500	N	150	N	15	N	1000	--	--	--	--	--	--
68WR149C	N	100	N	N	N	<10	N	7	N	<100	N	70	N	10	N	300	--	--	--	--	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
68WR150A	CHJ249	65 37 26	147 05 32	11	0.05	2	1.5	--	--	1	N	N	N	200	3000	<1	N	N	5	150	5	--	--
68WR151A	CHJ250	65 33 15	147 10 24	11	0.05	2	1	--	--	0.3	N	N	N	50	500	<1	N	N	5	30	10	--	--
68WR151B	CHJ331	65 33 15	147 10 24	11	<0.05	15	2	--	--	0.7	N	N	N	100	1000	1	N	N	20	200	70	--	--
68WR152	CHJ251	65 33 24	147 10 48	11	5	15	7	--	--	1	N	N	N	N	200	N	N	N	70	500	70	--	--
68WR153A	CHJ252	65 33 40	147 11 41	11	0.05	7	1.5	--	--	0.5	N	N	N	50	500	1	N	N	10	50	15	--	--
68WR153B	CHJ333	65 33 40	147 11 41	11	<0.05	0.7	0.2	--	--	0.15	N	N	N	20	1000	N	N	N	<5	20	<5	--	--
68WR154	CHJ253	65 33 51	147 12 02	11	0.15	10	2	--	--	1	N	N	N	100	1500	1	N	N	15	200	50	--	--
68WR155	CHJ254	65 34 04	147 12 24	11	0.15	5	1	--	--	0.3	N	N	N	50	700	<1	N	N	10	30	10	--	--
68WR156	CHJ255	65 34 28	147 12 25	11	0.2	2	0.1	--	--	0.15	N	N	N	20	500	N	N	N	N	20	<5	--	--
68WR157	CHJ256	65 34 38	147 12 26	11	<0.05	5	2	--	--	1	<0.5	N	N	100	3000	1	N	N	20	150	70	--	--
68WR158	CHJ257	65 34 49	147 12 22	11	0.2	5	1	--	--	0.7	N	N	N	50	700	<1	N	N	10	50	15	--	--
68WR160	CHJ258	65 35 07	147 12 39	11	0.05	2	0.1	--	--	0.2	N	N	N	30	300	N	N	N	N	20	5	--	--
68WR161	CHJ259	65 35 19	147 12 36	11	<0.05	1	0.15	--	--	0.3	N	N	N	30	700	N	N	N	N	20	<5	--	--
68WR163A	CHJ260	65 36 27	147 10 18	11	<0.05	3	0.7	--	--	0.3	N	N	N	50	500	N	N	N	<5	50	7	--	--
68WR163B	CHJ327	65 36 27	147 10 18	11	0.07	7	2	--	--	1	N	N	N	100	2000	<1	N	N	15	200	30	--	--
68WR164	CHJ261	65 36 19	147 12 48	11	0.05	7	2	--	--	0.5	N	N	N	100	1500	1	N	N	15	100	30	--	--
68WR165	CHJ262	65 36 32	147 12 44	11	20	15	5	--	--	1	N	N	N	10	>5000	<1	N	N	70	50	100	--	--
68WR166	CHJ263	65 36 41	147 12 42	11	0.05	2	1	--	--	0.5	N	N	N	50	1500	N	N	N	5	30	15	--	--
68WR166B	CHJ264	65 36 41	147 12 42	11	>20	3	0.7	--	--	0.3	N	N	N	10	300	N	N	N	N	30	<5	--	--
68WR179B	CHJ265	65 52 58	147 14 52	11	20	15	5	--	--	>1	N	N	N	<10	700	N	N	N	50	150	70	--	--
68WR180	CHJ266	65 52 32	147 16 42	11	>20	1	1	--	--	0.05	N	N	N	N	70	N	N	N	N	30	7	--	--
68WR181	CHJ267	65 52 19	147 17 25	11	1	2	0.15	--	--	0.3	N	N	N	30	500	<1	N	N	7	20	<5	--	--
68WR182	CHJ268	65 52 09	147 17 12	11	0.15	2	0.7	--	--	0.3	N	N	N	50	500	1	N	N	7	30	10	--	--
68WR183	CHJ269	65 52 05	147 17 31	11	0.1	10	2	--	--	0.7	N	N	N	70	1000	<1	N	N	10	100	15	--	--
68WR184A	CHJ332	65 52 01	147 18 00	11	<0.05	0.2	0.1	--	--	0.05	N	N	N	50	150	<1	N	N	N	N	10	--	--
68WR184B	CHJ270	65 52 01	147 18 00	11	<0.05	5	2	--	--	0.7	N	N	N	70	500	<1	N	N	20	70	<5	--	--
68WR185B	CHJ271	65 52 13	147 18 30	11	0.07	2	1	--	--	0.3	N	N	N	50	1000	<1	N	N	7	50	10	--	--
68WR186	CHJ272	65 51 28	147 19 12	11	<0.05	0.5	0.15	--	--	0.03	N	N	N	50	70	N	N	N	N	<10	10	--	--
68WR187B	CHJ273	65 51 12	147 18 21	11	5	2	2	--	--	0.2	N	N	N	70	500	<1	N	N	10	50	10	--	--
68WR188	CHJ274	65 50 36	147 18 48	11	0.05	0.15	0.15	--	--	0.03	N	N	N	100	150	N	N	N	N	N	<5	--	--
68WR189	CHJ275	65 50 41	147 16 56	11	0.1	5	2	--	--	0.5	N	N	N	100	2000	1	N	N	20	100	20	--	--
68WR190A	CHJ276	65 50 34	147 16 27	11	0.05	5	1.5	--	--	0.5	N	N	N	50	300	<1	N	N	10	30	7	--	--
68WR191B	CHJ277	65 50 22	147 16 30	11	0.05	15	2	--	--	1	<0.5	N	N	<10	2000	<1	N	N	5	150	20	--	--
68WR192A	CHJ278	65 50 09	147 15 42	11	<0.05	7	2	--	--	1	N	N	N	70	1500	2	N	N	7	200	30	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
68WR150A	70	200	N	20	7	50	N	15	N	N	N	100	N	70	N	>1000	--	--	--	--	--	--
68WR151A	30	200	N	N	20	15	N	<5	N	N	N	50	N	15	N	200	--	--	--	--	--	--
68WR151B	50	300	N	<20	50	50	N	20	N	N	N	200	N	30	N	150	--	--	--	--	--	--
68WR152	30	1000	N	70	100	20	N	20	N	500	N	150	N	30	N	150	--	--	--	--	--	--
68WR153A	30	500	N	<20	30	20	N	10	N	100	N	70	N	20	N	300	--	--	--	--	--	--
68WR153B	N	150	N	N	N	N	N	N	N	N	N	15	N	<10	N	200	--	--	--	--	--	--
68WR154	100	700	N	<20	50	15	N	20	N	200	N	150	N	50	N	100	--	--	--	--	--	--
68WR155	N	300	N	N	20	15	N	5	N	<100	N	50	N	10	N	200	--	--	--	--	--	--
68WR156	N	1500	N	N	<5	10	N	<5	N	<100	N	30	N	<10	N	200	--	--	--	--	--	--
68WR157	70	1000	N	<20	30	<10	N	20	N	N	N	150	N	20	N	100	--	--	--	--	--	--
68WR158	N	2000	N	N	15	10	N	7	N	<100	N	70	N	15	N	300	--	--	--	--	--	--
68WR160	N	1000	N	N	10	15	N	<5	N	N	N	30	N	10	N	200	--	--	--	--	--	--
68WR161	N	100	N	N	N	<10	N	<5	N	N	N	30	N	10	N	300	--	--	--	--	--	--
68WR163A	50	150	N	N	15	15	N	5	N	N	N	30	N	10	N	300	--	--	--	--	--	--
68WR163B	100	200	N	<20	20	20	N	20	N	<100	N	200	N	30	N	200	--	--	--	--	--	--
68WR164	50	200	N	<20	30	<10	N	10	N	N	N	100	N	20	N	200	--	--	--	--	--	--
68WR165	100	3000	N	30	30	20	N	20	N	500	N	300	N	30	200	300	--	--	--	--	--	--
68WR166	N	700	N	N	10	30	N	5	N	100	N	50	N	<10	N	300	--	--	--	--	--	--
68WR166B	30	>5000	N	N	N	30	N	5	N	2000	N	30	N	20	N	500	--	--	--	--	--	--
68WR179B	50	2000	N	20	50	15	N	30	N	1500	N	200	N	30	N	200	--	--	--	--	--	--
68WR180	N	500	N	N	5	10	N	N	N	5000	N	<10	N	15	N	100	--	--	--	--	--	--
68WR181	N	1000	N	N	7	10	N	<5	N	N	N	30	N	10	N	200	--	--	--	--	--	--
68WR182	N	500	N	N	10	20	N	5	N	N	N	70	N	10	N	150	--	--	--	--	--	--
68WR183	50	700	N	<20	20	10	N	15	N	<100	N	100	N	20	N	150	--	--	--	--	--	--
68WR184A	N	150	N	N	N	N	N	N	N	N	N	10	N	<10	N	10	--	--	--	--	--	--
68WR184B	20	200	N	<20	30	<10	N	10	N	N	N	50	N	20	N	150	--	--	--	--	--	--
68WR185B	50	500	N	N	5	20	N	7	N	<100	N	70	N	30	N	300	--	--	--	--	--	--
68WR186	N	100	N	N	N	N	N	N	N	N	N	15	N	<10	N	20	--	--	--	--	--	--
68WR187B	30	1500	N	N	20	20	N	10	N	100	N	70	N	15	N	100	--	--	--	--	--	--
68WR188	N	150	N	N	N	N	N	N	N	N	N	15	N	<10	N	20	--	--	--	--	--	--
68WR189	20	150	N	N	30	30	N	20	N	N	N	100	N	30	<200	150	--	--	--	--	--	--
68WR190A	20	500	N	N	20	15	N	10	N	100	N	50	N	15	N	300	--	--	--	--	--	--
68WR191B	100	1500	N	N	20	15	N	20	N	N	N	150	N	50	N	100	--	--	--	--	--	--
68WR192A	50	150	<5	<20	30	50	N	20	N	N	N	200	N	50	N	200	--	--	--	--	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
68WR193	CHJ279	65 50 03	147 15 29	11	<0.05	1.5	1	--	--	0.2	N	N	N	30	700	1	N	N	N	20	30	--	--
68WR195	CHJ280	65 49 50	147 15 26	11	<0.05	0.15	0.1	--	--	0.03	N	N	N	200	100	N	N	N	N	N	<5	--	--
68WR196	CHJ281	65 49 37	147 15 35	11	0.05	5	1	--	--	0.7	N	N	N	50	3000	1	N	N	7	30	5	--	--
68WR197C	CHJ282	65 34 18	147 30 41	11	5	10	1.5	--	--	>1	N	N	N	20	500	N	N	N	20	300	50	--	--
68WR197D	CHJ283	65 34 18	147 30 41	11	>20	0.1	1	--	--	0.1	N	N	N	N	100	N	N	N	N	20	N	--	--
68WR198	CHJ284	65 34 08	147 30 24	11	>20	0.2	0.2	--	--	0.005	N	N	N	N	100	N	N	N	N	N	N	--	--
68WR199	CHJ285	65 33 49	147 29 53	11	7	15	5	--	--	>1	N	N	N	<10	300	N	N	N	50	30	70	--	--
68WR200A	CHJ286	65 33 55	147 28 00	11	10	7	5	--	--	0.5	N	N	N	10	200	N	N	N	20	300	70	--	--
68WR201	CHJ287	65 33 26	147 27 31	11	>20	0.05	0.5	--	--	0.005	N	N	N	N	50	N	N	N	N	N	N	--	--
68WR202	CHJ288	65 33 26	147 39 03	11	0.5	7	2	--	--	0.5	N	N	N	20	1000	N	N	N	15	200	30	--	--
68WR203	CHJ289	65 35 51	147 32 23	11	10	10	5	--	--	1	N	N	N	<10	700	N	N	N	30	50	70	--	--
68WR206	CHJ290	65 32 28	147 36 07	11	7	15	5	--	--	1	N	N	N	10	1000	N	N	N	30	500	20	--	--
68WR211A	CHJ291	65 46 58	147 06 35	11	>20	0.2	>10	--	--	0.01	N	N	N	N	50	N	N	N	N	<10	N	--	--
68WR212	CHJ292	65 46 48	147 07 07	11	>20	0.07	10	--	--	0.002	N	N	N	N	<20	N	N	N	N	N	N	--	--
68WR213A	CHJ293	65 46 45	147 07 14	11	>20	10	5	--	--	<0.002	N	N	N	N	1000	N	N	N	N	N	20	--	--
68WR213B	CHJ325	65 46 45	147 07 14	11	3	15	2	--	--	1	N	N	N	10	2000	<1	N	N	10	<10	50	--	--
68WR214	CHJ294	65 46 34	147 07 13	11	0.2	0.5	0.1	--	--	0.02	1.5	N	N	20	200	N	N	N	N	10	20	--	--
68WR215	CHJ295	65 46 40	147 07 57	11	>20	0.1	>10	--	--	<0.002	N	N	N	N	<20	N	N	N	N	N	<5	--	--
68WR216A	CHJ296	65 46 38	147 08 54	11	>20	0.15	7	--	--	0.005	N	N	N	N	50	N	N	N	N	<10	N	--	--
68WR216B	CHJ326	65 46 38	147 08 54	11	>20	0.1	7	--	--	0.003	N	N	N	N	30	N	N	N	N	N	N	--	--
68WR217	CHJ297	65 46 46	147 09 28	11	>20	1.5	>10	--	--	0.01	N	N	N	N	100	N	N	N	N	N	<5	--	--
68WR218	CHJ298	65 47 09	147 09 24	11	3	0.07	1	--	--	0.007	N	N	N	20	30	N	N	N	N	N	N	--	--
68WR220	CHJ299	65 47 32	147 09 48	11	>20	N	0.1	--	--	<0.002	N	N	N	N	100	N	N	N	N	N	N	--	--
68WR221A	CHJ300	65 47 37	147 09 57	11	20	1	2	--	--	0.05	<0.5	N	N	20	500	N	N	N	<5	30	50	--	--
68WR221B	CHJ323	65 47 37	147 09 57	11	>20	0.5	10	--	--	0.07	0.5	N	N	<10	100	N	N	N	N	20	15	--	--
68WR222A	CHJ301	65 47 50	147 10 12	11	0.15	2	1.5	--	--	0.2	N	N	N	20	>5000	10	N	N	N	N	<5	--	--
68WR223	CHJ302	65 48 01	147 09 56	11	1	10	7	--	--	1	N	N	N	<10	300	N	N	50	20	500	10	--	--
68WR224	CHJ303	65 48 09	147 09 53	11	7	15	5	--	--	>1	N	N	N	10	2000	<1	N	N	30	50	50	--	--
68WR225A	CHJ304	65 48 15	147 10 01	11	5	7	7	--	--	0.5	N	N	N	70	300	<1	N	N	20	500	30	--	--
68WR225B	CHJ324	65 48 15	147 10 01	11	0.15	10	5	--	--	1	N	N	N	20	500	<1	N	N	20	1000	50	--	--
68WR226A	CHJ305	65 48 34	147 10 01	11	<0.05	7	1.5	--	--	0.3	0.5	N	N	70	5000	1.5	N	N	7	150	100	--	--
68WR226B	CHJ320	65 48 34	147 10 01	11	<0.05	10	1	--	--	0.5	<0.5	N	N	100	3000	1.5	N	N	20	150	100	--	--
68WR227A	CHJ306	65 49 27	147 08 28	11	<0.05	0.15	0.02	--	--	0.01	N	N	N	20	70	N	N	N	N	N	5	--	--
68WR227B	CHJ322	65 49 27	147 08 28	11	>20	2	10	--	--	0.1	N	N	N	N	50	N	N	N	10	<10	N	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
68WR193	N	150	N	N	10	20	N	10	N	<100	N	70	N	15	N	100	--	--	--	--	--	--
68WR195	N	50	N	N	N	N	N	N	N	N	N	10	N	<10	N	15	--	--	--	--	--	--
68WR196	50	300	N	N	15	20	N	7	N	<100	N	70	N	15	N	500	--	--	--	--	--	--
68WR197C	N	300	N	20	50	N	N	30	N	N	N	100	N	20	N	150	--	--	--	--	--	--
68WR197D	N	50	N	N	N	N	N	N	N	500	N	10	N	N	N	20	--	--	--	--	--	--
68WR198	N	150	N	N	N	N	N	N	N	200	N	10	N	N	N	N	--	--	--	--	--	--
68WR199	30	3000	N	30	30	15	N	20	N	700	N	200	N	30	N	150	--	--	--	--	--	--
68WR200A	N	1500	N	N	50	N	N	30	N	500	N	150	N	20	N	70	--	--	--	--	--	--
68WR201	N	50	N	N	N	10	N	N	N	300	N	<10	N	N	N	N	--	--	--	--	--	--
68WR202	30	1000	N	N	50	20	N	20	N	<100	N	150	N	30	N	200	--	--	--	--	--	--
68WR203	N	1500	N	N	50	<10	N	30	N	500	N	200	N	30	N	100	--	--	--	--	--	--
68WR206	N	1000	N	N	50	30	N	20	N	200	N	150	N	20	N	100	--	--	--	--	--	--
68WR211A	N	500	N	N	N	N	N	N	N	100	N	10	N	N	N	N	--	--	--	--	--	--
68WR212	N	500	N	N	N	N	N	N	N	N	N	<10	N	N	N	N	--	--	--	--	--	--
68WR213A	N	>5000	N	N	20	50	N	N	N	N	N	100	N	<10	N	N	--	--	--	--	--	--
68WR213B	50	1500	N	30	N	N	N	20	N	200	N	20	N	70	N	700	--	--	--	--	--	--
68WR214	N	50	N	N	7	N	N	N	N	N	N	200	N	N	N	10	--	--	--	--	--	--
68WR215	N	100	N	N	N	N	N	N	N	N	N	<10	N	N	N	N	--	--	--	--	--	--
68WR216A	N	150	N	N	N	<10	N	N	N	200	N	<10	N	N	N	N	--	--	--	--	--	--
68WR216B	N	150	N	N	N	N	N	N	N	N	N	<10	N	<10	N	N	--	--	--	--	--	--
68WR217	N	1000	N	N	N	<10	N	N	N	<100	N	<10	N	N	N	<10	--	--	--	--	--	--
68WR218	N	150	N	N	N	N	N	N	N	N	N	10	N	10	N	N	--	--	--	--	--	--
68WR220	N	50	N	N	N	N	N	N	N	150	N	10	N	N	N	N	--	--	--	--	--	--
68WR221A	N	300	N	N	15	N	N	<5	N	200	N	500	N	20	N	20	--	--	--	--	--	--
68WR221B	N	300	N	N	5	10	N	N	N	100	N	150	N	10	N	10	--	--	--	--	--	--
68WR222A	100	150	N	70	N	N	N	10	10	N	N	<10	N	100	N	>1000	--	--	--	--	--	--
68WR223	N	1000	N	N	70	10	N	20	N	100	N	150	N	15	2000	70	--	--	--	--	--	--
68WR224	30	1500	N	20	N	15	N	15	N	1000	N	100	N	50	N	200	--	--	--	--	--	--
68WR225A	N	700	N	N	70	30	N	20	N	1000	N	70	N	20	N	100	--	--	--	--	--	--
68WR225B	N	700	N	N	200	10	N	20	N	N	N	300	N	20	<200	100	--	--	--	--	--	--
68WR226A	30	150	N	N	50	10	N	20	N	N	N	200	N	30	N	150	--	--	--	--	--	--
68WR226B	N	700	N	N	50	15	N	20	N	N	N	200	N	30	N	150	--	--	--	--	--	--
68WR227A	N	20	N	N	N	15	N	N	N	N	N	10	N	N	N	N	--	--	--	--	--	--
68WR227B	N	1000	N	N	10	N	N	<5	N	500	N	15	N	10	N	<10	--	--	--	--	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
68WR228	CHJ307	65 32 08	147 52 21	11	5	7	3	--	--	0.5	N	N	N	20	1000	N	N	N	15	200	50	--	--
68WR229	CHJ308	65 38 29	147 14 48	11	10	15	5	--	--	>1	N	N	N	<10	500	<1	N	N	50	50	70	--	--
68WR231	CHJ309	65 38 19	147 14 23	11	3	10	5	--	--	>1	N	N	N	10	>5000	<1	N	N	15	N	30	--	--
68WR232A	CHJ310	65 38 12	147 14 13	11	10	10	5	--	--	1	N	N	N	10	700	N	N	N	30	500	100	--	--
68WR232B	CHJ321	65 38 12	147 14 13	11	0.05	5	2	--	--	0.2	N	N	N	15	500	N	N	N	<5	15	<5	--	--
68WR233	CHJ311	65 38 05	147 14 03	11	>20	2	2	--	--	0.2	N	N	N	N	300	N	N	N	<5	50	10	--	--
68WR235	CHJ312	65 37 48	147 13 37	11	5	10	5	--	--	>1	N	N	N	10	5000	N	N	N	70	200	150	--	--
68WR236	CHJ313	65 40 06	147 13 02	11	7	10	7	--	--	1	N	N	N	10	>5000	N	N	N	50	200	100	--	--
68WR238B	CHJ314	65 40 22	147 11 39	11	0.07	0.5	0.2	--	--	0.1	7	N	N	10	500	N	N	N	N	<10	15	--	--
68WR239B	CHJ315	65 41 05	147 14 25	11	0.15	10	2	--	--	0.5	N	N	N	100	1000	<1	N	N	30	200	50	--	--
68WR240	CHJ316	65 38 39	147 20 46	11	3	10	7	--	--	0.7	N	N	N	N	<20	N	N	N	30	<10	N	--	--
68WR241A	CHJ317	65 38 13	147 20 51	11	2	2	2	--	--	0.5	N	N	N	<10	500	N	N	N	15	150	<5	--	--
68WR242	CHJ318	65 38 17	147 19 57	11	0.07	2	1.5	--	--	0.5	N	N	N	50	700	<1	N	N	10	30	N	--	--
68WR245	CHJ319	65 20 22	147 49 02	11	<0.05	3	1.5	--	--	0.5	N	N	N	100	1000	1	N	N	10	100	20	--	--
68WR246A	CHJ193	65 17 41	147 55 10	11	N	2	1	--	--	0.5	N	N	N	<10	1500	N	N	N	N	30	<5	--	--
68WR247	CHJ194	65 17 50	147 55 21	11	0.05	2	1	--	--	5	N	N	N	50	1000	<1	N	N	N	20	5	--	--
68WR248	CHJ195	65 18 03	147 56 21	11	<0.05	15	2	--	--	1	N	N	N	100	3000	<1	N	N	10	200	50	--	--
68WR249	CHJ196	65 20 56	147 58 02	11	N	15	2	--	--	1	N	N	N	100	3000	1	N	N	30	200	100	--	--
68WR250B	CHJ197	65 22 18	147 55 55	11	>20	0.1	2	--	--	0.01	N	N	N	N	100	N	N	N	N	10	N	--	--
68WR251A	CHJ198	65 21 40	147 54 40	11	0.15	2	0.3	--	--	0.2	N	N	N	30	700	N	N	N	N	30	10	--	--
68WR251B	CHJ229	65 21 40	147 54 40	11	<0.05	15	2	--	--	0.7	N	N	N	150	1500	1	N	N	15	200	30	--	--
68WR252	CHJ199	65 24 00	147 54 11	11	10	20	5	--	--	>1	N	N	N	10	500	N	N	N	70	50	70	--	--
68WR253	CHJ200	65 24 33	147 54 08	11	0.05	5	1.5	--	--	0.5	N	N	N	50	1000	<1	N	N	5	30	15	--	--
68WR254	CHJ201	65 24 52	147 54 21	11	<0.05	0.1	1	--	--	0.3	<0.5	N	N	100	5000	1.5	N	N	N	20	<5	--	--
68WR272A	CHJ202	65 45 42	147 01 50	11	0.5	15	3	--	--	0.7	N	N	N	100	1000	N	N	N	20	150	50	--	--
68WR273B	CHJ203	65 46 52	147 00 44	11	2	15	3	--	--	1	<0.5	N	N	150	2000	1	N	N	20	200	100	--	--
68WR274	CHJ204	65 47 43	147 00 57	11	<0.05	1	0.5	--	--	0.1	N	N	N	50	300	N	N	N	N	10	50	--	--
68WR275	CHJ205	65 48 05	147 01 02	11	10	15	10	--	--	0.7	N	N	N	20	2000	N	N	N	70	700	30	--	--
68WR276	CHJ206	65 45 04	147 26 52	11	2	7	7	--	--	0.7	N	N	N	20	1000	N	N	N	15	700	30	--	--
68WR277B	CHJ207	65 45 09	147 27 13	11	3	7	2	--	--	0.5	N	N	N	20	2000	1	N	N	10	100	15	--	--
68WR278	CHJ228	65 30 00	147 30 00	11	1	7	2	--	--	0.7	<0.5	N	N	100	3000	1	N	N	10	200	70	--	--
68WR279	CHJ208	65 45 39	147 28 30	11	0.05	10	2	--	--	1	N	N	N	150	1000	<1	N	N	15	150	50	--	--
68WR280A	CHJ209	65 45 47	147 28 47	11	<0.05	15	2	--	--	1	N	N	N	150	700	1	N	N	15	300	30	--	--
68WR281	CHJ210	65 46 32	147 29 48	11	<0.05	0.5	0.15	--	--	1	N	N	N	30	1000	N	N	N	N	10	15	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
68WR228	N	1000	N	N	30	10	N	30	N	500	N	200	N	30	N	100	--	--	--	--	--	--
68WR229	50	1500	N	20	20	15	N	30	N	150	N	300	N	50	N	200	--	--	--	--	--	--
68WR231	70	1000	N	30	N	10	N	20	N	1000	N	70	N	70	N	200	--	--	--	--	--	--
68WR232A	N	1500	N	<20	50	10	N	50	N	700	N	300	N	20	N	70	--	--	--	--	--	--
68WR232B	N	150	N	N	N	N	N	5	N	N	N	200	N	10	N	50	--	--	--	--	--	--
68WR233	30	300	N	N	7	10	N	5	N	1000	N	30	N	15	N	50	--	--	--	--	--	--
68WR235	N	1000	N	20	50	10	N	30	N	300	N	200	N	20	N	100	--	--	--	--	--	--
68WR236	N	1000	N	<20	50	N	N	50	N	500	N	200	N	30	N	100	--	--	--	--	--	--
68WR238B	N	150	N	N	N	N	N	N	N	N	N	10	N	<10	N	300	--	--	--	--	--	--
68WR239B	N	2000	N	N	50	20	N	20	N	N	N	300	N	50	N	150	--	--	--	--	--	--
68WR240	20	1500	N	20	50	N	N	7	N	N	N	150	N	30	N	150	--	--	--	--	--	--
68WR241A	70	200	N	N	20	15	N	15	N	200	N	100	N	50	N	200	--	--	--	--	--	--
68WR242	N	200	N	N	10	N	N	7	N	<100	N	50	N	15	N	300	--	--	--	--	--	--
68WR245	70	200	N	N	30	20	N	10	N	<100	N	70	N	20	N	150	--	--	--	--	--	--
68WR246A	N	300	N	N	N	10	N	N	N	N	N	70	N	N	N	500	--	--	--	--	--	--
68WR247	30	200	N	N	<5	N	N	5	N	N	N	50	N	20	N	1000	--	--	--	--	--	--
68WR248	70	500	N	N	50	20	N	30	N	N	N	200	N	30	N	200	--	--	--	--	--	--
68WR249	70	700	N	<20	50	20	N	30	N	<100	N	200	N	50	N	300	--	--	--	--	--	--
68WR250B	N	50	N	N	N	N	N	N	N	300	N	<10	N	N	N	<10	--	--	--	--	--	--
68WR251A	N	500	N	N	7	10	N	7	N	N	N	50	N	15	N	500	--	--	--	--	--	--
68WR251B	70	700	N	<20	50	30	N	30	N	<100	N	150	N	30	N	150	--	--	--	--	--	--
68WR252	50	2000	N	70	30	N	N	30	N	500	N	500	N	50	N	300	--	--	--	--	--	--
68WR253	50	300	N	N	20	20	N	10	N	N	N	50	N	30	N	>1000	--	--	--	--	--	--
68WR254	N	100	10	N	N	15	N	10	N	N	N	500	N	20	N	100	--	--	--	--	--	--
68WR272A	N	1000	N	N	50	30	N	20	N	<100	N	300	N	30	N	150	--	--	--	--	--	--
68WR273B	30	3000	N	N	70	50	N	30	N	100	N	500	N	50	300	200	--	--	--	--	--	--
68WR274	N	150	N	N	N	N	N	<5	N	N	N	50	N	<10	N	20	--	--	--	--	--	--
68WR275	N	2000	N	N	150	10	N	50	N	N	N	300	N	30	N	70	--	--	--	--	--	--
68WR276	N	700	N	N	200	<10	N	20	N	<100	N	200	N	20	N	200	--	--	--	--	--	--
68WR277B	70	700	N	<20	10	50	N	20	<10	<100	N	70	N	70	N	300	--	--	--	--	--	--
68WR278	20	700	N	N	70	20	N	20	N	<100	N	500	N	30	200	200	--	--	--	--	--	--
68WR279	70	1000	N	<20	50	20	N	20	N	100	N	150	N	30	N	200	--	--	--	--	--	--
68WR280A	50	3000	N	<20	30	15	N	20	N	<100	N	150	N	30	N	150	--	--	--	--	--	--
68WR281	N	50	N	N	50	N	N	<5	N	<100	N	150	N	10	N	50	--	--	--	--	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
68WR282	CHJ211	65 46 36	147 37 55	11	10	10	3	--	--	1	N	N	N	20	3000	1	N	N	15	20	70	--	--
68WR283	CHJ212	65 40 27	147 45 37	11	0.05	7	2	--	--	0.7	N	N	N	70	700	<1	N	N	10	100	30	--	--
68WR284	CHJ213	65 40 46	147 46 34	11	7	15	5	--	--	>1	N	N	N	50	700	N	N	N	70	300	70	--	--
68WR285	CHJ214	65 41 06	147 46 28	11	10	15	7	--	--	1	N	N	N	<10	100	<1	N	N	30	300	50	--	--
68WR286B	CHJ215	65 41 12	147 46 37	11	1.5	15	3	--	--	0.7	N	N	N	50	1000	N	N	N	15	30	70	--	--
68WR287A	CHJ216	65 27 32	147 50 50	11	0.05	5	1	--	--	0.3	N	N	N	50	300	N	N	N	N	20	10	--	--
68WR287B	CHJ227	65 27 32	147 50 50	11	15	15	5	--	--	1	N	N	N	<10	200	N	N	N	50	150	150	--	--
68WR288	CHJ217	65 27 54	147 49 42	11	<0.05	0.1	0.02	--	--	0.2	N	N	N	70	150	N	N	N	N	10	<5	--	--
68WR290A	CHJ218	65 28 54	147 49 59	11	0.5	15	3	--	--	1	N	N	N	20	500	N	N	N	20	150	50	--	--
68WR291A	CHJ219	65 25 51	147 54 09	11	20	20	5	--	--	1	N	N	N	20	150	N	N	N	30	200	150	--	--
68WR292	CHJ220	65 24 17	147 47 49	11	0.1	10	1.5	--	--	0.5	N	N	N	70	1000	<1	N	N	<5	30	20	--	--
68WR294	CHJ221	65 28 31	147 24 29	11	0.07	3	0.5	--	--	0.3	N	N	N	10	30	N	N	N	N	15	7	--	--
68WR295	CHJ222	65 29 20	147 22 11	11	0.5	3	0.2	--	--	0.2	N	N	N	30	300	1	N	N	N	<10	10	--	--
68WR296B	CHJ223	65 28 39	147 24 12	11	2	2	1.5	--	--	0.3	N	N	N	20	50	N	N	N	N	20	10	--	--
68WR297	CHJ224	65 30 23	147 24 26	11	<0.05	7	1.5	--	--	0.5	N	N	N	50	500	N	N	N	N	70	10	--	--
68WR298B	CHJ225	65 30 42	147 23 32	11	<0.05	7	2	--	--	1	N	N	N	200	2000	<1	N	N	5	300	15	--	--
68WR299	CHJ226	65 30 00	147 30 00	11	1	2	0.1	--	--	0.15	N	N	N	50	150	2	N	N	N	N	N	--	--
69CH154	ERV244	65 32 33	147 21 45	11	<0.05	2	0.2	--	--	0.2	N	N	N	30	300	<1	N	N	<5	20	15	--	--
69CH155	ERV245	65 32 33	147 21 45	11	N	10	1	--	--	0.3	N	N	N	50	500	<1	N	N	10	150	50	--	--
69CH156	ERV246	65 32 33	147 21 45	11	0.05	0.3	0.1	--	--	0.01	N	N	N	500	70	10	N	N	N	N	<5	--	--
69CH159	ERV247	65 31 25	147 16 55	11	0.5	3	0.2	--	--	0.2	N	N	N	20	300	2	N	N	N	<10	<5	--	--
69CH160	ERV248	65 30 15	147 15 20	11	0.15	3	0.2	--	--	0.2	N	N	N	10	200	1	N	N	N	N	<5	--	--
69CH161	ERV249	65 30 10	147 14 30	11	<0.05	7	1.5	--	--	0.3	N	N	N	30	500	<1	N	N	10	100	50	--	--
69CH162	ERV250	65 32 20	147 15 00	11	0.1	2	0.05	--	--	0.07	N	N	N	15	70	3	N	N	N	N	10	--	--
69CH163	ERV251	65 32 20	147 15 00	11	1	5	1	--	--	0.15	N	N	N	10	100	<1	N	N	5	20	20	--	--
69CH166	ERV252	65 33 15	147 17 30	11	<0.05	3	0.7	--	--	0.2	N	N	N	30	500	<1	N	N	7	30	10	--	--
69CH167	ERV253	65 34 20	147 16 15	11	<0.05	3	0.1	--	--	0.2	N	N	N	30	500	<1	N	N	N	30	7	--	--
69CH168	ERV254	65 34 40	147 16 20	11	0.15	2	0.1	--	--	0.15	N	N	N	30	300	<1	N	N	N	20	7	--	--
69CH169	ERV255	65 34 55	147 16 12	11	0.15	2	0.2	--	--	0.15	N	N	N	20	150	N	N	N	N	15	7	--	--
69CH170	ERV256	65 35 05	147 16 13	11	<0.05	7	1	--	--	0.3	N	N	N	200	700	<1	N	N	20	150	50	--	--
69CH171	ERV257	65 35 15	147 17 00	11	3	15	2	--	--	1	N	N	N	100	2000	N	N	N	30	30	100	--	--
69CH172	ERV258	65 32 50	147 22 25	11	<0.05	7	1	--	--	0.5	N	N	N	70	500	<1	N	N	10	50	20	--	--
69CH173	ERV259	65 33 00	147 03 35	11	0.5	7	0.7	--	--	0.5	N	N	N	50	500	<1	N	N	15	50	20	--	--
69CH174	ERV260	65 33 15	147 25 20	11	<0.05	10	1	--	--	0.7	N	N	N	100	200	N	N	N	15	20	20	--	--
69CH175	ERV261	65 33 15	147 25 20	11	0.05	7	1.5	--	--	0.3	N	N	N	200	1000	1	N	N	10	100	10	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
68WR282	100	2000	N	100	7	20	N	7	N	>5000	N	100	N	50	N	300	--	--	--	--	--	--
68WR283	N	700	N	N	50	N	N	15	N	N	N	100	N	15	N	150	--	--	--	--	--	--
68WR284	N	1000	N	N	70	N	N	30	N	200	N	300	N	20	N	150	--	--	--	--	--	--
68WR285	N	2000	N	N	50	10	N	30	N	1000	N	200	N	30	N	150	--	--	--	--	--	--
68WR286B	N	1000	N	N	15	10	N	30	N	200	N	200	N	20	N	150	--	--	--	--	--	--
68WR287A	N	200	N	N	10	<10	N	N	N	<100	N	50	N	10	N	700	--	--	--	--	--	--
68WR287B	N	3000	N	N	50	<10	N	30	N	500	N	700	N	20	N	100	--	--	--	--	--	--
68WR288	N	20	N	N	N	N	N	N	N	N	N	15	N	<10	N	500	--	--	--	--	--	--
68WR290A	N	3000	N	N	50	10	N	20	N	<100	N	500	N	30	N	150	--	--	--	--	--	--
68WR291A	N	2000	N	N	50	N	N	30	N	N	N	500	N	30	N	100	--	--	--	--	--	--
68WR292	30	500	N	N	20	15	N	7	N	<100	N	100	N	20	N	300	--	--	--	--	--	--
68WR294	N	500	N	N	N	N	N	<5	150	<100	N	20	N	20	N	>1000	--	--	--	--	--	--
68WR295	100	500	N	N	N	30	N	5	30	N	N	10	N	70	N	100	--	--	--	--	--	--
68WR296B	N	1500	N	N	N	10	N	N	20	<100	N	20	N	10	N	500	--	--	--	--	--	--
68WR297	20	500	N	N	7	N	N	7	N	<100	N	70	N	15	N	300	--	--	--	--	--	--
68WR298B	70	700	N	<20	N	10	N	20	10	<100	N	300	N	50	N	150	--	--	--	--	--	--
68WR299	70	500	N	20	N	50	N	7	<10	N	N	<10	N	150	N	300	--	--	--	--	--	--
69CH154	20	100	N	N	10	70	N	5	N	N	N	30	N	10	N	200	--	N	N	N	N	15
69CH155	N	150	N	N	30	50	N	10	N	N	N	70	N	10	N	150	--	N	1	0.1	N	145
69CH156	N	700	N	20	N	10	N	N	50	<100	N	N	N	<10	N	20	--	N	4	<0.1	N	25
69CH159	100	500	N	<20	<5	30	N	7	<10	<100	N	20	N	50	N	100	--	N	N	N	N	35
69CH160	70	1000	N	20	N	50	N	7	N	100	N	20	N	50	N	500	--	N	N	0.1	N	50
69CH161	50	500	N	N	50	50	N	10	N	N	N	100	N	20	N	100	--	N	N	0.1	N	135
69CH162	50	150	N	N	<5	50	N	<5	N	N	N	N	N	50	N	100	--	N	N	N	N	20
69CH163	20	1000	N	N	10	<10	N	<5	N	100	N	20	N	15	N	700	--	N	N	0.1	N	65
69CH166	N	200	N	N	15	10	N	5	N	N	N	20	N	10	N	300	--	N	N	0.1	N	35
69CH167	N	50	N	N	7	<10	N	<5	N	N	N	20	N	<10	N	200	--	N	N	N	N	35
69CH168	N	30	N	N	5	N	N	N	N	N	N	20	N	<10	N	300	--	N	N	N	N	10
69CH169	N	700	N	N	7	20	N	N	N	N	N	15	N	N	N	200	--	N	N	0.1	N	25
69CH170	70	500	N	<20	50	15	N	15	<10	N	N	100	N	30	N	200	--	N	N	0.2	N	90
69CH171	100	1000	N	50	30	15	N	15	N	300	N	150	N	20	N	200	--	N	N	0.4	N	180
69CH172	20	150	N	N	30	10	N	10	N	N	N	70	N	15	N	200	--	N	N	N	N	55
69CH173	20	500	N	N	20	20	N	10	N	100	N	50	N	30	N	200	--	N	N	0.1	N	45
69CH174	N	2000	N	<20	15	15	N	10	N	N	N	100	N	15	N	150	--	N	N	0.1	N	35
69CH175	100	300	N	20	50	<10	N	15	N	N	N	50	N	20	N	100	--	N	N	N	N	70

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
69CH176	ERV159	65 33 20	147 25 50	11	0.2	0.7	0.07	--	--	0.5	N	N	N	20	150	N	N	50	N	30	5	--	--
69CH177	ERV155	65 32 18	147 16 30	11	<0.05	5	0.7	--	--	0.3	N	N	N	70	700	<1	N	N	10	50	20	--	--
69CH179	ERV161	65 41 15	147 02 40	11	0.5	0.7	0.5	--	--	0.1	N	N	N	<10	1000	N	N	N	<5	20	10	--	--
69CH180	ERV162	65 41 15	147 02 40	11	0.07	7	2	--	--	0.2	1	N	N	15	1500	N	N	N	15	100	15	--	--
69CH181	ERV163	65 40 50	147 02 00	11	<0.05	7	1.5	--	--	0.3	N	N	N	70	500	<1	N	N	10	30	20	--	--
69CH182	ERV164	65 40 30	147 00 20	11	<0.05	5	2	--	--	0.2	N	N	N	<10	300	N	N	N	10	50	5	--	--
69CH183	ERV262	65 40 30	147 00 20	11	3	10	5	--	--	0.7	N	N	N	15	5000	N	N	N	50	200	150	--	--
69CH184	ERV157	65 42 10	147 00 00	11	<0.05	0.2	0.03	--	--	0.1	N	N	N	50	1000	N	N	N	N	20	<5	--	--
69CH186	ERV165	65 41 35	147 29 50	11	0.2	7	2	--	--	0.5	N	N	N	100	500	<1	N	N	20	150	100	--	--
69CH187	ERV166	65 41 35	147 29 50	11	3	10	3	--	--	0.5	N	N	N	50	150	N	N	N	30	150	10	--	--
69CH188	ERV167	65 42 40	147 29 10	11	3	10	3	--	--	0.7	N	N	N	30	<20	N	N	N	50	<10	200	--	--
69CH189	ERV263	65 42 55	147 30 10	11	3	10	3	--	--	0.7	N	N	N	10	50	N	N	N	50	200	50	--	--
69CH190	ERV264	65 44 30	147 24 10	11	2	0.07	1	--	--	0.005	N	N	N	10	50	N	N	N	N	N	<5	--	--
69CH191	ERV265	65 45 05	147 18 40	11	0.07	7	2	--	--	0.5	N	N	N	200	1000	<1	N	N	7	200	30	--	--
69CH192	ERV156	65 45 05	147 18 40	11	0.5	10	2	--	--	0.5	N	N	N	20	300	N	N	N	15	200	30	--	--
69CH193	ERV158	65 45 00	147 16 20	11	0.1	10	2	--	--	0.5	N	N	N	50	300	N	N	N	20	200	70	--	--
69CH194	ERV168	65 45 00	147 16 20	11	0.7	10	3	--	--	0.5	N	N	N	20	300	N	N	N	20	200	50	--	--
69CH195	ERV169	65 46 00	147 15 10	11	0.07	7	1.5	--	--	0.2	N	N	N	50	300	N	N	N	7	150	20	--	--
69CH196	ERV170	65 46 00	147 15 10	11	N	0.2	0.05	--	--	0.02	<0.5	N	N	20	70	N	N	N	N	10	10	--	--
69CH197	ERV171	65 46 40	147 11 20	11	0.07	10	2	--	--	0.5	N	N	N	150	1000	N	N	N	30	500	7	--	--
69CH209	ERV266	65 52 40	147 10 30	11	<0.05	5	1	--	--	0.5	N	N	N	70	700	<1	N	N	10	50	15	--	--
69CH210	ERV267	65 52 30	147 10 20	11	>20	0.5	1	--	--	0.03	N	N	N	<10	70	N	N	N	N	20	5	--	--
69CH211	ERV268	65 52 30	147 10 20	11	0.15	7	1.5	--	--	0.5	N	N	N	150	500	<1	N	N	20	70	15	--	--
69CH212	ERV269	65 52 20	147 10 20	11	0.1	7	1	--	--	0.7	N	N	N	200	300	1	N	N	10	70	20	--	--
69CH213	ERV270	65 52 05	147 10 50	11	0.3	2	0.3	--	--	0.15	N	N	N	30	100	<1	N	N	<5	10	<5	--	--
69CH214	ERV271	65 51 45	147 10 40	11	<0.05	5	1	--	--	0.3	N	N	N	50	150	<1	N	N	10	50	15	--	--
69CH215	ERV272	65 50 50	147 06 35	11	5	5	1.5	--	--	0.3	N	N	N	150	500	1	N	N	10	50	10	--	--
69CH216	ERV273	65 51 15	147 07 10	11	<0.05	0.5	0.07	--	--	0.2	N	N	N	10	700	<1	N	N	N	15	<5	--	--
69CH217	ERV274	65 51 25	147 06 50	11	5	10	5	--	--	1	N	N	N	10	150	N	N	N	50	200	70	--	--
69CH218	ERV275	65 51 40	147 07 10	11	>20	0.3	0.5	--	--	0.01	N	N	N	<10	<20	N	N	N	N	<10	7	--	--
69CH220	ERV276	65 52 10	147 06 50	11	0.05	0.7	0.3	--	--	0.1	N	N	N	20	500	1	N	N	N	10	<5	--	--
69CH221	ERV277	65 49 10	147 19 30	11	1	7	1.5	--	--	0.2	N	N	N	100	500	<1	N	N	10	70	30	--	--
69CH234	D-320136	65 58 00	147 22 41	14	7	2	2	N	N	<0.002	N	N	N	N	30	<1	N	N	N	70	20	N	N
69CH235	D-320137	65 58 11	147 23 40	12	>20	0.5	0.7	N	N	0.003	N	N	N	N	70	<1	N	N	N	20	5	N	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
69CH176	50	300	N	50	N	10	N	<5	N	<100	N	50	N	20	N	1000	--	N	N	0.1	N	15
69CH177	50	500	N	N	20	20	N	10	20	N	N	50	N	15	N	500	--	N	N	1.3	N	110
69CH179	50	150	N	N	20	10	N	<5	N	<100	N	30	N	10	N	150	--	N	N	1.2	N	80
69CH180	70	200	N	N	50	15	N	10	N	<100	N	50	N	20	1000	70	--	N	N	3.2	10	380
69CH181	20	300	N	N	20	<10	N	10	N	N	N	50	N	15	N	100	--	N	N	<0.1	<2	95
69CH182	N	200	7	N	50	N	N	7	N	N	N	150	N	<10	N	70	--	N	N	0.1	N	50
69CH183	N	1000	N	20	100	10	N	20	N	500	N	150	N	15	<200	50	--	N	N	0.2	N	90
69CH184	N	1000	N	N	N	N	N	<5	N	N	N	70	N	<10	N	100	--	N	N	N	N	N
69CH186	N	500	N	N	70	10	N	10	N	N	N	200	N	20	N	100	--	30	N	0.2	N	125
69CH187	N	700	N	N	50	N	N	20	N	N	N	200	N	30	N	50	--	N	N	0.1	N	35
69CH188	N	1000	N	N	15	N	N	30	N	100	N	500	N	20	N	30	--	N	N	0.1	N	85
69CH189	N	1000	N	N	70	N	N	30	N	<100	N	200	N	20	N	100	--	N	--	0.2	N	100
69CH190	N	50	N	N	N	N	N	N	N	N	N	<10	N	N	N	N	--	N	--	0.1	N	10
69CH191	30	300	N	<20	50	15	N	15	N	<100	N	200	N	20	<200	200	--	N	--	0.2	N	90
69CH192	N	1500	N	N	50	200	N	20	N	<100	N	200	N	10	500	100	--	N	N	0.6	N	280
69CH193	N	1500	N	N	70	20	N	20	N	N	N	200	N	10	N	100	--	N	N	0.2	N	135
69CH194	N	1000	N	N	50	<10	N	20	N	100	N	150	N	20	N	100	--	N	N	0.3	N	95
69CH195	N	700	N	N	50	<10	N	7	N	N	N	100	N	10	N	100	--	N	N	0.1	N	80
69CH196	N	150	N	N	<5	N	N	N	N	N	N	100	N	N	N	15	--	N	N	0.1	N	<5
69CH197	N	200	N	N	200	N	N	20	N	N	N	70	N	20	<200	50	--	N	N	N	N	40
69CH209	30	200	N	N	30	10	N	7	N	N	N	70	N	10	N	300	--	N	--	N	N	40
69CH210	N	100	N	N	N	<10	N	N	N	2000	N	10	N	10	N	50	--	N	--	N	N	5
69CH211	50	300	N	N	50	10	N	10	N	N	N	50	N	10	N	200	--	N	--	<0.1	N	85
69CH212	20	50	N	N	20	N	N	10	N	N	N	70	N	10	N	200	--	<10	--	0.1	N	40
69CH213	N	500	N	N	5	10	N	<5	N	N	N	20	N	10	N	150	--	N	--	<0.1	N	15
69CH214	<20	200	N	N	20	10	N	5	N	N	N	70	N	10	N	300	--	N	--	N	N	50
69CH215	30	500	N	N	20	15	N	7	N	100	N	50	N	15	N	300	--	N	--	0.1	N	25
69CH216	N	70	N	N	<5	N	N	N	N	100	N	15	N	N	N	150	--	N	--	N	N	N
69CH217	N	1000	N	N	50	N	N	30	N	200	N	150	N	15	N	100	--	<10	--	0.2	N	75
69CH218	N	1000	N	N	N	<10	N	N	N	3000	N	<10	N	N	N	20	--	N	--	N	N	N
69CH220	N	70	N	N	5	N	N	<5	N	N	N	20	N	<10	N	100	--	30	--	N	N	20
69CH221	N	200	N	N	30	10	N	10	N	N	N	20	N	10	N	150	--	N	--	N	N	50
69CH234	N	700	N	N	15	<10	N	N	N	300	N	15	N	15	N	<10	--	N	N	N	N	30
69CH235	N	300	N	N	N	<10	N	N	N	700	N	10	N	N	N	10	--	N	N	N	N	5

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
69WR341B	F-004045	65 31 31	149 29 45	13	<0.05	0.05	0.2	<0.2	<0.2	0.3	N	N	N	70	1500	<1	N	N	N	150	<5	7	N
70CH001	ERV278	65 23 00	147 52 40	11	<0.05	1.5	0.15	--	--	0.15	N	N	N	50	1000	<1	N	N	N	20	15	--	--
70CH002	ERV279	65 23 55	147 48 40	11	0.05	3	0.3	--	--	0.3	N	N	N	100	1000	1	N	N	10	30	20	--	--
70CH005	ERV281	65 29 20	147 06 20	11	0.15	7	1.5	--	--	0.5	N	N	N	20	200	<1	N	N	10	50	15	--	--
70CH006	ERV282	65 29 20	147 06 20	11	3	10	2	--	--	0.5	N	N	N	50	3000	1	N	N	20	150	10	--	--
70CH009	ERV283	65 29 25	147 04 50	11	2	10	1.5	--	--	0.7	N	N	N	100	700	1.5	N	N	10	100	15	--	--
70CH012	ERV284	65 37 40	147 08 10	11	<0.05	7	1	--	--	0.5	N	N	N	100	1000	<1	N	N	N	50	10	--	--
70CH013	ERV285	65 37 40	147 08 10	11	N	2	0.5	--	--	0.1	N	N	N	20	1000	N	N	N	<5	15	70	--	--
70CH014	ERV286	65 37 40	147 08 10	11	<0.05	2	0.5	--	--	0.3	N	N	N	30	2000	N	N	N	N	30	50	--	--
70CH015	ERV287	65 37 40	147 08 10	11	5	10	0.2	--	--	0.7	N	N	N	100	5000	N	N	N	50	700	150	--	--
70CH016	ERV288	65 37 30	147 08 00	11	5	5	1	--	--	0.7	N	N	N	30	>5000	<1	N	N	7	30	10	--	--
70CH017	ERV289	65 37 30	147 08 00	11	>20	0.7	1.5	--	--	0.07	N	N	N	N	700	N	N	N	N	20	10	--	--
70CH018	ERV290	65 40 45	147 02 00	11	0.5	0.5	0.02	--	--	0.07	0.5	N	N	10	70	N	N	N	N	<10	10	--	--
70CH019	ERV291	65 41 55	147 06 50	11	0.1	2	0.7	--	--	0.2	N	N	N	100	100	<1	N	N	<5	30	30	--	--
70CH020	ERV292	65 42 50	147 07 10	11	<0.05	7	1	--	--	0.2	N	N	N	100	100	<1	N	N	10	10	20	--	--
70CH022	ERV293	65 47 30	147 13 10	11	<0.05	5	1	--	--	0.15	N	N	N	15	2000	3	N	N	N	N	<5	--	--
70CH023	ERV144	65 47 35	147 04 10	11	>20	0.05	0.3	--	--	<0.002	N	N	N	N	50	N	N	N	N	N	<5	--	--
70CH024	ERV145	65 47 35	147 04 10	11	0.05	0.2	0.02	--	--	0.007	0.7	N	N	10	70	N	N	N	N	N	10	--	--
70CH025	ERV147	65 47 35	147 04 10	11	3	10	2	--	--	0.5	N	N	N	<10	50	N	N	N	30	500	20	--	--
70CH026	ERV146	65 48 25	147 04 30	11	0.1	10	2	--	--	0.3	<0.5	N	N	50	700	<1	N	N	20	300	100	--	--
70CH027	ERV151	65 48 25	147 04 30	11	3	10	7	--	--	0.5	N	N	N	10	200	N	N	N	30	500	30	--	--
70CH028	ERV152	65 50 20	147 01 50	11	0.1	10	1.5	--	--	0.5	N	N	N	70	500	<1	N	N	10	100	20	--	--
70CH033	ERV148	65 35 40	147 31 25	11	<0.05	0.1	0.02	--	--	0.1	N	N	N	10	100	N	N	N	N	10	10	--	--
70CH034	ERV149	65 35 40	147 31 25	11	>20	<0.05	0.2	--	--	<0.002	N	N	N	N	20	N	N	N	N	N	<5	--	--
70CH036	ERV150	65 51 00	147 06 25	11	0.1	2	0.05	--	--	0.02	N	N	N	50	100	N	N	N	N	<10	30	--	--
70CH039	ERV153	65 49 50	147 33 00	11	<0.05	0.07	0.03	--	--	0.05	N	N	N	15	300	N	N	N	N	<10	<5	--	--
70CH045	ERV154	65 50 15	147 10 10	11	0.05	5	1	--	--	0.5	N	N	N	30	700	<1	N	N	10	70	20	--	--
76WR41	D-320148	65 23 04	148 27 25	14	1.5	2	1	1.5	N	0.2	2	200	N	50	1000	2	N	N	15	15	150	15	N
82WR198	F-004046	65 22 48	148 23 35	14	3	7	5	2	0.2	0.5	N	N	N	10	700	N	N	N	70	150	30	30	N
86BD04	CFH882	65 37 23	147 20 40	31	1	10	5	--	--	0.7	N	N	N	20	500	<1	N	N	50	200	50	--	--
86BD05B	CFH883	65 37 16	147 21 11	31	1	20	0.2	--	--	0.05	<0.5	N	N	N	200	N	N	N	N	20	15	--	--
86BD06B	CFH884	65 30 58	147 34 38	20	1	7	3	--	--	1	<0.5	N	N	10	100	<1	N	N	70	50	200	--	--
86BD08	CFH885	65 30 52	147 34 33	21	20	<0.05	2	--	--	0.01	N	N	N	N	<20	N	N	N	N	N	N	--	--
86BD09	CFH886	65 30 50	147 34 28	21	>20	0.2	0.3	--	--	0.01	N	N	N	N	<20	N	N	N	N	N	<5	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
69WR341B	N	20	N	N	N	N	N	10	N	N	N	500	N	<10	N	70	N	N	N	N	N	N
70CH001	N	50	N	N	10	N	N	<5	N	N	N	100	N	<10	N	70	--	N	--	0.1	N	15
70CH002	20	100	N	N	20	10	N	10	N	N	N	100	N	15	N	200	--	N	--	1	N	120
70CH005	N	300	N	N	30	15	N	7	N	<100	N	70	N	15	N	500	--	N	--	N	N	60
70CH006	100	1000	N	N	30	100	N	20	N	700	N	100	N	50	N	300	--	N	N	N	N	35
70CH009	70	1000	7	N	30	30	N	7	N	500	N	70	N	30	N	700	--	N	N	0.1	N	40
70CH012	20	50	N	N	N	10	N	7	N	<100	N	50	N	15	N	700	--	N	N	0.1	N	20
70CH013	N	50	N	N	20	<10	N	N	N	N	N	70	N	N	N	50	--	N	N	0.2	N	65
70CH014	N	150	20	N	20	15	N	5	N	N	N	500	N	<10	N	100	--	N	N	0.1	N	10
70CH015	N	1500	N	N	150	<10	N	30	N	500	N	200	N	15	N	70	--	N	N	0.3	N	100
70CH016	20	500	N	20	10	<10	N	7	N	100	N	100	N	20	N	200	--	N	N	N	N	25
70CH017	N	700	N	N	<5	15	N	N	N	1000	N	50	N	10	N	30	--	N	N	0.2	N	10
70CH018	N	500	N	N	<5	N	N	N	N	N	N	N	N	N	N	200	--	<10	N	0.2	4	5
70CH019	N	100	N	N	15	<10	N	<5	N	N	N	50	N	<10	N	200	--	N	N	0.2	N	40
70CH020	N	500	N	N	30	N	N	<5	N	N	N	30	N	<10	N	150	--	N	N	0.1	N	80
70CH022	50	100	N	30	<5	<10	N	5	10	N	N	N	N	100	N	700	--	N	N	0.2	N	50
70CH023	N	150	N	N	<5	N	N	N	N	200	N	<10	N	N	N	N	--	N	N	1.2	N	5
70CH024	N	10	N	N	10	N	N	N	N	N	N	70	N	N	N	N	--	N	N	N	2	N
70CH025	N	300	N	N	100	N	N	20	N	<100	N	100	N	10	N	30	--	N	N	0.2	N	75
70CH026	N	200	5	N	200	10	N	20	N	N	N	200	N	15	N	100	--	N	N	0.1	4	100
70CH027	N	1000	N	N	100	10	N	20	N	150	N	100	N	20	300	100	--	N	N	1.2	N	270
70CH028	30	500	N	<20	50	30	N	10	N	N	N	100	N	20	N	1000	--	N	N	0.1	N	70
70CH033	N	15	N	N	<5	N	N	N	N	N	N	10	N	N	N	500	--	N	N	N	N	N
70CH034	N	150	N	N	N	<10	N	N	N	500	N	N	N	N	N	N	--	N	N	1	N	25
70CH036	N	50	N	N	5	N	N	<5	N	N	N	70	N	<10	N	70	--	40	N	0.1	2	5
70CH039	N	<10	N	N	N	N	N	N	N	N	N	20	N	N	N	50	--	N	N	N	N	N
70CH045	50	200	N	N	20	<10	N	7	N	N	N	50	N	10	N	300	--	N	N	<0.1	N	30
76WR41	50	300	N	<20	7	20	300	5	N	300	N	70	30	<10	N	150	N	60	N	0.4	66	70
82WR198	50	1000	N	20	100	N	N	20	N	1000	N	100	N	30	N	70	N	N	N	0.1	N	40
86BD04	<20	500	N	20	50	<10	N	15	N	100	N	150	N	20	N	150	--	N	N	N	N	100
86BD05B	<20	150	<5	N	15	30	N	<5	N	N	N	100	N	N	200	15	--	20	N	2.3	6	300
86BD06B	20	1000	N	30	50	N	N	20	N	<100	N	200	N	30	N	100	--	N	N	N	N	85
86BD08	N	10	N	N	N	N	N	N	N	150	N	10	N	N	N	10	--	N	N	N	N	N
86BD09	N	100	N	N	N	N	N	N	N	100	N	15	N	N	N	10	--	N	N	N	N	5

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
86BD10	CFH887	65 30 47	147 34 24	21	20	0.3	0.3	--	--	0.07	N	N	N	10	30	<1	N	N	N	<10	5	--	--
86BD13A	CFH888	65 37 45	147 12 58	12	15	2	2	--	--	0.2	N	N	N	30	2000	<1	N	N	20	70	20	--	--
86BD13B	CFH889	65 37 45	147 12 58	21	1.5	5	2	--	--	0.7	N	N	N	70	>5000	<1	N	N	50	50	50	--	--
86BD15	CFH890	65 40 56	147 59 15	21	20	0.2	0.7	--	--	0.05	N	N	N	15	500	<1	N	N	N	<10	5	--	--
86BD16	CFH891	65 41 01	147 59 08	31	2	3	2	--	--	0.5	N	N	N	20	150	<1	N	20	20	200	<5	--	--
86BD18	CFH892	65 43 20	147 45 33	21	>20	N	0.7	--	--	0.005	N	N	N	N	30	N	N	N	N	N	N	--	--
86BD24	CFH893	65 37 17	147 23 05	21	>20	<0.05	0.3	--	--	0.01	N	N	N	N	5000	N	N	N	N	N	N	--	--
86BD26	CFH894	65 38 14	147 48 58	31	1	5	2	--	--	0.3	N	N	N	10	30	N	N	N	30	70	10	--	--
86BD40	CFH895	65 29 12	147 33 09	21	20	0.07	0.3	--	--	0.01	N	N	N	10	30	N	N	N	N	N	N	--	--
86BD43	CFH896	65 29 30	147 32 50	32	2	5	2	--	--	0.5	N	N	N	<10	500	<1	N	N	30	200	5	--	--
86BD45	CFH897	65 29 29	147 32 18	21	>20	0.05	0.3	--	--	0.01	N	N	N	<10	70	N	N	N	N	N	N	--	--
86BD48	CFH899	65 38 26	147 10 10	21	>20	0.1	0.3	--	--	0.03	N	N	N	<10	100	N	N	N	N	<10	N	--	--
86BD49	CFH900	65 34 48	147 27 30	21	>20	<0.05	0.2	--	--	0.005	N	N	N	N	50	N	N	N	N	N	N	--	--
86CA01	CFH901	65 39 19	147 46 20	31	5	5	2	--	--	0.5	N	N	N	<10	150	<1	N	N	50	<10	70	--	--
86CA02	CFH902	65 39 18	147 46 25	29	2	1	1	--	--	0.15	N	N	N	10	700	N	N	N	10	10	N	--	--
86CA03	CFH903	65 39 14	147 46 35	31	7	3	10	--	--	0.07	N	N	N	<10	500	N	N	N	70	300	50	--	--
86CA04A	CFH929	65 39 14	147 46 37	28	0.05	0.7	0.3	--	--	0.15	N	N	N	30	500	<1	N	N	10	10	10	--	--
86CA04B	CFH904	65 39 14	147 46 37	34	<0.05	0.5	0.1	--	--	0.05	N	N	N	50	200	N	N	N	<5	<10	5	--	--
86CA05	CFH905	65 39 10	147 46 30	32	5	5	3	--	--	0.5	N	N	N	<10	50	N	N	N	50	100	70	--	--
86CA06	CFH906	65 39 12	147 46 19	32	2	5	>10	--	--	0.2	N	N	N	15	20	N	N	N	70	2000	15	--	--
86CA09	CFH907	65 38 32	147 46 34	22	0.2	5	>10	--	--	0.02	N	N	N	10	N	N	N	N	50	>5000	100	--	--
86CA10A	CFH908	65 38 06	147 47 55	35	1	0.15	>10	--	--	N	N	N	N	N	N	N	N	N	10	50	N	--	--
86CA10B	CFH909	65 38 06	147 47 55	35	N	<0.05	0.05	--	--	N	N	N	N	20	<20	N	N	N	N	N	N	--	--
86CA12A	CFH910	65 38 21	147 36 30	31	5	7	3	--	--	1	N	N	N	<10	30	<1	N	N	50	150	20	--	--
86CA12B	CFH911	65 38 21	147 36 30	31	5	7	2	--	--	0.7	N	N	N	<10	<20	<1	N	N	50	10	50	--	--
86CA14	CFH912	65 37 49	147 35 40	17	0.15	3	2	--	--	0.3	N	N	N	50	500	<1	N	N	10	70	10	--	--
86CA17	CFH913	65 42 38	147 31 20	32	3	3	5	--	--	0.15	N	N	N	20	20	N	N	N	30	100	7	--	--
86CA21	CFH930	65 42 16	147 32 30	32	10	5	7	--	--	0.1	N	N	N	15	50	N	N	N	50	500	50	--	--
86CA24	CFH914	65 41 47	147 34 40	31	2	5	5	--	--	0.5	N	N	N	30	100	N	N	N	30	100	10	--	--
86CA27	CFH916	65 44 37	147 21 23	31	2	5	5	--	--	0.7	N	N	N	10	50	N	N	N	30	150	20	--	--
86CA28	CFH917	65 44 26	147 21 38	31	5	5	5	--	--	0.2	N	N	N	50	100	N	N	N	50	50	50	--	--
86CA30	CFH918	65 45 57	147 11 56	17	0.1	3	2	--	--	0.3	N	N	N	30	100	<1	N	N	15	70	15	--	--
86CA31	CFH919	65 27 13	147 47 19	17	0.7	2	1	--	--	0.2	N	N	N	20	200	<1	N	N	15	300	10	--	--
86CA32	CFH935	65 27 20	148 46 38	32	5	5	5	--	--	0.5	N	N	N	<10	500	N	N	N	30	20	<5	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
86BD10	N	200	N	N	7	10	N	<5	N	N	N	20	N	20	N	30	--	N	N	0.6	N	40
86BD13A	<20	700	N	N	30	N	N	10	N	150	N	100	N	20	N	50	--	N	N	N	N	60
86BD13B	<20	300	N	20	30	<10	N	15	N	<100	N	150	N	20	N	100	--	N	N	N	N	110
86BD15	30	300	N	N	<5	15	N	<5	N	300	N	10	N	15	N	70	--	N	N	N	N	15
86BD16	N	1000	N	N	<5	20	N	15	N	300	N	150	N	20	700	100	--	N	N	15	N	2000
86BD18	N	100	N	N	N	N	N	N	N	200	N	N	N	N	N	N	--	N	N	0.1	N	10
86BD24	N	10	N	N	N	N	N	N	N	200	N	<10	N	N	N	<10	--	N	N	N	N	N
86BD26	N	1000	N	N	20	N	N	15	N	100	N	200	N	15	N	50	--	N	N	0.3	N	80
86BD40	N	10	N	N	N	N	N	N	N	200	N	10	N	N	N	10	--	N	N	N	N	5
86BD43	<20	500	N	N	20	<10	N	15	N	200	N	100	N	20	N	150	--	N	N	0.2	N	75
86BD45	N	10	N	N	N	<10	N	N	N	150	N	<10	N	N	N	10	--	N	N	N	N	10
86BD48	N	70	N	N	<5	20	N	<5	N	700	N	15	N	10	N	10	--	N	N	0.4	N	20
86BD49	N	15	N	N	N	<10	N	N	N	300	N	<10	N	N	N	<10	--	N	N	N	N	5
86CA01	N	1000	N	N	10	N	N	30	N	200	N	200	N	30	N	70	--	N	N	0.1	N	45
86CA02	N	150	N	N	10	<10	N	5	N	500	N	30	N	N	N	100	--	N	N	0.1	N	60
86CA03	N	700	N	N	150	N	N	20	N	300	N	70	N	N	N	N	--	N	N	0.2	N	60
86CA04A	N	70	N	N	30	N	N	5	N	N	N	70	N	10	N	50	--	N	N	0.2	N	25
86CA04B	N	70	N	N	7	N	N	<5	N	N	N	20	N	N	N	20	--	N	N	0.1	N	35
86CA05	N	1000	N	N	50	N	N	50	N	200	N	200	N	30	N	50	--	N	N	0.1	2	40
86CA06	N	1000	N	N	1000	N	N	20	N	N	N	100	N	10	N	20	--	N	N	0.3	N	30
86CA09	N	700	N	N	1000	N	N	7	N	N	N	50	N	N	N	N	--	N	N	0.1	N	20
86CA10A	N	20	N	N	150	N	N	N	N	N	N	N	N	N	N	N	--	N	N	0.1	N	<5
86CA10B	N	10	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	N	N	0.1	N	N
86CA12A	N	1000	N	N	70	N	N	30	N	150	N	200	N	50	N	70	--	N	N	0.1	N	65
86CA12B	N	1000	N	N	10	N	N	30	N	150	N	200	N	30	N	70	--	N	N	0.1	N	30
86CA14	N	700	N	N	20	N	N	10	N	<100	N	100	N	10	N	70	--	N	N	0.2	N	55
86CA17	N	1000	N	N	50	N	N	30	N	<100	N	150	N	10	N	N	--	N	N	0.2	N	5
86CA21	N	700	N	N	200	N	N	20	N	N	N	70	N	10	N	N	--	N	N	0.2	N	N
86CA24	N	1500	N	N	30	N	N	20	N	100	N	300	N	20	N	50	--	N	N	0.2	N	65
86CA27	N	1500	N	N	70	N	N	30	N	100	N	200	N	30	N	70	--	N	N	0.1	N	100
86CA28	N	1000	N	N	10	N	N	30	N	100	N	200	N	10	N	N	--	N	N	0.2	N	45
86CA30	N	1000	N	N	30	<10	N	15	N	100	N	150	N	15	N	70	--	N	N	0.3	N	95
86CA31	N	700	N	N	100	<10	N	15	N	100	N	100	N	20	N	100	--	N	N	0.6	N	95
86CA32	N	1000	N	N	30	N	N	30	N	200	N	300	N	10	N	30	--	N	N	0.2	N	75

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
86CA33	CFH920	65 27 20	148 46 08	32	N	5	>10	--	--	0.002	N	N	N	30	<20	N	N	N	70	5000	10	--	--
86CA34	CFH921	65 27 20	148 45 45	31	0.7	1	1.5	--	--	0.1	N	N	N	<10	>5000	N	N	N	15	50	N	--	--
86CA37	CFH934	65 26 20	147 36 10	31	2	5	5	--	--	0.3	N	N	N	30	100	N	N	N	30	200	30	--	--
86CA39A	CFH922	65 26 17	147 37 25	32	5	2	7	--	--	0.01	N	N	N	10	20	N	N	N	50	150	200	--	--
86CA39C	CFH923	65 26 17	147 37 25	31	2	10	5	--	--	1	<0.5	N	N	<10	20	<1	N	N	50	150	50	--	--
86CA41A	CFH925	65 25 49	147 39 31	31	2	5	2	--	--	0.7	N	N	N	<10	70	N	N	N	30	N	30	--	--
86CA41B	CFH926	65 25 49	147 39 31	32	N	3	>10	--	--	0.002	N	N	N	30	N	N	N	N	70	2000	10	--	--
86CA41C	CFH927	65 25 49	147 39 31	32	N	5	>10	--	--	0.002	N	N	N	50	N	N	N	N	70	2000	N	--	--
86CA45	CFH928	65 23 45	147 48 07	31	1.5	5	2	--	--	0.5	N	N	N	10	100	<1	N	N	30	10	20	--	--
86CA46	CFH932	65 23 00	147 49 20	32	N	5	>10	--	--	<0.002	N	N	N	20	<20	N	N	N	100	2000	<5	--	--
86CA47	CFH933	65 22 55	147 49 30	31	2	7	10	--	--	1	N	N	N	15	50	N	N	N	50	300	50	--	--
86DO002	CFH767	65 36 36	147 19 02	31	3	5	2	--	--	0.7	N	N	N	50	2000	1	N	N	50	200	50	--	--
86DO003	CFH768	65 36 34	147 18 43	31	3	5	3	--	--	0.7	N	N	N	<10	>5000	1	N	N	50	200	30	--	--
86DO004	CFH769	65 36 32	147 18 27	31	5	5	2	--	--	0.5	N	N	N	30	1000	<1	N	N	70	500	70	--	--
86DO009	CFH770	65 37 38	147 17 55	31	<0.05	1.5	1	--	--	0.5	<0.5	N	N	150	1000	1.5	N	N	N	100	7	--	--
86DO010	CFH771	65 37 25	147 17 48	31	20	2	2	--	--	0.7	N	N	N	<10	500	1	N	N	50	300	20	--	--
86DO032A	CFH772	65 35 13	148 28 52	34	<0.05	0.1	<0.02	--	--	0.015	N	N	N	50	200	N	N	N	N	N	<5	--	--
86DO033	CFH773	65 34 33	148 28 55	34	0.05	0.05	0.02	--	--	0.015	N	N	N	15	200	N	N	N	N	N	7	--	--
86DO034B	CFH774	65 34 30	148 28 30	21	20	<0.05	5	--	--	<0.002	N	N	N	15	N	N	N	N	N	N	N	--	--
86DO036	CFH775	65 33 53	148 30 20	21	>20	<0.05	7	--	--	<0.002	N	N	N	<10	<20	N	N	N	N	N	N	--	--
86DO040A	CFH776	65 30 51	148 51 15	18	20	0.3	0.5	--	--	0.05	N	N	N	20	150	<1	N	N	N	<10	10	--	--
86DO040B	CFH777	65 30 51	148 51 15	18	>20	1	1	--	--	0.05	N	N	N	15	500	<1	N	N	5	20	10	--	--
86DO040C	CFH778	65 30 51	148 51 15	18	0.07	3	2	--	--	0.3	N	N	N	70	1000	1	N	N	20	200	50	--	--
86DO043A	CFH779	65 30 56	148 51 15	34	0.05	0.7	0.5	--	--	0.1	N	N	N	50	300	<1	N	N	7	10	7	--	--
86DO046A	CFH780	65 30 43	148 51 17	34	0.2	1	0.5	--	--	0.1	N	N	N	50	200	<1	N	N	7	10	10	--	--
86DO062A	CFH781	65 36 02	147 32 42	16	<0.05	1.5	0.7	--	--	0.2	N	N	N	20	200	<1	N	N	15	70	10	--	--
86DO062D	CFH782	65 36 02	147 32 42	17	0.07	2	1	--	--	0.2	N	N	N	30	500	<1	N	N	15	100	15	--	--
86DO063A	CFH783	65 35 46	147 32 19	17	20	2	0.7	--	--	0.15	N	N	N	50	150	<1	N	N	10	150	10	--	--
86DO063B	CFH784	65 35 46	147 32 19	13	<0.05	0.05	0.05	--	--	0.002	N	N	N	<10	<20	N	N	N	N	N	N	--	--
86DO064	CFH785	65 35 47	147 32 10	25	<0.05	0.07	<0.02	--	--	0.1	N	N	N	20	50	N	N	N	N	<10	N	--	--
86DO065A	CFH786	65 35 40	147 28 48	32	5	5	5	--	--	0.7	N	N	N	20	100	<1	N	N	50	200	50	--	--
86DO065B	CFH787	65 35 40	147 28 48	32	5	5	5	--	--	0.5	N	N	N	50	300	<1	N	N	50	200	30	--	--
86DO065D	CFH788	65 35 40	147 28 48	32	2	7	5	--	--	0.7	N	N	N	10	20	<1	N	N	70	500	20	--	--
86DO066	CFH789	65 35 45	147 29 19	32	5	5	2	--	--	0.5	N	N	N	20	1000	<1	N	N	50	70	30	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
86CA33	N	500	N	N	1500	N	N	10	N	N	N	70	N	N	N	N	--	N	N	0.2	N	40
86CA34	N	200	N	N	50	N	N	<5	N	700	N	30	N	N	N	70	--	N	N	0.2	N	15
86CA37	N	1000	N	N	50	N	N	30	N	100	N	200	N	15	N	50	--	N	N	0.2	N	80
86CA39A	N	500	N	N	500	N	N	<5	N	N	N	N	N	N	N	<10	--	N	N	0.2	N	10
86CA39C	N	1000	N	N	30	N	N	50	N	<100	N	200	N	50	N	100	--	N	N	0.2	N	30
86CA41A	N	1000	N	N	5	N	N	30	N	200	N	200	N	30	N	50	--	N	N	0.2	N	40
86CA41B	N	500	N	N	1000	N	N	10	N	N	N	30	N	<10	N	N	--	N	N	0.2	N	25
86CA41C	N	500	N	N	1000	N	N	10	N	N	N	15	N	N	N	N	--	N	N	0.1	N	10
86CA45	N	1000	N	N	20	N	N	20	N	100	N	150	N	50	N	70	--	N	N	0.2	N	95
86CA46	N	500	N	N	1000	N	N	10	N	N	N	20	N	N	N	N	--	N	N	0.2	N	65
86CA47	N	1000	N	N	70	N	N	50	N	<100	N	200	N	50	N	70	--	N	N	0.1	N	55
86DO002	<20	700	N	N	70	<10	N	30	N	300	N	200	N	20	N	100	--	N	N	N	N	50
86DO003	20	700	N	N	70	N	N	20	N	100	N	200	N	20	N	100	--	N	N	0.1	N	95
86DO004	<20	1000	N	N	200	N	N	30	N	500	N	100	N	20	N	70	--	N	N	N	N	45
86DO009	50	70	N	30	10	<10	N	15	N	<100	N	100	N	20	N	200	--	N	N	N	N	35
86DO010	50	1000	N	20	70	<10	N	20	N	200	N	100	N	20	N	100	--	N	N	N	N	40
86DO032A	N	15	N	N	N	N	N	N	N	N	N	10	N	N	N	10	--	N	N	N	N	N
86DO033	N	<10	N	N	<5	N	N	N	N	N	N	100	N	N	N	15	--	N	N	0.2	N	20
86DO034B	N	10	N	N	N	N	N	N	N	<100	N	N	N	N	N	<10	--	N	N	0.2	N	10
86DO036	N	20	N	N	N	N	N	N	N	100	N	N	N	N	N	<10	--	N	N	N	N	N
86DO040A	N	150	N	N	7	<10	N	<5	N	500	N	50	N	10	N	15	--	N	N	0.1	N	20
86DO040B	N	5000	N	N	20	<10	N	5	N	500	N	50	N	15	N	20	--	N	N	N	N	30
86DO040C	N	300	N	N	100	10	N	15	N	100	N	100	N	20	N	100	--	N	N	0.2	N	110
86DO043A	N	70	N	N	15	N	N	5	N	N	N	30	N	10	N	50	--	N	N	N	N	15
86DO046A	N	100	N	N	15	N	N	5	N	N	N	50	N	15	N	70	--	N	N	0.1	N	30
86DO062A	N	500	N	N	30	N	N	10	N	<100	N	70	N	15	N	150	--	N	N	0.2	N	55
86DO062D	N	500	N	N	30	N	N	10	N	<100	N	100	N	15	N	70	--	N	N	0.1	N	55
86DO063A	N	1500	N	N	30	<10	N	10	N	1000	N	70	N	15	N	70	--	N	N	0.1	N	25
86DO063B	N	<10	N	N	N	N	N	N	N	N	N	10	N	N	N	N	--	N	N	N	N	N
86DO064	N	10	N	N	N	20	N	N	N	N	N	10	N	<10	N	300	--	N	N	N	N	<5
86DO065A	N	1000	N	<20	70	N	N	30	N	300	N	150	N	20	N	70	--	N	N	0.1	N	45
86DO065B	N	1000	N	<20	70	N	N	20	N	500	N	100	N	20	N	70	--	N	N	<0.1	N	35
86DO065D	50	1000	N	20	100	N	N	30	N	<100	N	150	N	30	N	100	--	N	N	<0.1	N	50
86DO066	<20	1000	N	<20	50	N	N	20	N	500	N	100	N	20	N	70	--	N	N	0.1	N	55

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
86DO067A	CFH790	65 35 40	147 29 05	32	2	5	2	--	--	0.7	N	N	N	20	300	1	N	N	50	50	70	--	--
86DO067B	CFH791	65 35 40	147 29 05	32	3	5	2	--	--	0.7	N	N	N	20	30	1	N	N	50	50	50	--	--
86DO068A	CFH792	65 36 00	147 31 15	25	<0.05	0.05	<0.02	--	--	0.1	N	N	N	<10	30	N	N	N	N	<10	<5	--	--
86DO068B	CFH793	65 36 00	147 31 15	25	<0.05	0.05	<0.02	--	--	0.1	N	N	N	<10	30	N	N	N	N	<10	<5	--	--
86DO069A	CFH794	65 36 40	147 27 50	31	2	10	3	--	--	1	N	N	N	20	1000	<1	N	N	70	100	50	--	--
86DO069B	CFH795	65 36 40	147 27 50	31	2	5	2	--	--	0.7	N	N	N	10	5000	<1	N	N	50	50	50	--	--
86DO070A	CFH796	65 36 35	147 27 35	21	>20	0.05	0.5	--	--	0.015	N	N	N	N	30	N	N	N	N	N	N	--	--
86DO071A	CFH797	65 36 53	147 29 07	31	2	5	1.5	--	--	1	N	N	N	10	500	<1	N	N	50	N	100	--	--
86DO072A	CFH798	65 36 48	147 30 09	31	2	5	2	--	--	0.7	N	N	N	10	200	<1	N	N	50	100	70	--	--
86DO073A	CFH799	65 36 35	147 29 50	25	<0.05	0.05	0.02	--	--	0.07	N	N	N	15	300	N	N	N	N	<10	<5	--	--
86DO074A	CFH800	65 40 18	147 19 42	25	0.1	0.5	0.05	--	--	0.1	<0.5	N	N	70	100	<1	N	N	5	20	5	--	--
86DO074B	CFH801	65 40 18	147 19 42	18	<0.05	1	0.1	--	--	0.2	<0.5	N	N	150	200	1	N	N	7	30	10	--	--
86DO075A	CFH802	65 41 13	147 20 53	16	0.3	3	1.5	--	--	0.3	N	N	N	20	100	<1	N	N	20	100	30	--	--
86DO075B	CFH803	65 41 13	147 20 53	25	0.5	2	1	--	--	0.3	N	N	N	15	150	<1	N	N	20	100	15	--	--
86DO076	CFH804	65 41 00	147 15 30	28	0.05	2	0.7	--	--	0.2	N	N	N	100	200	1	N	N	15	30	10	--	--
86DO077A	CFH805	65 40 22	147 12 10	25	<0.05	2	0.7	--	--	0.3	0.7	N	N	150	1000	2	N	<20	5	50	15	--	--
86DO077B	CFH806	65 40 22	147 12 10	28	1	3	1	--	--	0.7	0.7	N	N	10	2000	1	N	20	20	N	7	--	--
86DO077C	CFH807	65 40 22	147 12 10	31	3	5	5	--	--	1	N	N	N	50	1500	<1	N	<20	70	500	70	--	--
86DO077D	CFH808	65 40 22	147 12 10	31	3	5	2	--	--	0.7	N	N	N	20	1000	<1	N	N	50	150	50	--	--
86DO078A	CFH809	65 42 28	147 06 15	28	0.3	2	0.7	--	--	0.1	N	N	N	100	150	<1	N	N	15	10	10	--	--
86DO079A	CFH810	65 41 43	147 06 30	18	<0.05	2	0.5	--	--	0.2	N	N	N	100	100	<1	N	N	7	15	15	--	--
86DO079B	CFH811	65 41 43	147 06 30	18	<0.05	2	0.7	--	--	0.15	N	N	N	100	300	<1	N	N	15	10	15	--	--
86DO079C	CFH812	65 41 43	147 06 30	18	0.05	2	0.7	--	--	0.2	<0.5	N	N	100	300	<1	N	N	<5	20	10	--	--
86DO080	CFH813	65 41 51	147 05 59	25	<0.05	0.7	<0.02	--	--	0.15	N	N	N	15	50	N	N	N	N	<10	<5	--	--
86DO090A	CFH818	65 37 24	147 48 26	28	0.2	2	1	--	--	0.3	N	N	N	50	500	<1	N	N	20	150	15	--	--
86DO090B	CFH819	65 37 24	147 48 26	25	0.3	3	1.5	--	--	0.3	N	N	N	20	300	<1	N	N	20	100	20	--	--
86DO093	CFH820	65 43 18	147 32 29	28	<0.05	3	2	--	--	0.2	N	N	N	50	700	1	N	N	20	150	20	--	--
86DO099	CFH821	65 42 43	147 45 31	21	>20	N	0.15	--	--	0.005	N	N	N	N	<20	N	N	N	N	N	N	--	--
86DO100A	CFH822	65 42 30	147 38 40	28	0.2	3	1	--	--	0.5	N	N	N	70	300	1	N	N	10	<10	15	--	--
86DO100B	CFH823	65 42 30	147 38 40	34	N	1.5	0.2	--	--	0.15	N	N	N	50	200	<1	N	N	10	10	<5	--	--
86DO101A	CFH824	65 44 00	147 36 16	28	<0.05	3	1	--	--	0.3	N	N	N	150	500	2	N	N	15	70	15	--	--
86DO101B	CFH825	65 44 00	147 36 10	31	3	5	3	--	--	0.5	N	N	N	10	700	1	N	N	50	150	50	--	--
86DO102A	CFH826	65 43 53	147 28 00	28	<0.05	3	0.7	--	--	0.5	N	N	N	150	300	2	N	N	20	70	5	--	--
86DO102B	CFH827	65 43 53	147 28 00	28	<0.05	5	0.7	--	--	0.5	N	N	N	200	300	3	N	N	20	70	7	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
86DO067A	50	1500	N	30	70	N	N	30	N	500	N	200	N	50	N	100	--	N	N	<0.1	N	75
86DO067B	50	1500	N	20	50	<10	N	30	N	700	N	200	N	30	N	150	--	N	N	<0.1	N	40
86DO068A	N	10	N	N	N	N	N	N	N	N	N	15	N	N	N	300	--	N	N	N	N	N
86DO068B	N	30	N	N	N	N	N	N	N	N	N	15	N	N	N	300	--	N	N	0.1	N	20
86DO069A	50	1500	N	50	70	N	N	30	N	300	N	300	N	50	N	100	--	N	N	0.2	N	80
86DO069B	50	1000	N	20	50	N	N	20	N	500	N	200	N	30	N	100	--	N	N	0.1	N	65
86DO070A	N	20	N	N	N	N	N	N	N	300	N	10	N	N	N	<10	--	N	N	0.1	N	<5
86DO071A	30	1000	N	N	50	N	N	30	N	200	N	200	N	50	N	100	--	N	N	0.1	N	80
86DO072A	N	1000	N	N	70	N	N	30	N	300	N	200	N	20	N	50	--	N	N	0.1	N	45
86DO073A	N	10	N	N	N	N	N	N	N	N	N	20	N	<10	N	300	--	N	N	<0.1	N	200
86DO074A	N	500	N	N	20	N	N	<5	N	N	N	100	N	10	200	300	--	N	N	1.1	N	290
86DO074B	N	200	N	N	20	<10	N	7	N	N	N	150	N	15	<200	300	--	N	N	0.4	N	170
86DO075A	N	1000	N	N	50	<10	N	20	N	100	N	150	N	20	N	70	--	N	N	0.1	N	55
86DO075B	N	1000	N	N	50	<10	N	20	N	150	N	150	N	20	N	70	--	N	N	0.3	N	60
86DO076	N	500	N	N	50	<10	N	7	N	N	N	150	N	15	N	100	--	N	N	0.1	N	60
86DO077A	N	150	N	30	20	100	N	10	N	N	N	150	N	20	200	150	--	N	N	2	N	250
86DO077B	50	1000	N	70	N	150	N	10	N	500	N	100	N	50	1000	150	--	N	N	8.9	N	1100
86DO077C	20	1000	N	<20	200	<10	N	30	N	500	N	200	N	20	300	100	--	N	N	2.5	N	310
86DO077D	30	1000	N	<20	50	<10	N	30	N	500	N	200	N	20	N	100	--	N	N	0.2	N	60
86DO078A	N	1500	N	N	30	N	N	5	N	N	N	50	N	20	N	150	--	N	N	1.1	N	50
86DO079A	20	200	N	<20	30	<10	N	7	N	N	N	70	N	20	N	200	--	N	N	0.2	N	70
86DO079B	<20	200	N	N	30	N	N	5	N	N	N	70	N	10	N	150	--	N	N	0.1	N	55
86DO079C	<20	500	N	N	30	<10	N	7	N	N	N	70	N	20	N	150	--	N	N	0.4	N	110
86DO080	N	200	N	N	5	N	N	5	N	N	N	30	N	15	N	300	--	N	N	0.1	N	25
86DO090A	N	1000	N	N	50	<10	N	10	N	100	N	100	N	20	N	70	--	N	N	0.4	N	75
86DO090B	N	1000	N	N	50	<10	N	15	N	100	N	150	N	20	N	70	--	N	N	0.2	N	80
86DO093	N	300	N	N	100	<10	N	15	N	N	N	100	N	20	N	70	--	N	N	0.2	N	95
86DO099	N	300	N	N	N	N	N	N	N	700	N	<10	N	N	N	10	--	N	N	0.1	N	5
86DO100A	<20	500	N	N	10	<10	N	15	N	100	N	150	N	20	N	100	--	N	N	0.2	N	75
86DO100B	<20	100	N	N	10	N	N	7	N	N	N	50	N	<10	N	50	--	N	N	0.1	N	15
86DO101A	50	700	N	N	30	<10	N	10	N	N	N	100	N	20	N	100	--	N	N	0.2	N	95
86DO101B	N	1000	N	N	100	<10	N	15	N	500	N	100	N	20	N	70	--	N	N	0.2	N	85
86DO102A	70	500	N	N	50	<10	N	15	N	<100	N	100	N	20	N	100	--	N	N	0.1	N	70
86DO102B	50	200	N	N	50	<10	N	10	N	<100	N	100	N	20	N	100	--	N	N	0.2	N	75

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
86DO103A	CFH828	65 43 51	147 27 55	21	20	5	7	--	--	0.02	N	N	N	<10	20	N	N	N	7	15	7	--	--
86DO103B	CFH829	65 43 51	147 27 55	21	20	3	7	--	--	0.02	<0.5	N	N	10	<20	N	N	<20	N	10	50	--	--
86DO112A	CFH844	65 47 00	147 01 58	28	N	0.2	0.05	--	--	0.05	N	N	N	15	100	<1	N	N	N	N	5	--	--
86DO112B	CFH845	65 47 00	147 01 58	25	N	1.5	0.5	--	--	0.2	<0.5	N	N	200	5000	1.5	N	N	N	70	115	--	--
86DO113A	CFH846	65 47 03	147 04 00	28	<0.05	0.07	<0.02	--	--	0.02	N	N	N	30	100	N	N	N	N	N	<5	--	--
86DO114A	CFH847	65 47 26	147 04 18	21	>20	0.07	10	--	--	0.01	N	N	N	<10	50	N	N	N	N	N	N	--	--
86DO116A	CFH848	65 43 21	147 29 45	34	0.07	0.1	0.05	--	--	0.015	N	N	N	20	70	N	N	N	N	N	<5	--	--
86DO116B	CFH849	65 43 21	147 29 45	28	<0.05	3	0.7	--	--	0.3	N	N	N	100	500	2	N	N	30	50	10	--	--
86DO123A	CFH850	65 45 23	147 23 00	17	0.05	0.2	0.03	--	--	0.02	N	N	N	15	300	N	N	N	N	<10	5	--	--
86DO123B	CFH851	65 45 26	147 23 10	28	0.05	3	1	--	--	0.3	<0.5	N	N	100	500	1	N	N	15	150	20	--	--
86DO123C	CFH852	65 45 26	147 23 10	25	0.15	1.5	0.7	--	--	0.2	N	N	N	20	500	2	N	N	<5	N	<5	--	--
86DO124	CFH853	65 45 20	147 22 53	13	N	0.5	N	--	--	0.002	N	N	N	<10	100	N	N	N	N	N	5	--	--
86DO125	CFH854	65 45 18	147 22 45	21	>20	<0.05	>10	--	--	<0.002	N	N	N	N	<20	N	N	N	N	N	N	--	--
86DO135A	CFH855	65 52 47	147 15 53	25	0.05	1	0.03	--	--	0.07	N	N	N	10	<20	N	N	N	N	<10	<5	--	--
86KW04	CFH856	65 36 33	147 18 44	31	3	5	2	--	--	0.7	N	N	N	20	3000	<1	N	N	50	10	30	--	--
86KW07	CFH857	65 36 29	147 18 30	31	2	5	2	--	--	0.7	N	N	N	20	1500	<1	N	N	70	200	100	--	--
86KW09	CFH858	65 36 26	147 18 20	31	3	5	2	--	--	0.7	N	N	N	20	1000	<1	N	N	50	100	50	--	--
86KW14	CFH859	65 36 05	147 16 22	25	0.07	0.5	0.07	--	--	0.05	N	N	N	15	200	3	N	N	N	<10	<5	--	--
86KW15	CFH860	65 36 05	147 16 05	25	<0.05	0.7	0.05	--	--	0.07	N	N	N	30	500	<1	N	N	N	<10	<5	--	--
86KW16B	CFH861	65 41 08	147 10 18	25	10	1	0.5	--	--	0.1	N	<200	N	50	300	<1	N	N	N	50	<5	--	--
86KW18	D-320149	65 24 57	148 53 18	12	0.3	5	2	2	<0.2	0.5	N	N	N	70	1000	1.5	N	N	30	150	70	30	N
86KW19	D-320150	65 24 12	148 53 31	12	0.7	3	1.5	2	<0.2	0.5	N	N	N	20	700	<1	N	N	30	150	50	20	N
86KW20D	D-320151	65 20 51	149 01 49	12	0.15	5	0.3	0.7	<0.2	0.3	N	N	N	50	300	1	N	N	20	70	30	7	N
86KW21	D-320152	65 18 09	149 07 58	14	<0.05	0.15	<0.02	N	N	0.005	N	N	N	N	20	N	N	N	N	<10	<5	N	N
86KW22	D-320153	65 15 15	149 25 02	12	0.15	3	1.5	1	<0.2	0.3	N	N	N	30	1500	1	N	N	15	150	30	15	N
86KW27B	D-320154	65 28 18	148 19 23	12	0.7	5	2	1.5	<0.2	0.5	N	N	N	70	1000	1	N	N	20	150	50	20	N
86KW29	D-320155	65 26 23	148 47 52	12	0.15	3	0.7	1.5	<0.2	0.3	N	N	N	30	300	<1	N	N	10	200	30	10	N
86KW30	D-320156	65 24 57	148 53 18	12	3	3	0.3	2	0.7	0.3	N	N	N	20	300	<1	N	N	30	150	50	10	N
86KW34A	CFH862	65 42 19	147 06 10	35	<0.05	0.1	0.02	--	--	0.01	N	N	N	<10	20	N	N	N	N	N	<5	--	--
86KW36B	CFH863	65 42 22	147 06 25	17	0.05	0.7	0.05	--	--	0.1	N	N	N	70	150	N	N	<20	20	<10	<5	--	--
86KW36D	CFH864	65 42 22	147 06 25	35	N	1	<0.02	--	--	<0.002	N	N	N	<10	30	N	N	N	N	N	N	--	--
86KW39	D-320157	65 12 48	149 37 58	12	0.3	5	1	1	<0.2	0.5	0.7	N	N	50	1500	1	N	N	20	150	50	20	N
86KW40	D-320158	65 12 35	149 43 39	12	7	3	1	1.5	N	0.3	N	N	N	50	700	<1	N	N	15	150	30	15	N
86KW41	D-320159	65 10 19	149 57 09	12	0.5	3	1.5	1.5	N	0.3	N	N	N	20	1000	<1	N	N	20	200	30	15	N
86KW42	D-320160	65 11 05	149 52 52	12	0.7	5	1.5	1	<0.2	0.5	0.5	N	N	70	1000	1	N	N	15	150	30	15	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
86DO103A	N	>5000	N	N	30	<10	N	<5	N	200	N	15	N	10	N	N	--	N	N	1.1	N	250
86DO103B	N	>5000	N	N	10	300	N	<5	N	150	N	15	N	10	300	N	--	10	N	3.7	N	540
86DO112A	N	100	N	N	5	N	N	N	N	N	N	20	N	N	N	20	--	N	N	<0.1	N	10
86DO112B	20	15	N	N	50	N	N	10	N	N	N	200	N	10	N	100	--	N	N	0.5	N	30
86DO113A	N	<10	N	N	N	N	N	N	N	N	N	20	N	N	N	10	--	N	N	N	N	N
86DO114A	N	100	N	N	N	N	N	N	N	150	N	<10	N	N	N	<10	--	N	N	<0.1	N	5
86DO116A	N	500	N	N	<5	N	N	<5	N	N	N	20	N	N	N	<10	--	N	N	<0.1	N	5
86DO116B	30	2000	N	N	50	10	N	10	N	N	N	50	N	15	N	70	--	N	N	0.1	N	45
86DO123A	N	30	N	N	N	30	N	N	N	N	N	100	N	10	N	20	--	N	N	0.1	N	20
86DO123B	N	100	N	N	70	10	N	10	N	N	N	100	N	20	N	70	--	N	N	0.3	N	100
86DO123C	50	700	N	N	10	20	N	10	N	N	N	20	N	30	N	150	--	N	N	0.3	N	20
86DO124	N	300	N	N	<5	N	N	N	N	N	N	10	N	N	N	N	--	N	N	0.4	N	200
86DO125	N	50	N	N	N	<10	N	N	N	<100	N	N	N	N	N	N	--	N	N	0.3	N	65
86DO135A	N	150	N	N	N	N	N	N	N	N	N	20	N	10	N	1000	--	N	N	N	N	20
86KW04	<20	1000	N	<20	20	<10	N	15	N	100	N	200	N	15	N	70	--	N	N	N	N	85
86KW07	N	700	N	<20	70	N	N	30	N	500	N	200	N	20	N	70	--	N	N	0.2	N	90
86KW09	50	700	N	<20	50	N	N	30	N	700	N	200	N	30	N	100	--	N	N	N	N	70
86KW14	30	150	N	N	<5	20	N	<5	N	<100	N	10	N	30	N	100	--	N	N	N	N	20
86KW15	30	50	N	N	5	15	N	<5	N	<100	N	50	N	10	N	200	--	N	N	N	N	25
86KW16B	N	150	N	N	N	N	N	<5	N	150	N	50	N	15	N	300	--	180	N	0.1	2	10
86KW18	<50	1000	N	<20	70	30	N	20	N	N	N	150	N	30	200	200	--	30	N	0.1	16	120
86KW19	<50	1000	N	N	50	15	N	20	N	300	N	150	N	20	<200	70	--	20	N	0.1	10	75
86KW20D	50	300	5	20	50	20	N	7	N	N	N	70	N	30	N	700	--	30	N	0.1	12	65
86KW21	N	20	N	N	<5	N	N	N	N	N	N	10	N	N	N	15	--	10	N	N	16	N
86KW22	<50	200	N	<20	70	15	N	10	N	N	N	100	N	15	<200	150	--	10	N	0.3	4	65
86KW27B	<50	700	N	<20	50	20	N	20	N	<100	N	150	N	30	<200	150	--	N	N	0.1	4	120
86KW29	<50	500	N	<20	50	15	N	7	N	300	N	100	N	20	N	150	--	10	N	0.3	16	60
86KW30	50	>5000	5	<20	50	20	N	15	N	500	N	100	N	70	N	100	--	90	N	0.1	40	75
86KW34A	N	50	N	N	N	N	N	N	N	N	N	10	N	<10	N	10	--	N	N	N	N	25
86KW36B	N	5000	N	N	30	N	N	<5	N	N	N	50	N	10	N	100	--	N	N	6.1	N	150
86KW36D	N	700	N	N	N	N	N	N	N	N	N	N	N	<10	N	N	--	N	N	0.2	N	20
86KW39	<50	700	N	<20	70	30	N	15	N	N	N	200	N	30	<200	150	--	20	N	0.3	16	120
86KW40	<50	1000	N	N	50	30	N	7	N	500	N	150	N	20	N	100	--	10	N	0.4	4	65
86KW41	<50	700	N	N	100	30	N	10	N	150	N	150	N	15	N	70	--	N	N	0.2	2	65
86KW42	<50	500	N	<20	100	30	N	7	N	150	N	150	N	20	<200	200	--	10	N	0.6	2	90

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
86KW43C	D-320161	65 28 33	148 16 18	12	15	3	1	1.5	0.3	0.2	N	N	N	30	500	1	N	N	15	100	50	15	N
86KW44	D-320162	65 19 39	148 18 29	12	3	3	1.5	3	N	0.5	N	N	N	20	500	<1	N	N	30	200	30	20	N
86KW45	D-320163	65 24 42	148 13 43	12	3	5	1.5	1.5	<0.2	0.5	N	N	N	15	1500	<1	N	N	20	150	50	20	N
86KW47B	D-320164	65 30 51	148 51 09	12	0.2	3	1	2	N	0.3	N	N	N	10	300	1	N	N	<10	15	30	20	N
86KW48	D-320165	65 30 46	148 50 59	12	1	5	1	2	N	0.5	N	N	N	20	1000	1	N	N	15	20	30	20	N
86KW49	CFH865	65 43 40	147 24 40	28	N	0.15	0.07	--	--	0.07	<0.5	N	N	50	100	<1	N	N	N	<10	7	--	--
86KW50	CFH866	65 43 56	147 20 25	28	1	5	2	--	--	0.2	0.5	N	N	50	200	<1	N	N	30	100	30	--	--
86KW55	CFH867	65 47 43	147 02 19	21	1.5	0.5	1.5	--	--	0.05	N	N	N	20	100	N	N	N	N	<10	5	--	--
86KW56	CFH868	65 47 52	147 02 19	21	1	3	3	--	--	0.5	N	N	N	<10	150	<1	N	N	70	300	20	--	--
86KW58	CFH870	65 38 23	147 10 06	17	2	5	3	--	--	0.7	N	N	N	20	2000	<1	N	N	50	150	50	--	--
86KW59	CFH874	65 23 51	147 46 51	28	0.5	3	1.5	--	--	0.5	N	N	N	20	50	1	N	N	30	<10	15	--	--
86KW62	CFH875	65 24 00	147 47 45	17	0.05	2	0.7	--	--	0.2	N	N	N	50	500	1	N	N	<5	20	15	--	--
86KW68A	CFH876	65 37 15	147 21 10	16	1	5	2	--	--	0.7	N	N	N	15	1500	<1	N	N	70	200	100	--	--
86KW68B	CFH877	65 37 15	147 21 10	16	1	5	2	--	--	0.5	N	N	N	10	2000	<1	N	N	50	100	20	--	--
86KW68C	CFH878	65 37 15	147 21 10	31	1	7	2	--	--	0.7	N	N	N	10	1500	<1	N	N	50	100	50	--	--
86KW68F	CFH879	65 37 15	147 21 10	17	2	2	1.5	--	--	0.3	N	N	N	50	500	1	N	N	20	100	10	--	--
86KW69	CFH871	65 34 00	147 08 41	28	0.05	3	1	--	--	0.5	N	N	N	100	700	2	N	N	20	100	20	--	--
86KW70	CFH880	65 34 02	147 08 45	25	0.15	1.5	0.7	--	--	0.2	N	N	N	50	300	1	N	N	10	50	10	--	--
86KW70C	CFH881	65 34 02	147 08 45	28	0.1	1	0.5	--	--	0.2	N	N	N	150	300	1.5	N	N	10	20	10	--	--
86KW73	CFH872	65 34 42	147 09 30	25	0.1	1	0.3	--	--	0.2	N	N	N	20	200	<1	N	N	7	20	5	--	--
86KW74	CHZ137	65 34 47	147 10 12	16	<0.05	2	0.7	1.5	<0.2	0.1	N	N	N	10	500	N	N	N	<10	20	<5	15	N
86KW75	CFH873	65 34 47	147 10 18	31	1	5	2	--	--	0.5	<0.5	N	N	10	700	<1	N	N	50	100	100	--	--
86KW76	CHV170	65 35 08	147 12 38	25	0.15	1	0.1	--	--	0.15	N	N	N	30	500	N	N	N	N	20	10	--	--
86KW77	CHV171	65 35 15	147 12 18	25	<0.05	2	0.2	--	--	0.15	N	N	N	20	300	<1	N	N	<5	20	<5	--	--
86KW78	CHV172	65 35 14	147 14 15	28	<0.05	5	1	--	--	0.5	N	N	N	100	300	N	N	N	20	70	7	--	--
86KW78B	CHV179	65 35 14	147 14 15	31	0.5	7	1.5	--	--	0.5	N	N	N	N	500	N	N	N	30	<10	20	--	--
86KW79	CHV173	65 34 18	147 16 20	25	<0.05	5	0.7	--	--	0.2	N	N	N	50	200	N	N	N	10	50	20	--	--
86KW80	CHV174	65 33 49	147 17 39	25	0.1	1.5	0.3	--	--	0.2	N	N	N	20	200	N	N	N	10	20	N	--	--
86KW81A	CHV175	65 33 03	147 17 26	28	<0.05	5	1.5	--	--	0.5	N	N	N	100	1000	<1	N	N	10	150	20	--	--
86KW81B	CHV180	65 33 03	147 17 26	25	<0.05	1	0.03	--	--	0.07	N	N	N	10	70	N	N	N	N	10	<5	--	--
86KW82	CHV181	65 33 38	147 41 25	25	<0.05	2	0.5	--	--	0.15	N	N	N	20	300	N	N	N	<5	20	5	--	--
86KW83	CHV176	65 40 25	147 26 25	17	0.5	5	1.5	--	--	0.2	N	N	N	50	500	N	N	N	15	200	30	--	--
86KW85	CHV177	65 40 07	147 37 52	17	0.2	3	1	--	--	0.2	N	N	N	30	500	N	N	N	10	100	20	--	--
86MC01	CFH936	65 53 29	147 09 40	28	<0.05	3	1	--	--	0.5	N	N	N	300	300	3	N	N	20	100	20	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
86KW43C	<50	1000	N	N	30	30	N	10	N	1000	N	150	N	20	N	70	--	10	N	0.2	4	55
86KW44	<50	1500	N	<20	50	30	N	15	N	200	N	150	N	30	<200	150	--	N	N	0.1	2	95
86KW45	<50	1500	N	<20	50	20	N	15	N	200	N	200	N	20	N	100	--	10	N	0.4	4	75
86KW47B	<50	700	N	N	<5	30	N	15	N	300	N	100	N	30	N	200	--	20	N	0.1	6	60
86KW48	<50	700	N	<20	10	30	N	15	N	300	N	150	N	30	N	150	--	40	N	0.2	66	75
86KW49	N	10	N	N	N	N	N	<5	N	N	N	100	N	<10	N	50	--	N	N	N	N	N
86KW50	N	700	N	N	50	20	N	10	N	<100	N	150	N	20	N	100	--	30	N	0.5	N	140
86KW55	N	200	N	N	7	N	N	N	N	<100	N	70	N	10	N	15	--	10	N	0.2	2	30
86KW56	N	700	N	N	300	N	N	20	N	<100	N	150	N	20	N	50	--	N	N	0.2	N	80
86KW58	N	700	N	<20	50	<10	N	20	N	700	N	200	N	15	N	70	--	N	N	0.1	N	80
86KW59	N	1000	N	20	15	10	N	15	N	<100	N	200	N	20	N	100	--	N	N	N	N	250
86KW62	N	200	N	N	15	10	N	7	N	<100	N	100	N	20	N	300	--	10	N	0.2	N	75
86KW68A	N	700	N	30	70	<10	N	30	N	200	N	200	N	20	N	200	--	N	N	N	N	95
86KW68B	N	700	N	20	50	10	N	20	N	200	N	200	N	20	N	100	--	N	N	0.1	N	100
86KW68C	N	500	N	20	70	N	N	30	N	200	N	200	N	20	N	100	--	N	N	N	N	110
86KW68F	<20	500	N	<20	50	N	N	10	N	<100	N	150	N	20	N	100	--	N	N	N	N	65
86KW69	70	300	N	<20	50	10	N	20	N	<100	N	100	N	30	N	100	--	10	N	N	N	100
86KW70	<20	300	N	N	20	15	N	10	N	<100	N	70	N	20	N	150	--	N	N	N	N	65
86KW70C	<20	200	N	N	20	<10	N	7	N	N	N	70	N	20	N	150	--	N	N	N	N	40
86KW73	N	500	N	N	10	<10	N	5	N	N	N	50	N	10	N	200	--	N	N	N	N	35
86KW74	<50	70	N	N	10	N	N	N	N	N	N	20	N	N	<200	150	--	N	N	<0.1	N	10
86KW75	N	1000	N	N	50	10	N	20	N	200	N	150	N	20	<200	50	--	20	N	0.2	N	190
86KW76	<20	150	N	N	10	N	N	<5	N	N	N	20	N	10	N	200	--	N	N	N	N	20
86KW77	<20	100	N	N	20	50	N	<5	N	N	N	20	N	10	N	150	--	N	N	N	N	80
86KW78	30	100	N	N	20	10	N	10	N	N	N	30	N	15	N	100	--	N	N	N	N	85
86KW78B	N	500	5	N	15	15	N	5	N	<100	N	50	N	15	N	70	--	N	N	N	N	80
86KW79	20	150	N	N	20	<10	N	5	N	N	N	30	N	10	N	200	--	N	N	N	N	60
86KW80	N	200	N	N	10	10	N	<5	N	N	N	20	N	10	N	200	--	N	N	N	N	30
86KW81A	50	150	N	N	50	10	N	15	N	N	N	50	N	20	N	200	--	N	1	N	N	85
86KW81B	N	300	N	N	7	N	N	N	N	N	N	10	N	<10	N	200	--	N	N	N	N	20
86KW82	N	50	N	N	20	N	N	<5	N	N	N	20	N	N	N	200	--	N	N	N	N	20
86KW83	N	700	N	N	50	<10	N	10	N	<100	N	70	N	10	N	100	--	N	N	N	N	75
86KW85	N	500	N	N	20	N	N	10	N	N	N	70	N	10	N	50	--	N	N	N	N	70
86MC01	200	700	N	<20	50	15	N	30	N	100	N	150	N	50	N	200	--	20	N	0.2	N	130

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
86MC02	CFH937	65 53 27	147 10 03	34	2	2	1	--	--	0.07	N	N	N	50	500	N	N	20	15	20	10	--	--
86MC06	CFH941	65 29 09	147 04 31	14	2	0.5	<0.02	--	--	N	N	1000	N	300	70	7	N	N	15	N	N	--	--
86MC07	CFH942	65 16 37	147 12 49	25	<0.05	0.2	0.05	--	--	0.05	N	N	N	<10	<20	N	N	N	N	N	<5	--	--
86MC08	CFH943	65 16 53	147 01 17	25	<0.05	1	0.3	--	--	0.1	N	N	N	50	150	<1	N	N	7	20	7	--	--
86MC09	CFH944	65 22 00	147 02 27	25	0.05	0.2	<0.02	--	--	0.03	N	N	N	30	<20	5	N	N	N	N	<5	--	--
86MC10	CFH945	65 28 51	147 18 11	29	<0.05	1.5	1	--	--	0.2	N	N	N	50	300	1	N	N	5	20	5	--	--
86MC11	CFH946	65 28 29	147 18 03	29	0.07	1	0.07	--	--	0.07	N	N	N	10	100	7	N	N	<5	N	<5	--	--
86MC12	CFH947	65 28 20	147 18 25	29	0.05	0.7	0.05	--	--	0.07	N	N	N	20	100	7	N	N	<5	N	N	--	--
86MC13	CFH948	65 28 14	147 18 29	29	0.07	0.5	0.03	--	--	0.05	N	N	N	20	100	5	N	N	N	N	<5	--	--
86MC14	CFH949	65 28 09	147 18 31	29	0.07	0.5	0.03	--	--	0.05	N	N	N	20	50	10	N	N	N	N	N	--	--
86MC15	CFH950	65 28 49	147 16 20	25	<0.05	3	1	--	--	0.05	0.7	N	N	<10	<20	1	N	<20	20	<10	100	--	--
86MC17	CFH951	65 28 28	147 23 02	25	<0.05	2	0.7	--	--	0.5	<0.5	N	N	70	500	2	N	N	N	70	10	--	--
86MC19	CFH953	65 41 44	147 11 55	28	<0.05	2	0.7	--	--	0.3	0.5	N	N	100	200	1	N	N	N	30	15	--	--
86MC20	CHV138	65 40 53	147 11 42	25	<0.05	1	0.02	--	--	0.1	N	N	N	20	200	N	N	N	<5	15	<5	--	--
86MC21	CHV139	65 16 30	147 12 41	25	N	1	0.1	--	--	0.15	N	N	N	20	100	N	N	N	<5	15	<5	--	--
86MC23	CHV140	65 17 58	147 12 15	24	0.05	0.3	<0.02	--	--	0.05	N	N	N	<10	20	N	N	N	N	<10	5	--	--
86MC31A	CHV142	65 32 30	147 21 10	--	<0.05	0.7	0.03	--	--	0.05	N	N	N	10	200	1	N	N	N	N	<5	--	--
86MC31B	CHV143	65 32 30	147 21 10	--	N	10	<0.02	--	--	0.03	7	N	N	10	200	1	10	N	N	N	300	--	--
86MC31C	CHV144	65 32 30	147 21 10	--	<0.05	0.5	0.03	--	--	0.05	1	N	N	10	150	1	N	N	N	N	<5	--	--
86MC31D	CHV145	65 32 30	147 21 10	--	0.15	1	0.1	--	--	0.1	N	N	N	<10	50	N	N	N	N	10	<5	--	--
86MC34A	CHV146	65 37 03	147 22 45	--	3	7	3	--	--	0.7	N	N	N	<10	300	N	N	N	50	500	50	--	--
86MC36	CHV147	65 40 37	147 38 38	31	2	7	3	--	--	0.3	N	N	N	--	20	N	N	N	30	150	100	--	--
86MC37	CHV148	65 40 50	147 37 58	31	2	7	2	--	--	0.5	N	N	N	15	150	N	N	N	30	100	70	--	--
86MC38	CHV149	65 41 01	147 37 29	31	2	7	2	--	--	0.5	N	N	N	<10	50	N	N	N	30	100	100	--	--
86MC39	CHV150	65 39 04	147 44 23	31	2	7	3	--	--	0.5	N	N	N	<10	70	N	N	N	20	150	30	--	--
86MC40A	CHV151	65 39 20	147 46 20	32	<0.05	5	7	--	--	0.002	N	N	N	10	N	N	N	N	50	1000	10	--	--
86MC40B	CHV152	65 39 20	147 46 20	32	N	5	10	--	--	<0.002	N	N	N	10	N	N	N	N	70	1000	<5	--	--
86MC40C	CHV153	65 39 20	147 46 20	30	5	10	3	--	--	0.5	N	N	N	<10	70	N	N	N	50	100	100	--	--
86MC41A	CHV154	65 38 32	147 46 33	32	N	5	10	--	--	<0.002	N	N	N	30	N	N	N	N	70	1000	5	--	--
86MC41B1	CHV155	65 38 32	147 46 33	32	<0.05	7	10	--	--	0.5	N	N	N	<10	N	N	N	N	100	100	<5	--	--
86MC41B2	CHV156	65 38 32	147 46 33	32	N	5	10	--	--	0.002	N	N	N	50	N	N	N	N	100	1000	<5	--	--
86RI06	CFH955	65 29 03	147 04 30	30	<0.05	1	0.05	--	--	0.1	N	N	N	70	700	7	N	N	N	N	N	--	--
86RI09	CFH956	65 28 13	147 09 07	29	0.07	0.5	0.07	--	--	0.05	N	N	N	30	50	3	N	N	N	N	N	--	--
86RI23	CFH957	65 31 12	147 19 29	29	0.05	0.7	0.05	--	--	0.05	N	N	N	50	20	10	N	N	N	N	5	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
86MC02	N	700	N	N	20	15	N	10	N	300	N	70	N	15	1500	70	--	20	N	28	N	>2000
86MC06	>1000	1000	N	N	N	50	N	N	N	1000	>2000	N	N	>2000	N	<10	--	>2000	2	0.4	38	85
86MC07	N	70	N	N	<5	N	N	<5	N	N	N	<10	N	10	N	70	--	10	N	N	N	15
86MC08	300	100	N	N	10	20	N	5	N	<100	200	20	N	70	N	300	--	20	N	N	N	25
86MC09	30	100	N	N	<5	20	N	N	N	N	N	<10	N	20	N	70	--	N	N	N	N	15
86MC10	50	100	N	N	5	<10	N	7	N	<100	N	30	N	20	N	70	--	10	N	N	N	45
86MC11	70	150	N	N	N	30	N	5	N	<100	N	10	N	50	N	70	--	N	N	N	N	20
86MC12	70	200	N	N	N	30	N	5	<10	N	N	10	N	70	N	70	--	N	N	N	N	15
86MC13	50	150	N	N	N	30	N	<5	<10	N	N	<10	N	50	N	50	--	N	N	N	N	20
86MC14	50	150	N	N	<5	30	N	N	<10	N	N	<10	N	50	N	70	--	N	N	N	N	15
86MC15	N	300	<5	N	10	200	N	<5	N	N	N	10	N	20	200	100	--	10	N	26	N	620
86MC17	100	70	N	N	5	50	N	15	N	<100	N	70	N	20	N	100	--	N	N	N	N	25
86MC19	30	150	N	20	20	<10	N	10	N	N	N	100	N	30	N	150	--	N	N	0.2	N	95
86MC20	N	150	N	N	20	N	N	N	N	N	N	15	N	10	N	200	--	N	N	N	6	95
86MC21	N	20	N	N	15	N	N	<5	N	N	N	15	N	N	N	150	--	N	N	N	N	15
86MC23	N	100	N	N	10	N	N	N	N	N	N	<10	N	N	N	100	--	N	N	N	N	15
86MC31A	N	150	N	N	<5	50	N	<5	10	N	N	<10	N	30	N	50	--	N	N	0.6	N	15
86MC31B	30	100	N	N	<5	500	N	N	50	<100	N	10	N	20	3000	50	--	N	10	3	2	125
86MC31C	N	100	N	N	5	50	N	<5	10	N	N	<10	N	30	N	50	--	20	2	N	N	350
86MC31D	N	300	N	N	5	30	N	N	N	N	N	10	N	N	N	100	--	N	N	0.9	N	75
86MC34A	N	500	N	N	50	10	N	20	N	200	N	100	N	20	N	100	--	N	N	0.2	N	145
86MC36	N	500	N	N	50	N	--	20	N	N	N	200	--	15	N	--	--	N	N	0.1	N	85
86MC37	N	700	N	N	30	N	N	20	N	N	N	200	N	15	N	30	--	N	N	N	N	60
86MC38	N	500	N	N	20	N	N	15	N	N	N	150	N	10	N	20	--	N	N	N	N	65
86MC39	N	500	N	N	50	N	N	20	N	N	N	100	N	20	N	50	--	N	N	N	N	55
86MC40A	N	200	N	N	1000	N	N	5	N	N	N	10	N	N	N	N	--	N	N	N	N	15
86MC40B	N	200	N	N	1500	N	N	5	N	N	N	10	N	N	N	N	--	N	N	N	N	10
86MC40C	N	500	N	N	50	N	N	30	N	150	N	200	N	10	N	20	--	N	N	N	N	30
86MC41A	N	300	N	N	1000	N	N	5	N	N	N	15	N	N	N	N	--	N	N	N	N	20
86MC41B1	N	1500	N	N	150	N	N	20	N	N	N	200	N	<10	N	20	--	N	N	N	N	30
86MC41B2	N	300	N	N	1500	N	N	5	N	N	N	20	N	N	N	N	--	N	N	N	N	15
86RI06	50	100	N	<20	N	50	N	N	N	500	N	20	N	20	N	300	--	20	N	N	N	40
86RI09	20	100	N	N	<5	30	N	<5	N	N	N	<10	N	30	N	200	--	10	N	0.2	N	20
86RI23	100	150	N	<20	<5	20	N	<5	10	N	N	<10	N	50	N	150	--	10	6	N	N	15

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
86RI24	CFH958	65 31 12	147 19 00	29	0.07	0.5	0.1	--	--	0.1	N	N	N	30	200	3	N	N	N	N	N	--	--
86RI25	CFH959	65 28 50	147 23 30	29	0.05	0.5	<0.02	--	--	0.003	N	N	N	20	<20	30	50	N	N	N	5	--	--
86RI26	CFH960	65 27 56	147 21 12	25	<0.05	2	1	--	--	0.15	N	N	N	30	150	2	N	N	10	20	10	--	--
86RI28	CFH961	65 38 55	147 23 19	13	7	3	2	--	--	0.5	N	N	N	15	200	<1	N	N	50	150	20	--	--
86RI29	CFH962	65 38 45	147 23 09	13	10	3	2	--	--	0.5	N	N	N	<10	70	<1	N	N	30	70	70	--	--
86RI30	CFH963	65 38 42	147 23 02	13	5	5	3	--	--	0.7	N	N	N	10	20	<1	N	N	70	300	<5	--	--
86RI31	CFH964	65 38 39	147 21 58	14	5	5	3	--	--	0.5	N	N	N	30	300	<1	N	N	50	200	70	--	--
86RI32	CFH965	65 38 40	147 21 09	14	2	5	3	--	--	0.7	<0.5	N	N	50	2000	<1	N	N	70	200	200	--	--
86RI33	CFH966	65 38 35	147 20 19	14	1.5	7	2	--	--	0.7	N	N	N	10	500	<1	N	N	50	100	7	--	--
86RI34	CFH967	65 38 26	147 20 05	25	3	3	2	--	--	0.3	N	N	N	50	300	<1	N	N	15	70	10	--	--
86RI35	CFH968	65 38 03	147 19 35	14	3	5	3	--	--	1	N	N	N	15	300	<1	N	N	70	100	20	--	--
86RI36	CFH969	65 36 36	147 18 50	16	2	5	2	--	--	0.5	N	N	N	30	3000	1	N	N	50	<10	50	--	--
86RI37	CFH971	65 40 17	147 19 39	25	0.1	0.2	<0.02	--	--	0.1	N	N	N	20	50	N	N	N	N	<10	<5	--	--
86RI38	CFH970	65 40 33	147 22 15	16	0.2	3	1.5	--	--	0.3	0.7	N	N	20	500	<1	N	<20	20	100	15	--	--
86RI39	CFH972	65 34 50	147 09 32	25	<0.05	0.7	0.2	--	--	0.15	N	N	N	50	200	<1	N	N	7	20	<5	--	--
86RI41	CHV157	65 18 47	147 12 03	25	0.05	3	0.5	--	--	0.2	N	N	N	10	70	<1	N	N	5	30	7	--	--
86RI42	CHV158	65 22 50	147 20 13	28	0.2	2	0.5	--	--	0.1	N	N	N	20	100	N	N	N	5	30	10	--	--
86RI43	CHV159	65 36 48	147 20 45	30	1	10	2	--	--	0.7	N	N	N	10	1500	N	N	N	50	20	50	--	--
86RI45A	CHV161	65 37 56	147 47 39	32	5	7	3	--	--	0.3	N	N	N	15	<20	N	N	N	50	200	50	--	--
86RI45B	CHV162	65 37 56	147 47 39	32	<0.05	5	10	--	--	0.03	N	N	N	20	N	N	N	N	70	1500	100	--	--
86RI45C	CHV163	65 37 56	147 47 39	32	N	7	10	--	--	<0.002	N	N	N	20	N	N	N	N	70	1500	100	--	--
86RI51	CHV169	65 28 58	147 01 01	29	N	2	0.1	--	--	0.1	N	N	N	100	1000	<1	N	N	N	N	10	--	--
86RI52	CHV168	65 25 43	147 08 04	29	N	5	1	--	--	0.5	N	N	N	70	500	<1	N	N	10	100	20	--	--
86RI53	CHV178	65 29 57	147 02 02	22	0.1	5	1.5	--	--	0.2	N	N	N	10	300	1	N	N	10	50	20	--	--
86RM02A	CFH737	65 37 43	147 13 22	31	1	5	3	--	--	0.7	N	N	N	10	1000	<1	N	N	70	770	70	--	--
86RM03A	CFH738	65 38 57	147 02 05	31	0.5	5	3	--	--	1	N	N	N	20	300	1	N	N	70	200	70	--	--
86RM03B	CFH739	65 38 57	147 02 05	31	0.5	5	3	--	--	1	N	N	N	15	>5000	1	N	N	50	100	50	--	--
86RM04A	CFH740	65 39 04	147 02 45	20	3	2	1.5	--	--	0.15	N	N	N	30	1500	<1	N	N	7	50	15	--	--
86RM04B	CFH741	65 39 04	147 02 45	25	2	0.7	0.5	--	--	0.1	N	N	N	15	100	<1	N	N	<5	10	<5	--	--
86RM04C	CFH742	65 39 04	147 02 45	22	10	0.5	0.7	--	--	0.1	N	N	N	20	150	<1	N	N	<5	15	<5	--	--
86RM04F	CFH743	65 39 04	147 02 45	31	2	7	3	--	--	0.7	N	N	N	10	1000	N	N	N	70	300	70	--	--
86RM05A	CFH744	65 39 18	147 02 41	34	N	0.5	0.1	--	--	0.05	N	N	N	15	300	<1	N	N	N	<10	10	--	--
86RM06B	CFH746	65 39 25	147 03 24	25	0.3	1.5	1	--	--	0.3	N	N	N	10	1500	<1	N	N	10	30	7	--	--
86RM07A	CFH747	65 39 41	147 03 40	21	20	0.5	1.5	--	--	0.05	N	N	N	20	200	<1	N	N	5	15	<5	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
86RI24	30	100	N	N	<5	20	N	<5	<10	<100	N	10	N	20	N	50	--	N	N	N	N	30
86RI25	N	70	N	<20	N	20	N	10	10	N	N	<10	N	20	N	30	--	10	56	N	N	N
86RI26	20	100	N	N	20	10	N	7	N	N	N	20	N	20	N	200	--	30	N	N	N	65
86RI28	N	1000	N	N	70	N	N	20	N	300	N	100	N	20	N	70	--	N	N	N	N	60
86RI29	N	1000	N	N	50	<10	N	15	N	500	N	100	N	20	N	50	--	10	N	N	N	25
86RI30	N	700	N	<20	100	N	N	30	N	<100	N	100	N	20	N	70	--	N	N	N	N	50
86RI31	N	1000	N	N	70	N	N	30	N	200	N	150	N	20	N	50	--	N	N	N	N	60
86RI32	20	1000	N	<20	70	N	N	50	N	200	N	200	N	30	N	70	--	N	N	0.1	N	80
86RI33	N	1000	<5	30	30	N	N	10	N	300	N	100	N	20	N	100	--	N	N	0.2	N	100
86RI34	30	300	N	N	20	20	N	15	N	200	N	70	N	20	N	100	--	N	N	0.1	N	55
86RI35	20	1000	N	20	50	<10	N	20	N	500	N	150	N	20	N	100	--	N	N	0.1	N	100
86RI36	20	500	N	<20	30	N	N	20	N	500	N	200	N	20	N	100	--	N	N	N	N	100
86RI37	N	100	N	N	N	N	N	N	N	N	N	20	N	10	N	500	--	N	N	0.5	N	90
86RI38	N	1000	N	N	30	300	N	20	N	100	N	150	N	20	500	100	--	N	N	2	N	900
86RI39	N	100	N	N	10	<10	N	7	N	N	N	50	N	15	N	200	--	N	N	N	N	15
86RI41	N	150	N	N	15	<10	N	5	N	<100	N	30	N	10	N	500	--	N	N	N	N	35
86RI42	N	500	N	N	20	N	N	5	N	N	N	20	N	10	N	200	--	N	N	N	N	40
86RI43	N	500	N	N	30	N	N	10	N	200	N	150	N	10	N	150	--	N	N	0.3	N	120
86RI45A	N	500	N	N	100	N	N	30	N	N	N	150	N	20	N	50	--	N	N	N	N	30
86RI45B	N	700	N	N	700	N	N	10	N	N	N	30	N	N	N	N	--	N	N	N	N	5
86RI45C	N	500	N	N	700	N	N	N	N	N	N	10	N	N	N	N	--	N	N	N	N	10
86RI51	50	1000	N	N	N	50	N	N	<10	300	N	20	N	15	N	200	--	120	N	N	4	95
86RI52	50	150	N	N	30	15	N	10	N	N	N	50	N	15	N	100	--	10	N	N	N	100
86RI53	N	500	N	N	10	150	N	<5	10	200	N	70	N	30	N	>1000	--	20	N	N	N	125
86RM02A	30	700	N	30	70	N	N	50	N	150	N	200	N	50	N	200	--	N	N	0.2	N	105
86RM03A	30	500	N	20	200	<10	N	50	N	100	N	200	N	50	200	150	--	20	N	2	N	320
86RM03B	30	1000	N	20	50	100	N	30	N	300	N	200	N	30	200	150	--	N	N	0.7	N	320
86RM04A	N	300	N	N	20	<10	N	7	N	500	N	200	N	15	N	100	--	N	N	0.3	N	80
86RM04B	N	200	N	N	5	N	N	N	N	200	N	70	N	10	N	150	--	N	N	0.2	N	25
86RM04C	N	300	N	N	5	N	N	5	N	700	N	70	N	10	N	100	--	N	N	0.1	N	10
86RM04F	30	1000	N	<20	150	N	N	30	N	300	N	200	N	20	N	150	--	N	N	0.1	N	80
86RM05A	N	50	N	N	<5	N	N	N	N	N	N	70	N	N	N	20	--	N	N	0.1	N	5
86RM06B	30	100	N	50	15	10	N	10	N	<100	N	100	N	30	N	200	--	N	N	0.2	N	50
86RM07A	N	200	N	N	5	10	N	<5	N	700	N	20	N	<10	N	20	--	N	N	<0.1	N	30

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
86RM07D	CFH748	65 39 41	147 03 40	31	1.5	5	5	--	--	0.7	N	N	N	15	>5000	N	N	N	50	150	50	--	--
86RM08A	CFH749	65 39 51	147 04 00	31	1.5	5	5	--	--	0.5	N	N	N	10	300	N	N	N	70	50	70	--	--
86RM09A	CFH750	65 39 58	147 04 09	34	0.2	1	1	--	--	0.15	N	N	N	20	500	<1	N	N	N	20	15	--	--
86RM09B	CFH751	65 39 58	147 04 09	18	<0.05	1.5	0.7	--	--	0.1	N	N	N	20	700	<1	N	N	N	15	15	--	--
86RM10A	CFH752	65 40 06	147 04 20	18	0.2	2	1.5	--	--	0.5	N	N	N	<10	700	<1	N	N	30	70	20	--	--
86RM10B	CFH753	65 40 06	147 04 20	32	<0.05	2	1	--	--	0.5	N	N	N	200	1500	1.5	N	N	10	100	20	--	--
86RM11C	CFH754	65 37 29	147 22 18	32	1	7	2	--	--	0.7	N	N	N	10	500	<1	N	N	50	200	30	--	--
86RM12A	CFH755	65 37 31	147 21 52	29	0.3	1	0.1	--	--	0.05	N	N	N	10	3000	<1	N	N	N	10	10	--	--
86RM12C	CFH756	65 37 31	147 21 52	17	20	3	2	--	--	0.2	N	N	N	<10	300	<1	N	N	20	50	15	--	--
86RM13B	CFH757	65 37 28	147 21 43	21	20	<0.05	5	--	--	0.01	N	N	N	N	100	N	N	N	N	N	N	--	--
86RM13D	CFH758	65 37 28	147 21 43	21	>20	N	0.7	--	--	0.01	N	N	N	N	20	N	N	N	N	N	N	--	--
86RM14A	CFH759	65 37 03	147 22 47	31	2	3	2	--	--	0.3	N	N	N	10	300	<1	N	N	20	150	15	--	--
86RM14C	CFH760	65 37 03	147 22 47	31	2	5	3	--	--	0.7	N	N	N	N	200	<1	N	N	50	200	10	--	--
86RM14D	CFH761	65 37 03	147 22 47	21	>20	<0.05	0.3	--	--	0.01	N	N	N	N	<20	N	N	N	N	N	N	--	--
86RM15A	CFH762	65 37 09	147 22 51	21	>20	1	0.7	--	--	0.01	N	N	N	N	50	N	N	N	N	N	N	--	--
86RM16A	CFH763	65 37 29	147 23 10	16	0.7	0.5	0.2	--	--	0.1	N	N	N	30	200	<1	N	N	<5	<10	<5	--	--
86RM17A	CFH764	65 37 32	147 23 25	31	1.5	7	2	--	--	0.7	N	N	N	15	1000	<1	N	N	70	150	50	--	--
86RM17B	CFH765	65 37 32	147 23 25	31	2	5	2	--	--	0.7	N	N	N	10	500	<1	N	N	50	100	30	--	--
86RM22A	CFH718	65 53 28	147 14 39	32	1.5	7	2	--	--	0.7	N	N	N	10	300	<1	N	N	50	70	30	--	--
86RM24A	CFH719	65 53 29	147 09 24	28	<0.05	5	1.5	--	--	0.5	N	N	N	200	500	1.5	N	N	20	70	50	--	--
86RM25A	CFH720	65 53 34	147 09 52	21	10	3	1.5	--	--	0.5	N	N	N	N	300	<1	N	N	30	150	10	--	--
86RM25B	CFH721	65 53 34	147 09 52	32	0.5	5	1	--	--	0.5	0.7	N	N	10	300	2	N	N	15	30	15	--	--
86RM26A	CFH722	65 53 40	147 10 19	21	20	0.07	0.2	--	--	0.01	N	N	N	N	20	N	N	N	N	N	N	--	--
86RM27A	CFH723	65 54 07	147 08 07	31	5	5	2	--	--	0.15	N	N	N	<10	<20	N	N	N	50	150	100	--	--
86RM30A	CFH724	65 28 00	147 18 42	25	0.07	2	0.7	--	--	0.15	N	N	N	100	100	3	N	N	15	20	7	--	--
86RM33A	CFH725	65 27 54	147 20 19	25	<0.05	5	1.5	--	--	0.3	<0.5	N	N	100	300	2	N	N	20	70	20	--	--
86RM35B	CFH726	65 27 37	147 18 39	29	<0.05	1	0.05	--	--	0.02	0.7	N	N	200	50	10	N	N	N	N	10	--	--
86RM36A	CFH727	65 27 33	147 18 37	28	N	5	1.5	--	--	0.3	N	N	N	100	500	1	N	N	15	100	20	--	--
86RM40A	CFH728	65 26 44	147 19 15	25	<0.05	2	0.5	--	--	0.2	N	N	N	50	200	1	N	N	10	20	10	--	--
86RM41A	CFH729	65 26 22	147 19 55	25	N	3	0.5	--	--	0.2	N	N	N	30	150	1	N	N	10	20	10	--	--
86RM44A	CFH730	65 23 54	147 46 59	21	5	1.5	2	--	--	0.1	0.5	N	N	50	1000	1	N	N	7	30	50	--	--
86RM45B	CFH731	65 23 58	147 46 59	31	3	5	3	--	--	0.5	N	N	N	30	3000	<1	N	N	30	100	70	--	--
86RM49A	CFH732	65 38 39	147 50 51	34	0.1	0.2	0.1	--	--	0.05	N	N	N	20	200	N	N	N	N	N	5	--	--
86RM50A	CFH733	65 37 57	147 50 39	34	<0.05	0.15	0.05	--	--	0.05	N	N	N	100	700	<1	N	N	N	10	10	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
86RM07D	20	700	N	20	70	10	N	30	N	500	N	200	N	20	<200	100	--	N	N	1.7	N	320
86RM08A	<20	700	N	N	200	N	N	30	N	<100	N	150	N	15	N	70	--	N	N	0.3	N	110
86RM09A	N	150	N	N	20	N	N	7	N	N	N	100	N	10	N	100	--	N	N	0.2	N	45
86RM09B	<20	70	N	N	10	N	N	5	N	N	N	100	N	10	N	100	--	N	N	0.1	N	30
86RM10A	N	500	N	N	30	N	N	15	N	150	N	100	N	10	N	70	--	N	N	0.2	N	95
86RM10B	20	100	N	20	30	N	N	20	N	<100	N	100	N	30	N	200	--	N	N	0.1	N	30
86RM11C	N	700	N	20	50	<10	N	30	N	500	N	150	N	30	N	100	--	N	N	0.1	N	85
86RM12A	30	500	10	70	10	N	N	<5	N	200	N	15	N	70	N	200	--	N	N	0.1	N	10
86RM12C	N	1500	N	N	30	N	N	10	N	500	N	100	N	15	N	50	--	N	N	<0.1	N	45
86RM13B	N	20	N	N	N	N	N	N	N	N	N	10	N	N	N	10	--	N	N	N	N	N
86RM13D	N	10	N	N	N	N	N	N	N	150	N	<10	N	N	N	10	--	N	N	0.1	N	N
86RM14A	20	700	N	N	50	10	N	20	N	300	N	100	N	30	N	10	--	N	N	0.2	N	60
86RM14C	<20	1000	N	N	30	<10	N	20	N	500	N	100	N	50	N	100	--	N	N	0.2	N	70
86RM14D	N	15	N	N	N	N	N	N	N	200	N	<10	N	N	N	N	--	N	N	0.1	N	N
86RM15A	N	150	N	N	N	<10	N	N	N	100	N	20	N	N	N	N	--	N	N	N	N	50
86RM16A	N	100	N	N	N	<10	N	N	N	<100	N	50	N	15	N	700	--	N	N	0.9	N	10
86RM17A	20	1000	N	20	50	N	N	30	N	300	N	150	N	30	N	100	--	N	N	0.1	N	95
86RM17B	30	1000	N	20	50	<10	N	20	N	500	N	150	N	30	N	100	--	N	N	0.1	N	80
86RM22A	20	700	N	<20	50	N	N	20	N	200	N	100	N	30	N	100	--	N	N	0.2	N	70
86RM24A	50	200	N	20	50	<10	N	20	N	N	N	100	N	20	<200	100	--	N	N	0.2	N	115
86RM25A	50	700	N	N	70	<10	N	15	N	300	N	100	N	20	N	70	--	N	N	0.2	N	65
86RM25B	500	700	10	200	10	70	N	10	10	500	N	15	N	150	300	1000	--	N	N	0.7	N	570
86RM26A	N	150	N	N	N	<10	N	15	N	200	N	<10	N	10	N	15	--	N	N	0.1	N	30
86RM27A	N	700	N	N	70	N	N	50	N	100	N	20	N	20	N	15	--	N	N	0.2	N	50
86RM30A	N	100	N	N	30	10	N	7	N	<100	N	50	N	20	N	100	--	N	N	0.2	N	75
86RM33A	50	200	N	<20	30	10	N	15	<10	N	N	70	N	20	N	100	--	N	N	0.5	N	135
86RM35B	N	700	N	30	<5	70	N	7	15	<100	N	<10	N	70	N	50	--	N	N	0.3	N	70
86RM36A	100	200	N	N	50	50	N	20	N	<100	N	100	N	50	N	100	--	N	N	0.2	N	90
86RM40A	50	70	N	N	30	20	N	10	N	N	N	70	N	20	N	200	--	N	N	0.2	N	50
86RM41A	30	100	<5	N	20	10	N	7	N	N	N	50	N	20	N	200	--	N	N	0.2	N	50
86RM44A	20	200	N	N	20	10	N	5	N	500	N	200	N	20	N	50	--	N	N	1.5	N	115
86RM45B	<20	100	N	N	50	N	N	20	N	700	N	150	N	20	N	50	--	N	N	0.2	N	80
86RM49A	N	50	N	N	N	N	N	N	N	N	N	20	N	N	N	10	--	N	N	N	N	5
86RM50A	N	10	N	N	N	N	N	N	N	N	N	150	N	10	N	20	--	N	N	0.7	N	10

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
86RM51A	CFH734	65 37 51	147 50 39	31	1.5	5	2	--	--	0.3	N	N	N	15	N	N	N	N	50	100	5	--	--
86RM52B	CFH735	65 37 42	147 50 05	31	1.5	5	2	--	--	0.5	N	N	N	<10	30	<1	N	N	30	<10	50	--	--
86RM52C	CFH736	65 37 42	147 50 05	32	N	5	>10	--	--	0.002	N	N	N	15	N	N	N	N	70	1500	<5	--	--
86WR001A	CGF796	65 36 33	147 20 00	32	0.05	20	0.02	--	--	0.02	N	N	N	<10	500	1.5	N	N	N	N	5	--	--
86WR001B	CGF797	65 36 33	147 20 00	32	0.5	10	2	--	--	1	N	N	N	<10	1500	<1	N	N	30	N	30	--	--
86WR002	CGF798	65 33 45	147 08 30	28	0.15	5	1	--	--	0.7	N	N	N	150	500	1	N	N	20	70	20	--	--
86WR003	CGF641	65 23 08	147 52 49	16	<0.05	0.5	0.07	--	--	0.1	N	N	N	30	1000	<1	N	N	N	<10	<5	--	--
86WR004	CGF642	65 24 16	147 47 54	16	<0.05	0.5	0.1	--	--	0.15	N	N	N	20	700	<1	N	N	N	10	5	--	--
86WR005	CGF643	65 24 20	147 48 05	21	>20	<0.05	0.3	--	--	0.01	N	N	N	N	150	N	N	N	N	N	N	--	--
86WR007	CGF644	65 26 29	147 39 55	21	10	N	0.1	--	--	0.002	N	N	N	N	20	N	N	N	N	N	N	--	--
86WR008	CGF645	65 37 22	147 14 51	31	1.5	5	5	--	--	1	N	N	N	10	1000	<1	N	N	50	200	70	--	--
86WR009	CGF646	65 37 27	147 14 45	26	>20	0.07	1	--	--	0.005	N	N	N	N	70	N	N	N	N	N	N	--	--
86WR010A	CGF647	65 39 42	147 08 41	31	2	7	2	--	--	0.7	N	N	N	20	2000	<1	N	N	70	70	70	--	--
86WR010B	CGF648	65 39 42	147 08 41	28	20	0.7	1.5	--	--	0.15	N	N	N	20	200	<1	N	N	N	30	10	--	--
86WR011A	CGF649	65 39 50	147 08 41	31	3	7	3	--	--	1	N	N	N	10	300	1	N	N	70	200	50	--	--
86WR011B	CGF650	65 39 50	147 08 41	21	5	0.15	0.05	--	--	0.07	N	N	N	30	50	N	N	N	N	<10	<5	--	--
86WR012X	CGF651	65 39 38	147 08 40	25	2	5	3	--	--	0.5	N	N	N	<10	70	N	N	N	50	200	70	--	--
86WR013A	CGF652	65 23 20	148 00 35	31	2	5	2	--	--	0.5	N	N	N	<10	150	N	N	N	50	200	70	--	--
86WR013B	CGF653	65 23 20	148 00 35	25	<0.05	0.05	<0.02	--	--	0.1	N	N	N	15	70	N	N	N	N	<10	<5	--	--
86WR014A	CGF654	65 31 33	149 39 05	21	2	3	<0.02	--	--	0.015	0.5	N	N	10	70	N	N	N	N	<10	70	--	--
86WR014B	CGF655	65 31 33	149 39 05	21	10	0.3	1	--	--	0.015	0.5	N	N	20	200	N	N	N	N	10	7	--	--
86WR015	CGF656	65 31 15	147 39 00	31	1.5	10	2	--	--	0.5	<0.5	N	N	<10	30	N	N	<20	50	30	100	--	--
86WR016	CGF657	65 31 15	147 39 00	25	<0.05	0.3	<0.02	--	--	0.07	<0.5	N	N	10	1000	N	N	N	N	<10	<5	--	--
86WR017	CGF658	65 31 15	147 39 00	28	<0.05	2	0.5	--	--	0.5	<0.5	N	N	200	700	1.5	N	N	7	150	7	--	--
86WR018	CGF659	65 31 57	147 39 19	25	0.3	2	1	--	--	0.3	N	N	N	50	300	<1	N	<20	15	100	20	--	--
86WR018B	CGF660	65 31 57	147 39 19	13	>20	0.2	0.2	--	--	0.05	N	N	N	10	20	N	N	N	N	<10	7	--	--
86WR018C	CGF661	65 31 57	147 39 19	28	2	3	1	--	--	0.2	0.5	N	N	30	150	N	N	N	20	200	15	--	--
86WR019	CGF662	65 32 32	147 36 21	25	2	3	3	--	--	0.3	N	N	N	<10	20	<1	N	N	50	200	50	--	--
86WR020A	CGF663	65 33 35	147 31 11	31	3	5	3	--	--	0.7	N	N	N	15	30	<1	N	N	70	300	150	--	--
86WR021A	CGF664	65 41 00	147 09 55	31	2	5	2	--	--	0.7	N	N	N	20	500	<1	N	N	50	200	150	--	--
86WR021B	CGF665	65 41 00	147 09 55	25	0.5	2	0.2	--	--	0.2	1.5	N	N	30	700	<1	N	N	10	50	30	--	--
86WR022	CGF666	65 40 56	147 10 00	25	<0.05	0.2	<0.02	--	--	0.1	N	N	N	10	100	N	N	N	N	<10	<5	--	--
86WR023	CGF667	65 40 00	147 11 48	31	1	5	3	--	--	0.7	N	N	N	10	1500	<1	N	N	50	200	50	--	--
86WR024A	CGF668	65 40 08	147 07 53	28	0.05	1.5	1	--	--	0.2	<0.5	N	N	10	150	<1	N	N	30	30	70	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
86RM51A	N	700	N	N	50	N	N	30	N	<100	N	300	N	20	N	50	--	N	N	<0.1	N	75
86RM52B	N	1000	N	N	10	N	N	20	N	100	N	200	N	30	N	70	--	N	N	0.2	N	65
86RM52C	N	300	N	N	1000	N	N	7	N	N	N	20	N	N	N	N	--	N	N	<0.1	N	20
86WR001A	N	100	5	N	20	N	N	N	N	N	N	50	N	N	500	N	--	70	N	2.4	6	980
86WR001B	N	500	N	20	20	N	N	15	N	<100	N	150	N	20	<200	100	--	20	N	0.9	2	320
86WR002	30	500	N	20	30	10	N	15	N	N	N	100	N	30	N	150	--	10	N	0.1	2	130
86WR003	N	15	N	N	10	N	N	<5	N	N	N	70	N	10	N	70	--	N	N	N	N	15
86WR004	N	15	N	N	10	N	N	5	N	N	N	100	N	<10	N	70	--	N	N	N	2	25
86WR005	N	10	N	N	N	N	N	N	N	150	N	<10	N	N	N	<10	--	N	N	N	N	N
86WR007	N	N	N	N	N	N	N	N	N	N	N	<10	N	N	N	10	--	N	N	N	N	N
86WR008	N	1000	N	N	100	<10	N	20	N	200	N	150	N	20	N	70	--	N	N	0.2	N	80
86WR009	N	200	N	N	N	<10	N	N	N	500	N	20	N	<10	N	<10	--	N	N	0.2	N	35
86WR010A	20	1000	N	30	50	<10	N	20	N	200	N	150	N	20	N	100	--	N	N	0.1	N	65
86WR010B	N	700	N	N	7	10	N	5	N	700	N	20	N	20	N	150	--	N	N	0.3	N	35
86WR011A	70	1500	N	50	50	70	N	30	N	1000	N	200	N	30	<200	100	--	N	N	0.4	N	270
86WR011B	N	1000	N	N	N	<10	N	N	N	100	N	10	N	15	N	300	--	N	N	0.1	N	15
86WR012X	N	1000	N	N	50	N	N	20	N	150	N	150	N	20	N	50	--	N	N	N	N	55
86WR013A	N	1000	N	N	70	N	N	20	N	200	N	150	N	15	N	50	--	N	N	N	N	40
86WR013B	N	<10	N	N	N	N	N	N	N	N	N	10	N	N	N	150	--	N	N	N	N	N
86WR014A	N	200	N	N	<5	<10	N	N	N	150	N	10	N	10	N	70	--	30	N	0.1	6	10
86WR014B	N	300	N	N	15	10	N	N	N	200	N	50	N	15	N	50	--	N	N	2.6	2	140
86WR015	N	700	N	N	50	15	N	30	N	150	N	150	N	20	200	50	--	N	N	3	2	340
86WR016	N	15	N	N	<5	N	N	N	N	200	N	20	N	15	N	150	--	N	N	3	10	15
86WR017	30	100	N	N	30	10	N	15	N	100	N	150	N	30	N	100	--	20	N	3	2	60
86WR018	N	700	N	N	30	<10	N	15	N	100	N	100	N	15	200	70	--	N	N	0.1	2	70
86WR018B	N	1500	N	N	<5	N	N	5	N	1500	N	15	N	15	N	10	--	N	N	N	N	10
86WR018C	N	1500	N	N	30	20	N	15	N	500	N	100	N	15	N	50	--	30	N	N	N	40
86WR019	N	700	N	N	100	70	N	30	N	150	N	200	N	20	N	70	--	N	N	1.6	2	140
86WR020A	N	700	N	20	150	<10	N	30	N	200	N	200	N	20	N	100	--	N	N	N	N	40
86WR021A	N	1000	N	N	50	<10	N	50	N	<100	N	200	N	30	N	70	--	10	N	N	4	90
86WR021B	N	500	N	N	20	N	N	7	N	<100	N	70	N	20	N	150	--	120	N	N	30	15
86WR022	N	50	N	N	N	N	N	N	N	N	N	20	N	10	N	300	--	50	N	N	2	5
86WR023	N	700	N	N	70	N	N	30	N	500	N	100	N	20	N	70	--	N	N	0.2	N	80
86WR024A	N	300	N	N	50	30	N	7	N	100	N	100	N	15	N	100	--	100	N	0.3	N	50

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
86WR024B	CGF669	65 40 08	147 07 53	31	2	7	3	--	--	0.5	N	N	N	10	500	<1	N	N	70	300	70	--	--
86WR025A	CGF670	65 40 28	147 07 49	25	3	0.7	0.1	--	--	0.15	N	N	N	50	200	<1	N	N	5	<10	<5	--	--
86WR025B	CGF671	65 40 28	147 07 49	28	0.05	5	1.5	--	--	0.3	N	N	N	100	500	1.5	N	N	30	50	5	--	--
86WR026	CGF672	65 40 02	147 08 48	31	5	5	2	--	--	0.5	N	N	N	<10	3000	<1	N	N	50	200	100	--	--
86WR027A	CGF673	65 40 27	147 07 55	21	20	0.7	1	--	--	0.02	N	N	N	N	50	N	N	N	N	<10	7	--	--
86WR027B	CGF674	65 40 27	147 07 55	16	2	3	1	--	--	0.7	N	N	N	50	1000	<1	N	N	15	100	5	--	--
86WR028A	CGF675	65 39 55	147 10 57	28	10	2	1.5	--	--	0.15	N	N	N	20	300	<1	N	N	15	50	7	--	--
86WR028B	CGF676	65 39 55	147 10 57	25	<0.05	1	0.2	--	--	0.1	N	N	N	30	300	<1	N	N	7	<10	<5	--	--
86WR030	CGF677	65 40 20	147 10 42	31	1	7	2	--	--	0.7	N	N	N	20	500	<1	N	<20	50	50	15	--	--
86WR031	CGF678	65 40 10	147 11 00	28	5	2	1.5	--	--	0.2	N	N	N	50	700	1	N	N	10	70	10	--	--
86WR042A	CGF690	65 33 35	147 39 48	25	0.3	5	2	--	--	0.5	N	N	N	50	700	<1	N	N	30	150	50	--	--
86WR042B	CGF691	65 33 35	147 39 48	16	0.5	3	1.5	--	--	0.2	N	N	N	20	500	<1	N	N	20	150	20	--	--
86WR043A	CGF692	65 37 45	147 38 08	17	0.05	2	1	--	--	0.2	N	N	N	30	200	<1	N	N	5	150	10	--	--
86WR043B	CGF693	65 37 45	147 38 08	17	0.15	2	1.5	--	--	0.3	N	N	N	20	150	<1	N	N	15	50	20	--	--
86WR044	CGF694	65 42 38	147 27 40	25	N	0.07	0.05	--	--	0.07	N	N	N	100	>5000	<1	N	N	N	<10	5	--	--
86WR045A	CGF695	65 32 03	147 52 20	16	0.7	3	1.5	--	--	0.3	N	N	N	15	500	<1	N	N	20	100	20	--	--
86WR045B	CGF696	65 32 03	147 52 20	16	0.7	3	2	--	--	0.5	N	N	N	30	500	<1	N	N	30	150	20	--	--
86WR053E	CGF711	65 37 35	147 48 28	32	N	5	10	--	--	<0.002	N	N	N	100	N	N	N	N	100	1000	10	--	--
86WR054E	CGF714	65 37 56	147 47 40	32	N	3	10	--	--	0.01	N	N	N	150	N	N	N	N	100	3000	15	--	--
86WR054F	CGF715	65 37 56	147 47 40	19	0.05	2	0.5	--	--	0.2	N	N	N	10	200	<1	N	N	<5	10	15	--	--
86WR055	CGF716	65 40 22	147 45 36	34	N	0.1	0.1	--	--	0.01	N	N	N	15	30	N	N	N	N	<10	<5	--	--
86WR055B	CGF717	65 40 22	147 45 36	34	<0.05	0.3	0.2	--	--	0.07	N	N	N	15	50	N	N	N	N	<10	5	--	--
86WR056B	CGF718	65 43 16	147 32 29	17	0.7	3	3	--	--	0.2	N	N	N	20	300	<1	N	N	20	700	20	--	--
86WR056C	CGF719	65 43 16	147 32 29	21	1.5	5	3	--	--	0.3	N	N	N	15	100	<1	N	N	30	300	30	--	--
86WR057A	CGF720	65 44 05	147 29 18	34	2	0.2	1.5	--	--	0.05	N	N	N	20	70	N	N	N	N	10	10	--	--
86WR057B	CGF721	65 44 05	147 29 18	21	10	0.3	7	--	--	<0.002	N	N	N	N	<20	N	N	N	N	N	<5	--	--
86WR059B	CGF722	65 45 22	147 21 36	21	2	7	5	--	--	1	N	N	N	<10	150	<1	N	N	50	500	30	--	--
86WR060A	CGF723	65 24 50	149 47 32	21	20	0.15	10	--	--	0.002	N	N	N	N	N	N	N	N	N	N	5	--	--
86WR060B	CGF724	65 24 50	149 47 32	31	1.5	5	2	--	--	0.7	N	N	N	10	5000	<1	N	N	50	200	50	--	--
86WR061A	CGF725	65 44 36	147 21 28	32	<0.05	3	10	--	--	0.005	N	N	N	50	N	N	N	N	50	3000	<5	--	--
86WR061B	CGF726	65 44 36	147 21 28	32	1.5	5	5	--	--	0.5	N	N	N	<10	50	N	N	N	50	300	30	--	--
86WR062C	CGF727	65 43 33	147 29 47	21	>20	0.2	0.7	--	--	0.015	N	N	N	N	N	N	N	N	10	10	<5	--	--
86WR063	CGF728	65 43 50	147 29 59	34	0.2	0.5	0.05	--	--	0.05	N	N	N	30	70	<1	N	N	N	<10	10	--	--
86WR064A	CGF729	65 42 32	147 32 15	22	5	0.2	0.2	--	--	0.02	<0.5	N	N	70	150	N	N	N	N	<10	70	--	--
86WR064B	CGF730	65 42 32	147 32 15	34	0.7	1.5	1.5	--	--	0.15	N	N	N	<10	30	1	N	N	7	30	20	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
86WR024B	N	1000	N	<20	150	<10	N	20	N	200	N	100	N	20	N	70	--	N	N	0.1	N	85
86WR025A	N	500	N	N	5	N	N	5	N	500	N	20	N	15	N	100	--	N	N	N	N	10
86WR025B	20	500	N	N	50	N	N	10	N	<100	N	50	N	20	<200	150	--	N	N	N	N	110
86WR026	50	1000	N	30	50	<10	N	30	N	200	N	200	N	20	N	100	--	N	N	0.1	N	85
86WR027A	N	500	N	N	<5	<10	N	N	N	700	N	15	N	<10	N	10	--	N	N	N	N	10
86WR027B	30	700	N	30	7	N	N	15	N	200	N	150	N	20	N	150	--	N	N	N	N	25
86WR028A	N	500	N	N	15	10	N	7	N	500	N	70	N	15	N	70	--	30	N	0.1	N	55
86WR028B	N	100	N	N	5	N	N	5	N	N	N	20	N	10	N	200	--	N	N	N	2	25
86WR030	N	1000	N	<20	50	50	N	20	N	500	N	150	N	20	200	100	--	N	N	2.6	N	420
86WR031	30	300	N	N	20	15	N	15	N	300	N	50	N	15	N	100	--	N	N	N	N	45
86WR042A	N	1000	N	N	50	15	N	20	N	100	N	150	N	20	N	100	--	10	N	0.4	2	110
86WR042B	<20	1000	N	N	50	<10	N	20	N	150	N	150	N	20	N	70	--	10	N	0.3	N	85
86WR043A	N	300	N	N	50	10	N	10	N	N	N	100	N	10	N	100	--	N	N	0.1	N	50
86WR043B	N	700	N	N	30	<10	N	20	N	<100	N	100	N	20	N	100	--	N	N	0.5	N	90
86WR044	N	<10	N	N	N	N	N	N	N	100	N	70	N	20	N	50	--	N	N	N	N	5
86WR045A	N	1000	N	N	30	<10	N	15	N	150	N	150	N	20	N	70	--	N	N	0.1	N	55
86WR045B	N	1000	N	N	30	<10	N	20	N	150	N	150	N	20	N	70	--	N	N	0.1	N	55
86WR053E	N	500	N	N	1000	N	N	5	N	N	N	20	N	N	N	N	--	N	N	N	N	15
86WR054E	N	300	N	N	1500	N	N	10	N	N	N	30	N	N	N	N	--	N	N	N	N	10
86WR054F	N	500	N	N	10	10	N	15	N	<100	N	30	N	50	N	100	--	10	N	0.1	N	100
86WR055	N	15	N	N	10	N	N	N	N	N	N	<10	N	N	N	10	--	10	N	N	N	10
86WR055B	N	150	N	N	5	N	N	<5	N	N	N	20	N	N	N	30	--	10	N	N	N	10
86WR056B	N	700	N	N	200	<10	N	10	N	<100	N	100	N	70	N	50	--	10	N	0.2	N	55
86WR056C	N	700	N	N	100	N	N	10	N	<100	N	100	N	15	N	50	--	N	N	0.1	N	90
86WR057A	N	100	N	N	7	N	N	N	N	N	N	70	N	<10	N	20	--	10	N	0.2	N	45
86WR057B	N	100	N	N	N	N	N	N	N	N	N	<10	N	N	N	N	--	N	N	0.1	N	20
86WR059B	20	700	N	<20	300	N	N	15	N	100	N	100	N	15	300	100	--	40	N	0.3	4	810
86WR060A	N	300	N	N	N	N	N	N	N	<100	N	10	N	N	N	N	--	20	N	0.2	N	30
86WR060B	N	500	N	N	150	N	N	20	N	200	N	200	N	30	N	100	--	N	N	0.2	N	100
86WR061A	N	300	N	N	1000	N	N	10	N	N	N	50	N	N	N	N	--	N	N	N	N	20
86WR061B	N	1000	N	N	70	N	N	30	N	<100	N	200	N	30	N	70	--	N	N	N	N	80
86WR062C	N	3000	N	N	20	15	N	N	N	300	N	10	N	<10	N	10	--	N	N	N	N	130
86WR063	N	200	N	N	7	N	N	<5	N	N	N	50	N	<10	N	30	--	N	N	0.2	N	75
86WR064A	N	50	N	N	5	N	N	N	N	700	N	10	N	N	N	N	--	N	N	N	N	30
86WR064B	N	300	N	N	30	N	N	10	N	N	N	100	N	<10	N	50	--	N	N	0.1	N	30

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
86WR065B	CGF731	65 44 47	147 26 54	25	1	2	1	--	--	0.15	N	N	N	50	200	<1	N	N	10	150	10	--	--
86WR066	CGF732	65 44 41	147 24 48	21	7	0.2	5	--	--	0.005	N	N	N	<10	<20	N	N	N	N	N	<5	--	--
86WR066A	CGF733	65 45 23	147 19 51	34	N	0.1	0.02	--	--	0.02	N	N	N	20	50	N	N	N	N	N	<5	--	--
86WR067B	CGF734	65 45 31	147 23 32	25	3	3	2	--	--	0.15	N	N	N	20	200	<1	N	N	15	500	15	--	--
86WR068	CGF735	65 45 36	147 23 51	31	3	5	3	--	--	0.5	N	N	N	<10	150	<1	N	N	50	300	30	--	--
86WR069	CGF736	65 45 25	147 23 40	25	<0.05	2	0.2	--	--	0.2	N	N	N	30	700	1.5	N	N	7	<10	<5	--	--
86WR070A	CGF737	65 53 04	147 14 47	31	1.5	10	2	--	--	1	N	N	N	<10	300	<1	N	N	70	200	20	--	--
86WR070C	CGF738	65 53 04	147 14 47	16	2	10	2	--	--	1	N	N	N	10	150	1	N	N	50	200	30	--	--
86WR071	CGF739	65 53 32	147 19 42	28	<0.05	3	1	--	--	0.3	N	N	N	30	500	1.5	N	N	15	50	7	--	--
86WR072	CGF740	65 46 46	147 05 22	34	N	0.2	0.03	--	--	0.05	0.7	N	N	50	300	N	N	N	N	10	15	--	--
86WR073A	CGF741	65 46 24	147 04 41	21	7	1	10	--	--	0.07	N	N	N	30	50	N	N	N	N	15	5	--	--
86WR073B	CGF742	65 46 24	147 04 41	21	<0.05	>20	0.02	--	--	<0.002	N	N	N	N	150	N	N	N	N	N	7	--	--
86WR074	CGF743	65 46 18	147 04 35	31	5	5	3	--	--	0.3	N	N	N	<10	<20	N	N	N	20	10	70	--	--
86WR075A	CGF744	65 46 15	147 04 32	28	0.05	5	2	--	--	0.5	N	N	N	100	500	<1	N	N	20	150	30	--	--
86WR076	CGF745	65 46 08	147 04 38	29	0.15	0.7	0.05	--	--	0.05	N	N	N	500	50	5	N	N	N	N	<5	--	--
86WR077	CGF746	65 52 31	147 16 40	21	>20	0.5	0.5	--	--	0.1	N	N	N	50	50	N	N	N	N	20	5	--	--
86WR078	CGF747	65 52 35	147 18 59	20	2	5	2	--	--	1	N	N	N	10	500	<1	N	N	70	200	30	--	--
86WR079	CGF748	65 53 02	147 20 37	31	0.5	5	3	--	--	1	N	N	N	<10	70	<1	N	N	70	10	<5	--	--
86WR080	CGF749	65 47 35	147 04 22	21	10	0.2	7	--	--	0.003	N	N	N	N	<20	N	N	N	N	N	N	--	--
86WR081A	CGF750	65 47 38	147 04 22	21	>20	0.05	0.2	--	--	0.005	N	N	N	N	50	N	N	N	N	N	N	--	--
86WR081B	CGF752	65 47 37	147 04 22	21	0.05	20	0.15	--	--	0.03	3	200	N	<10	300	<1	N	N	50	30	70	--	--
86WR082	CGF753	65 47 40	147 04 23	31	2	5	3	--	--	0.5	N	N	N	10	<20	N	N	N	50	300	50	--	--
86WR083	CGF754	65 48 01	147 04 23	31	1	5	3	--	--	0.7	<0.5	N	N	<10	70	<1	N	N	70	200	30	--	--
86WR084	CGF751	65 48 04	147 04 41	31	1.5	5	2	--	--	1	N	N	N	10	700	1	N	<20	70	20	5	--	--
86WR084A	CGF755	65 48 04	147 04 41	25	0.2	2	1.5	--	--	0.3	N	N	N	20	700	<1	N	N	15	200	<5	--	--
86WR084B	CGF756	65 48 04	147 04 41	34	<0.05	3	0.5	--	--	0.1	0.5	N	N	20	700	5	N	30	5	20	30	--	--
86WR085A	CGF757	65 48 28	147 04 42	31	1	5	2	--	--	0.7	N	N	N	<10	700	1	N	N	20	<10	5	--	--
86WR085B	CGF758	65 48 28	147 04 42	31	2	10	1.5	--	--	1	0.7	N	N	<10	2000	<1	N	N	50	N	20	--	--
86WR085C	CGF759	65 48 28	147 04 42	30	2	3	2	--	--	0.3	N	N	N	20	200	<1	N	<20	30	200	5	--	--
86WR085D	CGF760	65 48 28	147 04 42	19	<0.05	5	1.5	--	--	0.5	N	N	N	100	500	1	N	N	20	200	50	--	--
86WR086A	CGF761	65 48 38	147 04 44	25	<0.05	1	0.3	--	--	0.1	N	N	N	70	2000	2	N	N	N	N	<5	--	--
86WR086B	CGF762	65 48 38	147 04 44	34	N	3	0.1	--	--	0.07	<0.5	200	N	20	1000	1	N	N	15	50	70	--	--
86WR087A	CGF763	65 47 14	147 12 59	21	20	0.7	10	--	--	0.005	N	N	N	<10	30	N	N	N	N	N	N	--	--
86WR087B	CGF764	65 47 14	147 12 59	25	1	5	2	--	--	0.7	N	N	N	15	500	1	N	N	20	20	20	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
86WR065B	N	700	N	N	50	<10	N	7	N	<100	N	70	N	15	N	200	--	10	N	0.4	N	140
86WR066	N	300	N	N	N	N	N	N	N	N	N	10	N	N	<200	N	--	N	N	0.6	N	220
86WR066A	N	20	N	N	N	N	N	N	N	N	N	20	N	N	N	15	--	N	N	N	N	55
86WR067B	N	2000	N	N	100	N	N	7	N	200	N	70	N	20	N	50	--	N	N	0.2	N	75
86WR068	N	1000	N	N	70	N	N	20	N	100	N	100	N	20	N	70	--	N	N	0.2	N	60
86WR069	50	200	N	N	7	<10	N	7	<10	N	N	30	N	30	N	150	--	N	N	0.1	N	35
86WR070A	30	1000	N	30	70	<10	N	15	N	500	N	100	N	30	N	150	--	N	N	N	N	150
86WR070C	50	1000	N	20	70	<10	N	20	N	700	N	150	N	30	N	150	--	N	N	N	N	100
86WR071	30	300	N	N	30	N	N	15	N	N	N	100	N	20	N	100	--	N	N	0.1	N	95
86WR072	N	50	N	N	N	20	N	<5	N	N	N	70	N	N	N	20	--	N	N	N	2	5
86WR073A	N	1000	N	N	10	N	N	5	N	N	N	30	N	N	N	10	--	N	N	0.1	N	30
86WR073B	N	3000	N	N	15	<10	N	N	N	N	N	10	N	N	200	10	--	10	N	0.2	N	85
86WR074	N	1000	N	N	15	N	N	20	N	100	N	150	N	20	N	50	--	N	N	N	N	70
86WR075A	20	1000	N	N	50	<10	N	20	N	N	N	200	N	30	N	100	--	N	N	N	N	95
86WR076	N	500	N	<20	<5	N	N	<5	N	<100	N	<10	N	15	N	70	--	N	N	0.1	N	15
86WR077	N	200	N	N	5	15	N	<5	N	1500	N	10	N	15	N	70	--	N	N	N	N	5
86WR078	100	500	N	70	100	<10	N	20	N	500	N	150	N	30	N	100	--	N	N	N	N	170
86WR079	N	500	N	20	50	10	N	20	N	200	N	150	N	20	<200	100	--	N	N	N	N	150
86WR080	N	300	N	N	N	<10	N	N	N	N	N	<10	N	N	N	N	--	N	N	0.1	N	30
86WR081A	N	100	N	N	N	<10	N	N	N	200	N	10	N	N	N	N	--	N	N	0.4	N	190
86WR081B	N	200	50	N	50	200	100	5	N	N	N	200	N	<10	<200	10	--	500	N	0.6	82	250
86WR082	N	700	N	N	100	N	N	20	N	200	N	100	N	20	N	20	--	N	N	0.1	N	70
86WR083	N	1000	N	N	50	10	N	30	N	100	N	150	N	20	N	70	--	10	N	0.2	N	75
86WR084	<20	500	N	<20	20	N	N	20	N	150	N	200	N	50	200	100	--	N	N	4.1	N	430
86WR084A	N	200	N	N	70	10	N	20	N	N	N	200	N	20	N	100	--	N	N	0.2	N	190
86WR084B	50	300	20	30	150	50	N	7	N	N	N	300	N	70	2000	150	--	20	N	33	15	>2000
86WR085A	30	1000	5	N	7	20	N	10	N	100	N	70	N	50	<200	100	--	N	N	1.3	N	190
86WR085B	50	1500	N	<20	<5	10	N	10	N	1000	N	50	N	70	<200	100	--	N	N	0.8	N	160
86WR085C	N	1000	N	N	50	150	N	15	N	200	N	100	N	20	200	70	--	10	N	2.5	N	560
86WR085D	30	300	N	N	100	<10	N	20	N	N	N	300	N	30	N	100	--	10	N	0.2	4	85
86WR086A	N	200	N	N	7	10	N	7	<10	<100	N	15	N	50	N	70	--	10	N	0.1	2	15
86WR086B	<20	100	7	N	70	<10	N	7	N	<100	N	200	N	15	N	30	--	150	N	0.1	14	45
86WR087A	N	1000	N	N	N	<10	N	N	N	<100	N	15	N	N	N	10	--	N	N	0.3	N	40
86WR087B	N	500	N	N	50	<10	N	15	N	<100	N	100	N	20	N	70	--	N	N	0.3	N	120

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
86WR088B	CGF765	65 47 21	147 13 18	13	0.05	7	5	--	--	0.5	N	N	N	<10	500	<1	N	<20	70	500	50	--	--
86WR092	CGF769	65 47 26	147 04 18	21	20	0.1	10	--	--	0.002	N	N	N	N	<20	N	N	N	N	N	N	--	--
86WR096	CGF773	65 28 49	147 19 19	29	0.15	1	0.1	--	--	0.1	N	N	N	15	200	3	N	N	N	N	N	--	--
86WR097	CGF774	65 28 06	147 19 08	25	0.1	2	0.3	--	--	0.1	N	N	N	15	<20	<1	N	N	N	<10	10	--	--
86WR098	CGF775	65 27 28	147 18 40	25	<0.05	3	0.7	--	--	0.1	N	N	N	10	50	<1	N	N	7	20	5	--	--
86WR099A	CGF776	65 25 08	147 21 35	25	0.15	0.5	0.05	--	--	0.07	N	N	N	15	50	<1	N	N	<5	<10	<5	--	--
86WR099B	CGF777	65 25 08	147 21 35	28	<0.05	3	1.5	--	--	0.5	N	N	N	150	1000	1	N	N	20	200	50	--	--
86WR100	CGF778	65 25 18	147 25 35	25	<0.05	1	0.1	--	--	0.05	N	N	N	10	100	<1	N	N	N	<10	<5	--	--
86WR101	CGF779	65 27 07	147 23 15	0	N	5	1	--	--	0.3	N	N	N	50	200	1	N	N	7	50	15	--	--
86WR108	CGF787	65 20 03	147 01 20	25	<0.05	0.5	0.1	--	--	0.1	N	N	N	20	100	<1	N	N	N	<10	<5	--	--
86WR109	CGF788	65 17 31	147 01 50	25	<0.05	1	0.3	--	--	0.2	N	N	N	20	70	<1	N	N	7	15	5	--	--
86WR110	CGF789	65 16 48	147 02 23	25	<0.05	3	1	--	--	0.3	N	N	N	200	300	1	N	N	5	30	10	--	--
86WR111	CGF790	65 16 54	147 05 00	25	<0.05	1.5	0.5	--	--	0.1	N	N	N	10	150	1	N	N	7	10	15	--	--
86WR112	CGF791	65 16 12	147 07 10	25	<0.05	1	0.2	--	--	0.15	N	N	N	10	100	<1	N	N	7	<10	<5	--	--
86WR113	CGF792	65 19 08	147 27 02	25	N	0.3	0.05	--	--	0.2	N	N	N	10	70	<1	N	N	<5	<10	<5	--	--
86WR114	CGF793	65 21 00	147 23 38	25	N	1.5	0.3	--	--	0.1	N	N	N	20	20	<1	N	N	<5	<10	<5	--	--
86WR115	CGF794	65 22 43	147 25 33	25	0.15	0.7	0.2	--	--	0.1	N	N	N	10	100	<1	N	N	7	10	<5	--	--
86WR117	CGF795	65 18 20	147 52 10	25	N	1	0.5	--	--	0.2	N	N	N	30	500	<1	N	N	7	50	10	--	--
86WR122B	CHV182	65 40 48	147 11 50	25	<0.05	0.2	0.02	--	--	0.1	N	N	N	20	150	N	N	N	N	20	<5	--	--
86WR123	CHV183	65 16 54	147 11 20	25	<0.05	1.5	0.7	--	--	0.2	N	N	N	20	200	<1	N	N	5	30	5	--	--
86WR124	CHV184	65 15 58	147 06 48	25	2	0.2	0.05	--	--	0.07	N	N	N	15	100	N	N	N	N	10	5	--	--
86WR126A	CHV185	65 13 47	147 25 41	24	<0.05	0.3	0.1	--	--	0.07	N	N	N	<10	150	N	N	N	N	10	<5	--	--
86WR126B	CHV186	65 13 47	147 25 41	25	N	0.2	0.07	--	--	0.07	N	N	N	<10	150	N	N	N	N	10	<5	--	--
86WR127	CHV187	65 18 47	147 12 04	24	0.05	3	1.5	--	--	0.3	N	N	N	20	300	<1	N	N	<5	50	7	--	--
86WR128	CHV188	65 18 06	147 12 18	25	<0.05	1	0.2	--	--	0.15	N	N	N	10	100	N	N	N	<5	10	<5	--	--
86WR130A	CHV189	65 25 14	147 25 14	25	0.07	7	0.1	--	--	0.15	N	N	N	<10	200	N	N	N	10	10	5	--	--
86WR130B	CHV190	65 25 14	147 25 14	18	<0.05	5	1.5	--	--	0.3	N	N	N	70	700	N	N	N	15	100	15	--	--
86WR136A	CHV193	65 26 25	147 03 58	25	N	1	0.2	--	--	0.15	N	N	N	30	100	N	N	N	5	20	5	--	--
86WR136B	CHV192	65 26 25	147 03 58	24	N	1	0.2	--	--	0.15	N	N	N	20	200	N	N	N	<5	20	5	--	--
86WR137	CHV194	65 24 40	147 01 54	24	N	0.5	0.1	--	--	0.1	N	N	N	10	1000	<1	N	N	N	15	5	--	--
87BD09	CHZ245	65 21 55	149 46 10	21	20	<0.05	0.5	N	N	N	N	N	N	N	200	N	N	N	N	N	N	N	N
87BD10	CHZ246	65 21 54	149 46 20	21	20	<0.05	0.5	N	N	N	N	N	N	N	5000	N	N	N	N	N	<5	N	N
87BD18	CHZ247	65 23 45	149 43 59	28	0.2	0.7	0.05	N	N	0.07	N	N	N	50	300	N	N	N	N	10	70	<5	N
87BD20	CHZ248	65 25 34	149 49 38	21	20	0.15	0.5	N	N	0.02	N	N	N	N	100	N	N	N	N	10	<5	N	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
86WR088B	N	500	N	N	150	<10	N	30	N	N	N	150	N	20	200	50	--	10	N	4	N	260
86WR092	N	200	N	N	N	<10	N	N	N	N	N	N	N	N	N	<10	--	N	N	0.1	N	20
86WR096	N	150	N	N	<5	50	N	5	N	<100	N	10	N	70	N	200	--	N	N	N	N	30
86WR097	N	>5000	N	N	5	10	N	<5	<10	N	N	30	N	15	N	150	--	10	N	0.2	N	150
86WR098	N	500	<5	N	20	10	N	5	N	<100	N	30	N	15	N	200	--	N	N	N	N	65
86WR099A	N	300	N	N	5	10	N	N	N	N	N	15	N	<10	N	100	--	N	N	N	N	20
86WR099B	70	150	N	N	30	30	N	20	<10	N	N	100	N	30	N	150	--	10	N	0.3	N	55
86WR100	N	50	N	N	5	30	N	N	N	N	N	20	N	<10	N	100	--	N	N	N	N	25
86WR101	20	200	N	N	30	20	N	10	N	N	N	50	N	15	N	150	--	N	N	N	N	110
86WR108	N	20	N	N	5	N	N	<5	N	N	N	50	N	<10	N	100	--	10	N	N	N	10
86WR109	N	70	N	N	15	10	N	5	N	N	N	50	N	15	N	500	--	N	N	N	N	20
86WR110	N	100	N	N	<5	20	N	10	N	N	N	70	N	15	N	500	--	N	N	N	N	60
86WR111	N	100	N	N	10	15	N	5	N	<100	N	30	N	20	N	700	--	10	N	N	N	20
86WR112	N	300	N	N	15	<10	N	<5	N	N	N	20	N	20	N	500	--	N	N	N	N	15
86WR113	N	100	N	N	<5	N	N	<5	N	N	N	20	N	N	N	300	--	N	N	N	N	<5
86WR114	N	100	N	N	5	<10	N	<5	N	N	N	20	N	20	N	300	--	N	N	N	N	30
86WR115	N	150	N	N	5	<10	N	<5	N	<100	N	20	N	10	N	200	--	N	N	N	N	15
86WR117	N	100	N	N	10	10	N	7	N	N	N	30	N	10	N	200	--	10	N	N	N	35
86WR122B	N	100	N	N	5	N	N	N	N	N	N	15	N	N	N	200	--	110	N	N	4	15
86WR123	N	50	N	N	10	10	N	5	N	N	N	30	N	10	N	300	--	N	N	N	N	30
86WR124	N	150	N	N	5	N	N	N	N	N	N	10	N	<10	N	100	--	N	N	N	N	15
86WR126A	N	150	N	N	7	N	N	N	N	N	N	15	N	N	N	70	--	N	N	N	N	15
86WR126B	N	30	N	N	5	N	N	N	N	N	N	10	N	N	N	100	--	N	N	N	N	5
86WR127	N	100	N	N	10	15	N	7	N	N	N	50	N	10	N	70	--	N	N	N	N	60
86WR128	N	100	N	N	10	10	N	<5	N	N	N	15	N	10	N	200	--	N	N	N	N	20
86WR130A	N	3000	N	N	20	10	N	5	N	N	N	10	N	20	N	200	--	N	N	0.2	N	20
86WR130B	50	150	N	N	20	10	N	10	N	N	N	50	N	20	N	500	--	N	N	N	N	65
86WR136A	<20	50	N	N	20	<10	N	<5	N	N	N	20	N	<10	N	200	--	N	N	N	N	25
86WR136B	<20	30	N	N	10	<10	N	<5	N	N	N	20	N	10	N	200	--	N	N	N	N	20
86WR137	N	30	N	N	5	N	N	N	N	N	N	50	N	<10	N	30	--	N	N	N	N	10
87BD09	N	200	N	N	N	N	N	N	N	<100	N	N	N	N	N	N	--	N	N	0.2	N	5
87BD10	N	300	N	N	N	N	N	N	N	<100	N	N	N	N	N	N	--	N	N	0.1	N	15
87BD18	N	500	N	N	10	N	N	N	N	N	N	20	N	N	<200	<10	--	N	N	0.4	2	65
87BD20	N	700	N	N	N	N	N	N	N	100	N	10	N	N	N	10	--	N	N	0.2	N	10

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87BD22	CHZ249	65 25 36	149 49 27	34	0.2	0.5	0.3	<0.2	N	0.07	N	N	N	<10	>5000	N	N	N	N	10	20	<5	N
87BD23	CHZ250	65 23 51	149 50 37	21	20	<0.05	0.5	N	N	<0.002	N	N	N	N	50	N	N	N	N	N	N	N	N
87BD24	CHZ251	65 23 57	149 50 32	21	20	<0.05	0.5	N	N	0.002	N	N	N	N	200	N	N	N	N	N	N	N	N
87BD25	CHZ252	65 22 17	149 49 34	21	>20	<0.05	0.7	N	N	<0.002	N	N	N	N	100	N	N	N	N	<10	N	N	N
87BD26	CHZ253	65 23 53	149 51 00	34	0.1	0.2	0.1	N	N	0.05	N	N	N	50	5000	N	N	N	N	15	20	N	N
87BD27	CHZ254	65 24 18	149 50 22	21	>20	0.1	1	N	N	0.005	N	N	N	N	100	N	N	N	N	N	<5	N	N
87BD28	CHZ255	65 24 14	149 50 52	21	>20	0.1	1	N	N	0.002	N	N	N	N	300	N	N	N	N	<10	<5	N	N
87BD32	CHZ256	65 24 06	149 56 16	20	0.2	3	2	2	N	0.5	N	N	N	20	1000	N	N	N	<10	200	30	15	N
87BD33	CHZ257	65 24 29	149 56 38	20	<0.05	3	1.5	2	N	0.2	N	N	N	30	100	N	N	N	<10	200	100	20	N
87BD37	CHZ258	65 25 48	149 57 30	16	<0.05	5	0.7	N	N	0.2	N	N	N	20	1000	N	N	N	<10	150	50	15	N
87BD38	CHZ259	65 25 48	149 57 38	31	20	5	5	1	N	0.5	N	N	N	N	>5000	N	N	N	30	500	50	20	N
87BD47	CHZ260	65 55 33	147 08 08	21	>20	0.1	0.2	N	N	0.01	N	N	N	N	20	N	N	N	N	N	N	N	N
87BD49	CHZ261	65 55 46	147 08 41	28	0.1	2	1	0.5	N	0.3	N	N	N	50	500	N	N	N	<10	70	20	20	N
87BD53	CHZ262	65 56 25	147 07 07	31	3	7	10	2	N	>1	N	N	N	N	300	N	N	N	50	700	50	20	N
87CA006A	D-320177	65 37 56	148 44 45	14	2	7	7	2	N	0.5	N	N	N	<10	1500	N	N	N	30	200	150	20	N
87CA006Z	CHZ412	65 37 57	149 44 45	31	2	5	7	3	N	0.5	N	N	N	<10	2000	N	N	N	30	200	100	20	N
87CA007A	D-320178	65 43 06	148 59 50	14	3	7	7	2	N	>1	N	N	N	<10	1000	N	N	N	30	100	300	20	N
87CA031A	CHZ413	65 24 18	149 46 45	32	1.5	2	10	<0.2	N	0.002	N	N	N	50	20	N	N	N	100	1500	<5	N	N
87CA031B	CHZ414	65 24 23	149 46 45	29	0.05	1	1	5	<0.2	0.05	N	N	N	20	1000	2	N	N	N	20	<5	30	N
87CA031D	CHZ417	65 24 13	149 46 48	32	0.07	1	0.15	<0.2	N	<0.002	N	N	N	N	50	N	N	N	50	3000	15	N	N
87CA031E	CHZ418	65 24 12	149 46 55	31	5	7	7	3	N	0.5	N	N	N	N	3000	1.5	N	N	30	100	15	20	N
87CA031G	CHZ415	65 24 12	149 46 48	29	<0.05	0.3	0.2	3	<0.2	0.02	N	N	N	70	1500	1	N	N	N	<10	<5	15	N
87CA031H	CHZ416	65 24 12	149 46 48	29	<0.05	0.15	0.3	5	<0.2	0.05	N	N	N	70	2000	1	N	N	N	<10	<5	30	N
87CA049D	CHZ419	65 23 40	149 43 47	31	<0.05	7	10	<0.2	N	<0.002	N	N	N	N	<20	N	N	N	100	2000	7	<5	N
87CA052A	CHZ420	65 23 24	149 41 48	31	0.3	3	>10	<0.2	N	N	N	N	N	N	<20	N	N	N	50	500	<5	N	N
87CA052B	CHZ421	65 23 24	149 41 48	31	10	5	10	N	N	0.005	N	300	N	N	50	N	N	N	100	1500	10	5	N
87CA053	CHZ422	65 22 28	149 41 32	28	2	2	>10	N	N	0.003	N	N	N	N	20	N	N	N	150	1000	7	<5	N
87CA058A	CHZ423	65 21 56	149 39 31	28	<0.05	0.15	0.5	N	<0.2	0.1	N	N	N	100	>5000	N	N	N	N	50	10	<5	N
87CA058B	CHZ424	65 21 56	149 39 31	28	<0.05	3	0.5	<0.2	0.3	0.1	5	N	N	50	>5000	N	N	N	N	200	20	10	N
87CA058C	CHZ425	65 21 56	149 39 31	29	0.05	5	0.5	0.7	0.2	0.2	<0.5	N	N	<10	5000	1.5	N	N	20	300	70	20	N
87CA062	CHZ426	65 22 09	149 34 35	29	1.5	5	3	3	<0.2	0.3	N	N	N	<10	3000	1.5	N	N	20	20	20	20	N
87CA101F	CHY521	65 41 30	149 50 28	31	2	5	5	3	N	0.5	N	N	N	<10	1500	N	N	N	20	200	15	20	N
87DO023A	CHY485	65 23 45	149 48 35	12	<0.05	7	2	2	<0.2	0.7	N	N	N	100	1500	<1	N	N	<10	150	50	20	N
87DO023B	CHY486	65 23 45	149 48 35	14	1	5	5	5	<0.2	0.2	N	N	N	<10	1000	<1	N	N	20	200	20	30	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87BD22	N	50	N	N	5	N	N	N	N	N	N	70	N	N	N	<10	--	N	N	<0.1	N	20
87BD23	N	300	N	N	N	N	N	N	N	<100	N	N	N	N	N	N	--	10	N	0.2	N	N
87BD24	N	500	N	N	N	N	N	N	N	<100	N	<10	N	N	N	N	--	N	N	0.2	N	10
87BD25	N	200	N	N	N	N	N	N	N	200	N	10	N	N	N	N	--	N	N	0.5	N	10
87BD26	N	10	N	N	<5	N	N	N	N	N	N	100	N	N	N	<10	--	20	N	<0.1	6	10
87BD27	N	500	N	N	N	N	N	N	N	200	N	<10	N	N	N	N	--	N	N	N	N	N
87BD28	N	200	N	N	N	N	N	N	N	200	N	<10	N	N	N	N	--	N	N	0.1	N	10
87BD32	N	300	N	N	70	10	N	7	N	N	N	200	N	10	<200	150	--	N	N	0.4	N	110
87BD33	N	500	N	N	70	30	N	10	N	N	N	200	N	15	<200	150	--	40	N	0.3	4	115
87BD37	N	200	N	N	50	N	N	5	N	N	N	200	N	<10	300	70	--	N	N	0.2	2	350
87BD38	N	500	N	N	100	N	N	15	N	200	N	100	N	<10	200	20	--	N	N	0.2	N	300
87BD47	N	100	N	N	N	<10	N	N	N	N	N	N	N	N	N	N	--	N	N	0.5	N	80
87BD49	N	200	N	N	15	30	N	10	N	N	N	100	N	10	200	100	--	N	N	0.3	N	120
87BD53	N	500	N	N	150	<10	N	20	N	200	N	200	N	<10	<200	30	--	N	20	0.1	N	55
87CA006A	N	2000	N	N	70	<10	N	20	N	<100	N	300	N	10	<200	50	--	N	N	0.1	N	65
87CA006Z	N	2000	N	N	50	N	N	30	N	200	N	300	N	20	200	70	--	N	N	0.2	N	55
87CA007A	N	1500	N	N	70	<10	N	20	N	100	N	300	N	20	<200	100	N	N	N	0.1	N	70
87CA031A	N	1500	N	N	700	10	N	<5	N	N	N	20	N	N	<200	N	--	N	N	0.1	N	20
87CA031B	N	100	N	N	10	70	N	N	10	N	N	<10	N	20	N	100	--	N	N	0.1	44	35
87CA031D	N	100	N	N	50	<10	N	N	N	N	N	15	N	N	<200	N	--	N	N	0.4	10	30
87CA031E	50	1500	N	N	30	30	N	20	N	500	N	200	N	30	200	100	--	N	N	0.3	6	105
87CA031G	N	20	N	N	5	30	N	N	<10	N	N	<10	N	<10	N	50	--	N	N	0.6	2	10
87CA031H	70	200	N	N	<5	50	N	N	<10	N	N	10	N	30	<200	150	--	N	N	0.2	<2	5
87CA049D	N	1000	N	N	1500	N	N	<5	N	N	N	50	N	N	200	N	--	N	N	0.1	N	5
87CA052A	N	1500	N	N	500	N	N	<5	N	N	N	<10	N	N	<200	N	--	160	N	0.1	4	15
87CA052B	N	2000	N	N	700	N	N	10	N	100	N	20	N	N	<200	N	--	>2000	6	0.2	52	25
87CA053	N	1000	N	N	1000	N	N	5	N	150	N	20	N	N	<200	N	--	170	N	N	6	10
87CA058A	100	20	10	N	15	10	N	N	N	N	N	2000	N	N	<200	20	--	20	N	<0.1	12	5
87CA058B	<50	20	<5	N	5	15	N	<5	N	<100	N	300	N	N	<200	30	--	60	N	0.2	140	10
87CA058C	<50	200	N	N	100	100	N	15	N	200	N	200	N	10	1000	100	--	80	N	3.7	38	1150
87CA062	<50	500	N	N	10	50	N	5	N	500	N	150	N	10	<200	70	--	N	N	<0.1	N	90
87CA101F	N	1500	N	N	50	N	N	15	N	200	N	200	N	10	<200	20	--	N	N	0.1	N	35
87DO023A	<50	300	N	N	30	20	N	10	N	N	N	200	N	10	200	150	--	10	N	0.6	N	100
87DO023B	<50	1000	N	N	30	50	N	15	N	300	N	150	N	10	<200	100	--	N	N	0.9	N	120

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87DO026A	CHY487	65 23 07	149 51 21	12	0.05	0.7	0.7	1.5	N	0.1	N	N	N	10	>5000	N	N	N	N	20	30	10	N
87DO026B	CHY488	65 23 07	149 51 21	14	2	5	7	2	N	0.2	N	N	N	<10	5000	N	N	N	50	300	70	20	N
87DO032	CHY489	65 21 33	149 40 49	14	7	10	7	3	N	>1	N	N	N	<10	>5000	N	N	N	50	200	300	30	N
87DO033	CHY490	65 21 13	149 41 41	12	<0.05	2	1	<0.2	<0.2	0.5	N	N	N	200	>5000	N	N	N	N	200	50	20	N
87DO034	CHY491	65 21 17	149 42 47	12	<0.05	5	1.5	1	<0.2	0.7	N	N	N	200	3000	N	N	N	N	200	30	20	N
87DO036A	CHY492	65 20 40	149 41 50	12	<0.05	0.5	0.02	<0.2	<0.2	0.05	N	N	N	10	200	N	N	N	N	<10	<5	<5	N
87DO036B	CHY493	65 20 40	149 41 50	12	0.05	5	5	2	<0.2	0.5	N	N	N	<10	300	N	N	N	<10	500	10	15	N
87DO038A	CHY494	65 23 42	149 44 58	12	<0.05	0.2	0.02	N	<0.2	0.015	N	N	N	10	100	N	N	N	N	N	15	<5	N
87DO041A	CHY495	65 25 23	149 44 35	12	<0.05	0.3	0.03	N	<0.2	0.015	N	N	N	15	20	N	N	N	N	<10	10	<5	N
87DO041C	CHY496	65 25 23	149 44 35	12	1	5	1	5	<0.2	0.2	<0.5	N	N	10	2000	2	N	N	<10	<10	200	30	N
87DO043A	CHY497	65 25 29	149 45 21	12	<0.05	0.5	0.02	N	N	0.05	N	N	N	20	30	N	N	N	N	10	20	5	N
87DO044A	CHY498	65 27 23	149 44 00	12	<0.05	7	1.5	N	N	0.7	<0.5	N	N	300	5000	<1	N	N	<10	200	50	20	N
87DO046A	CHY499	65 27 12	149 42 50	12	<0.05	1	0.2	N	<0.2	0.1	N	N	N	10	100	N	N	N	N	<10	N	<5	N
87DO068	CHY500	65 18 47	149 44 28	12	<0.05	0.15	0.03	N	N	0.1	N	N	N	10	200	N	N	N	N	15	10	5	N
87DO071A	CHY501	65 19 14	149 45 15	12	2	7	2	1	<0.2	0.7	N	N	N	<10	1000	N	N	N	20	300	30	15	N
87DO073A	CHY502	65 19 52	149 45 31	12	0.05	7	5	2	N	1	N	N	N	100	3000	N	N	N	10	200	70	30	N
87DO074A	CHY503	65 20 05	149 45 38	14	0.05	2	0.5	5	<0.2	0.2	N	N	N	10	1500	1	N	N	N	20	<5	30	N
87DO075A	CHY504	65 20 15	149 45 41	12	<0.05	7	0.7	0.3	N	>1	N	N	N	100	2000	N	N	N	30	300	100	20	N
87DO076A	CHY505	65 20 23	149 45 25	14	<0.05	0.2	0.5	N	<0.2	0.2	N	N	N	100	1000	N	N	N	N	150	5	10	N
87DO076B	CHY506	65 20 23	149 45 25	14	<0.05	1	0.7	N	<0.2	1	N	N	N	70	3000	<1	N	N	N	200	5	15	N
87DO076C	CHY507	65 20 23	149 45 25	14	<0.05	1	0.2	N	N	0.1	N	N	N	20	500	3	N	N	N	<10	N	20	N
87DO076D	CHY508	65 20 23	149 45 25	12	<0.05	3	1	0.5	<0.2	>1	<0.5	N	N	200	3000	N	N	N	N	500	50	30	N
87DO078A	CHY509	65 18 56	149 47 15	12	<0.05	0.15	0.02	N	<0.2	0.1	N	N	N	10	200	N	N	N	N	<10	<5	<5	N
87DO079A	CHY510	65 16 51	149 49 13	12	<0.05	0.2	<0.02	N	N	0.05	N	N	N	<10	100	N	N	N	N	<10	<5	<5	N
87DO080A	CHY511	65 15 45	149 47 53	12	<0.05	0.5	0.1	N	<0.2	0.05	N	N	N	<10	50	N	N	N	N	<10	<5	<5	N
87DO092B	CHY512	65 18 06	149 55 00	12	0.07	10	3	2	<0.2	0.7	N	N	N	200	1000	N	N	N	15	200	30	20	N
87DO103A	CHY513	65 25 41	149 56 47	12	0.05	10	2	N	N	1	N	N	N	50	1500	N	N	N	15	300	100	15	N
87DO105	CHY514	65 25 48	149 57 45	12	<0.05	15	0.05	N	N	0.15	N	N	N	N	1500	N	N	N	N	100	30	10	N
87DO120	CHY515	65 53 43	147 14 28	14	3	10	7	3	N	>1	N	N	N	N	700	N	N	N	50	500	50	20	N
87DO121	CHY516	65 53 52	147 15 00	14	3	10	7	3	N	>1	N	N	N	N	300	N	N	N	50	100	50	20	N
87DO122A	CHY517	65 53 36	147 15 31	14	5	10	7	3	N	>1	N	N	N	N	100	N	N	N	30	100	N	30	N
87DO122B	CHY518	65 53 36	147 15 31	12	>20	0.1	0.5	N	N	0.005	N	N	N	N	<20	N	N	N	N	N	N	N	N
87DO152	CHY519	65 27 08	149 51 51	12	0.5	3	1.5	1	0.2	0.5	N	N	N	100	1000	N	N	N	<10	100	20	15	N
87DO158	CHY520	65 54 23	147 44 35	12	<0.05	2	0.05	N	N	0.2	N	N	N	20	200	N	N	N	<10	20	<5	10	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87DO026A	N	50	N	N	10	N	N	N	N	N	N	150	N	N	<200	10	--	<10	N	N	N	5
87DO026B	N	1000	N	N	100	<10	N	30	N	300	N	150	N	10	N	20	--	N	N	0.3	N	30
87DO032	N	1500	N	N	70	<10	N	50	N	300	N	500	N	30	200	50	--	N	N	0.2	N	105
87DO033	<50	100	N	N	15	<10	N	7	N	N	N	1000	N	15	<200	100	--	20	N	0.3	10	60
87DO034	<50	50	N	N	10	<10	N	7	N	N	N	700	N	10	<200	100	--	10	N	N	N	55
87DO036A	N	50	N	N	<5	<10	N	N	N	<100	N	15	N	N	<200	70	--	N	N	N	N	15
87DO036B	N	70	N	N	50	<10	N	5	N	N	N	150	N	N	<200	100	--	10	N	N	N	60
87DO038A	N	500	N	N	5	<10	N	N	N	N	N	100	N	N	<200	<10	--	10	N	N	<2	5
87DO041A	N	50	N	N	<5	30	N	N	N	N	N	50	N	N	<200	<10	--	70	N	0.4	24	140
87DO041C	<50	1500	N	N	5	50	N	N	N	200	N	20	N	20	200	150	--	180	N	2.2	N	300
87DO043A	N	50	N	N	5	<10	N	N	N	N	N	100	N	N	<200	<10	--	<10	N	0.4	N	55
87DO044A	<50	200	N	<20	50	20	N	10	N	N	N	1000	N	30	<200	200	--	20	N	0.1	4	65
87DO046A	N	50	N	N	<5	N	N	N	N	N	N	20	N	N	<200	200	--	N	N	N	N	10
87DO068	N	300	N	N	<5	<10	N	N	N	N	N	20	N	N	<200	50	--	10	N	N	N	N
87DO071A	<50	1000	N	N	100	10	N	10	N	100	N	200	N	15	<200	100	--	10	N	0.3	N	70
87DO073A	N	200	N	N	100	15	N	15	N	N	N	500	N	15	<200	100	--	10	N	0.2	N	110
87DO074A	<50	200	N	N	5	50	N	N	N	200	N	20	N	N	<200	100	--	N	N	N	N	20
87DO075A	<50	500	N	N	100	20	N	15	N	N	N	300	N	15	300	200	--	50	N	1.6	N	300
87DO076A	<50	10	N	N	10	10	N	5	N	N	N	200	N	N	N	100	--	30	N	N	68	N
87DO076B	<50	10	N	N	7	15	N	10	N	200	N	300	N	10	<200	50	--	80	N	N	100	N
87DO076C	<50	10	N	<20	<5	20	N	N	N	N	N	15	N	<10	<200	150	--	80	N	0.1	36	N
87DO076D	<50	100	N	N	15	200	N	20	N	300	N	500	N	30	<200	100	--	80	N	0.2	60	25
87DO078A	N	10	N	N	<5	N	N	N	N	N	N	20	N	N	<200	70	--	10	N	N	N	5
87DO079A	N	10	N	N	<5	<10	N	N	N	N	N	15	N	N	<200	150	--	10	N	N	N	10
87DO080A	N	50	N	N	<5	<10	N	N	N	N	N	15	N	N	<200	20	--	20	N	N	N	5
87DO092B	N	1000	N	N	30	20	N	15	N	N	N	500	N	15	<200	100	--	10	N	N	N	95
87DO103A	<50	200	N	<20	70	10	N	10	N	N	N	1000	N	30	200	100	--	10	N	0.1	N	140
87DO105	N	100	N	N	50	<10	N	N	N	N	N	50	N	N	300	15	--	20	N	0.2	4	450
87DO120	N	1000	N	N	100	<10	N	30	N	300	N	200	N	20	<200	50	--	N	N	<0.1	N	40
87DO121	N	1500	N	N	50	<10	N	20	N	300	N	200	N	20	200	70	--	20	N	0.1	N	85
87DO122A	<50	1000	N	N	50	<10	N	20	N	500	N	200	N	15	200	70	--	N	N	0.1	N	80
87DO122B	N	2000	N	N	N	N	N	N	N	N	N	<10	N	N	N	N	--	N	N	0.1	N	N
87DO152	N	500	N	N	20	<10	N	5	N	N	N	150	N	30	N	200	--	N	N	0.1	N	40
87DO158	<50	700	N	N	10	10	N	N	N	N	N	15	N	N	N	200	--	N	N	N	N	30

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87KW02	CHZ138	65 23 09	149 27 39	16	0.5	0.7	0.1	<0.2	<0.2	0.07	N	N	N	10	200	N	N	N	<10	100	5	5	N
87KW03	CHZ139	65 23 13	149 28 46	17	0.3	2	0.7	1	<0.2	0.15	N	N	N	10	200	N	N	N	<10	150	15	10	N
87KW04	CHZ140	65 23 14	149 29 00	17	0.2	2	0.5	0.2	<0.2	0.1	N	N	N	<10	70	N	N	N	10	70	7	7	N
87KW05A	CHZ141	65 23 01	149 29 13	30	1	5	3	3	<0.2	0.2	N	N	N	20	150	<1	N	N	20	70	10	30	N
87KW06	CHZ142	65 22 25	149 29 21	20	<0.05	3	0.7	1	<0.2	0.3	N	N	N	200	2000	<1	N	N	N	150	10	20	N
87KW07	CHZ143	65 38 04	148 46 25	34	0.1	1	1	N	<0.2	0.1	N	N	N	<10	>5000	<1	N	N	10	150	10	7	N
87KW08A	D-320179	65 37 50	148 47 10	31	1.5	10	7	3	N	1	N	N	N	<10	1000	N	N	N	70	150	300	30	N
87KW09	CHZ145	65 43 06	148 59 50	20	20	3	7	<0.2	<0.2	0.2	0.5	N	N	50	1000	N	N	N	<10	200	50	15	N
87KW10A	D-320180	65 43 06	148 59 38	14	1	5	5	2	<0.2	0.3	N	N	N	20	2000	<1	N	N	20	700	30	15	N
87KW10B	CHZ146	65 43 06	148 59 38	17	0.1	3	2	2	N	0.15	N	N	N	<10	1000	N	N	N	20	500	20	15	N
87KW16	CHZ147	65 21 20	149 27 20	16	0.5	7	5	3	N	0.5	N	N	N	<10	1000	N	N	N	30	150	50	20	N
87KW26	CHZ148	65 22 12	149 30 55	18	0.07	5	2	1.5	N	0.3	N	N	N	100	1500	N	N	N	30	100	7	20	N
87KW27	CHZ150	65 20 18	149 29 10	17	0.1	7	5	1.5	N	0.2	N	N	N	50	1000	N	N	N	20	200	20	20	N
87KW28A	CHZ192	65 19 00	149 30 25	0	0.2	5	5	2	<0.2	0.3	N	N	N	50	1000	N	N	N	20	150	30	15	N
87KW28B	CHZ151	65 19 00	149 30 25	17	5	5	3	3	N	0.3	N	N	N	30	2000	N	N	N	15	300	10	20	N
87KW29	CHZ152	65 22 45	149 25 45	34	0.05	0.5	0.15	N	<0.2	0.02	N	N	N	<10	3000	N	N	N	N	<10	5	5	N
87KW31	CHZ153	65 25 24	149 27 25	16	0.07	2	0.7	N	N	0.2	N	N	N	50	200	<1	N	N	N	20	20	10	N
87KW32	CHZ154	65 24 42	149 26 18	16	<0.05	0.3	0.1	N	<0.2	0.2	N	N	N	10	300	N	N	N	N	150	<5	5	N
87KW34	CHZ182	65 19 52	149 50 39	25	5	3	5	0.3	N	0.1	N	N	N	<10	100	N	N	N	10	70	<5	10	N
87KW35	CHZ155	65 19 43	149 50 27	25	1.5	5	5	3	<0.2	0.3	N	N	N	<10	2000	N	N	N	15	200	7	20	N
87KW36A	CHZ156	65 20 00	149 49 52	25	<0.05	0.2	0.02	N	<0.2	0.07	N	N	N	30	200	N	N	N	N	<10	<5	N	N
87KW36B	CHZ191	65 20 00	149 49 52	0	0.1	1	0.7	>5	<0.2	0.1	N	N	N	10	2000	N	N	N	N	<10	15	20	N
87KW39	CHZ157	65 21 13	149 51 29	25	0.05	0.7	0.1	<0.2	<0.2	0.15	N	N	N	50	200	N	N	N	N	30	5	N	N
87KW40	CHZ158	65 21 17	149 51 40	25	<0.05	0.7	<0.02	1	<0.2	0.05	N	N	N	20	200	N	N	N	N	10	<5	N	N
87KW41	CHZ159	65 21 22	149 51 43	16	<0.05	3	<0.02	3	<0.2	0.02	N	N	N	10	500	N	N	N	N	<10	7	<5	N
87KW43	CHZ160	65 21 28	149 51 41	28	0.1	2	1	1	0.2	0.2	N	N	N	150	500	<1	N	N	15	100	20	15	N
87KW44	CHZ161	65 18 34	149 40 00	17	2	5	2	2	<0.2	0.2	N	N	N	50	1500	<1	N	N	15	200	20	20	N
87KW45B	CHZ162	65 19 45	149 38 09	25	0.05	1	0.5	0.5	0.2	0.1	N	N	N	30	500	N	N	N	N	50	5	10	N
87KW46	CHZ163	65 16 27	149 46 18	17	1	7	5	3	<0.2	0.3	N	N	N	50	2000	N	N	N	20	300	30	20	N
87KW47	CHZ164	65 15 01	149 51 59	25	0.07	1	0.1	0.2	0.2	0.15	N	N	N	20	200	N	N	N	<10	20	<5	<5	N
87KW48	CHZ165	65 15 32	149 52 12	25	<0.05	0.7	0.05	N	<0.2	0.07	N	N	N	20	200	N	N	N	<10	20	10	<5	N
87KW49	CHZ166	65 14 47	149 51 13	17	1	5	2	2	<0.2	0.2	N	N	N	30	1500	N	N	N	15	500	30	20	N
87KW50	CHZ167	65 17 02	149 51 20	17	0.1	2	5	3	<0.2	0.2	N	N	N	20	1000	<1	N	N	<10	150	20	20	N
87KW51	CHZ168	65 17 26	149 56 16	25	<0.05	5	0.5	0.3	N	0.3	N	N	N	70	1000	<1	N	N	30	300	20	20	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87KW02	N	100	N	N	7	<10	N	N	N	N	N	30	N	N	<200	20	--	N	N	0.2	4	20
87KW03	<50	150	N	N	30	10	N	<5	N	N	N	50	N	30	<200	30	--	N	N	0.3	N	45
87KW04	N	100	N	N	20	<10	N	<5	N	N	N	50	N	10	<200	50	--	N	N	<0.1	N	30
87KW05A	<50	500	N	N	10	50	N	15	N	300	N	70	N	20	<200	100	--	20	N	0.1	N	45
87KW06	50	70	N	N	7	<10	N	10	N	N	N	200	N	15	<200	150	--	10	N	<0.1	4	25
87KW07	N	2000	N	N	30	20	N	5	N	N	N	70	N	10	<200	50	--	N	N	<0.1	14	45
87KW08A	N	1500	N	N	100	<10	N	30	N	N	N	300	N	15	<200	30	N	N	N	0.1	N	70
87KW09	<50	1000	7	N	30	10	N	10	N	300	N	100	N	50	<200	70	--	N	N	4.1	4	145
87KW10A	<50	1000	N	N	200	<10	N	7	N	<100	N	150	N	10	N	100	--	10	N	0.2	N	60
87KW10B	N	300	N	N	100	<10	N	7	N	<100	N	50	N	<10	<200	30	--	N	N	0.4	N	60
87KW16	N	1500	N	N	30	<10	N	20	N	200	N	100	N	20	<200	50	--	N	N	0.2	N	90
87KW26	<50	500	N	N	70	20	N	15	N	N	N	100	N	15	<200	50	--	40	N	0.2	10	50
87KW27	<50	200	N	N	100	10	N	15	N	N	N	200	N	15	200	100	--	N	N	0.3	N	170
87KW28A	N	500	N	N	100	<10	N	7	N	N	N	70	N	<10	<200	100	--	N	N	0.4	N	90
87KW28B	<50	2000	N	N	70	<10	N	10	N	500	N	150	N	30	<200	150	--	N	N	0.3	N	70
87KW29	N	10	N	N	10	N	N	N	N	N	N	30	N	<10	<200	<10	--	N	N	N	N	N
87KW31	N	500	N	N	15	<10	N	N	N	N	N	100	N	<10	<200	30	--	N	N	0.1	N	20
87KW32	N	70	N	N	<5	<10	N	N	N	N	N	70	N	N	<200	30	--	N	N	N	N	N
87KW34	N	1500	N	N	50	<10	N	5	N	200	N	30	N	10	<200	70	--	N	N	0.1	N	5
87KW35	<50	1000	7	N	100	10	N	15	N	500	N	200	N	20	<200	100	--	N	N	<0.1	N	85
87KW36A	N	50	N	N	<5	N	N	N	N	N	N	15	N	N	<200	150	--	50	N	<0.1	N	10
87KW36B	<50	500	N	N	5	500	N	N	N	200	N	15	N	N	500	50	N	30	N	0.9	N	400
87KW39	N	200	N	N	5	N	N	N	N	N	N	20	N	N	N	500	--	N	N	<0.1	N	5
87KW40	N	100	N	N	<5	N	N	N	N	N	N	15	N	N	N	150	--	40	N	<0.1	10	15
87KW41	N	1000	N	N	10	N	N	N	N	<100	N	15	N	N	200	<10	--	70	N	0.1	8	110
87KW43	<50	70	N	N	50	<10	N	7	N	N	N	150	N	20	<200	200	--	20	N	0.2	4	65
87KW44	<50	500	N	N	70	10	N	10	N	200	N	150	N	20	<200	100	--	N	N	0.4	N	75
87KW45B	<50	50	N	N	10	<10	N	N	N	N	N	50	N	<10	<200	200	--	N	N	0.2	N	25
87KW46	N	1000	N	N	100	15	N	10	N	100	N	200	N	15	<200	100	--	N	N	0.5	N	70
87KW47	N	70	N	N	<5	<10	N	N	N	N	N	50	N	N	200	200	--	N	N	0.1	N	10
87KW48	N	70	N	N	10	<10	N	N	N	<100	N	20	N	N	<200	100	--	N	N	0.1	N	30
87KW49	<50	1000	N	N	100	15	N	15	N	<100	N	150	N	10	<200	150	--	N	N	0.3	N	30
87KW50	<50	500	N	N	30	10	N	5	N	N	N	100	N	<10	<200	70	--	N	N	0.2	N	55
87KW51	50	700	N	N	100	<10	N	10	N	<100	N	200	N	30	300	200	--	N	N	0.4	<2	170

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87KW53A	CHZ169	65 18 08	149 54 58	14	0.3	5	2	5	<0.2	0.2	N	N	N	<10	2000	1.5	N	N	20	10	10	30	N
87KW53B	CHZ170	65 18 08	149 54 58	14	7	7	7	5	N	0.3	N	N	N	N	5000	<1	N	N	30	1000	70	20	N
87KW53C	CHZ171	65 18 08	149 54 58	20	0.05	7	3	1	N	0.7	N	N	N	100	1000	N	N	N	15	150	50	20	N
87KW53D	CHZ172	65 18 08	149 54 58	35	<0.05	0.15	0.02	N	<0.2	<0.002	<0.5	N	N	<10	50	N	N	N	<10	N	300	N	N
87KW54A	CHZ173	65 18 30	149 53 15	14	<0.05	7	0.2	1.5	N	0.5	N	N	N	200	2000	<1	N	N	20	300	20	20	N
87KW54B	CHZ174	65 18 30	149 53 15	28	<0.05	2	0.3	2	<0.2	0.5	N	N	N	200	2000	<1	N	N	10	500	30	30	N
87KW55	CHZ175	65 20 32	149 57 02	25	<0.05	0.15	<0.02	N	<0.2	0.05	N	N	N	<10	100	N	N	N	N	<10	<5	<5	N
87KW56A	CHZ176	65 21 40	149 54 00	25	2	0.5	0.05	N	N	0.02	N	N	N	10	50	N	N	N	<10	<10	<5	<5	N
87KW56B	CHZ177	65 21 40	149 54 00	28	0.1	5	2	1	N	0.2	N	N	N	50	200	N	N	N	50	50	300	15	N
87KW57	CHZ178	65 22 51	149 55 34	25	0.5	1	1	0.3	<0.2	0.1	N	N	N	10	50	N	N	N	N	20	5	5	N
87KW58	CHZ179	65 23 52	149 54 29	14	2	7	7	3	<0.2	0.5	N	N	N	N	70	N	N	N	30	500	100	20	N
87KW60	CHZ180	65 20 26	149 58 13	17	0.1	5	1.5	3	<0.2	0.5	N	N	N	30	300	N	N	N	15	300	30	15	N
87KW61	CHZ181	65 21 11	149 58 45	25	<0.05	2	0.03	0.2	<0.2	0.05	N	N	N	10	200	N	N	N	<10	<10	20	5	N
87KW64	D-320166	65 19 53	149 03 28	12	0.5	1.5	0.2	N	0.2	0.07	N	N	N	30	300	<1	N	N	N	30	7	<5	N
87KW65	D-320167	65 22 02	148 56 08	12	0.2	5	1.5	1.5	<0.2	0.5	N	N	N	50	1000	1	N	N	20	150	50	20	N
87KW66A	CHZ183	65 10 13	149 58 18	16	0.07	5	5	2	<0.2	0.5	N	N	N	20	2000	N	N	N	<10	200	20	15	N
87KW66B	CHZ184	65 10 13	149 58 18	17	0.05	2	3	2	<0.2	0.2	N	N	N	15	700	N	N	N	10	150	10	15	N
87KW71	CHZ185	65 25 47	149 56 21	16	<0.05	7	0.2	N	N	0.05	N	N	N	N	70	N	N	N	10	50	30	10	N
87KW73B	CHZ186	65 26 17	149 55 30	17	<0.05	3	1	N	<0.2	0.15	N	N	N	20	500	N	N	N	<10	70	30	10	N
87KW76	CHZ187	65 30 12	147 32 36	31	10	5	10	3	N	0.7	N	N	N	N	300	N	N	N	30	500	10	20	N
87MC01	CHZ102	65 27 41	148 14 22	11	0.5	1	0.5	3	<0.2	0.15	N	N	N	150	300	<1	N	N	N	<10	N	20	N
87MC02A	CHZ103	65 30 38	148 30 32	12	<0.05	7	1.5	1.5	<0.2	0.2	N	N	N	20	300	<1	N	N	<10	100	50	20	N
87MC02B	CHZ104	65 30 38	148 30 32	11	0.05	5	1	3	0.3	0.3	N	<200	N	N	3000	<1	N	N	N	20	70	30	N
87MC02C	CHZ105	65 30 38	148 30 32	11	<0.05	5	0.5	3	0.3	0.5	N	500	N	20	5000	1	N	N	N	<10	30	30	N
87MC02D	CHZ131	65 30 38	148 30 32	11	>20	7	10	<0.2	N	0.1	5	N	N	N	70	N	N	N	<10	10	50	10	N
87MC03	CHZ132	65 22 33	149 31 20	11	<0.05	<0.05	<0.02	N	N	N	3	<200	N	N	<20	N	20	N	N	N	300	N	N
87MC03A	CHZ128	65 22 33	149 31 20	12	<0.05	0.5	0.05	N	<0.2	0.15	N	7000	N	20	300	N	N	N	N	10	20	N	N
87MC03B	CHZ129	65 22 33	149 31 20	11	0.05	0.7	0.03	N	<0.2	0.15	N	5000	N	50	300	N	N	N	N	20	7	15	N
87MC04	CHZ107	65 23 36	147 31 49	12	0.07	7	2	1	<0.2	0.7	N	N	N	15	500	<1	N	N	15	100	70	20	N
87MC05A	CHZ108	65 22 20	147 32 00	11	0.1	0.05	<0.02	N	N	<0.002	<0.5	500	N	N	20	N	N	N	N	<10	300	N	N
87MC05B	CHZ109	65 22 20	147 32 00	11	N	15	<0.02	N	N	0.01	<0.5	>10000	N	N	50	N	N	N	30	N	5	10	N
87MC05D	CHZ110	65 22 20	147 32 00	11	1	7	5	3	<0.2	0.5	N	N	N	N	1500	N	N	N	30	100	30	20	N
87MC07	CHZ111	65 30 20	148 30 37	12	<0.05	10	0.7	5	N	0.3	<0.5	700	N	N	100	N	N	N	N	N	50	30	N
87MC08A	CHZ112	65 19 08	149 56 20	12	0.2	0.5	0.5	3	N	0.07	N	2000	N	30	300	5	N	N	30	N	<5	30	N
87MC08B	CHZ113	65 19 08	149 56 20	11	0.05	0.7	0.5	3	<0.2	0.05	N	N	N	30	1000	2	N	N	N	N	<5	20	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87KW53A	50	1500	N	N	10	200	N	10	N	300	N	70	N	20	<200	100	--	N	N	0.4	N	90
87KW53B	50	1500	N	N	100	100	N	15	N	300	N	100	N	15	<200	100	--	N	N	0.3	N	45
87KW53C	<50	500	N	N	50	20	N	10	N	N	N	300	N	15	200	100	--	N	N	0.2	N	120
87KW53D	N	50	N	N	15	<10	N	N	N	N	N	<10	N	N	<200	N	--	N	N	<0.1	N	N
87KW54A	50	1000	N	N	70	15	N	20	N	<100	N	200	N	30	<200	150	--	20	N	<0.1	N	50
87KW54B	<50	70	N	N	70	20	N	15	N	100	N	200	N	30	300	150	--	N	N	0.2	4	250
87KW55	N	30	N	N	<5	<10	N	N	N	N	N	15	N	N	<200	50	--	20	N	0.1	N	15
87KW56A	N	700	N	N	5	N	N	N	N	<100	N	15	N	N	<200	100	--	20	N	0.3	2	50
87KW56B	<50	>5000	N	N	100	20	N	20	N	N	N	200	N	30	<200	100	--	<10	N	0.1	<2	145
87KW57	N	1000	N	N	<5	N	N	N	N	N	N	20	N	<10	<200	200	--	20	N	0.1	N	35
87KW58	N	1000	N	N	70	30	N	20	N	300	N	200	N	20	200	70	--	30	N	0.2	N	90
87KW60	N	300	N	N	100	10	N	7	N	N	N	100	N	10	<200	100	--	30	N	0.4	N	80
87KW61	N	1500	N	N	5	<10	N	N	N	N	N	20	N	N	<200	20	--	20	N	N	8	30
87KW64	<50	700	N	N	<5	20	N	N	N	N	N	70	N	15	N	70	--	10	N	0.1	N	25
87KW65	N	1500	N	<20	50	20	N	20	N	N	N	200	N	20	200	100	--	20	N	0.1	2	130
87KW66A	N	70	N	N	70	15	N	10	N	N	N	200	N	10	<200	70	--	20	N	0.3	2	55
87KW66B	N	1000	N	N	70	<10	N	7	N	N	N	100	N	<10	<200	70	--	N	N	0.4	N	70
87KW71	N	700	N	N	50	<10	N	<5	N	N	N	50	N	10	200	<10	--	20	N	0.3	<2	185
87KW73B	N	50	N	N	30	<10	N	<5	N	N	N	200	N	<10	<200	50	--	N	N	0.1	N	75
87KW76	N	1000	N	N	5	N	N	20	N	200	N	150	N	20	<200	70	--	N	N	0.1	N	55
87MC01	<50	300	N	N	5	20	N	N	N	300	N	50	N	N	N	70	--	N	N	0.2	2	30
87MC02A	<50	100	N	N	30	10	N	10	N	N	N	200	N	N	200	70	N	110	N	0.2	10	145
87MC02B	100	300	N	N	<5	50	N	10	N	500	N	200	N	20	<200	100	N	600	6	0.4	4	100
87MC02C	100	70	N	N	<5	200	N	7	N	500	N	150	N	20	N	200	0.1	>2000	3	0.3	8	85
87MC02D	N	2000	<5	N	20	10	N	<5	N	<100	N	1000	N	<10	200	<10	N	20	N	0.6	6	40
87MC03	50	<10	N	N	5	1000	>10000	N	N	N	N	<10	N	<10	<200	N	N	30	11	0.4	>1000	N
87MC03A	N	10	N	N	5	<10	100	N	N	N	N	1000	N	N	<200	10	0.5	>2000	1	0.7	160	70
87MC03B	N	15	N	N	7	<10	300	N	N	N	N	700	N	N	<200	20	0.1	>2000	2	0.1	220	15
87MC04	<50	1000	N	N	70	<10	700	7	N	N	N	200	N	<10	<200	70	N	30	N	0.1	460	85
87MC05A	100	20	N	N	N	500	>10000	N	N	N	N	<10	N	N	<200	N	N	70	12	0.7	>1000	N
87MC05B	N	<10	N	N	10	N	1000	N	N	N	N	<10	N	N	N	N	2.7	>2000	12	0.3	>1000	N
87MC05D	N	1000	N	N	30	200	700	10	N	300	N	150	N	10	N	20	--	50	N	0.1	540	45
87MC07	N	1000	N	N	N	50	N	N	N	N	N	N	N	50	<200	200	1.3	1400	N	0.9	100	150
87MC08A	N	200	N	N	5	100	N	N	N	200	N	<10	N	N	N	100	0.6	1700	N	0.2	40	95
87MC08B	N	30	N	N	<5	10	N	N	N	150	N	<10	N	N	N	100	0.1	600	N	0.7	58	10

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87MC08C	CHZ114	65 19 08	149 56 20	12	0.1	5	2	1.5	<0.2	>1	N	N	N	200	1000	<1	N	N	10	150	50	20	N
87MC08D	CHZ115	65 19 08	149 56 20	12	0.15	7	3	1	0.5	0.2	N	N	N	50	1000	N	N	N	50	70	200	20	N
87MC08E	CHZ116	65 19 08	149 56 20	12	0.5	5	2	1	<0.2	0.2	N	N	N	10	500	<1	N	N	15	100	50	20	N
87MC09	CHZ117	65 25 22	149 28 29	11	<0.05	2	1	2	<0.2	1	N	N	N	500	1000	N	N	N	20	100	100	20	N
87MC10A	CHZ118	65 31 13	149 34 50	11	<0.05	5	3	<0.2	N	0.5	N	N	N	<10	200	N	N	N	<10	20	7	10	N
87MC10B	CHZ119	65 31 13	149 34 50	11	0.07	0.5	0.05	5	<0.2	<0.002	N	N	N	15	100	N	N	N	N	N	5	30	N
87MC10C	CHZ120	65 31 13	149 34 50	11	<0.05	0.5	0.05	3	<0.2	0.01	N	N	N	30	50	N	N	N	N	N	<5	30	N
87MC11	CHZ121	65 53 39	147 26 35	13	>20	<0.05	0.7	N	N	0.002	N	N	N	N	50	N	N	N	N	N	N	N	N
87MC12	CHZ122	65 53 58	147 25 22	13	>20	<0.05	5	N	N	<0.002	N	N	N	N	<20	N	N	N	N	N	N	N	N
87MC13	CHZ123	65 54 10	147 24 50	13	0.1	1	0.03	N	N	0.1	N	N	N	30	20	N	N	N	N	15	20	<5	N
87MC14A	CHZ124	65 54 00	147 22 06	13	20	1	10	N	N	0.005	N	N	N	N	200	N	N	200	N	<10	<5	N	N
87MC14A1	CHZ125	65 54 00	147 22 06	13	>20	1	>10	N	N	0.01	N	N	N	N	300	N	N	200	N	<10	<5	N	N
87MC14B	CHZ126	65 54 00	147 22 06	13	20	0.7	>10	N	N	0.02	N	N	N	N	300	N	N	50	N	<10	<5	N	N
87MC14S	CHZ127	65 54 00	147 22 06	13	>20	2	>10	N	N	<0.002	N	N	N	N	100	N	N	150	N	N	N	N	N
87MC15A	CHZ130	65 02 20	147 39 38	12	>20	5	2	3	1	0.3	<0.5	N	N	N	300	<1	N	N	20	<10	15	20	N
87MC16A	CHZ133	65 00 38	147 34 33	11	0.5	0.07	0.1	5	N	0.005	N	N	N	10	1500	1	N	N	N	<10	N	20	N
87MC16B	CHZ134	65 00 38	147 34 33	11	<0.05	5	1	3	N	0.5	N	N	N	15	1000	<1	N	N	10	100	7	30	N
87MC17	CHZ135	65 00 36	147 34 10	11	1	5	1.5	1.5	N	0.2	N	N	N	10	1000	N	N	N	<10	<10	<5	15	N
87MC18	CHZ136	65 01 35	147 28 20	11	3	7	3	3	<0.2	0.3	N	N	N	<10	2000	<1	N	N	<10	15	<5	20	N
87RI04	CHZ194	65 19 25	148 48 46	29	0.5	5	2	3	0.3	0.3	N	N	N	<10	1500	1	N	N	10	<10	20	20	N
87RI05A2	CHZ195	65 25 34	148 20 41	29	0.2	2	0.5	3	<0.2	0.15	N	N	N	100	1000	1	N	N	<10	<10	10	30	N
87RI05B	CHZ196	65 25 34	148 20 41	29	<0.05	1	0.2	1	<0.2	0.1	1	N	N	70	200	N	N	N	N	10	30	15	N
87RI05C2	CHZ197	65 25 34	148 20 41	28	0.2	7	5	2	<0.2	0.5	N	N	N	20	700	2	N	N	30	100	100	30	N
87RI06A	CHZ198	65 25 18	148 58 01	29	0.05	7	0.3	5	N	0.15	N	N	N	<10	300	1.5	N	N	N	N	7	50	N
87RI07	CHZ199	65 25 11	148 58 53	29	<0.05	5	0.2	5	N	0.15	N	N	N	10	1500	<1	N	N	N	N	7	50	N
87RI08B	CHZ200	65 27 09	148 32 17	29	<0.05	0.3	0.5	1	<0.2	0.3	N	N	N	70	1500	<1	N	N	N	30	15	30	N
87RI11A	F-000527	65 53 47	148 01 08	31	2	10	5	2	N	0.7	N	N	N	<10	300	N	N	N	50	20	200	20	N
87RI11C	F-000528	65 53 47	148 01 08	31	5	5	7	3	N	0.3	N	N	N	20	500	N	N	N	50	200	150	20	N
87RI12	F-000529	65 54 15	148 02 28	31	1	10	2	2	N	0.5	N	N	N	<10	200	N	N	N	150	N	150	20	N
87RI13	CHZ193	65 54 22	148 02 27	13	0.07	7	3	1.5	0.2	0.15	N	N	N	150	300	N	N	N	20	100	50	20	N
87RI13A	F-000530	65 54 22	148 02 27	31	2	7	2	2	N	0.5	N	N	N	N	300	N	N	N	70	N	20	20	N
87RI14B	F-000531	65 54 45	148 00 25	32	2	5	10	0.7	N	0.2	N	N	N	N	100	N	N	N	100	1000	100	15	N
87RI15	CHZ201	65 54 03	148 03 15	31	1.5	10	1.5	2	<0.2	>1	N	N	N	N	500	1.5	N	N	30	N	20	20	N
87RI16A	CHZ202	65 54 02	148 04 00	29	0.3	5	0.7	3	N	0.15	N	N	N	<10	2000	N	N	N	N	N	<5	30	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87MC08C	50	1500	N	N	50	15	N	10	N	N	N	300	N	20	N	150	--	20	N	0.2	14	70
87MC08D	<50	1000	N	N	70	15	N	7	N	N	N	200	N	50	<200	100	<0.05	40	N	0.3	30	130
87MC08E	<50	300	N	N	30	10	N	7	N	100	N	200	N	10	<200	150	N	30	N	0.2	10	85
87MC09	<50	300	<5	N	150	<10	N	10	50	N	N	300	N	10	N	70	N	N	1	0.2	4	90
87MC10A	<50	70	N	N	<5	N	N	<5	N	N	N	50	N	15	N	500	--	N	N	<0.1	2	15
87MC10B	N	20	N	N	<5	10	N	N	<10	N	N	N	N	N	N	N	--	N	2	N	4	N
87MC10C	N	70	N	N	N	10	N	N	50	N	N	N	N	N	N	N	N	N	2	N	6	N
87MC11	N	50	N	N	N	20	N	N	N	<100	N	<10	N	N	N	N	--	N	N	0.3	8	30
87MC12	N	50	N	N	N	70	N	N	N	<100	N	<10	N	N	N	N	--	N	N	1.1	2	40
87MC13	N	500	N	N	<5	N	N	N	N	N	N	10	N	N	N	300	--	N	N	0.2	24	20
87MC14A	N	1500	N	N	7	7000	N	N	N	<100	N	15	N	N	>10000	N	N	N	N	>1000	8	>2000
87MC14A1	N	1500	N	N	7	5000	N	N	N	150	N	20	N	N	>10000	N	<0.05	N	N	>1000	2	>2000
87MC14B	N	1000	N	N	5	2000	N	N	N	<100	N	20	N	N	5000	N	N	N	N	>1000	N	>2000
87MC14S	N	2000	N	N	20	5000	N	N	N	<100	N	15	N	N	>10000	N	N	N	N	>1000	12	>2000
87MC15A	200	3000	N	20	7	30	N	5	N	1000	N	150	N	30	<200	300	--	<10	N	0.2	<2	30
87MC16A	N	150	N	N	N	20	300	N	N	150	N	<10	N	N	N	<10	N	<10	N	0.1	400	5
87MC16B	<50	300	<5	N	15	30	N	7	N	N	N	100	N	15	N	100	N	90	N	0.2	46	55
87MC17	N	1000	N	N	N	20	N	7	N	200	N	100	N	<10	N	100	--	10	N	0.5	18	70
87MC18	<50	2000	N	N	N	30	N	7	N	300	N	100	N	<10	200	100	N	50	N	0.7	10	110
87RI04	50	1000	N	20	5	100	N	5	N	300	N	150	N	10	<200	100	--	N	N	0.8	N	120
87RI05A2	<50	3000	<5	N	5	<10	N	N	N	100	N	30	N	N	1000	50	--	N	N	0.3	N	600
87RI05B	N	50	10	N	<5	500	N	N	<10	N	N	30	N	N	<200	20	--	200	2	2.9	4	90
87RI05C2	<50	700	N	N	70	20	N	20	N	N	N	200	N	30	1000	100	--	20	<1	5.3	N	300
87RI06A	50	2000	N	<20	N	50	N	N	15	N	N	<10	N	50	300	150	--	N	<1	0.3	N	185
87RI07	150	700	N	50	10	70	N	N	10	N	N	10	N	70	200	1000	--	N	N	0.4	N	165
87RI08B	50	20	N	N	<5	20	N	5	N	N	N	150	N	10	<200	100	--	N	2	N	N	15
87RI11A	N	1500	N	N	50	10	N	20	N	150	N	300	N	20	N	50	--	<10	<1	0.1	2	60
87RI11C	N	1500	N	N	100	<10	N	20	N	300	N	200	N	<10	N	20	--	<10	<1	0.1	<2	40
87RI12	N	1000	N	N	50	N	N	20	N	N	N	700	N	10	N	10	--	<10	<1	0.1	<2	85
87RI13	N	1500	N	N	50	15	N	10	N	N	N	200	N	15	200	100	--	N	N	0.3	N	95
87RI13A	N	1000	N	N	5	N	N	20	N	200	N	500	N	15	N	20	--	<10	<1	0.1	<2	85
87RI14B	N	1500	N	N	700	N	N	15	N	N	N	150	N	<10	N	10	--	<10	<1	0.1	<2	85
87RI15	<50	1500	N	N	7	N	N	15	N	<100	N	300	N	15	200	70	--	N	N	0.2	N	95
87RI16A	100	1000	N	<20	N	<10	N	10	N	<100	N	15	N	50	<200	200	--	N	N	0.2	N	65

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87RI16B	CHZ203	65 54 02	148 04 00	31	2	7	5	2	N	0.5	N	N	N	N	200	N	N	N	50	70	200	20	N
87RI17	F-000532	65 53 57	148 05 04	31	3	5	5	1.5	N	0.5	N	N	N	<10	100	N	N	N	50	200	100	15	N
87RI17Z	CHZ204	65 53 57	148 05 04	31	2	10	7	1.5	N	0.3	N	N	N	N	150	N	N	N	30	200	100	20	N
87RI18	F-000533	65 57 27	147 43 43	31	2	5	5	2	N	0.5	N	N	N	<10	2000	N	N	N	30	50	70	15	N
87RI18G	CHZ206	65 57 27	147 43 43	31	1	10	0.5	3	0.3	1	N	N	N	<10	2000	<1	N	N	20	N	5	30	N
87RI18Z	CHZ205	65 57 27	147 43 43	31	2	15	7	3	N	1	N	N	N	N	2000	N	N	N	100	N	100	20	N
87RI19B	F-000534	65 38 03	149 05 38	31	2	7	3	2	N	1	N	N	N	<10	200	N	N	N	50	<10	200	20	N
87RI20	F-000535	65 40 38	149 05 23	31	2	5	5	3	N	0.2	N	N	N	10	200	N	N	N	50	70	100	20	N
87RI20Z	CHZ207	65 40 38	149 05 23	31	2	7	5	1.5	N	0.2	N	N	N	N	200	N	N	N	30	100	70	20	N
87RI21	CHZ208	65 41 29	149 01 29	31	2	10	5	2	N	1	N	N	N	N	500	N	N	N	30	50	50	30	N
87RI24D	CHZ209	65 22 48	149 31 00	29	1.5	7	3	3	0.2	0.5	N	N	N	20	2000	3	N	N	15	20	30	30	N
87RI25	CHZ210	65 22 58	149 30 49	31	2	5	5	1.5	0.3	0.2	N	N	N	10	1000	<1	N	N	30	200	15	20	N
87RI26B	F-000543	65 23 04	149 30 44	31	2	10	7	1	0.3	1	N	N	N	N	5000	N	N	N	50	200	20	20	N
87RI27	CHZ211	65 23 21	149 30 55	29	2	5	3	3	0.2	0.5	N	N	N	50	1000	1	N	N	20	70	20	20	N
87RI30	CHZ212	65 22 31	149 31 42	29	2	7	3	3	0.7	0.2	N	N	N	20	500	1	N	N	30	50	20	30	N
87RI31	CHZ213	65 22 19	149 32 01	29	2	5	3	3	<0.2	0.3	N	N	N	10	1500	<1	N	N	20	100	30	20	N
87RI32	CHZ214	65 22 06	149 33 43	29	1	5	2	5	<0.2	0.2	N	N	N	100	1000	3	N	N	15	30	15	30	N
87RI33	CHZ215	65 21 57	149 34 25	29	1	5	3	3	<0.2	0.3	N	N	N	700	1000	2	N	N	10	50	15	30	N
87RI34	CHZ216	65 21 27	149 35 23	29	0.7	3	1.5	1.5	<0.2	0.2	N	N	N	50	700	2	N	N	<10	20	10	20	N
87RI35	CHZ217	65 20 03	149 53 58	13	<0.05	7	2	3	<0.2	0.5	N	N	N	100	1000	N	N	N	<10	100	50	15	N
87RI35E	CHZ218	65 20 03	149 53 58	29	0.5	3	0.7	3	<0.2	0.15	N	N	N	15	1000	2	N	N	<10	10	5	20	N
87RI35G	CHZ219	65 20 03	149 53 58	29	0.3	2	0.5	2	<0.2	0.1	N	N	N	10	700	3	N	N	N	<10	<5	15	N
87RI37	F-000547	65 20 18	149 52 32	29	0.3	5	1.5	3	<0.2	0.3	N	N	N	10	1000	5	N	N	<10	10	50	20	N
87RI38B	F-000549	65 21 28	149 55 31	29	1	7	7	3	0.2	0.5	N	N	N	20	2000	1	N	N	10	200	20	30	N
87RI39	CHZ220	65 21 29	149 56 27	29	0.7	5	2	2	<0.2	0.15	N	N	N	<10	1500	1.5	N	N	15	70	7	15	N
87RI39C1	CHZ221	65 21 29	149 56 27	29	1	5	3	3	<0.2	0.3	N	N	N	<10	1500	1	N	N	15	100	10	15	N
87RI41A	F-000548	65 19 22	149 47 45	29	0.5	2	2	3	<0.2	0.15	N	N	N	10	1500	2	N	N	30	20	7	20	N
87RI41B3	CHZ223	65 19 22	149 47 45	29	1.5	5	2	1.5	0.2	0.2	N	N	N	10	1500	1	N	N	10	15	<5	10	N
87RI41B4	CHZ224	65 19 22	149 47 45	13	0.2	7	1	3	<0.2	0.2	N	N	N	100	1000	<1	N	N	10	70	15	30	N
87RI41Z	CHZ222	65 19 22	149 47 45	29	0.7	3	1.5	5	<0.2	0.2	N	N	N	<10	1000	1	N	N	<10	20	<5	20	N
87RI42B1	CHZ225	65 22 09	149 34 15	29	1	3	2	3	<0.2	0.3	N	N	N	50	1500	1.5	N	N	15	30	7	20	N
87RI43A	CHZ226	65 18 21	149 58 32	29	1.5	5	3	3	0.2	0.2	N	N	N	20	1500	2	N	N	15	100	10	20	N
87RI44	F-000550	65 17 49	149 59 01	29	1	2	5	3	0.2	0.15	N	N	N	15	1500	2	N	N	20	100	20	20	N
87RI44Z	CHZ227	65 17 49	149 59 01	29	1.5	5	5	3	<0.2	0.15	N	N	N	<10	1500	1.5	N	N	10	100	10	15	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87RI16B	N	1000	N	N	70	N	N	30	N	100	N	300	N	20	<200	50	--	N	N	0.2	N	55
87RI17	N	1000	N	N	100	<10	N	20	N	100	N	200	N	15	N	15	--	<10	<1	0.1	<2	50
87RI17Z	N	1000	N	N	100	N	N	20	N	<100	N	200	N	10	<200	20	--	N	N	0.1	N	60
87RI18	N	1000	N	N	50	N	N	20	N	200	N	300	N	10	N	10	--	<10	<1	0.1	<2	65
87RI18G	<50	1500	N	<20	<5	<10	N	20	N	150	N	150	N	30	200	100	--	N	N	0.1	N	70
87RI18Z	N	1000	N	N	<5	N	N	30	N	200	N	1500	N	10	300	10	--	N	N	0.1	N	95
87RI19B	N	1500	N	N	30	<10	N	20	N	<100	N	300	N	20	N	100	--	<10	<1	0.1	4	75
87RI20	N	700	N	N	70	<10	N	20	N	100	N	200	N	10	N	50	--	<10	<1	0.1	<2	40
87RI20Z	N	1000	N	N	70	<10	N	15	N	150	N	150	N	<10	200	10	--	N	N	0.1	N	50
87RI21	N	1500	N	N	50	<10	N	20	N	200	N	200	N	15	200	30	--	N	N	0.1	N	75
87RI24D	<50	1000	N	N	10	30	N	7	N	300	N	150	N	15	200	30	--	130	N	N	N	75
87RI25	N	500	N	N	50	20	N	15	N	300	N	150	N	10	<200	30	--	30	N	0.1	N	50
87RI26B	<50	1000	N	N	100	<10	N	20	N	<100	N	300	N	20	N	10	--	<10	<1	0.1	<2	130
87RI27	<50	1000	N	N	15	30	N	10	N	300	N	150	N	15	<200	70	--	N	N	N	N	50
87RI30	<50	1000	N	N	15	30	N	10	N	300	N	150	N	15	<200	20	--	N	N	0.1	N	100
87RI31	N	1000	N	N	20	30	N	10	N	300	N	150	N	10	<200	50	--	N	N	0.1	N	55
87RI32	<50	1000	N	N	10	50	N	7	N	500	N	100	N	15	<200	50	--	40	N	0.2	2	55
87RI33	<50	700	N	N	10	50	N	7	N	300	N	100	N	15	N	70	--	50	N	0.1	2	45
87RI34	N	1000	N	N	<5	30	N	5	N	200	N	70	N	10	N	100	--	10	N	0.1	2	80
87RI35	N	300	N	N	30	10	N	15	N	N	N	200	N	10	N	70	--	20	N	0.1	N	95
87RI35E	N	700	N	N	5	50	N	N	N	300	N	50	N	<10	N	70	--	N	N	0.1	N	30
87RI35G	100	500	N	N	<5	30	N	N	N	300	N	20	N	<10	N	100	--	N	N	<0.1	N	35
87RI37	<50	700	N	N	5	30	N	N	N	300	N	15	N	<10	N	100	--	<10	<1	<0.1	<2	30
87RI38B	<50	1000	N	N	50	30	N	15	N	500	N	100	N	15	N	100	--	<10	<1	0.1	<2	80
87RI39	<50	700	N	N	15	30	N	7	N	300	N	100	N	10	N	100	--	N	N	0.1	N	45
87RI39C1	<50	1000	N	N	20	30	N	10	N	500	N	150	N	10	<200	<10	--	N	N	0.2	N	45
87RI41A	<50	1000	N	N	5	30	N	5	N	300	N	50	N	<10	N	50	--	<10	<1	<0.1	<2	50
87RI41B3	<50	1000	N	N	5	30	N	5	N	300	N	50	N	<10	N	50	--	N	N	0.1	N	40
87RI41B4	<50	700	N	N	30	<10	N	5	N	N	N	150	N	15	N	150	--	N	N	0.1	N	65
87RI41Z	N	500	N	N	5	30	N	5	N	300	N	50	N	<10	N	50	--	N	N	0.2	N	50
87RI42B1	50	1000	N	N	7	50	N	5	N	500	N	100	N	15	N	20	--	N	N	<0.1	N	55
87RI43A	70	1000	N	N	15	50	N	7	N	300	N	100	N	15	N	70	--	N	N	0.1	N	50
87RI44	<50	700	N	N	15	20	N	10	N	300	N	100	N	15	N	100	--	<10	<1	0.1	<2	45
87RI44Z	50	1000	N	N	15	50	N	10	N	300	N	100	N	10	<200	N	--	N	N	<0.1	N	50

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87RI45	CHZ228	65 17 42	149 59 49	29	2	7	7	2	0.2	0.2	N	N	N	10	1500	1	N	N	30	150	30	15	N
87RI45B	CHZ229	65 17 42	149 59 49	29	1.5	7	5	3	<0.2	0.3	7	N	N	20	2000	3	N	N	20	100	30	20	N
87RI45D	CHZ230	65 17 42	149 59 49	13	<0.05	5	1	0.2	<0.2	0.3	N	N	N	100	300	<1	N	N	<10	70	20	10	N
87RI46C	CHZ231	65 18 38	149 57 14	29	2	7	5	3	0.2	0.2	N	N	N	50	1500	2	N	N	30	150	50	20	N
87RI48B	F-000551	65 19 11	149 56 05	29	1	3	5	2	0.2	0.2	N	N	N	50	2000	1.5	N	N	<10	150	50	20	N
87RI49	F-000552	65 25 28	149 28 55	29	0.7	3	1	3	0.2	0.3	N	N	N	10	1500	2	N	N	<10	<10	5	30	N
87RI49B	CHZ232	65 25 28	149 28 55	29	0.2	1.5	0.2	3	0.2	0.2	N	N	N	10	1000	2	200	N	N	N	30	20	N
87RI50A	F-000544	65 22 37	149 34 29	29	0.5	5	3	3	0.2	0.2	N	N	N	100	1500	5	N	N	<10	20	30	20	N
87RI50D	CHZ234	65 22 37	149 34 29	13	0.07	5	1.5	1	<0.2	0.2	N	N	N	100	200	N	N	N	10	70	20	15	N
87RI50Z	CHZ233	65 22 37	149 34 29	29	1	5	1.5	3	0.3	0.3	N	N	N	100	2000	2	N	N	10	10	20	20	N
87RI52H	CHZ235	65 55 02	147 10 43	13	5	10	2	3	<0.2	1	<0.5	N	N	N	500	N	N	N	50	70	20	20	N
87RI56B	F-000545	65 22 24	149 32 25	29	0.5	5	3	3	0.2	0.3	N	N	N	30	1000	5	N	N	10	50	7	30	N
87RI56C	F-000546	65 22 24	149 32 25	29	0.3	5	3	3	0.2	0.2	N	N	N	50	1000	3	N	N	<10	20	15	30	N
87RI56E	CHZ236	65 22 24	149 32 25	13	0.05	7	1.5	1	<0.2	0.2	N	N	N	50	500	N	N	N	15	70	50	20	N
87RI57	CHZ237	65 23 58	149 56 59	25	<0.05	0.5	0.02	<0.2	<0.2	0.1	N	N	N	10	50	N	N	N	N	10	<5	<5	N
87RI58A	CHZ244	65 30 37	149 35 07	29	0.1	0.2	0.03	3	0.2	0.01	N	N	N	20	150	5	N	N	N	N	N	15	N
87RI58B	CHZ238	65 30 37	149 35 07	29	0.2	0.2	0.05	3	<0.2	0.01	N	N	N	10	100	3	N	N	N	<10	<5	15	N
87RI58C	CHZ239	65 30 37	149 35 07	13	0.1	1.5	1	1	<0.2	0.15	N	N	N	<10	100	1	N	N	<10	15	<5	10	N
87RI61A	CHZ240	65 29 11	147 37 52	21	3	5	7	2	N	0.3	N	N	N	<10	100	1	N	N	30	200	5	15	N
87RI61B	CHZ241	65 29 11	147 37 52	21	>20	0.5	1	N	N	0.02	N	N	N	<10	150	N	N	N	N	<10	5	<5	N
87RI61C	CHZ242	65 29 11	147 37 52	29	0.7	2	0.5	3	<0.2	0.2	N	N	N	70	1000	3	N	N	N	<10	<5	30	N
87RI62A	CHZ243	65 30 14	147 32 51	29	0.07	1	0.03	3	<0.2	<0.002	N	N	N	1500	150	20	N	N	N	N	N	30	N
87RI70	CHY525	65 41 03	149 50 02	31	3	7	7	3	N	1	N	N	N	<10	300	N	N	N	50	20	50	30	N
87RI71	F-000538	65 41 39	149 50 34	31	2	7	3	2	N	0.5	N	N	N	15	200	N	N	N	50	100	200	20	N
87RI71Z	CHY526	65 41 39	149 50 34	31	5	5	7	2	N	0.5	N	N	N	<10	300	N	N	N	30	200	150	20	N
87RI73A	F-000539	65 44 49	149 49 06	31	3	5	10	2	<0.2	0.7	N	N	N	30	300	N	N	N	50	300	100	20	N
87RI74	CHY527	65 46 14	149 55 37	31	5	5	7	2	N	0.5	N	N	N	<10	300	N	N	N	30	200	100	20	N
87RI74A	F-000540	65 46 14	149 55 37	31	2	10	7	2	N	0.7	N	N	N	<10	150	N	N	N	50	300	200	20	N
87RM03A	CHY449	65 22 26	149 46 07	12	1	2	0.7	1	N	0.15	N	N	N	10	200	N	N	N	10	1000	10	10	N
87RM05A	CHY450	65 23 08	149 44 58	12	0.1	5	2	1.5	<0.2	0.3	N	N	N	100	700	<1	N	N	15	200	30	30	N
87RM05B	CHY451	65 23 08	149 44 58	14	3	5	5	1	N	0.2	N	N	N	<10	1000	N	N	N	30	1000	<5	15	N
87RM08A	CHY452	65 23 48	149 44 00	12	<0.05	0.2	0.1	N	<0.2	0.05	N	N	N	10	200	N	N	N	N	10	5	<5	N
87RM09A	CHY453	65 23 29	149 44 08	14	2	5	5	3	N	0.3	N	N	N	N	100	N	N	N	30	200	10	20	N
87RM09C	CHY454	65 23 29	149 44 08	12	0.05	5	7	2	N	0.3	N	N	N	50	300	N	N	N	50	700	30	20	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87RI45	50	1000	N	N	50	30	N	15	N	300	N	150	N	15	<200	50	--	N	N	0.1	N	60
87RI45B	70	1000	N	N	30	70	N	10	N	500	N	150	N	20	<200	200	--	N	N	0.1	N	65
87RI45D	N	100	N	N	30	<10	N	7	N	N	N	150	N	10	<200	100	--	10	N	0.1	N	70
87RI46C	50	1000	N	N	30	50	N	15	N	500	N	150	N	20	<200	100	--	30	N	0.1	N	45
87RI48B	<50	700	5	N	30	30	N	15	N	300	N	150	N	15	N	100	--	20	<1	0.1	<2	50
87RI49	50	700	N	N	<5	30	N	<5	N	300	N	20	N	10	N	100	--	50	<1	0.1	<2	85
87RI49B	<50	300	N	N	<5	10	N	N	N	200	N	10	N	<10	N	70	--	20	130	0.2	6	30
87RI50A	50	1000	N	N	7	30	N	5	N	300	N	50	N	15	N	100	--	20	<1	<0.1	<2	80
87RI50D	N	200	N	N	50	<10	N	7	N	N	N	100	N	10	<200	70	--	<10	N	0.1	N	80
87RI50Z	<50	1000	N	N	<5	50	N	<5	N	300	N	70	N	10	N	70	--	10	2	0.1	N	65
87RI52H	N	1000	N	N	100	<10	N	10	N	200	N	150	N	10	<200	30	--	N	N	0.1	N	70
87RI56B	50	1000	15	N	10	50	N	10	N	300	N	70	N	15	N	150	--	<10	<1	<0.1	<2	75
87RI56C	<50	1000	7	N	7	50	N	7	N	300	N	70	N	10	N	150	--	80	<1	<0.1	<2	55
87RI56E	N	500	N	N	70	<10	N	10	N	N	N	150	N	10	<200	50	--	30	N	0.5	<2	115
87RI57	N	70	N	N	<5	N	N	N	N	N	N	15	N	N	<200	150	--	N	N	N	N	10
87RI58A	N	30	N	N	N	50	N	N	N	N	N	N	N	<10	N	<10	--	N	5	N	N	10
87RI58B	N	100	N	N	N	50	N	N	N	N	N	N	N	<10	N	<10	--	N	6	<0.1	N	N
87RI58C	N	70	N	N	5	<10	N	N	N	N	N	15	N	10	N	100	--	N	N	<0.1	N	N
87RI61A	N	1500	N	N	<5	<10	N	15	20	200	N	200	N	10	N	10	--	N	2	0.3	N	60
87RI61B	N	50	N	N	<5	10	N	N	N	N	N	20	N	N	N	<10	--	N	N	0.2	N	25
87RI61C	70	500	N	<20	N	70	N	5	N	100	N	30	N	30	N	150	--	N	N	0.1	N	50
87RI62A	N	1500	N	20	<5	30	N	N	70	N	N	N	N	50	N	10	--	N	2	N	N	N
87RI70	N	1500	N	N	15	<10	N	30	N	150	N	500	N	10	200	50	--	N	N	N	N	100
87RI71	N	1000	N	N	100	<10	N	20	N	150	N	200	N	20	N	50	--	<10	<1	<0.1	<2	60
87RI71Z	N	1500	N	N	50	N	N	30	N	200	N	200	N	10	<200	30	--	N	N	N	N	55
87RI73A	N	1000	N	N	150	N	N	15	N	<100	N	200	N	10	N	50	--	<10	<1	<0.1	<2	75
87RI74	N	1500	N	N	50	N	N	15	N	N	N	200	N	10	<200	20	--	N	N	N	N	60
87RI74A	N	1500	N	N	100	N	N	30	N	<100	N	200	N	15	200	50	--	<10	<1	<0.1	<2	75
87RM03A	<20	500	N	N	50	<10	N	7	N	N	N	100	N	<10	<200	50	--	N	N	N	N	25
87RM05A	<20	200	N	N	50	10	N	15	N	N	N	200	N	15	200	100	--	N	N	0.1	N	110
87RM05B	<20	1000	N	N	50	<10	N	15	N	300	N	150	N	<10	<200	30	--	70	N	0.2	N	90
87RM08A	N	50	N	N	<5	N	N	N	N	N	N	15	N	N	<200	<10	--	30	N	N	N	15
87RM09A	N	2000	N	N	50	N	N	20	N	<100	N	200	N	15	200	20	--	N	N	0.2	N	105
87RM09C	N	300	N	N	200	10	N	15	N	N	N	200	N	15	200	70	--	10	N	0.3	N	130

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87RM15A	CHY455	65 21 10	149 46 55	12	<0.05	3	0.5	0.2	<0.2	0.5	0.5	N	N	300	>5000	<1	N	N	10	300	70	30	N
87RM17A	CHY456	65 21 12	149 48 25	12	<0.05	2	1.5	1.5	N	0.2	N	N	N	150	5000	N	N	N	<5	100	20	20	N
87RM17B	CHY457	65 21 12	149 48 25	12	2	2	1.5	3	<0.2	0.2	N	N	N	20	5000	1	N	N	<5	50	10	30	N
87RM18B	CHY458	65 21 27	149 48 36	14	2	2	5	3	<0.2	0.2	N	N	N	N	>5000	1	N	N	20	1000	30	20	N
87RM18C	CHY459	65 21 27	149 48 36	14	10	2	2	2	N	0.15	N	N	N	50	200	N	N	N	<5	50	20	15	N
87RM20A	CHY460	65 22 02	149 48 28	14	3	7	5	3	N	>1	N	N	N	N	500	N	N	N	50	150	200	20	N
87RM20C	CHY461	65 22 02	149 48 28	14	2	7	7	3	<0.2	0.5	N	N	N	<10	2000	<1	N	N	30	200	15	20	N
87RM21A	CHY462	65 22 15	149 48 30	12	0.07	5	5	5	N	0.3	0.7	N	N	20	150	N	N	N	<5	100	15	20	N
87RM22A	CHY463	65 22 22	149 48 35	12	0.5	5	5	2	<0.2	0.3	N	N	N	50	500	N	N	N	<5	150	15	20	N
87RM24B	CHY464	65 24 42	149 50 18	12	0.05	3	1	N	<0.2	0.2	N	N	N	200	>5000	N	N	N	<5	100	70	15	N
87RM25A	CHY465	65 24 38	149 49 50	12	<0.05	0.2	0.1	N	<0.2	0.01	N	N	N	10	>5000	N	N	N	N	10	<5	<5	N
87RM25B	CHY466	65 24 38	149 49 50	14	3	3	1.5	2	N	0.2	N	N	N	<10	1000	N	N	N	30	200	70	20	N
87RM26A	CHY467	65 24 33	149 50 29	14	0.5	5	5	1.5	0.5	0.2	N	N	N	20	1000	N	N	N	30	200	30	15	N
87RM29A	CHY468	65 27 42	149 43 51	12	0.05	3	3	1.5	<0.2	0.1	N	N	N	30	300	<1	N	N	30	200	50	20	N
87RM31A	CHY469	65 18 42	149 57 20	12	1	1.5	2	1.5	0.2	0.15	N	N	N	10	1000	<1	N	N	10	100	30	15	N
87RM32A	CHY470	65 18 59	149 56 42	12	0.3	3	2	2	<0.2	0.2	N	N	N	100	1500	<1	N	N	10	200	5	30	N
87RM38A	CHY471	65 24 30	149 56 50	12	0.05	1	0.7	0.5	<0.2	0.1	N	N	N	50	1500	<1	N	N	<5	70	15	10	N
87RM41A	CHY472	65 24 57	149 56 41	12	<0.05	2	0.5	0.2	<0.2	0.2	2	N	N	50	5000	1	N	N	<5	200	50	15	N
87RM42A	CHY473	65 26 45	149 47 12	12	0.07	5	3	2	<0.2	0.2	N	N	N	70	1500	<1	N	N	15	200	50	20	N
87RM42B	CHY474	65 26 45	149 47 12	12	0.05	0.5	0.1	<0.2	<0.2	0.07	N	N	N	20	200	N	N	N	<5	30	5	<5	N
87RM45A	CHY475	65 27 20	149 41 30	12	<0.05	0.2	0.05	N	<0.2	0.05	N	N	N	10	100	N	N	N	N	20	<5	<5	N
87RM46A	CHY476	65 53 37	147 13 45	14	0.5	5	5	2	N	0.5	N	N	N	N	200	N	N	N	50	200	50	20	N
87RM49A	CHY477	65 54 07	147 12 57	14	5	5	5	0.5	N	>1	N	N	N	N	1000	N	N	N	50	500	50	20	N
87RM50A	CHY478	65 54 14	147 13 10	14	0.05	2	0.1	N	<0.2	0.15	N	N	N	50	200	<1	N	N	<5	20	5	10	N
87RM53A	CHY479	65 47 48	149 27 00	12	2	1	1	2	N	0.2	N	N	N	20	700	<1	N	N	15	100	20	20	N
87RM53C	CHY480	65 47 48	149 27 00	12	0.1	5	2	1	N	0.5	N	N	N	50	3000	<1	N	N	15	100	100	20	N
87RM53D	CHY481	65 47 48	149 27 00	14	2	5	5	2	<0.2	0.5	N	N	N	<10	200	N	N	N	30	200	20	20	N
87RM55A	CHY482	65 47 38	149 26 49	14	5	7	7	3	N	1	N	N	N	N	100	N	N	N	50	200	30	20	N
87RM56	CHY483	65 47 38	149 26 49	14	0.5	5	2	5	<0.2	0.7	N	N	N	N	3000	1	N	N	15	50	10	20	N
87RM57	CHY484	65 47 38	149 26 49	14	3	7	7	2	N	1	N	N	N	N	150	<1	N	N	30	500	20	20	N
87WR002	CHY705	65 15 55	148 52 55	18	0.07	7	5	2	0.2	0.5	N	N	N	150	1000	N	N	N	<10	100	70	20	N
87WR005	CHY706	65 31 20	149 07 00	21	>20	0.5	0.7	<0.2	N	0.1	N	N	N	70	150	N	N	N	N	10	<5	10	N
87WR006B	CHY707	65 31 25	149 07 00	28	0.05	7	1.5	0.7	N	0.5	N	N	N	200	300	<1	N	N	30	100	20	30	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87RM15A	50	200	N	N	50	15	N	15	N	300	N	500	N	20	500	100	--	300	N	1.4	N	350
87RM17A	N	200	N	N	15	<10	N	7	N	N	N	150	N	10	<200	50	--	20	N	N	N	60
87RM17B	50	1500	N	N	5	20	N	5	N	500	N	50	N	15	<200	100	--	20	N	0.2	N	130
87RM18B	<20	1000	N	N	30	50	N	10	N	300	N	100	N	10	<200	50	--	<10	N	0.2	N	65
87RM18C	N	1000	N	N	15	<10	N	5	N	100	N	50	N	10	N	50	--	10	N	0.3	N	50
87RM20A	N	1000	N	N	70	N	N	20	N	100	N	300	N	20	200	70	--	N	N	0.1	N	95
87RM20C	<20	1500	5	N	5	30	N	15	N	300	N	200	N	10	<200	70	--	N	N	0.2	N	80
87RM21A	N	200	N	N	50	<10	N	10	N	N	N	150	N	10	<200	50	--	20	N	N	N	100
87RM22A	<20	500	N	N	20	<10	N	7	N	N	N	100	N	15	<200	70	--	<10	N	0.6	N	110
87RM24B	<20	100	N	N	30	<10	N	7	N	N	N	300	N	<10	<200	50	--	N	N	N	N	105
87RM25A	N	200	N	N	<5	N	N	N	N	N	N	10	N	N	<200	N	--	N	N	N	N	5
87RM25B	N	1500	N	N	70	N	N	20	N	100	N	100	N	<10	N	<10	--	N	N	<0.1	N	35
87RM26A	50	1000	N	<20	100	<10	N	15	N	200	N	100	N	15	<200	100	--	300	N	0.1	N	75
87RM29A	N	300	N	N	100	30	N	10	N	N	N	100	N	10	200	50	--	20	N	0.1	N	120
87RM31A	N	1000	N	N	30	10	N	7	N	100	N	100	N	15	<200	100	--	N	N	0.1	N	100
87RM32A	<20	500	N	N	70	30	N	15	N	100	N	150	N	20	<200	100	--	50	N	0.1	N	95
87RM38A	N	1000	N	N	20	N	N	7	N	N	N	50	N	<10	<200	50	--	N	N	N	N	40
87RM41A	N	100	5	N	10	20	N	10	N	<100	N	200	N	20	<200	100	--	N	N	0.2	N	30
87RM42A	<20	500	N	N	70	20	N	15	N	N	N	150	N	20	200	70	--	N	N	0.3	N	180
87RM42B	N	50	N	N	<5	<10	N	N	N	N	N	20	N	N	<200	150	--	N	N	N	N	15
87RM45A	N	300	N	N	<5	<10	N	N	N	N	N	10	N	N	<200	100	--	N	N	N	N	N
87RM46A	N	500	N	N	70	<10	N	15	N	200	N	100	N	10	200	50	--	N	N	0.1	N	120
87RM49A	N	500	N	<20	200	<10	N	10	N	150	N	70	N	10	200	100	--	80	N	0.1	N	85
87RM50A	N	50	N	N	<5	<10	N	<5	N	N	N	50	N	15	<200	200	--	N	N	N	N	20
87RM53A	<20	1500	N	N	20	10	N	10	N	<100	N	100	N	15	<200	50	--	N	N	0.2	N	80
87RM53C	<20	1000	N	N	30	15	N	15	N	N	N	200	N	20	<200	100	--	N	N	0.3	N	100
87RM53D	N	500	N	N	50	<10	N	15	N	150	N	150	N	20	<200	50	--	N	N	N	N	70
87RM55A	N	1500	N	N	30	<10	N	20	N	200	N	200	N	30	200	70	--	N	N	N	N	80
87RM56	70	1000	N	<20	5	20	N	10	N	300	N	100	N	50	<200	500	--	N	N	0.2	N	145
87RM57	N	1500	N	N	15	<10	N	20	N	150	N	200	N	20	<200	70	--	N	N	N	N	65
87WR002	N	1500	N	N	20	30	N	10	N	N	N	200	N	<10	<200	70	--	20	N	0.2	N	75
87WR005	N	70	N	N	<5	<10	N	N	N	700	N	15	N	N	N	<10	--	N	N	N	N	25
87WR006B	50	500	N	N	30	20	N	15	N	N	N	200	N	20	<200	100	--	N	N	N	N	175

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87WR007	CHY708	65 30 02	149 07 32	28	<0.05	5	1	1	N	0.3	N	N	N	100	200	N	N	N	10	70	30	20	N
87WR009	CHY709	65 29 48	149 04 12	17	0.5	7	2	3	<0.2	0.3	N	N	N	20	300	N	N	N	15	<10	30	20	N
87WR010	CHY710	65 30 03	149 04 30	34	<0.05	0.1	0.05	N	<0.2	0.01	N	N	N	10	100	N	N	N	N	N	<5	N	N
87WR011	CHY711	65 30 38	149 04 31	34	<0.05	0.15	0.05	N	<0.2	0.015	N	N	N	<10	300	N	N	N	N	<10	5	N	N
87WR012	CHY712	65 36 15	148 28 32	34	0.07	<0.05	0.05	N	<0.2	0.01	N	N	N	50	150	N	N	N	N	<10	5	N	N
87WR013	CHY713	65 36 22	149 27 19	16	<0.05	1	0.2	N	<0.2	0.1	N	N	N	30	150	N	N	N	N	10	20	<5	N
87WR014	CHY714	65 38 10	148 25 30	21	>20	<0.05	5	N	N	<0.002	N	N	N	N	N	N	N	N	N	N	N	N	N
87WR016A	CHY715	65 38 00	148 25 25	14	1	10	7	3	N	0.5	N	N	N	<10	100	N	N	N	50	300	70	20	N
87WR016B	CHY716	65 38 00	148 25 25	21	>20	0.15	0.3	<0.2	N	0.02	N	N	N	N	20	N	N	N	N	<10	N	N	N
87WR017A	CHY717	65 37 56	148 25 20	28	0.2	7	2	1	<0.2	0.2	N	N	N	100	200	<1	N	N	20	50	30	20	N
87WR020A	CHY718	65 42 00	148 04 35	28	<0.05	10	1.5	1	N	0.5	N	N	N	100	300	1	N	N	20	100	10	20	N
87WR020D	CHY719	65 42 00	148 04 35	28	<0.05	10	1.5	1	N	0.7	N	N	N	200	200	<1	N	N	N	100	70	20	N
87WR021	CHY690	65 36 01	148 12 30	34	<0.05	0.15	0.03	N	<0.2	0.02	N	N	N	15	100	N	N	N	N	<10	7	5	N
87WR022	CHY691	65 39 09	148 28 22	34	<0.05	0.1	0.05	N	<0.2	0.015	N	N	N	10	150	N	N	N	N	<10	<5	5	N
87WR023A	CHY693	65 40 05	148 27 42	34	<0.05	7	0.2	N	<0.2	0.15	N	N	N	70	5000	N	N	N	N	50	30	7	N
87WR023B	CHY692	65 40 05	148 27 42	18	<0.05	5	1	N	<0.2	0.3	N	N	N	100	5000	<1	N	N	N	100	30	7	N
87WR024	CHY694	65 40 52	148 28 05	28	<0.05	5	0.7	1	<0.2	0.2	N	N	N	100	2000	N	N	N	N	100	30	10	N
87WR025	CHY695	65 41 48	148 22 08	28	<0.05	1	0.5	N	<0.2	0.2	N	N	N	100	2000	<1	N	N	10	70	20	10	N
87WR026B	CHY696	65 41 00	148 20 28	18	<0.05	7	1	1	N	0.5	N	N	N	50	300	N	N	N	15	50	20	15	N
87WR027	CHY697	65 42 06	148 01 00	28	0.5	10	2	N	N	0.2	N	N	N	70	1500	<1	N	N	20	70	500	10	N
87WR028	CHY698	65 42 59	148 07 00	17	0.05	1	0.2	0.7	0.2	0.15	N	N	N	10	200	N	N	N	<10	10	15	7	N
87WR029	CHY699	65 35 33	148 30 28	34	<0.05	0.05	<0.02	N	<0.2	0.01	N	N	N	20	100	N	N	N	N	N	5	<5	N
87WR030	CHY700	65 42 05	148 22 40	20	0.05	7	1	0.3	N	0.7	N	N	N	150	2000	<1	N	N	15	100	30	15	N
87WR031	CHY701	65 41 53	148 23 50	28	<0.05	7	0.7	0.5	N	0.5	N	N	N	200	2000	<1	N	N	20	70	50	15	N
87WR032	CHY702	65 43 38	148 18 08	28	2	5	2	1.5	N	0.2	N	N	N	20	300	N	N	N	10	150	50	10	N
87WR035A	CHY703	65 21 26	149 38 09	28	<0.05	1	0.1	N	N	0.05	N	N	N	30	700	N	N	N	N	20	70	5	N
87WR035B	CHY704	65 21 26	149 38 09	14	<0.05	3	0.15	3	<0.2	0.2	N	N	N	20	1500	1	N	N	<10	30	10	20	N
87WR035C	CHY720	65 21 26	149 38 09	28	<0.05	0.3	0.2	N	<0.2	0.1	N	N	N	70	2000	N	N	N	N	30	7	5	N
87WR036A	CHY721	65 21 37	149 38 35	35	<0.05	0.2	<0.02	N	<0.2	0.002	N	N	N	10	200	N	N	N	N	<10	5	<5	N
87WR036B	CHY722	65 21 37	149 38 35	35	<0.05	0.5	<0.02	N	<0.2	0.002	N	N	N	10	200	N	N	N	N	<10	30	<5	N
87WR036C	CHY723	65 21 37	149 38 35	35	N	0.5	<0.02	N	<0.2	0.005	N	N	N	<10	150	N	N	N	N	<10	20	<5	N
87WR036D	CHY724	65 21 37	149 38 35	29	<0.05	1	0.15	N	<0.2	0.07	N	500	N	70	1000	3	N	N	N	<10	7	15	N
87WR038A	CHY725	65 22 11	149 40 02	28	<0.05	5	2	1	N	0.5	<0.5	N	N	200	2000	N	N	N	N	500	100	20	N
87WR038B	CHY727	65 22 11	149 40 02	34	<0.05	0.7	0.1	N	0.2	0.02	0.5	N	N	20	1500	N	N	N	N	50	20	<5	N
87WR038E	CHY726	65 22 11	149 40 02	34	<0.05	0.7	<0.02	N	0.7	0.015	<0.5	N	N	10	2000	N	N	N	N	20	30	<5	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87WR007	<50	1000	N	N	15	<10	N	10	N	N	N	100	N	10	<200	50	--	N	N	N	N	120
87WR009	N	1000	N	N	<5	<10	N	15	N	200	N	100	N	15	<200	70	--	N	N	0.2	N	90
87WR010	N	100	N	N	5	N	N	N	N	N	N	<10	N	N	<200	N	--	N	N	N	N	10
87WR011	N	100	N	N	7	N	N	N	N	N	N	10	N	N	<200	<10	--	N	N	N	N	15
87WR012	N	10	N	N	5	N	N	N	N	N	N	<10	N	N	<200	<10	--	N	N	N	N	15
87WR013	N	15	N	N	7	N	N	N	N	N	N	50	N	N	<200	10	--	N	N	N	N	20
87WR014	N	30	N	N	N	N	N	N	N	500	N	N	N	N	N	N	--	N	N	N	N	10
87WR016A	N	1500	N	N	150	N	N	10	N	200	N	200	N	<10	<200	20	--	N	N	0.1	N	80
87WR016B	N	50	N	N	N	N	N	N	N	1500	N	10	N	N	N	N	--	N	N	N	N	20
87WR017A	<50	2000	N	N	30	20	N	7	N	N	N	50	N	10	N	50	--	N	N	N	N	115
87WR020A	50	500	N	N	50	20	N	10	N	N	N	100	N	15	<200	50	--	N	N	N	N	85
87WR020D	50	300	N	N	20	30	N	10	N	N	N	100	N	10	N	70	--	20	N	N	N	65
87WR021	N	15	N	N	<5	N	N	N	N	N	N	10	N	N	<200	N	--	N	N	N	N	N
87WR022	N	70	N	N	<5	N	N	N	N	N	N	10	N	N	<200	N	--	N	N	N	N	5
87WR023A	<50	100	N	N	30	<10	N	7	N	N	N	150	N	<10	<200	30	--	60	N	N	<2	70
87WR023B	N	50	N	N	50	<10	N	10	N	N	N	200	N	10	<200	100	--	N	N	N	N	105
87WR024	<50	50	N	N	20	10	N	10	N	N	N	200	N	<10	<200	100	--	N	N	N	N	70
87WR025	<50	30	N	N	20	10	N	7	N	N	N	200	N	<10	<200	70	--	<10	N	N	N	75
87WR026B	<50	500	N	N	20	<10	N	7	N	N	N	100	N	10	<200	200	--	N	N	N	N	85
87WR027	<50	2000	N	N	50	20	N	10	N	200	N	150	N	15	<200	100	--	N	N	N	N	140
87WR028	N	70	N	N	5	<10	N	N	N	N	N	20	N	N	N	150	--	N	N	N	N	15
87WR029	N	<10	N	N	<5	N	N	N	N	N	N	<10	N	N	<200	N	--	N	N	N	N	5
87WR030	<50	70	N	N	50	10	N	10	N	N	N	500	N	15	200	100	--	N	N	N	N	120
87WR031	<50	100	N	N	50	10	N	10	N	N	N	300	N	10	<200	100	--	N	N	N	N	140
87WR032	N	1500	N	N	100	<10	N	5	N	200	N	70	N	<10	<200	50	--	N	N	0.2	N	60
87WR035A	N	20	N	N	7	N	N	N	N	N	N	100	N	N	N	<10	--	10	N	N	10	110
87WR035B	50	1000	N	N	7	15	N	<5	N	300	N	50	N	N	200	100	--	90	N	0.5	32	185
87WR035C	N	<10	N	N	7	<10	N	N	N	N	N	150	N	N	N	10	--	N	N	N	4	10
87WR036A	N	200	N	N	5	N	N	N	N	N	N	<10	N	N	N	N	--	N	N	N	N	10
87WR036B	N	50	N	N	7	N	N	N	N	N	N	<10	N	N	N	N	--	N	N	N	N	10
87WR036C	N	10	N	N	<5	N	N	N	N	N	N	<10	N	N	N	N	--	N	N	N	N	30
87WR036D	50	15	N	N	<5	30	N	N	N	N	N	10	N	N	N	150	--	1300	N	N	20	20
87WR038A	<50	100	N	N	15	<10	N	10	N	N	N	300	N	<10	N	100	--	100	N	0.2	16	65
87WR038B	N	10	N	N	5	N	N	N	N	N	N	100	N	N	N	N	--	30	N	N	10	10
87WR038E	N	70	N	N	7	<10	N	N	N	150	N	50	N	N	N	N	--	50	N	0.1	36	15

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87WR038F	CHY728	65 22 11	149 40 02	35	<0.05	0.1	<0.02	N	0.2	0.002	N	N	N	<10	1500	N	N	N	N	<10	5	<5	N
87WR041	CHY729	65 20 46	149 50 18	28	0.05	2	0.5	3	<0.2	0.15	5	10000	N	70	2000	2	N	N	N	30	500	20	N
87WR042	CHY610	65 20 50	149 50 18	14	10	0.5	0.2	0.5	N	0.05	N	N	N	<10	100	N	N	N	N	10	<5	<5	N
87WR043A	CHY611	65 20 58	149 50 02	14	1.5	5	2	3	<0.2	0.5	N	N	N	<10	2000	1	N	N	<5	20	15	20	N
87WR043B	CHY612	65 20 58	149 50 02	14	0.05	5	1.5	2	<0.2	1	N	500	N	20	2000	N	N	N	<5	100	100	20	N
87WR043C	CHY613	65 20 58	149 50 02	29	<0.05	0.2	0.05	3	<0.2	0.02	N	N	N	10	200	1	N	N	N	<10	<5	15	N
87WR043D	CHY614	65 20 58	149 50 02	29	0.3	1	1	5	<0.2	0.2	N	N	N	<10	2000	1.5	N	N	<5	10	5	20	N
87WR044	CHY615	65 21 16	149 49 51	28	<0.05	10	0.7	0.7	N	1	N	N	N	200	>5000	N	N	N	<5	70	30	15	N
87WR048A	CHY616	65 23 58	149 47 52	21	1	7	2	N	N	0.01	N	N	N	N	300	N	N	N	30	>5000	7	<5	N
87WR048B	CHY617	65 23 58	149 47 52	21	15	2	10	N	N	0.002	N	N	N	N	20	N	N	N	N	15	5	<5	N
87WR048C	CHY618	65 23 58	149 47 52	31	20	1	10	0.7	N	0.03	N	N	N	10	200	N	N	N	<5	<10	<5	10	N
87WR049	CHY619	65 23 23	149 48 22	14	2	5	5	3	N	0.5	N	N	N	<10	2000	<1	N	N	20	100	20	20	N
87WR050A	CHY620	65 23 28	149 48 08	16	2	2	7	2	N	1	N	N	N	<10	200	N	N	N	10	700	20	15	N
87WR050B	CHY621	65 23 28	149 48 08	16	0.05	7	5	2	N	0.5	N	N	N	<10	200	N	N	N	20	5000	30	15	N
87WR052	CHY622	65 23 26	149 51 38	34	0.3	0.5	0.7	1	N	0.02	N	700	N	<10	200	N	N	N	N	10	10	<5	N
87WR054	CHY623	65 23 09	149 52 30	16	10	2	2	<0.2	N	0.2	N	500	N	<10	300	N	N	N	<5	50	20	10	N
87WR055	CHY624	65 23 12	149 52 32	29	<0.05	0.2	0.02	3	<0.2	0.01	N	<200	N	15	100	1	N	N	N	<10	5	20	N
87WR056A	CHY625	65 21 21	149 27 20	16	1	2	5	5	<0.2	1	N	N	N	N	1500	N	N	N	10	50	50	20	N
87WR057A	CHY626	65 23 02	149 42 10	28	1	2	3	3	N	1	N	N	N	<10	500	N	N	N	10	20	30	15	N
87WR057B	CHY627	65 23 02	149 42 10	14	10	5	7	3	<0.2	0.7	N	N	N	N	2000	<1	N	N	20	500	20	20	N
87WR057C	CHY628	65 23 02	149 42 10	16	0.2	3	0.5	2	<0.2	0.3	N	N	N	<10	200	<1	N	N	<5	30	10	15	N
87WR058A	CHY629	65 22 17	149 49 34	21	>20	0.1	0.7	N	N	0.007	N	N	N	N	300	N	N	N	N	<10	<5	N	N
87WR058B	CHY630	65 22 17	149 49 34	14	0.07	2	0.5	5	<0.2	0.3	N	200	N	20	2000	2	N	N	<5	<10	20	30	N
87WR059A	CHY631	65 24 28	149 49 02	31	1	10	7	3	N	>1	N	N	N	N	700	N	N	N	30	200	200	20	N
87WR060A	CHY632	65 24 50	149 47 32	31	2	10	5	2	N	1	N	N	N	N	50	N	N	N	30	70	30	15	N
87WR060B	CHY633	65 24 50	149 47 32	35	>20	0.7	3	0.5	N	0.1	N	N	N	N	50	N	N	N	<5	<10	5	10	N
87WR061	CHY634	65 23 38	149 44 59	28	0.05	7	5	1	<0.2	0.7	N	N	N	30	300	N	N	N	<5	70	30	15	N
87WR062A	CHY635	65 23 40	149 45 00	14	0.1	1	10	N	N	<0.002	N	300	N	N	<20	N	N	N	30	>5000	<5	N	N
87WR062B	CHY636	65 23 40	149 45 00	14	3	5	10	3	N	0.2	N	N	N	N	50	N	N	N	30	200	70	20	N
87WR063	CHY637	65 26 12	149 45 41	34	<0.05	0.5	0.1	<0.2	<0.2	0.15	N	N	N	20	100	N	N	N	<5	20	20	<5	N
87WR064A	CHY638	65 25 22	149 44 08	31	5	5	7	2	N	1	N	N	N	N	1000	N	N	N	30	2000	100	15	N
87WR064C	CHY639	65 25 22	149 44 08	31	0.3	10	5	3	N	>1	N	N	N	N	1500	N	N	N	30	150	7	20	N
87WR064L	CHY641	65 25 22	149 44 08	14	7	2	10	3	<0.2	0.2	N	N	N	<10	2000	1	N	N	10	200	10	30	N
87WR064M	CHY640	65 25 22	149 44 08	21	20	0.15	>10	N	N	0.002	N	N	N	N	<20	N	N	N	N	N	N	N	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87WR038F	N	10	N	N	5	N	N	N	N	N	N	10	N	N	N	N	--	20	N	0.1	4	5
87WR041	<50	100	N	N	7	10	N	5	N	150	N	30	N	10	N	100	--	>2000	N	0.3	4	30
87WR042	N	1000	N	N	<5	<10	N	N	N	200	N	10	N	N	<200	20	--	N	N	N	N	5
87WR043A	<20	1500	N	N	<5	50	N	10	N	500	N	100	N	15	<200	100	--	60	2	N	N	85
87WR043B	<20	300	N	N	10	10	N	10	N	<100	N	200	N	20	N	100	--	900	N	1.1	<2	75
87WR043C	N	200	N	N	5	20	N	N	N	100	N	<10	N	N	N	15	--	300	N	0.8	4	30
87WR043D	<20	700	N	N	<5	50	N	5	N	300	N	20	N	10	N	100	--	10	N	0.6	16	120
87WR044	<20	100	N	N	7	<10	N	10	N	N	N	200	N	10	200	70	--	50	2	0.6	4	190
87WR048A	N	2000	N	N	700	<10	N	7	N	N	N	70	N	N	<200	N	--	50	N	0.5	6	15
87WR048B	N	1500	N	N	50	N	N	N	N	N	N	<10	N	N	<200	N	--	N	N	0.2	N	50
87WR048C	N	2000	N	N	100	N	N	N	N	N	N	<10	N	N	N	<10	--	N	N	0.1	N	25
87WR049	<20	1000	N	N	10	30	N	10	N	300	N	150	N	10	N	50	--	10	N	0.1	N	90
87WR050A	N	5000	N	N	20	<10	N	15	N	N	N	150	N	20	<200	20	--	N	N	0.1	N	70
87WR050B	N	1000	N	N	70	<10	N	15	N	N	N	200	N	15	<200	50	--	<10	N	0.1	2	70
87WR052	N	500	N	N	5	<10	N	N	N	N	N	20	N	N	N	<10	--	1400	N	0.4	14	35
87WR054	<20	1000	N	N	20	<10	N	5	N	N	N	100	N	10	<200	30	--	700	N	0.2	N	60
87WR055	N	20	N	20	<5	<10	N	N	N	N	N	<10	N	N	N	10	--	300	N	<0.1	N	10
87WR056A	N	3000	N	N	10	<10	N	15	N	100	N	200	N	15	<200	30	--	N	N	0.1	N	85
87WR057A	<20	500	N	N	20	15	N	7	N	N	N	100	N	15	<200	50	--	N	N	0.2	N	130
87WR057B	<20	1500	N	N	15	30	N	20	N	500	N	200	N	20	<200	100	--	30	N	0.2	8	105
87WR057C	<20	100	N	N	15	10	N	<5	N	N	N	100	N	<10	<200	70	--	N	N	0.1	<2	60
87WR058A	N	100	N	N	N	N	N	N	N	200	N	50	N	N	N	N	--	N	N	0.6	N	15
87WR058B	<20	1000	N	N	5	30	N	<5	N	300	N	50	N	<10	<200	100	--	700	N	0.7	10	135
87WR059A	N	2000	N	N	50	10	N	50	N	100	N	500	N	30	200	30	--	N	N	0.1	N	75
87WR060A	N	1000	N	N	30	N	N	20	N	N	N	300	N	20	200	30	--	N	N	0.2	N	65
87WR060B	N	5000	N	N	<5	N	N	N	N	300	N	20	N	<10	N	N	--	N	N	N	N	15
87WR061	N	200	N	N	30	<10	N	10	N	N	N	200	N	10	<200	70	--	10	N	0.4	N	115
87WR062A	N	300	N	N	1000	N	N	N	N	N	N	<10	N	N	N	N	--	1100	<1	0.2	20	15
87WR062B	N	1000	N	N	100	N	N	20	N	100	N	100	N	N	N	<10	--	10	N	0.1	N	35
87WR063	N	100	N	N	7	<10	N	N	N	N	N	150	N	N	N	10	--	10	N	<0.1	2	30
87WR064A	N	1000	N	N	500	<10	N	10	N	200	N	150	N	10	N	20	--	N	N	0.2	N	20
87WR064C	N	1500	N	N	30	20	N	20	N	100	N	200	N	20	<200	100	--	N	N	0.2	N	120
87WR064L	N	2000	N	N	20	20	N	15	50	500	N	100	N	10	<200	20	--	10	N	0.1	N	95
87WR064M	N	200	N	N	N	N	N	N	N	<100	N	<10	N	N	N	N	--	N	N	0.1	N	50

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87WR065C	CHY642	65 25 33	149 49 28	14	10	7	10	2	<0.2	>1	N	N	N	N	1500	N	N	N	50	200	100	15	N
87WR066A	CHY643	65 25 28	149 48 52	14	5	5	10	2	<0.2	>1	N	N	N	N	1500	N	N	N	30	200	50	15	N
87WR067	CHY644	65 25 32	149 48 28	14	1	5	10	2	<0.2	>1	N	N	N	20	5000	N	N	N	50	500	50	30	N
87WR068	CHY645	65 25 29	149 48 12	14	0.5	1	0.5	5	<0.2	0.2	N	200	N	10	1500	1	N	N	<5	<10	15	20	N
87WR069	CHY646	65 25 39	149 47 30	31	2	5	7	3	N	0.2	N	N	N	N	50	N	N	N	30	70	100	20	N
87WR070	CHY647	65 25 40	149 45 52	21	>20	0.2	10	<0.2	N	0.005	N	N	N	N	20	N	N	N	N	N	<5	N	N
87WR071	CHY648	65 25 34	149 45 50	14	0.5	0.1	0.5	N	<0.2	N	N	N	N	<10	<20	N	N	N	N	N	N	N	N
87WR072A	CHY649	65 23 33	149 38 16	34	<0.05	0.2	0.05	N	<0.2	0.01	N	N	N	10	100	N	N	N	N	<10	20	<5	N
87WR072B	CHY665	65 23 33	149 38 16	18	3	5	7	3	N	0.5	N	N	N	<10	200	N	N	N	20	500	20	30	N
87WR075	CHY666	65 24 02	149 32 39	34	2	7	5	1	N	0.2	N	N	N	N	150	N	20	N	30	700	300	30	N
87WR077B	CHY667	65 25 05	149 28 35	34	0.2	5	3	3	N	0.5	N	N	N	50	1500	N	N	N	<10	30	30	30	N
87WR077C	CHY668	65 25 05	149 28 35	29	0.5	2	1.5	3	<0.2	0.2	N	N	N	N	2000	1	N	N	<10	<10	5	30	N
87WR079	CHY669	65 24 40	149 26 25	25	<0.05	1	0.5	<0.2	<0.2	0.15	N	N	N	50	200	N	N	N	<10	70	10	10	N
87WR081	CHY670	65 23 22	149 41 22	14	<0.05	0.7	1	3	<0.2	0.05	N	N	N	100	1000	2	N	N	N	<10	<5	30	N
87WR083	CHY671	65 26 02	149 55 16	19	<0.05	5	1	<0.2	N	0.2	N	N	N	70	2000	<1	N	N	15	100	50	15	N
87WR084A	CHY672	65 26 38	149 50 37	28	0.3	7	5	3	N	0.5	N	N	N	50	500	N	N	N	20	500	30	20	N
87WR084B	CHY673	65 26 38	149 50 37	34	0.2	3	2	1	0.2	0.15	N	N	N	100	1000	N	N	N	10	100	100	15	N
87WR084C	CHY674	65 26 38	149 50 37	34	<0.05	5	1.5	0.3	N	0.15	N	N	N	20	1000	<1	N	N	N	150	50	15	N
87WR085	CHY650	65 27 47	149 45 22	34	<0.05	1	0.02	N	0.2	0.01	N	N	N	10	500	<1	N	N	<10	20	30	<5	N
87WR086	CHY651	65 27 52	149 45 40	34	<0.05	1.5	0.03	N	<0.2	0.05	N	N	N	10	200	<1	N	N	<10	<10	20	10	N
87WR087	CHY652	65 55 32	147 08 06	20	0.3	2	1	0.2	N	0.15	N	N	N	200	700	1	N	N	<10	70	5	30	N
87WR088	CHY653	65 55 48	147 04 18	21	20	1	10	N	N	0.01	N	N	N	<10	200	N	N	N	N	<10	<5	<5	N
87WR089A	CHY654	65 54 24	147 01 21	25	0.05	0.7	0.1	N	<0.2	0.05	N	N	N	10	100	N	N	N	<10	10	<5	<5	N
87WR089B	CHY655	65 54 24	147 01 21	25	2	7	5	N	N	0.5	N	N	N	<10	70	N	N	N	50	1000	50	20	N
87WR090	CHY656	65 53 39	147 08 49	28	0.05	7	1	1	N	0.2	N	N	N	100	500	1	N	N	15	100	5	30	N
87WR091A	CHY657	65 53 21	147 12 40	25	0.05	3	0.2	N	<0.2	0.1	N	N	N	20	50	<1	N	N	<10	30	7	<5	N
87WR091B	CHY658	65 53 21	147 12 40	28	10	5	5	3	<0.2	0.5	N	N	N	N	1500	N	N	N	30	200	50	20	N
87WR092	CHY659	65 53 11	147 12 40	21	>20	0.1	2	N	N	0.01	N	N	N	N	100	N	N	N	N	<10	N	N	N
87WR093	CHY660	65 55 34	147 11 30	21	1	5	3	N	0.3	1	N	N	N	20	2000	<1	N	N	50	200	100	30	N
87WR094	CHY661	65 54 52	147 00 35	21	0.05	5	1	N	<0.2	0.2	0.5	N	N	50	>5000	N	N	N	<10	200	200	15	N
87WR095A	CHY662	65 53 38	147 14 24	31	2	5	2	3	<0.2	0.7	N	N	N	N	300	N	N	N	20	50	30	20	N
87WR096	CHY663	65 53 52	147 15 00	31	1.5	7	5	3	0.7	1	N	N	N	N	1500	<1	N	N	20	N	N	30	N
87WR097A	CHY664	65 53 36	147 15 31	21	20	0.15	0.5	N	N	0.007	N	N	N	N	<20	N	N	N	N	<10	N	N	N
87WR097B	CHY675	65 53 36	147 15 31	26	>20	0.1	0.2	N	N	<0.002	N	N	N	N	<20	N	N	N	N	<10	N	N	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87WR065C	<20	1500	N	<20	200	<10	N	30	N	500	N	200	N	20	<200	50	--	N	N	0.2	N	60
87WR066A	N	1000	N	N	70	N	N	15	N	200	N	100	N	20	<200	50	--	N	N	0.1	N	45
87WR067	N	1000	N	<20	100	<10	N	20	N	300	N	200	N	30	200	70	--	10	N	0.1	N	55
87WR068	<20	1000	N	N	<5	1000	N	N	N	200	N	50	N	15	200	100	--	900	N	2.6	8	185
87WR069	N	1500	N	N	30	<10	N	15	N	N	N	200	N	15	200	20	--	N	N	0.2	N	115
87WR070	N	500	N	N	N	N	N	N	N	<100	N	<10	N	N	N	N	--	N	N	N	N	20
87WR071	N	300	N	N	<5	N	N	N	N	N	N	<10	N	N	<200	N	--	N	N	N	N	20
87WR072A	N	50	N	N	<5	N	N	N	N	N	N	50	N	N	<200	10	--	N	N	N	<2	5
87WR072B	N	1000	N	N	150	<10	N	20	N	150	N	200	N	20	<200	100	--	20	N	0.2	2	100
87WR075	<50	100	N	N	300	<10	N	20	N	100	N	200	N	15	<200	100	--	N	20	0.1	N	40
87WR077B	<50	1000	N	N	10	<10	N	20	N	N	N	200	N	20	<200	150	--	N	N	N	N	55
87WR077C	<50	700	N	<20	<5	50	N	<5	N	300	N	20	N	10	N	100	--	100	N	N	N	80
87WR079	N	70	N	N	20	N	N	N	N	N	N	70	N	N	N	70	--	N	N	N	N	40
87WR081	<50	500	N	<20	<5	500	N	N	20	N	N	<10	N	15	<200	50	--	20	N	N	10	20
87WR083	<50	300	N	N	50	<10	N	7	N	N	N	200	N	15	200	100	--	N	N	0.1	N	100
87WR084A	N	700	N	N	100	15	N	10	N	N	N	200	N	10	200	200	--	N	N	0.3	N	110
87WR084B	<50	300	N	N	30	15	N	7	N	N	N	200	N	20	200	70	--	N	N	0.2	<2	125
87WR084C	<50	500	N	N	20	20	N	5	N	N	N	200	N	10	200	50	--	N	N	<0.1	<2	70
87WR085	<50	50	N	N	5	<10	N	N	N	N	N	100	N	N	<200	<10	--	10	N	N	N	10
87WR086	<50	100	N	N	7	N	N	N	N	N	N	20	N	<10	<200	50	--	N	N	<0.1	N	70
87WR087	50	100	N	N	15	<10	N	15	N	N	N	100	N	15	<200	100	--	N	N	N	N	95
87WR088	N	500	N	N	N	<10	N	N	N	100	N	10	N	N	200	<10	--	N	N	1.9	N	300
87WR089A	N	200	N	N	5	N	N	N	N	N	N	10	N	N	<200	200	--	N	N	N	N	15
87WR089B	<50	1000	N	<20	300	<10	N	20	N	N	N	200	N	15	200	100	--	10	N	0.3	N	145
87WR090	<50	200	N	N	30	20	N	10	N	N	N	150	N	15	<200	100	--	N	N	N	N	90
87WR091A	<50	500	N	N	20	<10	N	N	N	N	N	15	N	<10	<200	150	--	10	N	N	N	60
87WR091B	<50	1500	N	N	100	<10	N	15	N	300	N	150	N	10	<200	70	--	N	N	0.1	N	80
87WR092	N	50	N	N	N	10	N	N	N	500	N	<10	N	N	N	N	--	N	N	2.7	<2	60
87WR093	<50	1000	N	<20	150	15	N	20	N	N	N	100	N	20	500	100	--	N	N	0.6	N	450
87WR094	<50	70	20	N	100	50	N	10	N	<100	N	2000	N	30	1000	100	--	30	N	2.4	14	700
87WR095A	N	1000	N	N	20	<10	N	10	N	300	N	150	N	15	<200	50	--	N	N	0.1	N	120
87WR096	100	1000	N	50	<5	20	N	5	N	500	N	50	N	30	<200	200	--	N	N	0.2	N	200
87WR097A	N	100	N	N	N	<10	N	N	N	100	N	10	N	<10	N	N	--	N	N	0.2	<2	30
87WR097B	N	2000	N	N	N	N	N	N	N	N	N	<10	N	N	<200	N	--	N	N	N	N	10

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87WR097C	CHY676	65 53 36	147 15 31	26	15	<0.05	0.2	N	N	<0.002	N	N	N	N	<20	N	N	N	N	N	N	N	N
87WR097D	CHY677	65 53 36	147 15 31	21	20	1	5	N	N	0.5	N	N	N	N	200	N	N	N	10	150	7	15	N
87WR097E	CHY678	65 53 36	147 15 31	31	2	10	7	3	N	>1	N	N	N	N	2000	N	N	N	50	150	30	30	N
87WR098	CHY679	65 53 32	147 18 50	21	>20	0.1	0.7	N	N	0.003	N	N	N	N	100	N	N	N	N	<10	N	N	N
87WR099	CHY680	65 53 37	147 19 05	21	0.1	7	0.2	N	N	0.1	N	N	N	20	3000	1	N	N	10	100	500	10	N
87WR100	CHY681	65 54 29	147 24 36	34	>20	0.5	1	1.5	N	0.05	N	N	N	10	100	N	N	N	N	<10	5	<5	N
87WR101A	CHY682	65 52 47	147 26 08	21	0.3	7	5	3	N	1	N	N	N	100	1500	N	N	N	30	100	50	30	N
87WR101B	CHY683	65 52 47	147 26 08	28	>20	0.15	0.7	N	N	0.005	N	N	N	N	20	N	N	N	N	<10	<5	N	N
87WR102	CHY684	65 52 27	147 26 28	21	0.5	0.7	0.2	<0.2	N	0.3	N	N	N	50	50	<1	N	N	<10	50	5	10	N
87WR103	CHY686	65 52 58	147 26 08	31	10	7	5	2	N	0.5	N	N	N	N	2000	N	N	N	70	500	70	20	N
87WR103A	CHY685	65 52 58	147 26 08	25	0.5	1	0.2	<0.2	N	0.5	N	N	N	30	200	N	N	N	<10	70	5	10	N
87WR104	CHY687	65 51 43	147 32 10	21	>20	0.7	0.5	N	N	0.1	N	N	N	<10	50	N	N	N	N	<10	<5	<5	N
87WR105	CHY688	65 51 38	147 32 13	25	7	5	1.5	N	N	0.2	N	N	N	<10	20	N	N	N	<10	15	5	10	N
87WR106	CHY689	65 51 35	147 32 11	26	>20	0.5	1	1	N	0.015	N	N	N	N	50	N	N	N	N	<10	<5	<5	N
87WR107D	CHY570	65 47 40	149 26 56	31	1	7	3	2	N	0.5	N	N	N	<10	500	N	N	N	30	200	20	20	N
87WR107X	CHY571	65 47 40	149 26 56	31	2	7	5	3	N	0.5	N	N	N	<10	200	N	N	N	30	150	30	30	N
87WR108A	CHY572	65 54 18	147 13 15	21	20	0.1	0.5	N	N	0.005	N	N	N	N	50	N	N	N	N	N	<5	N	N
87WR109A	CHY573	65 54 30	147 13 38	21	7	5	5	N	N	0.07	N	N	N	10	300	N	N	N	10	20	15	10	N
87WR109B	CHY574	65 54 30	147 13 38	31	5	5	7	2	N	0.5	N	N	N	<10	5000	N	N	N	30	500	20	20	N
87WR112	CHY575	65 52 16	147 32 39	31	2	7	7	3	N	0.5	N	N	N	N	500	N	N	N	20	500	30	30	N
87WR113	CHY576	65 54 40	147 37 35	17	<0.05	1	0.1	N	<0.2	0.2	N	N	N	50	500	<1	N	N	N	50	<5	15	N
87WR114	CHY577	65 54 22	147 36 13	17	<0.05	0.7	0.05	N	N	0.1	N	N	N	10	500	N	N	N	N	10	<5	<5	N
87WR115	CHY578	65 54 37	147 40 30	25	<0.05	10	0.05	N	N	0.2	N	N	N	<10	1000	N	N	N	20	150	300	10	N
87WR116	CHY579	65 53 42	147 43 16	25	<0.05	2	1	1	<0.2	0.5	N	N	N	100	1500	<1	N	N	<10	50	15	15	N
87WR117A	CHY580	65 53 47	147 43 40	21	20	0.2	0.1	N	N	0.005	N	N	N	N	200	N	N	N	N	N	N	<5	N
87WR117C	CHY581	65 54 00	147 44 17	17	0.2	0.7	0.15	1	N	0.15	N	N	N	30	700	<1	N	N	<10	20	<5	10	N
87WR117D	CHY582	65 54 06	147 44 10	17	2	2	5	1.5	N	0.2	N	N	N	50	5000	1	N	N	15	150	20	20	N
87WR118	CHY583	65 53 54	147 45 25	17	<0.05	1	0.1	N	N	0.15	N	N	N	20	100	N	N	N	N	10	<5	10	N
87WR119	CHY584	65 45 32	148 16 52	31	3	7	7	5	N	>1	N	N	N	N	1000	<1	N	N	30	700	10	30	N
87WR120A	CHY585	65 47 13	147 49 43	21	15	0.1	5	<0.2	N	0.002	N	N	N	N	20	N	N	N	N	N	N	N	N
87WR120B	CHY586	65 47 13	147 49 43	31	3	5	10	2	N	0.5	N	N	N	N	300	N	N	N	30	500	50	20	N
87WR121	CHY587	65 48 32	147 38 10	31	2	7	7	5	0.2	>1	N	N	N	N	1500	N	N	N	50	200	10	30	N
87WR123	CHY588	65 25 56	149 35 11	28	<0.05	7	2	2	N	0.5	N	N	N	200	300	<1	N	N	<10	100	50	30	N
87WR124	CHY589	65 26 31	149 05 20	25	0.05	0.7	0.2	<0.2	N	0.1	N	N	N	10	200	N	N	N	N	15	5	<5	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87WR097C	N	70	N	N	N	<10	N	N	N	N	N	N	N	N	N	N	--	N	N	0.4	N	65
87WR097D	<50	2000	N	N	30	<10	N	10	N	300	N	70	N	10	500	50	--	N	N	0.3	N	95
87WR097E	<50	1500	N	<20	50	50	N	20	N	300	N	200	N	20	200	100	--	N	N	0.2	N	170
87WR098	N	70	N	N	N	10	N	N	N	200	N	<10	N	<10	N	<10	--	N	N	0.4	N	55
87WR099	N	500	N	N	100	300	N	5	N	<100	N	150	N	15	5000	70	--	N	N	<0.1	N	85
87WR100	N	1500	N	N	<5	<10	N	N	N	1500	N	10	N	20	<200	20	--	N	N	2.5	<2	1600
87WR101A	50	1500	N	N	50	15	N	15	N	N	N	200	N	20	N	150	--	N	N	N	N	80
87WR101B	N	200	N	N	N	N	N	N	N	1500	N	<10	N	N	<200	<10	--	N	N	0.1	N	90
87WR102	<50	500	N	N	<5	<10	N	<5	N	N	N	50	N	10	<200	200	--	N	N	N	N	20
87WR103	N	1000	N	<20	200	<10	N	15	N	500	N	200	N	15	N	100	--	N	N	0.1	N	90
87WR103A	<50	1000	N	N	5	<10	N	<5	N	N	N	70	N	10	<200	200	--	N	N	N	N	40
87WR104	N	500	N	N	<5	15	N	N	N	1000	N	10	N	15	N	50	--	N	N	N	N	10
87WR105	N	1000	N	N	10	10	N	<5	N	200	N	20	N	<10	N	200	--	N	N	0.1	N	50
87WR106	N	70	N	N	<5	10	N	N	N	2000	N	10	N	<10	N	10	--	N	N	N	N	25
87WR107D	N	700	N	N	50	<10	N	15	N	100	N	150	N	15	<200	70	--	N	N	N	N	75
87WR107X	N	1000	N	N	30	N	N	20	N	200	N	150	N	20	200	100	--	N	N	0.1	N	85
87WR108A	N	50	N	N	N	<10	N	N	N	1000	N	10	N	N	N	N	--	N	N	0.2	N	35
87WR109A	N	1000	N	N	20	<10	N	7	N	200	N	100	N	15	<200	20	--	10	N	0.2	N	30
87WR109B	N	1000	N	N	50	N	N	20	N	500	N	150	N	15	<200	50	--	N	N	N	N	55
87WR112	<50	500	N	<20	50	<10	N	15	N	300	N	100	N	10	<200	100	--	N	N	N	N	70
87WR113	N	200	N	N	<5	<10	N	N	N	<100	N	50	N	10	<200	150	--	N	N	N	N	20
87WR114	N	50	N	N	<5	<10	N	N	N	N	N	10	N	N	<200	100	--	N	N	N	N	10
87WR115	N	100	N	N	150	100	N	15	N	150	N	200	N	30	700	70	--	10	N	0.4	N	850
87WR116	<50	100	N	N	5	10	N	5	N	N	N	50	N	10	<200	200	--	N	N	N	N	35
87WR117A	N	200	N	N	N	<10	N	N	N	<100	N	N	N	N	N	<10	--	N	N	0.4	N	45
87WR117C	<50	200	N	N	<5	<10	N	N	N	N	N	20	N	N	<200	150	--	N	N	N	N	15
87WR117D	<50	3000	N	N	30	10	N	7	N	<100	N	100	N	10	<200	100	--	N	N	N	N	50
87WR118	N	1000	N	N	<5	<10	N	N	N	N	N	15	N	N	<200	150	--	N	N	N	N	35
87WR119	<50	1500	20	<20	100	300	N	20	N	1000	N	200	N	15	300	70	--	N	N	1.6	N	350
87WR120A	N	20	N	N	N	N	N	N	N	<100	N	<10	N	N	N	N	--	N	N	0.2	N	35
87WR120B	N	1500	N	N	100	N	N	15	N	200	N	150	N	10	<200	10	--	N	N	N	N	75
87WR121	50	1000	N	<20	100	<10	N	15	N	300	N	150	N	20	200	150	--	N	N	N	N	170
87WR123	<50	500	N	N	20	30	N	10	N	N	N	100	N	<10	<200	100	--	N	N	N	N	90
87WR124	N	200	N	N	<5	<10	N	N	N	N	N	15	N	N	<200	100	--	N	N	N	N	20

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87WR125	CHY590	65 27 08	149 51 49	19	<0.05	7	3	2	<0.2	0.2	N	N	N	30	1500	<1	N	N	15	20	70	20	N
87WR126	CHY591	65 27 58	149 49 10	19	0.2	5	1	1.5	<0.2	0.5	N	N	N	50	1500	<1	N	N	N	200	20	10	N
87WR128	CHY592	65 27 20	149 47 30	31	0.3	5	2	3	<0.2	0.2	N	N	N	N	100	N	N	N	<10	10	100	15	N
87WR129	CHY593	65 27 10	149 45 50	34	<0.05	5	2	<0.2	<0.2	1	N	N	N	20	2000	<1	N	N	20	50	20	20	N
87WR130	CHY594	65 54 18	147 44 49	17	2	5	5	1	<0.2	0.3	N	N	N	20	1000	<1	N	N	<10	50	20	20	N
87WR131	CHY595	65 54 31	147 45 20	19	<0.05	0.5	0.15	<0.2	<0.2	0.07	<0.5	N	N	10	5000	<1	N	N	20	100	20	<5	N
87WR131A	CHY596	65 54 31	147 45 20	19	<0.05	7	0.1	N	<0.2	0.07	<0.5	N	N	<10	5000	N	N	N	<10	30	50	<5	N
87WR131B	CHY597	65 54 31	147 45 20	19	<0.05	5	1	0.2	<0.2	0.5	0.5	N	N	200	>5000	N	N	N	N	150	50	20	N
87WR132	CHY598	65 54 40	147 45 15	34	<0.05	0.5	0.1	N	<0.2	0.05	N	N	N	10	700	N	N	N	N	20	5	<5	N
87WR133	CHY599	65 55 27	147 42 09	17	<0.05	5	0.15	N	<0.2	0.3	N	N	N	10	200	<1	N	N	10	15	7	10	N
87WR134	CHY600	65 56 05	147 39 01	21	>20	0.15	0.7	N	N	0.01	N	N	N	N	20	N	N	N	N	<10	<5	<5	N
87WR135	CHY601	65 54 55	147 41 12	17	0.07	2	1	1.5	<0.2	0.3	N	N	N	15	200	N	N	N	10	20	10	15	N
87WR136	CHY602	65 50 15	147 51 30	17	0.07	0.7	0.7	0.7	<0.2	0.3	N	N	N	10	200	N	N	N	<10	20	5	10	N
87WR137A	CHY603	65 47 04	148 00 10	28	<0.05	5	1.5	0.5	<0.2	0.2	N	N	N	20	500	N	N	N	<10	50	30	20	N
87WR137B	CHY604	65 47 04	148 00 10	17	<0.05	0.7	0.2	1	<0.2	0.2	N	N	N	10	100	N	N	N	<10	10	<5	<5	N
87WR138A	CHY605	65 48 32	147 56 10	34	<0.05	0.2	0.5	N	<0.2	0.07	N	N	N	30	1000	<1	N	N	<10	15	5	10	N
87WR138B	CHY606	65 48 32	147 56 10	17	0.05	1	0.7	0.5	<0.2	0.2	N	N	N	20	200	N	N	N	<10	15	<5	10	N
87WR140	CHY607	65 48 07	147 54 43	17	0.05	0.7	0.7	2	<0.2	0.3	N	N	N	20	200	N	N	N	<10	30	7	15	N
87WR141	CHY608	65 51 02	147 50 21	17	0.05	0.7	0.5	1	<0.2	0.2	N	N	N	15	200	N	N	N	<10	15	<5	10	N
87WR142	CHY609	65 50 44	147 35 42	28	<0.05	10	2	2	N	0.7	N	N	N	70	1500	<1	N	N	30	100	30	30	N
87WR143A	CHY530	65 51 08	147 38 51	31	1	7	2	2	0.3	0.7	N	N	N	<10	2000	N	N	N	50	200	5	30	N
87WR143B	CHY531	65 51 08	147 38 51	31	5	3	1.5	3	0.2	0.5	N	N	N	<10	1000	N	N	N	30	50	10	30	N
87WR144	CHY532	65 51 16	147 40 42	21	20	0.15	10	<0.2	N	0.005	N	N	N	N	20	N	N	N	N	N	N	N	N
87WR145	CHY533	65 48 02	147 40 56	21	10	N	1.5	N	N	<0.002	N	N	N	N	20	N	N	N	N	N	N	N	N
87WR146	CHY534	65 35 22	147 31 26	21	>20	<0.05	0.5	N	N	<0.002	N	N	N	N	20	N	N	N	N	N	<5	N	N
87WR147A	CHY535	65 35 35	147 31 26	25	0.1	7	0.05	N	N	0.15	N	N	N	<10	50	N	N	N	N	50	150	15	N
87WR148	CHY536	65 31 33	147 39 06	21	20	5	7	<0.2	N	0.03	N	N	N	<10	1000	N	N	N	N	50	10	10	N
87WR149	CHY537	65 31 56	147 39 18	11	0.1	5	2	3	<0.2	0.5	N	N	N	50	1000	N	N	N	N	150	20	30	N
87WR150	CHY538	65 46 10	147 19 21	31	2	7	5	3	N	1	N	N	N	<10	300	N	N	N	50	500	50	30	N
87WR151	CHY539	65 45 42	147 18 21	34	<0.05	0.3	0.2	N	<0.2	0.05	N	N	N	20	200	N	N	N	N	10	10	<5	N
87WR152	CHY540	65 53 38	147 53 48	28	<0.05	7	0.3	<0.2	N	0.15	N	N	N	70	3000	<1	N	N	20	70	100	20	N
87WR153	CHY541	65 41 21	147 38 50	34	<0.05	1	0.3	N	<0.2	0.1	N	N	N	20	500	N	N	N	N	30	50	10	N
87WR154	CHY542	65 43 58	147 31 05	16	1	1	1	N	<0.2	0.07	N	N	N	20	200	<1	N	N	N	30	15	10	N
87WR155	CHY543	65 45 42	147 20 00	16	5	1	5	<0.2	0.2	0.07	N	N	N	10	200	N	N	N	<10	30	20	10	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87WR125	N	1000	N	N	20	<10	N	5	N	N	N	100	N	<10	200	100	--	N	N	N	N	170
87WR126	<50	100	N	N	10	20	N	5	N	<100	N	150	N	20	<200	200	--	N	N	N	N	75
87WR128	N	1000	N	N	<5	20	N	7	N	N	N	100	N	<10	300	50	--	N	N	0.9	N	300
87WR129	<50	200	N	N	50	30	N	10	N	N	N	70	N	15	<200	100	--	N	N	N	N	60
87WR130	<50	1000	N	N	30	20	N	7	N	N	N	70	N	10	<200	100	--	N	N	N	N	65
87WR131	N	20	N	N	5	10	N	N	N	N	N	150	N	N	<200	<10	--	N	N	0.1	N	55
87WR131A	N	20	5	N	30	20	N	N	N	N	N	150	N	N	1000	10	--	N	N	N	N	650
87WR131B	<50	10	20	N	5	50	N	15	N	N	N	2000	N	20	N	100	--	20	N	N	16	15
87WR132	N	30	N	N	5	N	N	N	N	N	N	70	N	N	N	<10	--	N	N	N	N	80
87WR133	<50	30	N	N	10	<10	N	N	N	N	N	20	N	<10	<200	200	--	N	N	N	N	60
87WR134	N	30	N	N	N	N	N	N	N	1000	N	<10	N	N	N	<10	--	N	N	N	N	15
87WR135	<50	30	N	N	10	<10	N	<5	N	N	N	30	N	<10	<200	150	--	N	N	N	N	45
87WR136	<50	300	N	N	5	<10	N	<5	N	N	N	20	N	<10	<200	150	--	N	N	N	N	20
87WR137A	<50	100	N	N	15	<10	N	7	N	N	N	50	N	10	N	<10	--	N	N	N	N	135
87WR137B	N	500	N	N	<5	<10	N	N	N	N	N	15	N	N	N	150	--	N	N	N	N	30
87WR138A	N	100	N	N	5	N	N	N	N	N	N	15	N	N	<200	<10	--	N	N	N	N	20
87WR138B	N	500	N	N	5	<10	N	N	N	N	N	15	N	N	<200	200	--	N	N	N	N	20
87WR140	<50	50	N	N	7	<10	N	<5	N	N	N	30	N	<10	<200	200	--	N	N	N	N	25
87WR141	<50	100	N	N	5	<10	N	N	N	N	N	20	N	N	<200	200	--	N	N	N	N	35
87WR142	<50	1500	N	N	50	<10	N	15	N	<100	N	150	N	20	<200	100	--	N	N	N	N	110
87WR143A	<50	700	N	20	100	N	N	10	N	200	N	150	N	15	<200	100	--	N	N	N	N	90
87WR143B	<50	1000	N	N	50	<10	N	10	N	500	N	70	N	20	<200	50	--	N	N	N	N	110
87WR144	N	70	N	N	<5	<10	N	N	N	<100	N	<10	N	N	N	N	--	N	N	N	N	35
87WR145	N	<10	N	N	N	N	N	N	N	<100	N	N	N	N	N	N	--	N	N	N	N	30
87WR146	N	10	N	N	N	N	N	N	N	300	N	N	N	N	N	N	--	N	N	0.6	N	20
87WR147A	<50	100	N	N	<5	20	N	N	N	N	N	50	N	<10	<200	150	--	30	N	0.1	4	50
87WR148	N	5000	N	N	20	10	N	5	N	200	N	100	N	30	<200	20	--	N	N	0.6	N	45
87WR149	N	700	N	N	30	50	N	15	N	N	N	200	N	10	<200	100	--	20	N	N	N	45
87WR150	N	1000	N	N	70	N	N	20	N	300	N	150	N	15	200	50	--	N	N	N	N	75
87WR151	N	10	N	N	<5	N	N	N	N	N	N	15	N	N	<200	<10	--	10	N	N	8	5
87WR152	N	1000	N	N	70	20	N	10	N	N	N	100	N	10	300	70	--	N	N	0.2	N	250
87WR153	N	50	N	N	20	10	N	N	N	N	N	200	N	N	<200	20	--	10	N	N	4	95
87WR154	N	700	N	N	20	N	N	N	N	N	N	70	N	N	<200	20	--	N	N	0.5	N	60
87WR155	N	700	N	N	10	N	N	<5	N	N	N	150	N	N	<200	10	--	N	N	0.2	N	35

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
87WR156A	CHY544	65 46 36	147 18 08	18	0.05	7	5	1	N	0.5	N	N	N	10	2000	<1	N	N	20	200	50	30	N
87WR156B	CHY545	65 46 36	147 18 08	31	1.5	5	7	3	N	0.7	N	N	N	<10	1500	N	N	N	30	1000	50	30	N
87WR157A	CHY546	65 46 48	147 15 47	21	>20	0.15	0.15	N	N	0.002	N	N	N	N	300	N	N	N	N	N	<5	N	N
87WR157B	CHY547	65 46 48	147 15 47	34	0.2	0.1	0.05	N	<0.2	0.02	N	N	N	15	500	N	N	N	N	20	7	N	N
87WR160A	CHY549	65 32 56	147 28 32	31	2	7	5	3	0.2	>1	N	N	N	<10	>5000	<1	N	N	30	N	15	30	N
87WR160B	CHY550	65 32 56	147 28 32	28	0.1	5	1.5	3	<0.2	0.5	<0.5	N	N	10	1000	N	N	N	15	200	20	30	N
87WR161A	CHY551	65 31 00	147 27 58	28	0.05	5	1	2	<0.2	0.2	N	N	N	100	1500	<1	N	N	20	100	20	30	N
87WR161B	CHY552	65 31 00	147 27 58	18	<0.05	1	0.1	2	0.2	0.1	N	N	N	30	200	<1	N	N	N	20	30	15	N
87WR162	CHY553	65 30 22	147 28 00	25	<0.05	0.7	0.1	1	0.2	0.1	N	N	N	30	1000	1	N	N	N	10	<5	10	N
87WR163	CHY554	65 27 10	147 35 52	25	0.1	5	1	1.5	N	0.3	N	N	N	50	5000	1	N	N	15	50	<5	30	N
87WR164	CHY555	65 26 10	147 31 48	25	<0.05	1	0.2	1.5	<0.2	0.1	N	N	N	20	200	N	N	N	N	20	5	15	N
87WR165	CHY556	65 25 40	147 34 09	25	<0.05	2	0.5	1.5	N	0.15	N	N	N	20	300	<1	N	N	10	30	10	15	N
87WR166A	CHY557	65 24 58	147 35 50	28	<0.05	2	1.5	1.5	N	0.3	N	N	N	100	2000	2	N	N	<10	150	30	30	N
87WR166B	CHY558	65 24 58	147 35 50	25	<0.05	2	0.5	1.5	N	0.1	N	N	N	10	200	N	N	N	<10	20	7	10	N
87WR167	CHY559	65 22 26	147 35 00	25	0.05	5	1.5	2	N	0.2	N	N	N	100	2000	1	N	N	20	100	30	30	N
87WR175	CHY567	65 42 02	147 00 10	31	5	7	7	3	N	1	N	N	N	N	500	N	N	N	30	100	20	20	N
87WR177	CHY569	65 42 18	147 00 20	16	<0.05	0.5	0.03	N	<0.2	0.03	N	N	N	15	1000	N	N	N	N	20	5	<5	N
87WR178A	D-320168	65 00 39	147 38 10	13	0.7	0.7	1	0.5	1	0.3	0.7	N	N	30	3000	1	N	50	N	150	50	5	N
87WR179A	D-320169	65 02 47	147 27 57	13	0.07	0.3	0.15	N	N	0.3	N	N	N	30	150	1	N	N	N	100	20	15	N
87WR179B	D-320170	65 02 47	147 27 57	13	3	7	3	1.5	N	0.5	N	N	N	N	200	<1	N	N	50	500	<5	15	N
87WR180A	D-320171	65 02 53	147 26 08	13	0.05	2	1	0.2	N	1	200	10000	N	300	300	2	N	N	<10	150	50	30	N
87WR180B	D-320172	65 02 53	147 26 08	13	0.1	7	0.5	0.5	N	0.2	200	>10000	10	2000	100	1	N	300	N	50	1000	20	N
87WR181	D-320173	65 02 57	147 20 05	13	0.07	0.7	0.2	N	N	0.3	1	<200	N	20	300	<1	N	N	N	20	7	5	N
87WR182	D-320174	65 03 02	147 27 12	13	3	7	3	2	N	0.7	N	N	N	N	500	<1	N	N	50	500	5	20	N
88KW011	F-003379	65 26 08	148 03 34	13	<0.05	2	0.7	1	N	0.2	N	N	N	20	150	<1	N	N	<10	30	10	10	N
88KW012	F-003380	65 26 25	148 03 48	13	1.5	2	0.5	0.7	N	0.2	N	N	N	15	200	<1	N	N	<10	30	10	7	N
88KW013	F-003381	65 27 35	148 03 25	13	<0.05	1.5	0.3	0.7	N	0.3	N	N	N	30	700	1	N	N	<10	50	10	10	N
88KW015	F-003382	65 15 22	147 59 23	13	<0.05	2	0.7	1.5	N	0.3	N	N	N	20	1500	1.5	N	N	10	100	20	20	N
88KW016A	F-003383	65 02 52	147 26 06	14	1.5	3	0.5	2	<0.2	0.15	N	N	N	10	2000	3	N	N	<10	<10	20	30	N
88KW016B	F-003384	65 02 53	147 26 10	13	0.3	3	1	2	<0.2	0.5	N	N	N	50	700	2	N	N	10	150	20	50	N
88KW016C	F-003385	65 02 58	147 26 20	14	<0.05	2	0.7	N	N	1	200	5000	N	200	200	<1	<10	N	N	150	50	20	N
88KW016D	F-003386	65 03 00	147 26 20	13	2	5	1.5	0.7	N	1	1.5	N	N	<10	200	<1	N	N	50	200	30	20	N
88KW016E	F-003387	65 03 02	147 26 29	13	7	5	1	1	N	0.3	N	N	N	<10	150	1.5	N	N	30	100	30	20	N
88KW016F	F-003388	65 03 04	147 27 15	13	7	5	3	2	N	0.7	N	N	N	<10	500	N	N	N	70	700	5	30	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
87WR156A	<50	500	N	N	100	10	N	15	N	N	N	300	N	20	<200	100	--	N	N	0.3	N	150
87WR156B	<50	1000	N	N	70	<10	N	15	N	N	N	100	N	15	<200	30	--	N	N	0.3	N	60
87WR157A	N	1000	N	N	N	<10	N	N	N	200	N	10	N	N	N	N	--	N	N	0.7	2	20
87WR157B	N	30	N	N	5	<10	N	N	N	N	N	500	N	N	<200	<10	--	10	N	N	4	5
87WR160A	100	1000	N	20	<5	10	N	10	N	500	N	100	N	30	200	150	--	N	N	0.2	N	135
87WR160B	50	300	N	<20	50	<10	N	15	N	N	N	700	N	30	300	200	--	N	N	0.2	N	250
87WR161A	70	200	N	N	50	30	N	15	N	N	N	70	N	30	<200	100	--	N	N	0.1	N	80
87WR161B	N	300	N	N	5	10	N	<5	N	N	N	50	N	10	N	150	--	N	N	N	N	30
87WR162	<50	50	N	N	<5	30	N	N	N	N	N	20	N	10	<200	150	--	N	N	N	N	10
87WR163	50	300	N	<20	15	15	N	15	N	N	N	70	N	30	<200	150	--	N	N	N	N	65
87WR164	N	200	N	N	<5	10	N	N	N	N	N	15	N	<10	<200	200	--	N	N	N	N	25
87WR165	N	300	N	N	10	10	N	<5	N	N	N	20	N	<10	<200	100	--	N	N	N	N	55
87WR166A	50	200	N	N	20	30	N	15	N	N	N	70	N	20	<200	100	--	10	N	N	N	115
87WR166B	N	300	N	N	10	20	N	N	N	N	N	15	N	<10	<200	100	--	N	N	N	N	40
87WR167	<50	200	N	N	30	20	N	10	N	N	N	100	N	15	<200	100	--	N	N	N	N	80
87WR175	N	1500	N	N	10	10	N	20	N	200	N	150	N	20	200	100	--	N	N	2.3	N	200
87WR177	N	70	N	N	5	<10	N	N	N	N	N	50	N	N	<200	10	--	N	N	N	N	N
87WR178A	<50	150	70	20	30	20	N	15	N	200	N	10000	N	30	300	100	N	20	N	32	2	340
87WR179A	<50	20	N	<20	<5	20	N	5	N	N	N	150	N	20	N	150	--	10	N	0.1	10	N
87WR179B	N	1000	N	<20	100	15	N	15	N	500	N	150	N	20	<200	70	--	N	N	0.1	2	35
87WR180A	<50	50	N	20	5	>20000	1500	20	1000	N	N	300	N	30	300	150	0.2	>2000	2	1	550	200
87WR180B	<50	50	N	N	<5	>20000	>10000	10	1000	N	N	100	N	15	70	50	6.7	>2000	1	>100	>1000	35
87WR181	<50	50	N	N	<5	500	200	<5	N	N	N	50	20	20	N	700	N	80	N	0.4	70	10
87WR182	N	1000	N	<20	100	200	N	20	N	300	N	150	N	20	N	70	--	50	N	0.1	18	50
88KW011	<50	200	N	N	15	10	N	5	N	N	N	70	N	10	N	300	--	N	N	N	N	10
88KW012	<50	1000	N	N	15	30	N	7	N	<100	N	50	N	10	N	200	--	N	N	0.1	N	20
88KW013	<50	50	N	<20	10	15	N	7	N	N	N	70	N	<10	N	200	--	N	N	N	N	10
88KW015	<50	100	N	N	20	30	N	7	N	N	N	70	N	<10	N	300	--	5	N	N	N	20
88KW016A	50	500	N	<20	<5	30	N	7	N	500	N	20	N	10	N	150	--	N	N	N	N	40
88KW016B	<50	300	N	<20	20	30	N	10	N	100	N	70	N	20	<200	200	--	N	N	N	N	45
88KW016C	<50	15	N	<20	<5	15000	700	20	>1000	N	N	200	20	20	<200	300	0.2	>2000	4	0.8	370	150
88KW016D	<50	700	N	N	50	100	N	20	N	N	N	300	<20	20	700	150	N	60	N	1.8	4	540
88KW016E	<50	1500	N	<20	20	30	N	7	N	500	N	100	N	20	N	200	--	N	N	N	N	10
88KW016F	N	1000	N	N	150	30	N	20	N	300	N	100	N	20	<200	50	--	20	N	N	N	10

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
88KW017	F-003389	65 03 48	147 27 39	35	0.05	20	0.07	N	N	0.03	500	7000	N	N	<20	<1	N	300	N	10	300	20	N
88KW018	F-003409	65 04 28	149 29 12	13	15	7	7	2	<0.2	0.5	N	N	N	<10	2000	<1	N	N	50	200	20	20	N
88KW022A	F-003390	65 22 30	149 34 22	14	1.5	7	1.5	3	0.2	0.7	7	N	N	30	2000	2	N	N	30	50	30	50	N
88KW022B	F-003391	65 22 32	149 34 25	14	1.5	5	1	2	0.2	0.5	3	N	N	70	1500	3	N	N	20	50	30	30	N
88KW022C	F-003392	65 22 33	149 34 28	14	1.5	7	1	3	0.2	0.7	0.7	N	N	70	2000	3	N	N	30	50	30	50	N
88KW022D	F-003393	65 22 00	149 34 32	14	1	7	2	3	N	0.7	N	N	N	50	2000	2	N	N	30	200	70	50	N
88KW022E	F-003394	65 22 44	149 34 32	14	0.5	5	1.5	0.7	<0.2	0.3	N	N	N	50	200	3	N	N	20	200	30	20	N
88KW022F	F-003396	65 22 45	149 34 32	14	2	5	1.5	0.7	N	0.5	N	N	N	20	300	2	N	N	20	200	30	20	N
88KW022G	F-003397	65 22 46	149 34 32	13	0.2	5	1.5	1	<0.2	0.5	N	N	N	70	700	2	N	N	20	200	30	30	N
88KW022H	F-003398	65 22 48	149 34 32	13	0.07	7	1.5	0.7	<0.2	0.5	N	N	N	50	700	1.5	N	N	30	200	70	30	N
88KW022I	F-003399	65 23 00	149 34 38	13	0.05	3	0.7	1	<0.2	0.3	N	N	N	70	700	2	N	N	10	150	50	30	N
88KW022J	F-003400	65 23 06	149 34 35	13	0.1	5	1	0.7	N	0.7	N	N	N	70	700	1.5	N	N	20	200	30	30	N
88KW022K	F-003395	65 22 44	149 34 32	14	1.5	7	1.5	1.5	<0.2	0.7	N	N	N	50	700	3	N	N	30	200	50	30	N
88KW023A	F-003401	65 21 23	149 56 15	14	2	5	1.5	2	<0.2	0.5	N	N	N	<10	2000	2	N	N	15	150	15	30	N
88KW023B	F-003402	65 21 44	149 56 20	13	0.15	5	1.5	0.5	<0.2	0.7	N	<200	N	150	1500	1.5	N	N	15	200	50	50	N
88KW023C	F-003404	65 21 45	149 56 20	13	0.1	0.7	0.05	N	N	0.1	N	N	N	N	100	<1	N	N	N	20	30	N	N
88KW023D	F-003405	65 21 46	149 56 20	14	<0.05	0.15	<0.02	N	N	0.015	N	500	N	<10	50	<1	N	N	N	<10	7	N	N
88KW023E	F-003407	65 21 25	149 56 15	14	0.3	7	0.7	N	<0.2	0.5	N	N	N	200	1500	3	N	N	30	200	50	30	N
88KW023F	F-003403	65 21 44	149 56 20	13	0.15	0.7	0.2	0.7	N	0.15	N	300	N	<10	150	2	N	N	<10	30	50	<5	N
88KW023G	F-003406	65 21 46	149 56 20	13	1	7	2	2	<0.2	0.5	N	N	N	150	1000	1	N	N	20	200	30	30	N
88KW028	F-003408	65 10 43	147 58 44	13	10	7	0.3	N	N	0.5	N	N	N	<10	50	<1	N	N	20	150	70	20	N
88KW031A	F-003410	65 25 44	149 39 10	13	0.5	3	1.5	0.5	N	0.15	1.5	3000	N	50	500	<1	N	N	20	150	100	7	N
88KW031B	F-003463	65 25 45	149 29 05	14	0.15	2	0.7	2	<0.2	0.5	<0.5	700	N	30	200	3	N	N	N	10	50	30	N
88KW033	F-003411	65 23 45	149 38 09	13	0.15	7	1.5	0.7	<0.2	0.3	N	N	N	70	300	<1	N	N	30	150	50	20	N
88KW034	F-003412	65 16 24	149 45 21	13	0.05	1	0.07	N	N	0.03	N	N	N	10	150	<1	N	N	N	15	5	N	N
88KW035B	F-003413	65 16 57	149 49 27	13	<0.05	0.15	<0.02	N	N	0.015	N	N	N	N	70	<1	N	N	N	<10	<5	N	N
88KW036	F-003414	65 16 44	149 48 50	13	<0.05	0.5	0.03	N	N	0.07	N	N	N	10	100	<1	N	N	N	10	10	N	N
88KW037A	F-003415	65 16 37	149 48 25	13	<0.05	0.2	0.03	N	N	0.07	N	N	N	10	100	<1	N	N	N	20	5	N	N
88KW037B	F-003416	65 16 37	149 48 25	14	<0.05	3	0.5	N	<0.2	0.3	1	N	N	50	1000	1	N	N	20	200	30	15	N
88KW038	F-003419	65 16 38	149 48 05	13	<0.05	0.3	0.05	N	N	0.1	N	N	N	15	500	<1	N	N	N	20	<5	N	N
88KW039A	F-003576	65 31 04	148 29 14	13	<0.05	0.2	0.1	N	<0.2	0.1	N	N	N	30	100	N	N	N	N	20	5	<5	N
88KW039C	F-003577	65 16 08	149 46 55	13	<0.05	0.7	0.02	N	<0.2	0.1	N	N	N	20	50	N	N	N	N	15	<5	<5	N
88KW040A	F-003417	65 16 25	149 45 10	13	0.05	3	1	2	<0.2	0.2	N	N	N	30	700	<1	N	N	10	200	30	20	N
88KW040B	F-003418	65 16 25	149 45 10	13	<0.05	1.5	0.05	N	<0.2	0.07	N	N	N	15	100	<1	N	N	N	20	7	N	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
88KW017	<50	30	N	N	<5	>20000	>10000	N	200	N	N	<10	N	N	1500	N	N	>2000	N	>100	>1000	120
88KW018	<50	700	N	<20	100	20	N	15	N	500	N	150	N	10	200	70	--	N	N	N	N	15
88KW022A	70	700	5	20	20	3000	1500	15	N	1000	N	100	N	30	<200	300	N	20	N	0.5	100	85
88KW022B	50	700	5	<20	15	700	200	10	N	700	N	100	N	20	<200	200	N	40	N	N	10	60
88KW022C	50	1000	7	20	30	200	N	15	N	1000	N	150	N	20	N	150	N	20	N	N	4	60
88KW022D	50	500	<5	20	70	700	N	20	N	1000	N	200	N	30	<200	300	N	80	N	N	4	65
88KW022E	<50	300	N	<20	70	50	N	7	N	200	N	100	N	15	N	100	--	20	N	0.3	2	30
88KW022F	<50	500	N	20	150	15	N	15	N	300	N	150	N	20	<200	150	0.9	90	N	0.1	N	40
88KW022G	<50	200	N	20	100	70	N	15	N	200	N	150	N	30	<200	200	N	50	N	0.1	18	30
88KW022H	<50	200	<5	<20	100	20	N	15	N	<100	N	150	N	30	<200	300	--	10	N	N	2	50
88KW022I	<50	150	N	<20	50	30	N	15	N	<100	N	150	N	20	<200	150	--	10	N	0.1	N	95
88KW022J	<50	500	N	<20	70	30	N	15	N	N	N	200	N	20	<200	150	N	30	N	0.1	N	90
88KW022K	<50	700	5	20	100	30	N	20	N	500	N	150	N	20	<200	200	--	10	N	N	N	40
88KW023A	50	1000	N	<20	20	50	N	15	N	500	N	150	N	30	N	150	--	N	N	N	N	40
88KW023B	50	300	N	20	50	30	N	20	N	N	N	200	N	30	<200	150	N	350	N	0.2	2	100
88KW023C	N	30	N	N	<5	15	N	N	N	N	N	50	N	<10	N	150	N	100	N	0.3	6	90
88KW023D	N	30	N	N	<5	10	N	N	N	N	N	10	N	N	N	10	N	240	N	N	6	10
88KW023E	50	700	5	20	50	30	N	20	N	200	N	100	<20	30	<200	150	N	90	N	0.4	36	100
88KW023F	<50	150	N	<20	N	20	N	<5	N	N	N	70	N	20	N	1000	N	200	N	N	4	10
88KW023G	<50	700	<5	<20	70	30	N	20	N	200	N	200	N	30	<200	200	N	50	N	0.1	2	110
88KW028	<50	1000	N	<20	30	20	N	15	N	N	N	150	N	20	N	100	--	N	N	N	N	45
88KW031A	N	150	N	N	30	10	N	7	N	<100	N	70	N	<10	N	70	N	>2000	2	N	4	20
88KW031B	<50	70	<5	30	<5	50	N	5	30	300	N	70	N	20	N	300	N	980	2	N	2	15
88KW033	<50	150	N	<20	70	30	N	10	N	N	N	100	N	30	200	100	N	N	N	0.1	N	110
88KW034	N	30	N	N	<5	<10	N	N	N	N	N	50	N	<10	N	100	--	20	N	N	N	15
88KW035B	N	<10	N	N	<5	10	N	N	N	N	N	15	N	N	N	15	--	N	N	N	N	5
88KW036	N	15	N	N	<5	50	N	N	N	<100	N	30	N	<10	N	100	--	10	N	N	N	25
88KW037A	N	100	N	N	<5	10	N	N	N	N	N	30	N	N	N	70	--	20	N	N	2	5
88KW037B	<50	300	N	<20	50	50	N	10	N	300	N	100	N	20	<200	100	N	70	N	0.1	28	100
88KW038	<50	20	N	N	N	20	N	N	N	300	N	50	N	<10	N	300	--	30	N	N	2	N
88KW039A	N	20	N	N	10	<10	N	N	N	N	N	20	N	N	N	150	--	70	N	N	4	10
88KW039C	N	20	N	N	7	15	N	N	N	N	N	30	N	N	300	150	--	30	N	0.8	N	320
88KW040A	<50	200	N	N	70	15	N	7	N	N	N	100	N	10	N	70	--	N	N	N	N	40
88KW040B	N	15	N	N	<5	<10	N	N	N	300	N	30	N	N	N	70	N	60	N	N	N	5

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
88KW041D	F-003420	65 16 25	149 45 05	13	0.1	1	0.3	0.3	N	0.1	N	N	N	15	300	<1	N	N	N	50	10	<5	N
88KW042	F-003421	65 16 23	149 44 54	13	0.1	1	0.15	N	N	0.1	N	N	N	10	300	<1	N	N	N	30	7	N	N
88KW043	F-003422	65 17 01	149 46 02	13	<0.05	1.5	0.07	N	N	0.07	N	N	N	15	100	<1	N	N	N	15	7	N	N
88KW044	F-003423	65 17 06	149 46 09	13	<0.05	3	0.07	N	N	0.1	N	N	N	15	150	<1	N	N	N	15	10	<5	N
88KW045	F-003424	65 17 08	149 46 06	13	<0.05	3	0.1	0.3	N	0.2	N	N	N	30	150	<1	N	N	N	50	20	5	N
88KW046	F-003425	65 17 07	149 46 00	13	<0.05	1.5	0.05	N	N	0.1	N	N	N	15	300	<1	N	N	N	20	5	<5	N
88KW048	F-003426	65 17 21	149 45 42	13	0.05	1	0.07	0.2	N	0.1	N	N	N	10	100	<1	N	N	N	15	7	N	N
88KW049A	F-003427	65 17 19	149 45 38	13	0.07	5	1.5	1.5	N	0.5	N	N	N	50	700	<1	N	N	20	500	30	10	N
88KW049B	F-003428	65 17 19	149 45 38	13	<0.05	1.5	0.05	N	N	0.07	N	N	N	20	700	<1	N	N	N	30	5	N	N
88KW049C	F-003431	65 17 19	149 45 38	12	<0.05	1.5	0.3	N	N	0.07	N	N	N	20	200	<1	N	N	N	50	7	N	N
88KW049D	F-003429	65 17 19	149 45 38	13	<0.05	3	0.15	N	N	0.15	N	N	N	20	300	1	N	N	N	70	15	5	N
88KW049E	F-003430	65 17 19	149 45 38	13	<0.05	5	0.05	N	<0.2	0.07	N	N	N	<10	1000	<1	N	N	<10	30	15	<5	N
88KW050	F-003432	65 17 18	149 45 31	13	0.3	5	2	2	N	0.5	N	N	N	50	1500	1	N	N	20	300	30	20	N
88KW053	F-003433	65 17 14	149 45 18	13	<0.05	2	0.03	N	N	0.07	N	N	N	15	100	<1	N	N	<10	30	7	<5	N
88KW055B	F-003434	65 16 37	149 45 07	12	1	3	1	1.5	N	0.3	N	N	N	30	1000	<1	N	N	10	150	30	15	N
88KW056C	F-003435	65 18 00	149 42 25	12	0.3	3	1	1.5	<0.2	0.2	N	N	N	30	700	<1	N	N	15	200	20	10	N
88KW057	F-003436	65 16 48	149 36 38	12	7	3	1.5	1.5	N	0.2	N	N	N	20	1000	<1	N	N	20	200	30	15	N
88KW058	F-003437	65 16 38	149 33 44	13	0.5	3	1.5	2	N	0.3	N	N	N	50	1000	<1	N	N	20	150	30	15	N
88KW059	F-003438	65 17 41	149 31 20	12	0.1	3	1	1.5	N	0.3	N	N	N	30	1000	<1	N	N	15	200	20	10	N
88KW060A	F-003439	65 18 17	149 35 10	12	0.3	3	2	2	N	0.3	N	N	N	30	1000	1	N	N	15	200	30	15	N
88KW062D	F-003440	65 20 20	149 37 35	12	0.15	3	1	2	N	0.5	N	N	N	30	700	<1	N	N	30	200	30	15	N
88KW064A	F-003441	65 22 56	149 54 04	12	0.07	5	0.07	N	<0.2	0.07	1	300	N	20	300	<1	N	N	20	20	30	10	N
88KW064B	F-003442	65 22 56	149 54 04	12	<0.05	10	0.1	<0.2	0.2	0.1	1	N	N	30	700	<1	N	N	20	70	50	15	N
88KW064C	F-003443	65 22 56	149 54 04	12	<0.05	3	0.15	0.2	<0.2	0.3	N	N	N	70	700	<1	N	N	<10	100	30	15	N
88KW064D	F-003444	65 23 01	149 53 58	13	<0.05	1.5	0.03	N	N	0.15	N	N	N	15	300	N	N	N	N	20	7	N	N
88KW064E	F-003445	65 23 04	149 53 49	13	0.1	7	0.5	2	<0.2	0.3	N	N	N	100	1000	1.5	N	N	N	100	70	30	N
88KW064F	F-003446	65 22 56	149 54 04	13	<0.05	5	0.07	N	N	0.15	N	N	N	30	700	<1	N	N	100	70	20	5	N
88KW065A	F-003447	65 23 56	149 50 34	13	3	3	5	3	<0.2	0.5	N	N	N	30	5000	<1	N	N	50	200	50	30	N
88KW065B	F-003449	65 23 56	149 50 34	12	>20	0.7	1	0.2	N	0.07	N	N	N	10	1000	N	N	N	N	100	<5	N	N
88KW065C	F-003450	65 23 56	149 50 34	13	0.3	3	0.7	<0.2	N	0.2	N	N	N	20	500	<1	N	N	N	100	20	5	N
88KW065D	F-003452	65 23 56	149 50 34	13	0.15	7	3	1.5	N	0.5	N	N	N	50	700	1	N	N	50	500	50	50	N
88KW065E	F-003448	65 23 56	149 50 34	14	0.7	3	0.7	3	<0.2	0.3	N	1500	N	20	2000	5	N	N	15	30	5	50	N
88KW065F	F-003451	65 23 56	149 50 34	14	3	7	3	3	<0.2	0.5	N	N	N	10	2000	1.5	N	N	50	100	30	70	N
88KW065G	F-003453	65 23 56	149 50 34	12	15	5	5	1.5	N	0.15	N	N	N	30	500	1.5	N	N	30	300	30	20	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
88KW041D	<50	150	N	N	10	<10	N	<5	N	N	N	70	N	<10	N	100	--	N	N	N	N	15
88KW042	<50	100	N	N	<5	<10	N	N	N	N	N	70	N	<10	N	150	--	N	N	N	N	10
88KW043	<50	100	N	N	<5	<10	N	N	N	N	N	50	N	<10	N	150	--	N	N	0.1	N	25
88KW044	<50	15	N	N	<5	<10	N	N	N	N	N	70	N	<10	N	200	--	70	N	0.1	N	10
88KW045	<50	150	N	<20	10	15	N	5	N	N	N	70	N	20	N	700	--	20	N	N	N	20
88KW046	<50	100	N	N	5	<10	N	N	N	<100	N	50	N	<10	N	150	N	70	N	N	4	25
88KW048	<50	100	N	N	5	<10	N	N	N	N	N	50	N	N	N	150	--	N	N	N	N	15
88KW049A	<50	500	N	N	150	15	N	15	N	N	N	100	N	20	N	150	--	10	N	0.1	N	95
88KW049B	<50	30	N	N	<5	10	N	N	N	200	N	70	N	<10	<200	150	N	10	N	0.5	N	150
88KW049C	N	70	N	N	20	<10	N	<5	N	N	N	50	N	<10	N	150	--	N	N	0.1	N	65
88KW049D	<50	70	N	N	20	10	N	5	N	N	N	70	N	15	<200	500	N	N	N	0.7	N	170
88KW049E	N	70	N	N	50	30	N	N	N	300	N	100	N	<10	700	100	N	30	N	5.4	N	900
88KW050	<50	300	N	N	150	15	N	15	N	150	N	150	N	20	N	150	--	N	N	N	N	60
88KW053	<50	70	N	N	5	10	N	N	N	N	N	70	N	10	N	150	--	N	N	N	N	55
88KW055B	<50	300	N	N	70	20	N	10	N	200	N	100	N	20	<200	150	--	10	N	0.6	N	60
88KW056C	<50	500	N	N	70	10	N	7	N	N	N	100	N	15	N	150	--	10	N	0.5	N	55
88KW057	<50	1500	N	N	100	15	N	7	N	300	N	100	N	15	N	300	--	10	N	0.3	N	60
88KW058	<50	300	N	<20	100	15	N	10	N	N	N	150	N	30	N	150	--	10	N	0.8	N	90
88KW059	<50	300	N	N	70	15	N	7	N	N	N	150	N	15	N	150	--	N	N	0.2	N	65
88KW060A	<50	300	N	N	100	20	N	7	N	<100	N	100	N	15	N	100	--	10	N	0.2	N	60
88KW062D	<50	1500	N	N	70	20	N	7	N	<100	N	100	N	15	N	150	--	20	N	0.8	2	100
88KW064A	N	300	<5	N	70	70	N	5	N	300	N	50	N	15	700	200	N	380	N	1.8	30	980
88KW064B	N	300	N	<20	70	150	N	7	N	500	N	70	N	15	2000	70	N	120	N	14	10	>2000
88KW064C	<50	150	<5	20	15	200	N	7	N	<100	N	150	N	20	300	300	N	60	N	0.3	6	370
88KW064D	<50	150	N	N	<5	30	N	N	N	200	N	30	N	N	N	150	N	30	N	N	N	130
88KW064E	<50	150	30	<20	<5	70	N	15	N	<100	N	150	N	20	<200	200	N	60	2	0.1	24	130
88KW064F	<50	>5000	N	<20	150	50	N	7	N	300	N	70	N	20	3000	200	N	50	N	8	6	>2000
88KW065A	<50	1000	N	N	50	10	N	20	N	300	N	100	N	30	N	70	N	30	N	0.1	N	50
88KW065B	N	150	N	N	<5	15	N	<5	N	700	N	15	N	15	N	30	--	10	N	N	N	10
88KW065C	<50	300	N	N	30	10	N	7	N	N	N	70	N	<10	N	70	--	N	N	N	N	35
88KW065D	<50	300	N	<20	150	30	N	20	N	N	N	150	N	20	<200	150	N	10	N	0.1	N	110
88KW065E	50	500	N	30	10	50	N	7	N	500	N	70	N	15	N	200	N	1700	N	0.2	10	45
88KW065F	50	700	N	20	50	30	N	20	N	700	N	150	N	30	N	150	--	N	N	0.2	N	85
88KW065G	<50	>5000	N	N	150	50	N	15	N	500	N	70	N	20	N	50	--	N	N	0.1	N	10

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
88KW066A	F-003454	65 24 20	149 50 20	13	7	0.7	0.15	<0.2	N	0.007	N	N	N	N	70	<1	N	N	N	<10	<5	N	N
88KW066B	F-003455	65 24 20	149 50 20	13	0.15	3	1	1.5	N	0.7	N	N	N	100	1000	1.5	N	N	<10	150	50	30	N
88KW066C	F-003456	65 24 20	149 50 20	14	0.7	3	0.7	3	N	0.2	N	N	N	10	1500	5	N	N	10	10	10	30	N
88KW066D	F-003457	65 24 20	149 50 20	13	0.3	5	2	1.5	N	0.5	N	N	N	50	1000	1	N	N	20	300	50	50	N
88KW066E	F-003458	65 24 20	149 50 20	12	20	0.15	0.7	N	N	0.007	N	N	N	N	70	N	N	N	N	10	<5	N	N
88KW067A	F-003459	65 24 46	149 50 31	13	3	7	2	3	<0.2	1	N	N	N	50	>5000	<1	N	N	30	200	70	30	N
88KW067B	F-003460	65 24 47	149 50 38	12	0.7	1.5	0.7	N	N	0.1	N	N	N	10	1000	<1	N	N	<10	20	20	<5	N
88KW067C	F-003461	65 24 48	149 50 59	13	3	3	2	<0.2	N	0.7	N	N	N	10	200	1	N	N	20	200	30	20	N
88KW068A	F-003462	65 26 43	149 47 15	12	10	1	0.15	N	N	0.05	N	N	N	10	150	<1	N	N	N	10	7	N	N
88KW070A	F-003464	65 24 58	149 34 58	13	0.07	3	1	1	N	0.5	N	N	N	70	700	3	N	N	15	100	20	<5	N
88KW070B	F-003465	65 24 56	149 34 52	13	0.05	3	0.7	N	N	0.1	N	N	N	15	70	<1	N	N	15	20	100	7	N
88KW070C	F-003466	65 24 55	149 34 45	13	0.15	5	1	0.7	<0.2	0.5	N	N	N	70	500	1.5	N	N	20	100	20	20	N
88KW070D	F-003467	65 24 54	149 34 40	13	0.07	3	1	0.7	N	0.5	N	N	N	100	500	2	N	N	20	100	30	30	N
88KW071A	F-003468	65 25 36	149 34 05	13	<0.05	7	1	1	N	0.5	N	N	N	150	500	2	N	N	20	100	50	30	N
88KW072A	F-003469	65 25 06	149 33 57	14	0.05	2	0.5	N	N	0.15	N	N	N	20	20	1	N	N	N	20	20	<5	N
88KW072B	F-003470	65 25 05	149 33 57	12	0.5	5	1	1.5	<0.2	0.5	1.5	N	N	150	200	3	10	N	50	150	50	20	N
88KW072C	F-003471	65 25 04	149 33 56	14	5	7	2	2	<0.2	1	N	N	N	N	1500	1.5	N	N	50	30	30	20	N
88KW072D	F-003472	65 25 03	149 33 54	13	0.15	5	1	1	N	0.7	N	N	N	100	500	1.5	N	N	10	100	20	30	N
88KW072E	F-003473	65 25 02	149 33 53	14	0.2	3	1	1.5	N	0.7	N	N	N	100	500	1.5	N	N	N	150	20	30	N
88KW073A	F-003474	65 24 55	149 33 53	12	0.05	3	1	1.5	N	0.3	N	N	N	150	500	2	N	N	10	150	30	30	N
88KW073B	F-003475	65 24 53	149 33 53	13	0.07	5	1	0.5	<0.2	0.3	N	N	N	70	200	1.5	N	N	15	100	20	20	N
88KW076B	F-003476	65 25 04	149 31 40	13	0.15	7	1.5	1	N	0.7	N	N	N	100	700	1.5	N	N	50	200	30	50	N
88KW078A	F-003477	65 19 13	149 50 41	13	<0.05	0.7	0.07	N	<0.2	0.15	N	N	N	30	500	<1	N	N	N	20	7	N	N
88KW079	F-003478	65 18 43	149 50 27	12	<0.05	2	0.2	N	<0.2	0.2	N	N	N	50	1000	1.5	N	N	<10	150	20	10	N
88KW080	F-003479	65 22 00	149 47 31	13	0.05	2	0.5	0.2	N	0.2	N	N	N	50	300	<1	N	N	N	50	30	7	N
88KW081A	F-003480	65 42 13	147 00 08	12	<0.05	0.3	0.05	N	N	0.07	<0.5	N	N	15	700	<1	N	N	N	15	<5	N	N
88KW081C	F-003481	65 42 18	149 00 22	12	N	0.7	0.05	N	N	0.1	0.5	N	N	20	1000	<1	N	N	N	20	7	<5	N
88KW082	F-003482	65 42 27	147 00 03	12	0.15	3	0.2	N	<0.2	0.1	N	N	N	10	500	<1	N	N	N	20	30	10	N
88KW083	F-003483	65 12 12	147 01 37	12	1.5	5	1.5	0.5	N	0.2	N	N	N	50	500	1	N	N	15	70	50	20	N
88KW084A	F-003484	65 42 53	149 01 50	12	0.05	1.5	0.03	<0.2	N	0.005	N	N	N	<10	100	<1	N	N	<10	10	7	N	N
88KW084B	F-003485	65 42 53	147 01 50	12	0.05	5	0.7	1.5	N	0.2	N	N	N	100	500	1.5	N	N	70	70	50	20	N
88KW086	F-003486	65 45 01	147 06 21	12	0.7	3	1	1.5	<0.2	0.2	N	N	N	50	700	<1	N	N	30	150	30	15	N
88KW087	F-003487	65 41 50	147 09 28	12	0.05	5	1	1	N	0.5	N	N	N	200	1000	1.5	N	N	<10	150	70	50	N
88KW101	F-003488	65 18 10	149 08 00	13	0.2	3	0.5	0.3	<0.2	0.3	N	N	N	100	700	1.5	N	N	<10	100	30	<5	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
88KW066A	N	700	N	N	<5	20	N	N	N	200	N	10	N	<10	N	N	--	20	N	0.2	N	55
88KW066B	<50	100	15	<20	15	50	N	20	N	150	N	200	N	20	N	150	N	30	N	0.2	4	50
88KW066C	50	700	N	20	20	100	N	7	N	500	N	70	N	15	N	200	N	130	N	0.2	24	60
88KW066D	<50	700	N	<20	150	20	N	20	N	N	N	150	N	20	<200	100	--	10	N	0.1	N	100
88KW066E	N	300	N	N	N	N	N	N	N	300	N	15	N	N	N	N	--	10	N	0.2	N	N
88KW067A	50	1500	N	20	100	50	N	20	N	300	N	150	N	30	<200	150	N	80	N	0.7	2	110
88KW067B	N	700	N	N	20	<10	N	5	N	<100	N	100	N	<10	N	50	--	10	N	0.2	2	35
88KW067C	<50	1000	N	<20	50	<10	N	20	N	100	N	150	N	30	500	70	N	N	N	4.5	N	640
88KW068A	N	700	N	N	5	15	N	N	N	500	N	70	N	N	N	70	--	20	N	0.1	2	15
88KW070A	50	1000	N	<20	20	30	N	15	N	<100	N	150	N	20	<200	150	N	N	1	0.1	4	95
88KW070B	N	1000	N	N	30	20	N	7	N	N	N	70	N	10	N	30	--	10	1	N	N	55
88KW070C	50	1000	N	<20	50	30	N	20	N	N	N	100	N	30	<200	150	--	20	1	0.1	2	80
88KW070D	50	1500	N	<20	30	30	N	20	N	N	N	150	N	30	<200	150	--	N	1	N	N	90
88KW071A	<50	700	N	<20	50	50	N	20	N	<100	N	150	N	30	<200	150	--	20	1	0.2	N	100
88KW072A	<50	150	N	N	10	15	N	<5	N	N	N	30	N	N	N	50	--	N	2	N	N	30
88KW072B	50	700	N	<20	70	300	N	15	N	200	N	100	N	30	<200	150	N	10	4.1	0.1	2	60
88KW072C	<50	1000	N	<20	20	30	N	20	N	700	N	200	N	30	<200	150	--	10	N	0.1	N	80
88KW072D	50	700	N	<20	30	50	N	15	N	N	N	150	N	30	<200	200	--	20	1	N	N	55
88KW072E	<50	300	N	<20	7	50	N	20	N	N	N	150	N	30	N	200	--	N	N	N	N	15
88KW073A	<50	1000	N	N	15	30	N	15	N	<100	N	150	N	20	N	70	--	N	1	N	N	65
88KW073B	<50	700	N	<20	20	30	N	15	N	N	N	150	N	20	<200	150	--	10	1	N	N	75
88KW076B	50	1500	N	20	100	15	N	20	N	N	N	150	N	30	<200	200	--	N	1	N	N	100
88KW078A	<50	150	N	N	5	15	N	N	N	200	N	70	N	10	N	150	N	40	N	N	N	70
88KW079	<50	200	N	<20	30	15	N	10	N	N	N	150	N	15	N	150	--	10	1	0.1	N	55
88KW080	N	200	N	<20	20	<10	N	5	N	N	N	70	N	10	N	100	N	30	1	N	N	20
88KW081A	N	20	N	N	<5	<10	N	N	N	N	N	70	N	N	N	70	--	N	N	N	N	N
88KW081C	N	15	7	N	N	15	N	<5	N	N	N	100	N	<10	N	70	N	20	1	N	N	N
88KW082	<50	300	N	<20	<5	<10	N	<5	N	N	N	200	N	15	N	50	--	20	1	N	N	10
88KW083	<50	700	N	<20	30	15	N	10	N	300	N	150	N	20	<200	150	N	N	1	0.9	N	130
88KW084A	N	700	N	N	20	10	N	N	N	N	N	<10	N	N	<200	<10	N	30	1	2.6	2	140
88KW084B	<50	1500	N	<20	50	50	N	10	N	N	N	100	N	10	200	150	N	30	1	0.6	N	180
88KW086	<50	1000	N	N	70	50	N	10	N	N	N	150	N	15	<200	100	N	10	1	0.7	N	130
88KW087	50	150	N	30	50	50	N	15	N	N	N	150	N	30	N	300	N	10	N	0.2	N	70
88KW101	<50	150	N	<20	30	15	N	5	N	<100	N	150	N	20	N	1000	--	20	N	0.2	N	35

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
88KW102	F-003489	65 18 40	149 05 41	13	0.15	1	0.1	N	<0.2	0.07	N	N	N	15	150	<1	N	N	N	15	5	N	N
88KW103	F-003490	65 19 17	149 03 25	12	0.3	3	1	2	N	0.5	N	N	N	100	1500	1	N	N	20	200	30	30	N
88KW104	F-003491	65 17 31	149 11 06	13	0.05	0.2	0.1	<0.2	N	0.15	N	N	N	15	100	N	N	N	N	30	5	N	N
88KW108	F-003493	65 08 55	149 21 20	12	0.15	7	1.5	1.5	<0.2	0.5	N	N	N	30	700	<1	N	N	15	200	50	30	N
88KW109	F-003494	65 04 23	149 24 25	13	0.3	3	1	0.7	<0.2	0.2	1	N	N	30	1500	1.5	N	N	15	100	30	20	N
88KW110A	F-003495	65 10 04	149 28 07	14	5	10	3	2	N	0.7	N	N	N	N	150	<1	N	N	70	1000	200	30	N
88KW110B	F-003496	65 10 04	149 28 07	13	0.1	5	0.5	1	N	0.3	N	N	N	50	2000	1.5	N	N	20	150	70	20	N
88KW110C	F-003497	65 10 04	149 28 07	14	3	5	2	0.7	N	0.5	N	N	N	20	200	<1	N	N	50	700	100	20	N
88KW110D	F-003498	65 10 04	149 28 07	14	7	7	0.7	2	N	0.7	N	N	N	30	200	N	N	N	30	200	150	30	N
88KW110E	F-003499	65 10 04	149 28 07	13	3	7	3	3	N	0.7	N	N	N	N	20	<1	N	N	70	200	70	30	N
88KW110F	F-003500	65 10 04	149 28 07	13	0.07	5	1	<0.2	N	0.3	N	N	N	20	150	<1	N	N	<10	150	70	20	N
88KW111	F-003501	65 12 03	149 30 52	13	<0.05	0.5	0.07	N	N	0.1	N	N	N	15	200	<1	N	N	N	15	5	N	N
88KW112	F-003502	65 12 18	149 24 51	13	<0.05	0.3	0.07	N	N	0.1	N	N	N	20	100	<1	N	N	N	15	<5	N	N
88KW113	F-003503	65 13 36	149 28 30	13	<0.05	0.5	0.07	N	N	0.15	N	N	N	20	300	N	N	N	N	70	7	N	N
88KW114A	F-003504	65 12 26	149 31 20	14	0.15	5	1.5	1.5	N	0.5	N	N	N	20	1000	<1	N	N	30	300	30	15	N
88KW114B	F-003505	65 12 26	149 31 20	12	0.15	3	1.5	1.5	N	0.3	N	N	N	30	1500	<1	N	N	70	300	30	15	N
88KW114C	F-003506	65 12 26	149 31 20	12	0.15	5	1.5	2	<0.2	0.5	N	N	N	50	2000	1.5	N	N	20	150	30	20	N
88KW114D	F-003507	65 12 26	149 31 20	12	0.2	5	2	2	N	0.5	N	N	N	70	2000	1.5	N	N	20	200	50	20	N
88KW115	F-003508	65 10 34	149 37 18	13	<0.05	1	0.07	N	N	0.15	N	N	N	10	150	<1	N	N	N	20	7	N	N
88KW116	F-003509	65 10 40	149 39 00	13	<0.05	0.07	<0.02	N	N	0.003	N	N	N	N	30	N	N	N	N	N	N	N	N
88KW117A	F-003510	65 09 46	149 42 01	13	<0.05	1.5	0.5	N	N	0.1	N	N	N	20	70	N	N	N	N	20	10	<5	N
88KW117B	F-003511	65 09 46	149 42 01	12	<0.05	10	1	<0.2	0.2	0.3	N	N	N	70	1500	2	N	N	20	150	70	30	N
88KW118	F-003512	65 06 58	149 56 43	13	<0.05	1	0.07	N	N	0.1	N	N	N	20	100	<1	N	N	N	<10	10	N	N
88KW119B	F-003513	65 06 00	149 56 07	12	<0.05	1	0.07	N	N	0.1	N	N	N	15	70	<1	N	N	N	30	15	N	N
88KW120	F-003514	65 10 31	149 34 52	13	0.07	1	0.02	N	N	0.15	N	N	N	10	70	<1	N	N	N	20	7	N	N
88KW121A	F-003516	65 19 06	149 55 00	13	1.5	3	1	N	N	0.15	0.5	N	N	15	70	<1	N	N	10	30	30	<5	N
88KW121B	F-003515	65 19 06	149 55 00	12	0.07	5	2	2	<0.2	0.5	N	N	N	200	1500	1	N	N	30	200	70	30	N
88KW122A	F-003517	65 20 37	149 50 35	13	<0.05	5	0.15	N	N	0.5	N	N	N	100	1000	1.5	N	N	20	150	100	15	N
88KW122B	F-003518	65 20 37	149 50 35	13	<0.05	3	0.2	N	N	0.7	N	<200	N	70	700	1.5	N	N	30	150	30	10	N
88KW122C	F-003519	65 20 37	149 50 35	14	10	5	3	3	<0.2	0.5	<0.5	N	N	<10	2000	2	N	N	50	500	10	50	N
88KW123A	F-003520	65 21 24	149 46 20	12	0.07	0.7	0.07	N	N	0.03	0.7	N	N	20	300	<1	N	N	N	<10	7	N	N
88KW123B	F-003521	65 21 24	149 46 15	14	<0.05	2	0.15	<0.2	<0.2	0.15	0.5	N	N	30	300	5	N	N	<10	15	10	30	N
88KW123C	F-003523	65 21 23	149 46 10	14	0.05	2	0.3	2	N	0.15	N	200	N	70	1000	5	N	N	N	20	15	30	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
88KW102	N	150	N	N	5	<10	N	N	N	N	N	70	N	<10	N	150	--	10	N	N	N	20
88KW103	<50	300	N	<20	70	20	N	20	N	<100	N	200	N	30	N	200	--	20	N	0.2	N	60
88KW104	N	30	N	N	N	<10	N	N	N	N	N	30	N	<10	N	300	--	N	N	N	N	5
88KW108	<50	1000	N	<20	70	20	N	15	N	N	N	150	N	20	<200	200	N	20	1	0.1	N	110
88KW109	<50	700	N	<20	30	70	N	10	N	<100	N	150	N	30	200	70	N	30	N	0.2	6	140
88KW110A	N	1000	N	<20	200	15	N	20	N	200	N	150	N	20	N	100	N	N	1	0.1	N	45
88KW110B	<50	1500	N	<20	30	30	N	15	N	N	N	150	N	10	<200	150	--	30	1	0.3	2	85
88KW110C	<50	1000	N	<20	150	100	N	15	N	200	N	150	N	20	<200	70	N	110	N	0.8	6	160
88KW110D	<50	1500	N	N	70	70	N	20	N	200	N	200	N	30	<200	70	N	130	N	0.8	14	160
88KW110E	N	1000	N	<20	100	15	N	30	N	300	N	150	N	30	<200	70	--	10	1	N	N	50
88KW110F	<50	1000	N	<20	50	70	N	10	N	N	N	150	N	30	N	100	N	10	N	1.7	N	120
88KW111	N	150	N	N	<5	N	N	<5	N	N	N	30	N	30	N	500	--	N	1	N	N	20
88KW112	N	30	N	N	<5	N	N	N	N	N	N	50	N	N	N	300	--	N	N	N	N	N
88KW113	N	150	N	N	N	20	N	N	N	200	N	30	N	<10	N	700	N	10	N	N	4	5
88KW114A	<50	300	N	<20	100	20	N	15	N	N	N	100	N	20	<200	100	--	10	1	0.2	N	100
88KW114B	<50	500	N	<20	100	20	N	15	N	N	N	100	N	15	<200	100	--	10	N	0.1	2	70
88KW114C	<50	300	N	<20	70	30	N	20	N	N	N	150	N	30	<200	70	--	10	N	0.2	2	95
88KW114D	<50	300	N	<20	70	30	N	20	N	N	N	150	N	30	<200	100	--	10	N	0.1	N	85
88KW115	<50	70	N	N	<5	<10	N	N	N	N	N	50	N	<10	N	300	--	10	N	N	N	10
88KW116	N	10	N	N	<5	N	N	N	N	N	N	<10	N	N	N	N	--	N	1	N	N	N
88KW117A	<50	150	N	<20	10	<10	N	N	N	N	N	30	N	<10	N	300	--	N	N	N	N	25
88KW117B	<50	200	N	<20	100	30	N	10	N	N	N	100	N	30	300	70	N	20	N	0.3	N	260
88KW118	N	30	N	<20	5	<10	N	<5	N	N	N	50	N	N	N	200	N	30	1	N	8	5
88KW119B	<50	50	N	<20	10	<10	N	N	N	N	N	50	N	<10	N	200	--	10	N	N	N	15
88KW120	N	150	N	<20	<5	<10	N	<5	N	N	N	70	N	<10	N	300	--	10	1	N	N	10
88KW121A	<50	700	N	<20	30	30	N	5	N	N	N	70	N	15	N	700	--	N	N	0.4	N	75
88KW121B	<50	200	N	N	100	30	N	20	N	N	N	200	N	20	<200	100	N	10	1	0.1	N	150
88KW122A	<50	150	5	<20	70	30	N	10	N	N	N	150	N	20	<200	150	N	50	1	0.1	10	170
88KW122B	<50	200	N	<20	150	20	N	10	N	N	N	100	N	15	N	150	--	150	N	0.1	2	90
88KW122C	<50	1000	N	<20	50	30	N	20	N	500	N	150	N	20	N	150	--	30	N	0.2	N	100
88KW123A	N	20	5	N	N	15	N	N	N	N	N	70	N	<10	N	15	N	90	N	0.1	28	30
88KW123B	<50	500	5	<20	50	150	N	5	N	N	N	30	N	10	500	150	N	70	2	0.5	12	540
88KW123C	<50	50	N	<20	20	300	<100	5	20	100	N	50	N	15	N	150	N	350	N	0.9	40	20

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
88KW123D	F-003524	65 21 22	149 46 00	12	0.07	0.2	0.2	N	N	0.3	N	N	N	70	2000	<1	N	N	N	30	7	<5	N
88KW123E	F-003525	65 21 20	149 45 38	12	0.1	0.15	0.15	N	N	0.07	N	N	N	50	1500	<1	N	N	N	20	5	N	N
88KW123F	F-003522	65 21 24	149 46 15	13	1	1.5	0.7	N	N	0.07	7	N	N	30	1500	1	N	N	N	15	30	<5	N
88KW124A	F-003526	65 23 20	149 46 42	14	5	5	2	5	0.2	0.5	N	N	N	10	700	2	N	N	50	500	50	50	N
88KW124B	F-003528	65 23 22	149 46 40	12	0.05	3	0.5	0.3	N	0.2	N	N	N	20	300	<1	N	N	<10	300	15	<5	N
88KW124C	F-003529	65 23 27	149 46 30	14	0.1	5	1	1	N	0.5	N	N	N	100	1000	2	N	N	20	150	50	20	N
88KW124D	F-003527	65 23 20	149 46 42	13	0.1	3	1	1.5	<0.2	0.5	N	N	N	50	1000	1.5	N	N	20	100	30	30	N
88KW125A	F-003530	65 25 32	149 49 38	13	1.5	7	2	5	<0.2	0.7	N	N	N	30	2000	<1	N	N	30	100	50	50	N
88KW125B	F-003531	65 25 32	149 49 38	12	>20	0.3	0.7	N	N	0.02	N	N	N	N	70	<1	N	N	N	30	<5	N	N
88KW125C	F-003532	65 25 32	149 49 38	12	0.3	3	0.5	0.3	N	0.15	N	N	N	20	2000	<1	N	70	15	150	50	15	N
88KW126	F-003533	65 23 55	149 44 00	12	<0.05	0.07	0.07	N	N	0.07	N	N	N	30	300	<1	N	N	N	10	5	N	N
88KW127A	F-003534	65 21 25	149 35 38	12	0.5	3	0.7	0.7	N	0.3	N	N	N	<10	1500	<1	N	N	15	150	20	15	N
88KW127B	F-003535	65 21 26	149 35 39	14	3	5	3	1.5	<0.2	0.5	N	N	N	<10	1500	1.5	N	N	30	700	10	20	N
88KW127C	F-003536	65 21 27	149 35 40	12	0.07	2	0.7	0.5	N	0.7	N	N	N	150	3000	<1	N	N	<10	150	30	20	N
88KW127D	F-003537	65 21 27	149 35 41	12	0.07	3	0.7	1	<0.2	0.5	2	N	N	70	2000	1	N	N	N	150	30	30	N
88KW127E	F-003538	65 21 28	149 35 51	12	5	3	1.5	1	N	0.3	N	N	N	10	2000	<1	N	N	N	150	7	10	N
88KW127F	F-003539	65 21 34	149 36 24	12	20	3	1.5	1	0.3	0.3	2	N	N	15	>5000	1	N	N	<10	200	30	20	N
88KW128	F-003540	65 27 13	149 03 09	12	0.2	0.3	0.07	N	N	0.03	N	N	N	20	700	<1	N	N	N	N	20	<5	N
88KW129	F-003541	65 27 26	149 02 53	12	>20	N	0.5	N	N	N	N	N	N	N	20	N	N	N	N	N	7	N	N
88KW130	D-320182	65 40 38	149 05 23	12	3	10	7	2	N	0.7	N	N	N	N	500	N	N	N	50	100	100	15	N
88KW131	D-320183	65 43 20	149 17 39	14	5	7	7	2	N	0.5	N	N	N	<10	>5000	N	N	N	30	100	30	15	N
88KW135	F-003559	65 10 49	148 04 32	13	<0.05	2	0.1	1	N	0.1	7	N	N	10	200	<1	N	N	N	10	15	5	N
88KW136	F-003560	65 10 54	148 04 34	13	<0.05	1	0.05	1	N	0.15	<0.5	N	N	20	200	<1	N	N	N	15	7	7	N
88KW137	F-003561	65 11 02	148 04 38	13	<0.05	7	0.02	N	N	0.05	N	N	N	<10	100	N	N	N	50	<10	70	7	N
88KW138	F-003562	65 11 06	148 04 40	13	<0.05	2	0.5	1.5	N	0.2	N	N	N	10	100	N	N	N	<10	20	10	7	N
88KW139	F-003563	65 11 08	148 04 40	13	<0.05	5	1	1.5	N	0.3	N	N	N	70	500	<1	N	N	N	70	30	20	N
88KW140	F-003564	65 11 25	148 05 01	13	<0.05	0.7	0.1	1.5	N	0.15	N	N	N	15	300	N	N	N	N	15	5	5	N
88KW141	F-003565	65 11 49	148 04 47	13	<0.05	5	0.7	2	N	0.2	N	N	N	50	1000	1	N	N	10	50	10	20	N
88RI1A	F-003542	65 20 44	149 49 46	13	0.05	0.5	0.02	0.7	<0.2	0.05	N	N	N	<10	100	<1	N	N	N	15	7	N	N
88RI1B	F-003543	65 20 44	149 49 54	29	0.07	3	0.3	2	N	0.1	<0.5	300	N	200	1000	5	N	N	10	20	50	30	N
88RI1B1	F-003555	65 20 44	149 49 54	29	0.1	2	0.7	3	N	0.2	7	700	N	30	1500	5	N	N	N	30	7	30	N
88RI1C	F-003544	65 20 47	149 50 12	13	<0.05	3	0.7	0.3	N	0.15	N	N	N	50	1000	1.5	N	N	20	100	20	20	N
88RI1D	F-003545	65 20 43	149 50 28	13	<0.05	3	1	0.5	N	0.2	N	N	N	50	700	<1	N	N	10	100	20	20	N
88RI1E	F-003546	65 20 29	149 51 12	13	<0.05	3	0.2	N	N	0.3	N	N	N	100	700	<1	N	N	15	150	30	15	N
88RI1F1	F-003547	65 20 29	149 51 12	14	3	5	5	2	<0.2	0.3	N	N	N	<10	2000	3	N	N	50	700	50	30	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
88KW123D	N	30	N	N	<5	20	N	5	N	N	N	700	N	10	N	70	N	10	N	N	6	N
88KW123E	N	20	N	N	<5	20	N	<5	N	N	N	700	N	<10	N	50	N	10	N	N	6	N
88KW123F	N	200	10	N	30	30	N	5	N	100	N	100	N	15	<200	100	N	20	1	5	16	260
88KW124A	<50	1000	N	N	30	50	N	20	N	700	N	200	N	20	N	100	--	10	N	0.1	N	70
88KW124B	<50	300	N	<20	50	<10	N	5	N	N	N	100	N	10	N	100	--	10	N	N	N	30
88KW124C	<50	300	N	<20	70	30	N	20	N	<100	N	200	N	30	<200	200	N	20	N	0.4	N	120
88KW124D	<50	150	N	<20	50	20	N	10	N	N	N	150	N	20	N	200	--	N	N	0.2	N	95
88KW125A	<50	1000	N	<20	50	15	N	20	N	300	N	200	N	50	N	150	--	30	N	0.2	N	60
88KW125B	N	700	N	N	N	10	N	<5	N	300	N	30	N	20	N	20	--	N	N	0.2	N	10
88KW125C	<50	500	50	<20	70	100	N	15	N	N	N	10000	N	30	700	100	N	60	N	14	6	630
88KW126	N	<10	N	N	<5	<10	N	<5	N	N	N	30	N	N	N	20	--	10	N	N	N	N
88KW127A	<50	500	<5	N	50	30	N	7	N	150	N	300	N	20	<200	150	N	30	N	N	N	110
88KW127B	<50	1000	N	N	30	30	N	20	N	500	N	150	N	30	N	150	--	N	N	0.1	N	40
88KW127C	50	50	N	N	70	30	N	15	N	150	N	500	N	20	<200	200	N	N	N	N	N	25
88KW127D	<50	50	<5	N	10	50	N	15	N	150	N	300	N	20	<200	150	N	20	N	N	4	25
88KW127E	<50	1000	N	N	5	30	N	15	N	300	N	300	N	20	N	200	--	N	N	0.1	N	5
88KW127F	50	1000	N	N	50	30	N	15	N	1000	N	150	N	50	N	50	N	N	N	0.2	N	30
88KW128	N	150	N	N	<5	<10	N	N	N	N	N	20	N	N	N	20	--	N	N	N	N	5
88KW129	N	20	N	N	<5	N	N	N	N	<100	N	<10	N	N	N	N	--	N	N	0.2	N	20
88KW130	N	1500	N	N	100	<10	N	15	N	200	N	300	N	10	N	50	--	N	N	0.1	N	45
88KW131	N	1500	N	N	70	N	N	15	N	300	N	300	N	10	N	50	N	N	N	N	N	35
88KW135	N	50	N	N	<5	10	N	N	N	N	N	15	N	N	N	150	--	N	1	N	N	10
88KW136	N	300	N	N	10	<10	N	N	N	N	N	20	N	<10	N	200	--	N	N	N	N	30
88KW137	N	300	N	N	100	200	N	N	N	N	N	10	N	<10	N	20	--	N	5	0.1	N	40
88KW138	N	200	N	N	<5	<10	N	N	N	N	N	20	N	N	N	100	--	N	N	N	N	30
88KW139	<50	200	N	N	5	50	N	10	N	N	N	50	N	15	N	150	--	N	N	N	N	55
88KW140	N	1500	N	N	7	10	N	N	N	N	N	15	N	N	N	150	--	N	N	N	N	15
88KW141	N	50	N	N	20	10	N	5	N	N	N	30	N	<10	N	150	--	N	N	N	N	40
88RI1A	N	150	N	N	N	N	N	N	N	N	N	20	N	N	N	150	N	40	N	N	2	10
88RI1B	<50	500	<5	20	30	30	N	<5	N	300	N	30	N	15	<200	200	0.05	490	N	0.5	12	140
88RI1B1	<50	70	N	20	N	50	N	5	10	700	N	50	N	15	<200	300	N	650	N	N	12	10
88RI1C	<50	500	N	<20	50	N	N	7	N	N	N	70	N	15	N	150	<0.05	30	N	N	6	70
88RI1D	<50	700	N	<20	50	N	N	10	N	N	N	100	N	15	<200	150	--	10	N	N	2	55
88RI1E	<50	300	N	<20	30	<10	N	10	N	<100	N	150	N	20	<200	150	N	40	N	N	6	65
88RI1F1	<50	700	N	<20	100	50	N	20	N	700	N	150	N	20	<200	150	--	10	N	0.1	2	45

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
88RI1F2	F-003548	65 20 29	149 51 12	13	0.3	5	1.5	1	N	0.5	N	N	N	100	1500	1	N	N	20	500	50	30	N
88RI2A	F-003549	65 20 54	149 51 44	13	0.15	5	1.5	1	N	0.5	N	N	N	150	2000	2	N	N	50	200	200	50	N
88RI2B1	F-003550	65 20 48	149 51 48	29	0.7	3	1	2	N	0.3	N	N	N	10	1500	5	N	N	15	70	30	30	N
88RI2B2	F-003551	65 20 48	149 51 48	13	1	3	1.5	2	<0.2	0.3	N	N	N	15	1000	1.5	N	N	20	100	20	30	N
88RI2C1	F-003552	65 20 43	149 51 50	13	0.3	5	1.5	2	N	0.7	N	N	N	150	2000	1	N	N	50	200	30	30	N
88RI2C2	F-003553	65 20 43	149 51 50	29	1.5	3	1	3	N	0.3	N	N	N	10	2000	7	N	N	20	100	30	50	N
88RI2D	F-003554	65 20 38	149 51 50	29	1.5	3	1.5	3	N	0.3	N	N	N	15	1500	5	N	N	15	150	10	30	N
88RI3	F-003556	65 01 12	147 28 58	29	1	5	1.5	2	N	0.5	N	N	N	15	1500	2	N	N	20	30	7	30	N
88RI4	F-003557	65 01 45	147 28 14	29	0.7	1.5	0.5	2	N	0.15	N	N	N	10	1500	3	N	N	N	<10	N	20	N
88RI5	F-003558	65 02 08	147 29 33	29	1.5	3	1.5	2	N	0.5	N	N	N	20	1500	1.5	N	N	20	30	5	30	N
88WR004	F-003566	65 06 48	147 46 12	13	0.05	3	0.7	2	N	0.3	N	N	N	<10	200	<1	N	N	<10	20	7	15	N
88WR005A	F-003274	65 07 45	147 49 25	13	<0.05	0.3	0.15	N	N	0.15	N	N	N	10	300	<1	N	N	N	20	5	<5	N
88WR005D	F-003275	65 07 45	147 49 25	13	<0.05	10	0.1	N	<0.2	0.1	N	N	N	<10	300	1.5	N	N	<10	50	50	10	N
88WR005E	F-003276	65 07 45	147 49 25	13	<0.05	3	0.15	N	N	0.15	N	N	N	10	300	1	N	N	N	30	30	7	N
88WR005G	F-003277	65 07 45	147 49 25	13	<0.05	7	0.3	N	N	0.2	N	N	N	70	500	1	N	N	N	100	300	30	N
88WR005H	F-003287	65 07 45	147 49 25	13	0.05	10	0.3	<0.2	<0.2	0.1	0.7	N	N	<10	700	2	N	N	30	30	50	20	N
88WR005I	F-003288	65 07 45	147 49 25	13	<0.05	5	0.15	<0.2	N	0.07	3	N	N	10	1500	1	N	N	30	15	50	10	N
88WR005J	F-003289	65 07 45	147 49 25	13	<0.05	5	0.1	N	N	0.07	N	N	N	15	200	1	N	N	N	20	30	7	N
88WR006D	F-003278	65 08 50	147 51 08	13	<0.05	1.5	0.2	N	N	0.2	N	N	N	20	300	1	N	N	N	20	30	5	N
88WR007	F-003279	65 08 55	147 51 00	13	0.07	3	1	1	N	0.5	N	N	N	50	1000	1.5	N	N	50	150	30	100	N
88WR008	F-003280	65 09 28	147 54 20	13	0.15	5	1.5	1	N	0.5	N	N	N	100	700	1.5	N	N	50	150	70	100	N
88WR009A	F-003281	65 09 30	147 54 28	13	0.3	7	1.5	5	N	0.5	N	N	N	20	700	1	N	N	50	150	70	70	N
88WR009B	F-003282	65 09 30	147 54 28	13	0.07	2	0.7	1.5	N	0.2	N	N	N	30	200	<1	N	N	10	30	15	15	N
88WR009D	F-003290	65 09 30	147 54 28	13	0.2	5	1.5	1.5	N	0.7	N	N	N	10	150	N	N	N	30	150	30	15	N
88WR010	F-003283	65 56 10	149 51 22	14	10	5	5	1.5	N	0.3	N	N	N	N	300	N	N	N	50	700	70	15	N
88WR011A	F-003284	65 58 58	149 58 43	12	0.1	0.3	0.2	N	<0.2	0.15	N	N	N	N	300	1.5	N	N	N	50	15	N	N
88WR011B	F-003291	65 58 58	149 58 43	12	1.5	3	2	3	<0.2	0.5	2	N	N	10	1000	1.5	N	N	20	100	30	50	N
88WR012	F-003292	65 58 12	149 59 24	12	0.5	3	1.5	3	<0.2	0.3	3	N	N	10	1000	1.5	N	N	15	50	7	50	N
88WR012A	F-003285	65 58 12	149 59 24	14	0.3	3	1	2	<0.2	0.2	N	N	N	<10	1000	1.5	N	N	10	70	7	20	N
88WR013	F-003286	65 57 57	149 58 48	13	7	7	3	2	N	1	N	N	N	<10	1500	N	N	N	70	100	150	30	N
88WR015A	F-003293	65 03 45	147 27 47	14	<0.05	>20	0.03	N	N	0.03	700	10000	N	N	20	<1	N	300	N	15	500	20	N
88WR015B	F-003294	65 03 45	147 27 47	13	>20	0.3	0.7	<0.2	N	0.007	15	N	N	N	30	N	N	N	N	15	10	N	N
88WR016A	F-003295	65 04 28	147 29 12	14	15	10	2	2	N	0.7	3	N	N	N	5000	<1	N	N	100	700	50	30	N
88WR016B	F-003296	65 04 28	147 29 12	13	1.5	0.7	0.7	0.7	1.5	0.3	2	N	N	200	3000	<1	N	N	N	150	50	10	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
88RI1F2	<50	700	N	20	100	20	N	20	N	100	N	200	N	50	<200	200	N	10	N	N	N	65
88RI2A	50	1500	N	30	100	50	N	20	N	100	N	200	N	30	200	200	N	10	N	N	N	120
88RI2B1	<50	700	<5	30	15	100	N	10	N	700	N	150	N	20	N	200	--	20	N	0.1	N	35
88RI2B2	<50	500	N	<20	50	30	N	15	N	200	N	150	N	20	<200	150	N	60	N	0.1	N	130
88RI2C1	<50	500	N	<20	100	30	N	20	N	300	N	200	N	30	<200	200	N	60	N	N	N	75
88RI2C2	50	700	N	30	20	70	N	15	N	1000	N	150	N	30	N	300	--	20	N	N	N	50
88RI2D	<50	700	N	20	20	70	N	10	N	700	N	150	N	20	N	200	--	10	N	N	N	50
88RI3	<50	700	N	<20	10	50	N	15	N	500	N	150	30	30	N	200	--	N	N	N	N	55
88RI4	N	300	N	20	<5	50	N	<5	N	500	N	30	N	30	N	150	N	70	N	N	N	15
88RI5	<50	700	N	<20	5	50	N	20	N	500	N	150	N	30	N	200	--	20	N	0.2	N	65
88WR004	N	200	N	N	5	20	N	<5	N	N	N	20	N	10	N	300	--	N	N	N	N	30
88WR005A	<50	20	N	N	<5	15	N	N	N	N	N	30	N	N	N	200	--	N	N	N	N	N
88WR005D	N	150	N	<20	50	20	N	5	N	N	N	20	N	30	200	70	N	40	N	0.2	N	260
88WR005E	N	50	N	<20	10	15	N	<5	N	N	N	30	N	10	N	150	--	10	N	N	N	35
88WR005G	<50	50	N	N	7	30	N	20	N	N	N	150	N	30	N	200	N	70	N	0.1	8	15
88WR005H	<50	2000	N	N	100	70	N	7	N	N	N	70	N	50	200	100	N	20	N	1.2	N	350
88WR005I	N	>5000	N	N	10	30	N	<5	N	N	N	30	N	20	N	100	N	10	N	0.4	N	85
88WR005J	N	500	N	N	5	30	N	N	N	N	N	20	N	10	N	100	--	10	N	0.1	N	50
88WR006D	<50	30	N	N	5	15	N	<5	N	N	N	70	N	15	N	200	--	10	N	N	N	5
88WR007	70	150	N	<20	30	50	N	20	N	200	N	150	N	50	N	200	--	10	N	N	N	60
88WR008	<50	500	N	<20	70	30	N	20	N	N	N	150	N	30	<200	100	--	10	N	N	N	70
88WR009A	<50	700	N	<20	70	20	N	20	N	N	N	150	N	30	N	150	--	10	N	N	N	75
88WR009B	<50	150	N	N	20	20	N	5	N	N	N	70	N	15	N	200	--	10	N	N	N	25
88WR009D	<50	500	N	<20	30	15	N	20	N	N	N	200	N	20	<200	150	--	10	N	N	N	30
88WR010	N	1000	N	N	100	<10	N	50	N	200	N	150	N	20	N	70	--	10	N	N	N	30
88WR011A	<50	150	N	N	30	<10	N	7	N	N	N	50	N	<10	N	100	--	10	N	0.1	N	5
88WR011B	<50	500	N	<20	70	30	N	15	N	N	N	150	N	30	<200	150	N	10	N	2.2	N	170
88WR012	<50	500	N	<20	20	700	N	7	N	N	N	100	N	20	N	150	N	20	N	0.8	30	100
88WR012A	<50	300	N	N	10	30	N	5	N	N	N	100	N	20	N	200	--	10	N	0.1	N	55
88WR013	N	1000	N	N	70	10	N	30	N	<100	N	200	N	30	N	70	--	N	N	N	N	60
88WR015A	N	70	N	N	5	>20000	10000	N	70	N	N	<10	N	N	>10000	N	2	>2000	N	>100	>1000	>2000
88WR015B	N	500	N	N	<5	7000	300	N	N	700	N	10	N	N	<200	10	N	30	N	1.6	56	130
88WR016A	<50	1500	N	N	150	200	N	20	N	500	N	100	N	20	N	70	N	20	N	0.3	8	40
88WR016B	N	150	<5	<20	20	100	N	7	N	300	N	1000	N	30	<200	150	N	10	N	1.1	N	130

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
88WR018	F-003297	65 00 32	147 33 50	14	1.5	3	1	0.7	N	0.3	5	300	N	100	1000	1.5	N	30	15	50	30	10	N
88WR019	F-003298	65 00 38	147 33 58	14	0.7	0.2	0.15	2	N	0.02	5	N	N	<10	1000	3	N	N	N	N	<5	30	N
88WR020	F-003299	65 00 36	147 34 22	14	2	7	1.5	2	N	0.5	<0.5	N	N	15	2000	<1	N	N	20	20	5	30	N
88WR022	F-003300	65 22 42	149 32 42	14	1.5	5	1.5	3	N	0.5	N	N	N	50	1500	3	N	N	20	100	15	30	N
88WR023	F-003301	65 22 50	149 32 48	14	2	7	1.5	3	N	0.5	N	N	N	30	1500	3	N	N	30	150	30	50	N
88WR024	F-003302	65 22 55	149 32 50	14	1	5	1	3	<0.2	0.5	N	N	N	N	1500	1.5	N	N	20	20	20	30	N
88WR025	F-003303	65 22 58	149 32 58	14	2	5	2	3	<0.2	0.5	N	N	N	30	1500	3	N	N	N	100	30	30	N
88WR026	F-003304	65 23 06	149 32 55	14	7	7	3	2	<0.2	0.7	N	N	N	<10	2000	<1	N	N	70	200	5	30	N
88WR027	F-003305	65 23 10	149 32 56	14	3	7	1.5	3	<0.2	0.5	N	N	N	15	2000	1.5	N	N	30	30	20	50	N
88WR028	F-003306	65 23 16	149 33 19	14	2	5	1.5	3	<0.2	0.5	N	N	N	50	2000	3	N	N	30	50	30	50	N
88WR029	F-003307	65 23 17	149 33 28	14	2	7	1.5	5	<0.2	0.3	N	N	N	70	2000	2	N	N	30	100	30	50	N
88WR030	F-003308	65 23 18	149 33 33	14	0.15	5	1	1	N	0.5	N	N	N	50	1000	<1	N	N	50	200	20	30	N
88WR031	F-003309	65 23 19	149 33 47	13	0.15	7	1.5	0.7	N	0.5	N	N	N	10	700	1	N	N	30	200	70	30	N
88WR032	F-003310	65 21 23	149 56 13	14	3	7	2	2	N	0.5	N	N	N	<10	2000	3	N	N	30	150	30	30	N
88WR033	F-003311	65 21 28	149 56 20	14	2	5	1.5	2	N	0.3	N	N	N	<10	2000	3	N	N	20	150	15	30	N
88WR035	F-003312	65 21 42	149 56 22	14	1.5	5	1.5	3	<0.2	0.3	3	N	N	<10	2000	3	N	N	20	150	7	30	N
88WR036	F-003313	65 21 23	149 56 23	14	2	5	1.5	3	<0.2	0.5	N	N	N	N	2000	2	N	N	20	150	10	30	N
88WR037A	F-003314	65 21 07	149 56 31	14	5	5	2	2	<0.2	0.3	N	N	N	<10	1500	2	N	N	30	500	7	20	N
88WR037B	F-003315	65 21 07	149 56 31	12	3	3	2	2	<0.2	0.5	N	N	N	10	1000	1.5	N	N	15	200	50	20	N
88WR038	F-003316	65 21 04	149 56 33	12	5	5	2	0.3	<0.2	0.3	N	N	N	<10	1000	1	N	N	15	200	50	20	N
88WR039	F-003317	65 01 46	147 28 48	14	3	5	1.5	2	N	0.3	N	N	N	10	1500	2	N	N	15	50	<5	20	N
88WR040	F-003318	65 01 45	147 28 12	14	0.3	1.5	0.5	3	N	0.2	N	500	N	30	1500	5	N	N	N	N	7	30	N
88WR041A	F-003319	65 02 47	147 28 18	13	15	7	1	2	N	0.5	N	N	N	10	50	1.5	N	N	20	150	50	30	N
88WR041B	F-003320	65 02 47	147 28 18	13	0.1	1.5	0.02	N	N	0.2	N	N	N	10	50	<1	N	N	N	30	20	<5	N
88WR042	F-003321	65 02 07	147 29 30	14	3	5	1.5	2	N	0.5	N	N	N	20	2000	1.5	N	N	20	30	5	30	N
88WR043A	F-003322	65 02 57	147 30 58	14	0.05	5	0.15	<0.2	<0.2	0.5	N	N	N	30	300	1	N	N	15	70	20	30	N
88WR043B	F-003323	65 02 57	147 30 58	13	0.05	3	0.1	N	N	0.3	N	700	N	30	500	<1	N	N	N	30	15	20	N
88WR043C	F-003324	65 02 57	147 30 58	13	0.05	1.5	0.15	N	N	0.2	7	5000	N	150	700	2	N	N	N	15	<5	5	N
88WR044	F-003325	65 02 28	147 32 25	13	<0.05	3	0.7	0.5	N	0.3	N	N	N	100	700	1.5	N	N	<10	100	30	30	N
88WR045C	F-003326	65 09 40	147 56 18	12	0.15	3	0.7	2	N	0.3	N	N	N	10	300	1.5	N	N	10	30	20	15	N
88WR045D	F-003327	65 09 40	147 56 18	13	3	7	5	2	N	>1	N	N	N	N	1000	<1	N	N	70	1000	20	30	N
88WR045E	F-003328	65 09 40	147 56 18	13	5	5	2	2	N	0.7	N	N	N	N	20	<1	N	N	30	500	70	20	N
88WR045F	F-003329	65 09 40	147 56 18	13	2	7	2	5	N	>1	N	N	N	N	30	<1	N	N	50	10	20	30	N
88WR046	F-003330	65 10 14	147 56 19	13	0.15	5	0.7	0.2	<0.2	0.3	N	N	N	100	500	3	N	N	15	70	30	30	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
88WR018	<50	700	N	N	5	700	N	20	N	1000	N	150	<20	20	700	100	N	650	N	40	34	>2000
88WR019	N	150	N	N	5	100	N	N	N	300	N	10	N	N	N	50	N	N	N	0.1	N	5
88WR020	50	700	N	N	<5	70	N	20	N	500	N	150	<20	30	500	150	N	20	N	2.5	4	940
88WR022	50	700	N	20	15	70	N	15	N	500	N	100	N	30	N	200	N	110	N	0.1	N	55
88WR023	50	700	N	<20	30	50	N	20	N	500	N	150	N	30	N	200	--	10	N	N	N	80
88WR024	<50	700	N	<20	10	70	N	10	N	700	N	100	N	20	N	70	--	10	N	N	N	60
88WR025	70	500	N	<20	<5	70	N	15	N	700	N	150	N	30	N	200	N	100	N	N	N	10
88WR026	<50	700	N	<20	30	30	N	20	N	700	N	150	N	30	N	50	--	N	N	0.1	N	100
88WR027	50	1000	N	<20	10	50	N	15	N	1000	N	150	N	30	N	100	--	N	N	N	N	65
88WR028	50	700	N	<20	15	70	N	15	N	700	N	100	N	30	N	150	--	10	N	N	N	80
88WR029	70	700	N	<20	20	70	N	15	N	1000	N	100	N	30	N	200	--	20	N	N	N	75
88WR030	<50	500	N	<20	100	30	N	15	N	N	N	150	N	30	<200	200	N	20	N	0.1	N	110
88WR031	<50	700	N	<20	100	20	N	20	N	N	N	150	N	30	200	200	N	20	N	0.2	N	150
88WR032	50	700	N	<20	30	50	N	20	N	700	N	150	N	30	N	150	--	N	N	0.1	N	65
88WR033	50	700	N	<20	30	70	N	15	N	700	N	150	N	30	N	200	--	N	N	N	N	40
88WR035	100	700	N	20	50	70	N	20	N	700	N	100	N	30	N	200	N	N	N	0.1	N	40
88WR036	50	700	N	20	30	70	N	15	N	700	N	150	N	30	N	200	--	20	N	0.1	N	50
88WR037A	50	700	N	<20	50	30	N	20	N	700	N	150	N	30	N	150	--	N	N	0.1	N	40
88WR037B	<50	700	N	<20	70	20	N	20	N	200	N	200	N	50	<200	150	N	10	N	0.2	N	130
88WR038	<50	1000	N	<20	70	15	N	15	N	200	N	200	N	30	<200	150	N	50	N	0.2	N	90
88WR039	<50	1000	N	<20	5	30	N	20	N	500	N	150	<20	30	N	150	--	10	N	0.1	N	65
88WR040	<50	200	N	<20	<5	50	N	5	N	300	N	30	N	30	N	150	0.2	740	N	0.3	8	15
88WR041A	<50	700	N	<20	70	50	N	20	20	700	N	100	N	50	N	500	N	140	N	N	N	5
88WR041B	N	70	N	N	5	<10	N	<5	N	N	N	70	<20	<10	N	300	N	40	N	N	6	10
88WR042	50	700	N	<20	<5	50	N	20	N	700	N	150	20	30	N	200	N	10	N	0.1	N	60
88WR043A	<50	700	N	<20	15	50	N	20	N	N	N	150	20	15	<200	150	N	30	N	1	8	120
88WR043B	<50	20	N	N	<5	30	N	7	N	N	N	150	20	N	N	70	0.1	1000	N	N	12	5
88WR043C	<50	15	N	N	<5	300	<100	7	15	N	N	100	<20	<10	N	70	1.7	>2000	N	N	34	N
88WR044	<50	150	N	<20	20	50	N	10	N	N	N	100	N	15	<200	300	N	30	N	N	16	45
88WR045C	<50	200	N	<20	20	20	N	7	N	N	N	70	N	15	<200	300	--	N	N	N	N	35
88WR045D	<50	700	N	20	200	10	N	20	N	300	N	150	N	30	<200	200	--	N	N	N	N	45
88WR045E	<50	1000	N	<20	70	30	N	20	N	300	N	150	N	30	N	70	--	20	N	N	N	45
88WR045F	<50	1000	N	30	15	30	N	20	N	300	N	300	N	50	<200	200	N	N	N	N	N	140
88WR046	<50	500	N	20	30	70	N	15	N	N	N	100	N	30	N	150	--	10	N	N	N	70

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
88WR047	F-003331	65 21 42	147 57 42	14	0.05	1	0.07	N	N	0.5	N	N	N	10	70	N	N	N	N	15	5	<5	N
88WR048B	F-003332	65 10 43	147 58 44	13	1	7	2	5	N	0.7	N	N	N	20	500	1	N	N	50	150	150	30	N
88WR048C	F-003333	65 10 43	147 58 44	12	20	5	0.7	<0.2	N	0.15	N	N	N	N	50	1	N	N	20	150	30	15	N
88WR048E	F-003334	65 10 43	147 58 44	12	3	5	0.15	N	N	0.5	N	N	N	10	20	<1	N	N	15	200	50	30	N
88WR049	F-003335	65 11 11	147 58 37	13	0.1	1.5	0.2	1	N	0.15	N	N	N	10	500	<1	N	N	N	30	15	10	N
88WR049A	F-003336	65 11 11	147 58 37	14	0.05	3	0.15	N	N	0.2	N	N	N	30	150	1	N	N	N	50	20	7	N
88WR049B	F-003337	65 11 11	147 58 37	13	0.07	1.5	0.07	N	N	0.07	N	N	N	10	70	<1	N	N	<10	<10	20	<5	N
88WR052	F-003338	65 23 43	149 58 19	13	0.2	5	1.5	1	<0.2	0.5	N	N	N	100	500	<1	N	N	30	150	30	30	N
88WR053	F-003339	65 22 59	149 51 30	12	0.05	7	0.15	N	0.3	0.07	N	300	N	15	5000	1	N	N	N	30	50	7	N
88WR054	F-003340	65 18 04	149 42 28	12	0.3	3	1	1.5	<0.2	0.2	N	N	N	30	1500	<1	N	N	10	200	20	10	N
88WR055	F-003341	65 16 52	149 36 31	12	1	3	1.5	1.5	<0.2	0.2	N	N	N	30	1000	<1	N	N	15	200	30	15	N
88WR056	F-003342	65 16 08	149 36 02	12	0.7	3	1	1.5	<0.2	0.2	<0.5	N	N	30	1000	<1	N	N	15	200	20	15	N
88WR057	F-003343	65 17 41	149 31 18	12	1	3	1.5	2	<0.2	0.2	N	N	N	30	1500	1	N	N	20	200	30	20	N
88WR058	F-003344	65 18 16	149 35 06	12	0.07	5	1.5	3	<0.2	0.3	N	N	N	30	1500	<1	N	N	20	300	30	30	N
88WR060	F-003345	65 20 13	149 33 22	13	0.15	5	1.5	2	<0.2	0.5	N	N	N	70	1500	1.5	N	N	20	200	50	50	N
88WR060B	F-003346	65 20 13	149 33 22	14	<0.05	2	0.05	N	N	0.07	N	N	N	20	300	<1	N	N	N	30	5	<5	N
88WR061A	F-003347	65 23 03	149 53 55	12	<0.05	0.15	0.05	N	N	0.1	N	N	N	10	70	<1	N	N	N	20	<5	N	N
88WR061B	F-003348	65 23 03	149 53 55	12	<0.05	3	0.15	<0.2	<0.2	0.3	N	N	N	50	700	<1	N	N	<10	100	15	10	N
88WR061D	F-003349	65 23 03	149 53 55	12	N	3	0.5	0.5	<0.2	0.5	N	N	N	70	1000	1	N	N	20	200	50	20	N
88WR062	F-003350	65 24 00	149 10 00	13	<0.05	3	0.7	1.5	<0.2	0.5	N	N	N	100	3000	1	N	N	15	150	50	20	N
88WR064A	F-003351	65 24 18	149 50 28	13	<0.05	0.7	0.15	N	N	0.07	N	N	N	10	2000	<1	N	N	N	20	30	<5	N
88WR064B	D-320175	65 24 18	149 50 28	14	2	7	5	3	<0.2	0.5	N	N	N	<10	1000	<1	N	N	70	300	70	15	N
88WR065A	F-003353	65 24 46	149 50 35	12	0.05	0.7	0.15	N	N	0.07	N	N	N	10	700	<1	N	N	N	15	20	<5	N
88WR065B	F-003354	65 24 46	149 50 35	13	7	5	3	2	<0.2	1	N	N	N	<10	500	<1	N	N	50	300	100	20	N
88WR065C	F-003355	65 24 46	149 50 35	13	0.7	5	3	3	<0.2	1	N	N	N	15	3000	1	N	N	30	300	50	30	N
88WR065E	F-003356	65 24 46	149 50 35	14	1.5	7	3	2	<0.2	1	N	N	N	10	1000	1.5	N	N	30	200	50	30	N
88WR066	F-003357	65 28 10	149 32 33	12	0.05	3	0.15	N	N	0.07	N	N	N	<10	500	N	N	N	N	<10	50	<5	N
88WR067	F-003358	65 24 55	149 34 52	13	0.05	5	1	0.7	N	0.7	N	N	N	100	500	2	N	N	20	150	50	50	N
88WR068	F-003359	65 25 26	149 34 00	13	<0.05	5	1	0.7	N	0.7	1	N	N	100	500	2	N	N	10	150	30	50	N
88WR069	F-003360	65 25 06	149 34 00	13	0.07	5	1	1	N	1	N	N	N	150	500	3	N	N	<10	150	30	50	N
88WR070	F-003361	65 24 55	149 33 52	13	0.2	5	1	1.5	N	1	N	N	N	100	500	2	N	N	<10	150	30	50	N
88WR071	F-003362	65 24 49	149 34 17	13	0.1	5	1	1.5	N	0.7	N	N	N	100	500	2	N	N	10	150	30	50	N
88WR072	F-003363	65 26 33	149 32 40	14	0.05	2	0.05	<0.2	N	0.02	N	N	N	<10	30	<1	N	N	N	10	15	N	N
88WR073	F-003364	65 25 37	149 32 11	13	<0.05	3	1	0.7	N	0.3	N	N	N	70	500	2	N	N	15	150	20	30	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
88WR047	N	150	N	N	<5	<10	N	<5	N	N	N	30	N	N	N	200	--	N	N	N	N	5
88WR048B	<50	700	N	<20	70	20	N	20	N	<100	N	150	N	30	<200	150	--	N	N	N	N	95
88WR048C	<50	1000	N	N	30	15	N	10	N	N	N	100	N	20	N	50	--	N	N	N	N	35
88WR048E	<50	700	N	N	30	15	N	15	N	N	N	150	N	20	N	100	--	N	N	N	N	50
88WR049	<50	150	N	N	<5	20	N	5	N	N	N	30	N	10	N	200	--	N	N	N	N	10
88WR049A	<50	200	N	<20	7	15	N	7	N	N	N	70	N	15	N	200	--	N	N	N	N	30
88WR049B	N	150	N	N	7	50	N	N	N	N	N	30	N	<10	N	70	--	N	N	N	N	5
88WR052	<50	500	N	<20	100	30	N	15	N	<100	N	150	N	30	<200	200	--	10	N	0.1	N	100
88WR053	<50	20	N	<20	<5	15	N	10	N	300	N	200	N	20	N	30	N	600	N	0.1	30	45
88WR054	<50	300	N	<20	70	15	N	10	N	N	N	150	N	20	<200	100	--	10	N	0.4	N	100
88WR055	<50	500	N	<20	70	20	N	10	N	150	N	100	N	20	<200	150	--	10	N	0.2	N	75
88WR056	<50	500	N	<20	70	15	N	7	N	<100	N	100	N	15	<200	150	--	N	N	0.5	N	65
88WR057	<50	500	N	<20	70	15	N	10	N	<100	N	100	N	20	N	150	--	N	N	0.4	N	80
88WR058	<50	150	N	<20	100	20	N	15	N	N	N	100	N	15	<200	150	--	N	N	0.1	N	90
88WR060	50	500	N	<20	70	30	N	20	N	N	N	150	N	30	<200	150	N	20	N	0.2	N	150
88WR060B	N	20	N	N	15	N	N	<5	N	N	N	30	N	<10	N	150	N	40	N	0.1	2	50
88WR061A	<50	30	N	N	<5	N	N	N	N	N	N	20	N	<10	N	200	--	N	N	N	N	10
88WR061B	<50	50	N	20	5	300	N	7	N	<100	N	100	N	20	200	500	N	40	N	0.3	6	400
88WR061D	<50	200	N	<20	70	30	N	15	N	200	N	150	N	20	<200	150	N	10	N	0.1	6	130
88WR062	<50	150	N	<20	50	20	N	15	N	<100	N	200	N	20	<200	150	--	N	N	N	2	75
88WR064A	N	100	N	N	30	<10	N	5	N	N	N	70	N	<10	N	30	--	N	N	N	2	25
88WR064B	<50	1500	N	<20	300	20	N	15	10	200	N	200	N	20	<200	150	N	20	N	0.2	4	35
88WR065A	N	100	N	N	20	<10	N	<5	N	N	N	70	N	N	N	20	--	N	N	N	N	45
88WR065B	N	1000	N	<20	100	30	N	20	N	300	N	150	N	30	N	70	--	N	N	0.2	N	30
88WR065C	<50	1000	N	20	50	50	N	30	N	200	N	150	N	30	<200	100	N	40	N	1.4	N	150
88WR065E	<50	1500	N	<20	50	30	N	20	N	300	N	150	N	50	<200	70	N	60	N	0.4	N	70
88WR066	<50	100	N	N	10	10	N	<5	N	N	N	70	N	<10	N	15	N	40	N	0.2	36	65
88WR067	50	700	N	20	30	20	N	15	N	N	N	70	N	30	<200	100	N	20	N	N	4	80
88WR068	50	500	N	20	30	200	N	15	N	N	N	100	N	30	<200	150	N	40	1	1.4	6	210
88WR069	50	1000	N	20	7	50	N	20	N	100	N	100	N	30	<200	100	--	N	N	N	2	35
88WR070	50	200	N	20	<5	50	N	20	N	<100	N	150	N	30	N	200	--	N	1	N	2	20
88WR071	50	700	N	<20	15	30	N	15	N	<100	N	100	N	30	<200	150	N	10	N	N	4	30
88WR072	N	150	N	N	5	10	N	N	N	N	N	10	N	15	N	20	--	N	N	N	N	15
88WR073	50	1500	N	<20	20	20	N	10	N	N	N	70	N	20	N	100	--	N	N	N	2	40

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
88WR074	F-003365	65 25 10	149 31 50	13	0.15	7	0.7	2	N	0.7	N	N	N	100	500	3	N	N	10	150	50	50	N
88WR075	F-003366	65 20 32	149 50 52	13	0.2	5	1	2	<0.2	0.5	N	N	N	100	1000	1.5	N	N	20	200	50	50	N
88WR076	F-003367	65 19 12	149 50 54	13	<0.05	0.7	0.03	N	<0.2	0.15	N	N	N	30	300	N	N	N	N	15	7	N	N
88WR077A	F-003368	65 18 37	149 50 20	12	0.15	5	1.5	1.5	<0.2	0.7	N	N	N	70	1500	1	N	N	20	150	50	30	N
88WR077B	F-003369	65 18 38	149 50 20	12	0.1	5	1.5	1.5	N	0.5	N	N	N	50	1500	<1	N	N	20	500	30	20	N
88WR078	D-320176	65 22 00	149 47 33	14	2	10	3	3	<0.2	>1	N	N	N	<10	2000	N	N	N	50	150	300	30	N
88WR078B	F-003371	65 22 00	149 47 33	13	0.15	7	2	3	<0.2	1	N	N	N	50	700	1	N	N	20	200	20	30	N
88WR079	F-003372	65 42 15	147 00 03	13	<0.05	2	0.07	N	<0.2	0.07	0.5	N	N	20	700	<1	N	N	N	30	15	N	N
88WR083C	F-003373	65 42 12	147 01 32	13	0.3	2	0.7	0.2	0.3	0.5	N	N	N	30	1000	1	N	N	<10	200	30	7	N
88WR084	F-003374	65 42 54	147 01 49	13	<0.05	10	1.5	<0.2	N	0.3	N	N	N	30	150	<1	N	N	20	70	50	30	N
88WR085	F-003375	65 43 32	147 01 07	13	<0.05	0.7	0.7	N	N	0.7	0.7	N	N	150	>5000	1	N	N	N	150	70	20	N
88WR086	F-003376	65 45 02	147 06 14	12	0.3	3	1	1.5	N	0.5	N	N	N	70	700	<1	N	N	20	200	30	20	N
88WR087A	F-003377	65 41 52	147 09 22	12	0.15	5	1.5	1.5	N	0.7	N	N	N	200	700	1.5	N	N	20	150	20	30	N
88WR087B	F-003378	65 41 52	147 09 22	12	<0.05	3	0.07	N	N	0.07	N	N	N	10	100	<1	N	N	10	10	50	<5	N
88WR088	F-004047	65 33 06	147 08 20	13	<0.05	5	1.5	1	<0.2	0.5	N	N	N	100	700	1.5	N	N	15	200	30	50	N
88WR089A	F-004048	65 10 50	147 58 30	13	10	7	1.5	N	N	0.1	N	N	N	<10	500	1	N	N	30	30	100	30	N
88WR089B	F-004049	65 10 50	147 58 30	13	15	10	3	N	N	0.15	N	N	N	<10	150	N	N	N	30	100	7	15	N
88WR090	F-004050	65 11 11	147 58 30	13	<0.05	3	0.7	0.2	<0.2	0.7	N	N	N	200	700	1	N	N	20	150	15	30	N
88WR091A	F-004051	65 11 10	147 58 39	13	0.1	10	2	0.3	<0.2	1	N	N	N	100	2000	1	N	N	50	500	50	70	N
88WR091B	F-004052	65 11 10	147 58 39	13	<0.05	7	0.1	N	N	0.5	N	N	N	50	300	N	N	N	<10	70	50	<5	N
88WR092	F-004053	65 11 09	147 59 32	13	0.05	2	0.2	<0.2	<0.2	1	N	N	N	50	300	<1	N	N	20	100	30	20	N
88WR093	F-004054	65 10 54	148 00 11	13	<0.05	3	0.3	N	<0.2	0.5	N	N	N	100	500	1	N	N	10	50	15	20	N
88WR094	F-004055	65 10 52	148 01 48	13	<0.05	1	0.15	N	<0.2	0.2	N	N	N	50	200	<1	N	N	N	10	10	<5	N
88WR095	F-004056	65 11 00	148 02 15	13	<0.05	2	0.15	N	<0.2	0.3	N	N	N	50	300	1	N	N	<10	20	15	<5	N
88WR096	F-004057	65 11 04	148 02 32	13	<0.05	5	0.2	0.5	<0.2	0.3	N	N	N	70	700	1.5	N	N	30	70	30	20	N
88WR097	F-004058	65 10 55	148 03 00	13	0.05	5	1.5	1	<0.2	0.7	N	N	N	100	1000	1.5	N	N	30	150	20	50	N
88WR098	F-004059	65 10 47	148 03 11	13	<0.05	2	0.7	1	<0.2	0.15	N	N	N	50	200	<1	N	N	<10	20	10	15	N
88WR099	F-004060	65 10 43	148 03 49	13	<0.05	1	0.05	1	<0.2	0.15	N	N	N	20	150	<1	N	N	<10	15	<5	10	N
88WR100	F-004061	65 10 41	148 04 20	13	<0.05	1	0.1	0.2	<0.2	0.3	N	N	N	50	150	<1	N	N	<10	15	5	10	N
88WR101	F-004062	65 18 07	149 07 42	12	<0.05	7	0.2	N	<0.2	0.5	N	N	N	70	500	1	N	N	30	30	500	15	N
88WR106	F-004064	65 11 40	149 51 28	12	1	3	1	0.7	1.5	0.5	N	N	N	50	1000	<1	N	N	20	70	30	15	N
88WR107	F-004065	65 12 27	149 32 05	12	0.15	3	1.5	1.5	<0.2	0.7	N	N	N	50	1000	<1	N	N	20	200	20	30	N
88WR108	F-004066	65 08 54	149 21 22	12	0.1	2	0.7	1.5	<0.2	0.5	N	N	N	50	500	<1	N	N	20	150	50	20	N
88WR109	F-004067	65 09 23	149 24 30	13	0.5	3	1.5	1	0.2	0.7	1	N	N	100	1000	1	N	N	20	200	200	50	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
88WR074	50	300	N	20	10	30	N	15	N	100	N	100	N	30	N	100	--	N	N	N	N	50
88WR075	<50	200	N	<20	50	30	N	15	N	150	N	150	N	20	<200	100	N	N	N	0.2	N	130
88WR076	<50	70	N	<20	<5	10	N	<5	N	200	N	50	N	N	N	300	N	60	N	N	N	50
88WR077A	<50	1000	N	20	70	30	N	15	N	N	N	150	N	30	<200	300	--	N	N	N	N	70
88WR077B	<50	500	N	20	70	20	N	15	N	N	N	150	N	20	N	200	--	N	N	N	N	35
88WR078	N	1500	N	N	100	<10	N	20	N	300	N	500	N	30	<200	150	N	10	N	0.2	4	90
88WR078B	<50	200	N	20	70	10	N	20	N	N	N	150	N	30	N	200	--	160	N	0.1	2	40
88WR079	N	15	N	N	<5	10	N	<5	N	N	N	150	N	15	N	70	N	50	N	N	2	N
88WR083C	<50	500	N	<20	30	<10	N	7	N	N	N	200	N	30	<200	150	--	N	N	0.2	N	75
88WR084	<50	1000	N	<20	50	10	N	7	N	N	N	100	N	20	300	150	N	N	N	0.2	N	220
88WR085	<50	50	30	20	30	20	N	10	N	N	N	1500	N	20	N	150	N	N	N	N	10	15
88WR086	<50	700	N	<20	50	15	N	10	N	N	N	150	N	20	N	200	--	N	N	0.2	N	40
88WR087A	50	200	N	30	50	10	N	15	N	N	N	200	N	30	<200	500	--	N	N	0.2	N	60
88WR087B	N	200	7	N	15	20	N	N	N	N	N	30	N	<10	N	70	N	20	N	0.1	N	45
88WR088	70	200	N	<20	50	20	N	15	N	N	N	100	N	20	N	150	N	10	N	N	N	80
88WR089A	N	>5000	N	N	50	200	N	10	N	<100	N	100	N	20	N	10	N	10	1	0.5	N	50
88WR089B	N	5000	N	N	50	70	N	10	N	500	N	100	N	15	N	20	N	20	N	0.2	N	50
88WR090	<50	300	N	20	30	<10	N	20	N	<100	N	100	N	30	N	1000	N	20	N	N	N	50
88WR091A	50	500	N	<20	50	20	N	50	N	N	N	200	N	50	N	200	N	10	N	N	N	65
88WR091B	N	200	N	N	30	<10	N	15	N	N	N	150	N	10	N	200	N	10	N	N	N	45
88WR092	N	300	N	N	30	<10	N	15	N	N	N	200	N	<10	N	150	N	10	N	0.1	N	45
88WR093	<50	1000	N	N	20	10	N	10	N	N	N	70	N	20	N	300	N	10	N	N	N	30
88WR094	N	50	N	N	10	10	N	5	N	N	N	30	N	10	N	300	N	10	N	N	N	20
88WR095	N	200	N	N	15	10	N	5	N	N	N	50	N	15	N	200	N	10	N	N	N	40
88WR096	N	200	N	N	50	20	N	10	N	N	N	100	N	20	N	150	N	10	N	0.1	N	55
88WR097	70	200	N	<20	50	20	N	20	N	100	N	100	N	30	N	200	N	20	N	N	N	60
88WR098	N	200	N	N	15	<10	N	7	N	N	N	30	N	15	N	150	N	N	N	N	N	40
88WR099	N	50	N	N	N	<10	N	5	N	N	N	30	N	<10	N	150	N	N	N	N	N	15
88WR100	N	100	N	N	10	10	N	5	N	N	N	20	N	20	N	1000	N	N	N	N	N	10
88WR101	<50	200	N	N	70	20	N	7	N	N	N	100	N	30	200	1000	N	10	N	0.9	N	170
88WR106	N	300	N	N	70	10	N	10	N	1000	N	100	N	50	N	100	N	20	N	0.2	N	90
88WR107	N	200	N	N	100	<10	N	15	N	N	N	100	N	20	N	150	N	10	N	0.3	N	110
88WR108	N	500	N	N	50	30	N	15	N	N	N	100	N	20	N	150	N	20	N	N	N	75
88WR109	70	2000	N	<20	70	30	N	20	N	300	N	150	N	20	N	150	N	N	N	0.2	2	95

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
88WR110A	F-004068	65 10 04	149 28 09	12	3	5	1.5	1	<0.2	>1	N	N	N	<10	300	N	N	N	70	150	200	20	N
88WR110B	F-004069	65 10 04	149 28 09	12	3	7	2	0.7	N	>1	N	N	N	10	300	N	N	N	30	2000	150	20	N
88WR110D	F-004070	65 10 04	149 28 09	14	3	5	1	<0.2	<0.2	>1	N	N	N	10	200	N	N	N	30	700	200	20	N
88WR110E	F-004071	65 10 04	149 28 09	13	5	5	3	1	N	1	N	N	N	<10	150	N	N	N	100	1000	200	20	N
88WR110F	F-004072	65 10 04	149 28 09	13	5	5	2	0.3	N	>1	N	N	N	10	150	N	N	N	30	1500	200	15	N
88WR111	F-004073	65 12 19	149 24 51	12	<0.05	0.1	0.07	N	0.2	0.15	N	N	N	30	300	N	N	<20	N	10	5	N	N
88WR112	F-004074	65 13 38	149 28 32	12	<0.05	15	0.15	N	<0.2	0.3	N	N	N	30	1000	1	N	<20	<10	70	100	50	N
88WR113	F-004075	65 12 16	149 31 17	12	0.1	5	1.5	1.5	<0.2	0.5	N	N	N	50	2000	<1	N	N	20	300	70	20	N
88WR114	F-004076	65 10 36	149 37 17	12	<0.05	0.1	0.03	N	<0.2	0.2	N	N	N	20	150	N	N	N	N	<10	<5	N	N
88WR115	F-004077	65 09 47	149 42 00	12	<0.05	10	0.7	N	0.2	0.5	N	N	N	30	1500	1	N	N	20	150	50	30	N
88WR116	F-004078	65 06 58	149 56 47	12	<0.05	3	0.5	N	<0.2	0.5	N	N	N	50	1000	1	N	N	<10	70	20	15	N
88WR117	F-004079	65 06 03	149 56 10	12	<0.05	1	0.05	<0.2	<0.2	0.1	N	N	N	20	150	<1	N	N	<10	20	500	<5	N
88WR118	F-004080	65 01 02	149 52 59	12	20	N	10	N	N	0.003	N	N	N	N	<20	N	N	N	N	N	N	N	N
88WR119	F-004081	65 10 28	149 34 50	12	0.07	1	0.02	N	<0.2	0.1	N	N	N	20	100	N	N	N	N	15	<5	5	N
88WR120	F-004082	65 19 04	149 55 02	12	0.7	2	1.5	N	<0.2	0.15	N	N	N	<10	100	<1	N	<20	10	15	30	N	N
88WR121A	F-004083	65 20 36	149 50 48	12	0.07	7	1.5	1	<0.2	1	N	N	N	70	1000	1	N	N	20	200	50	30	N
88WR121B	F-004084	65 20 36	149 50 48	14	0.05	2	0.2	3	<0.2	0.15	N	1000	N	20	1000	3	N	N	<10	<10	15	50	N
88WR122A	F-004085	65 21 24	149 46 20	14	0.05	2	0.3	3	0.2	0.2	5	1500	N	50	1000	5	N	N	<10	10	15	50	N
88WR122C	F-004086	65 21 24	149 46 20	14	<0.05	1.5	0.3	3	<0.2	0.3	7	<200	N	70	700	7	N	N	N	10	10	30	N
88WR122D	F-004088	65 21 24	149 46 20	14	<0.05	<0.05	0.05	N	<0.2	0.05	N	N	N	20	500	N	N	N	N	<10	<5	N	N
88WR123	F-004089	65 23 23	149 46 42	13	0.1	5	2	0.7	<0.2	0.7	N	N	N	100	500	1	N	N	20	150	50	30	N
88WR124	F-004090	65 23 31	149 46 29	13	<0.05	10	0.5	0.7	<0.2	0.5	N	N	N	150	700	1.5	N	N	N	150	500	50	N
88WR125	F-004091	65 25 38	149 49 38	13	0.5	5	2	1	<0.2	0.7	N	N	N	100	300	1	N	N	20	200	30	30	N
88WR126	F-004092	65 23 59	149 44 00	12	<0.05	0.5	0.02	N	<0.2	0.02	N	N	N	30	200	N	N	N	<10	<10	<5	N	N
88WR127	F-004093	65 21 21	149 35 35	12	0.5	3	1	0.5	<0.2	0.5	1.5	N	N	15	2000	<1	N	N	15	150	200	15	N
88WR128	F-004094	65 21 32	149 36 24	12	5	5	2	0.7	0.3	0.7	2	N	N	10	>5000	1	N	N	15	500	100	30	N
88WR129	F-004095	65 27 14	149 03 10	12	<0.05	3	0.1	N	<0.2	0.1	N	N	N	70	1500	1	N	N	N	30	100	10	N
88WR130	F-004096	65 27 25	149 02 56	12	20	N	0.7	N	N	0.015	N	N	N	N	30	N	N	N	N	N	10	N	N
89WR1	F-004097	65 01 28	147 38 51	13	20	5	2	1	0.2	0.5	N	N	N	N	300	<1	N	N	70	2000	30	20	N
89WR5	F-004098	65 10 18	149 11 08	14	<0.05	2	0.7	0.5	<0.2	0.7	1	N	N	2000	1000	1	<10	N	N	200	20	30	N
89WR6	F-004099	65 04 12	149 20 32	13	3	5	5	1.5	<0.2	1	N	N	N	10	300	N	N	N	50	500	50	30	N
89WR7	F-004100	65 03 28	149 27 22	12	15	N	10	<0.2	N	0.007	N	N	N	10	50	N	N	N	N	N	<5	N	N
LA0029R	CDD250	65 32 08	147 19 50	0	0.05	0.5	0.05	--	--	0.07	<0.5	N	N	15	70	7	N	N	N	N	7	--	--
LA0030R1	CDD251	65 32 15	147 20 00	0	0.2	0.7	0.3	--	--	0.15	N	N	N	50	300	<1	N	N	5	20	7	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
88WR110A	<50	3000	N	<20	70	<10	N	30	N	700	N	100	N	30	N	100	N	50	N	0.4	10	90
88WR110B	N	5000	N	N	100	<10	N	30	N	500	N	150	N	20	N	70	N	190	N	1.1	14	90
88WR110D	N	2000	N	20	70	<10	N	30	N	<100	N	150	N	30	N	100	N	40	N	0.3	4	100
88WR110E	N	1500	N	N	150	<10	N	30	N	500	N	150	N	20	N	50	N	20	N	0.2	N	55
88WR110F	N	5000	N	<20	100	<10	N	20	N	500	N	200	N	20	N	50	N	80	N	0.4	2	70
88WR111	N	10	N	N	N	N	N	N	N	N	N	30	N	<10	N	150	N	N	N	N	N	N
88WR112	N	20	N	N	50	20	N	15	N	N	N	150	N	20	N	70	N	20	N	1.4	4	1100
88WR113	N	200	7	N	100	20	N	15	N	N	N	150	N	20	N	100	N	20	N	0.1	4	95
88WR114	N	10	N	N	N	N	N	N	N	N	N	20	N	<10	N	300	N	N	N	N	N	N
88WR115	N	100	N	N	100	15	N	15	N	N	N	100	N	30	300	100	N	10	N	0.2	N	200
88WR116	N	70	N	N	30	<10	N	15	N	N	N	150	N	15	N	100	N	90	N	0.1	4	60
88WR117	N	100	N	N	10	<10	N	N	N	N	N	30	N	<10	N	100	N	N	N	0.1	N	50
88WR118	N	30	N	N	N	N	N	N	N	100	N	N	N	N	N	N	N	N	N	0.1	N	10
88WR119	N	100	N	N	N	N	N	N	N	N	N	30	N	<10	N	100	N	N	N	N	N	15
88WR120	N	1000	N	N	50	<10	N	5	N	N	N	30	N	15	N	1000	N	N	N	0.4	N	65
88WR121A	N	300	N	N	100	<10	N	20	N	N	N	200	N	30	<200	150	N	10	N	N	4	120
88WR121B	70	100	<5	N	N	15	N	5	N	500	N	15	N	20	N	200	N	1700	N	0.1	40	45
88WR122A	50	30	N	<20	70	100	N	5	N	300	N	20	N	10	500	150	N	>2000	N	0.2	40	500
88WR122C	50	30	N	<20	20	150	N	7	10	200	N	30	N	15	N	150	N	240	N	0.7	70	20
88WR122D	N	<10	N	N	N	N	N	N	N	N	N	150	N	<10	N	20	N	N	N	N	--	N
88WR123	50	150	N	N	100	10	N	20	N	N	N	150	N	30	N	150	N	N	N	0.2	--	85
88WR124	N	30	7	N	30	20	N	30	N	<100	N	150	N	30	N	150	N	50	N	0.5	46	90
88WR125	N	1000	N	N	70	20	N	15	N	N	N	150	N	30	N	200	N	10	N	0.7	N	110
88WR126	N	<10	N	N	N	N	N	7	N	N	N	10	N	<10	N	15	N	150	N	0.4	2	50
88WR127	N	200	N	N	50	<10	N	15	N	150	N	200	N	30	N	150	N	10	N	0.3	N	170
88WR128	70	1500	N	20	70	10	N	20	N	1500	N	200	N	70	N	30	N	10	N	0.6	N	65
88WR129	N	<10	N	N	20	10	N	7	N	N	N	100	N	10	N	50	N	30	N	0.3	6	110
88WR130	N	50	N	N	10	<10	N	N	N	N	N	<10	N	<10	N	10	N	N	N	0.7	N	60
89WR1	70	1000	N	<20	500	20	N	15	N	3000	N	150	N	20	N	100	N	10	N	0.4	N	30
89WR5	50	200	N	<20	10	50	N	20	N	N	N	200	N	30	N	200	N	50	1	0.3	4	35
89WR6	N	1000	N	N	200	N	N	15	N	500	N	70	N	20	N	70	N	10	N	0.1	N	80
89WR7	N	20	N	N	N	N	N	N	N	200	N	<10	N	<10	N	N	N	10	N	0.2	N	10
LA0029R	100	100	N	<20	5	50	100	7	10	N	N	<10	N	150	N	70	--	N	N	0.1	38	15
LA0030R1	N	200	N	N	10	<10	<100	5	N	<100	N	30	N	<10	N	200	--	N	N	0.1	22	45

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
LA0030R2	CDD252	65 32 15	147 20 00	0	0.7	1	0.7	--	--	0.2	N	N	N	20	150	1	N	N	10	70	5	--	--
LA0031R	CDD253	65 32 17	147 20 11	0	0.2	3	2	--	--	0.5	N	N	N	50	2000	1	N	N	30	150	<5	--	--
LA0032R	CDD254	65 32 18	147 20 25	0	<0.05	1	0.15	--	--	0.1	N	N	N	50	200	<1	N	N	5	10	5	--	--
LA0033R	CDD255	65 32 37	147 21 50	0	0.05	0.7	0.1	--	--	0.1	N	N	N	50	200	1	N	N	<5	10	<5	--	--
LA0034R	CDD256	65 32 49	147 22 09	0	<0.05	1	0.2	--	--	0.1	<0.5	N	N	30	100	<1	N	N	5	10	<5	--	--
LA0035R	CDD257	65 33 17	147 22 05	0	1	5	1.5	--	--	0.3	N	N	N	200	500	1	N	N	20	100	20	--	--
LA0036R	CDD258	65 33 02	147 22 00	0	<0.05	1	0.15	--	--	0.15	N	N	N	20	200	N	N	N	5	10	<5	--	--
LA0037R	CDD259	65 33 48	147 22 34	0	N	2	0.7	--	--	0.3	1.5	N	N	200	500	1	N	N	5	50	20	--	--
LA0101R	CDD265	65 17 35	147 06 12	24	N	1	0.05	--	--	0.15	N	N	N	30	200	<1	N	N	7	20	5	--	--
LA0144R	CDD269	65 34 39	147 21 57	25	<0.05	1	0.1	--	--	0.15	N	N	N	30	300	<1	N	N	<5	<10	5	--	--
LA0150R	CDD270	65 30 14	147 24 15	28	<0.05	3	1	--	--	0.5	N	N	N	70	500	1	N	N	5	100	30	--	--
LA0154R	CDD272	65 25 28	147 09 10	24	<0.05	0.7	0.1	--	--	0.05	N	N	N	15	50	<1	N	N	<5	<10	150	--	--
LA0213R	CDD711	65 41 00	147 15 30	12	0.2	3	1	--	--	0.3	0.5	N	N	100	500	2	N	N	20	70	50	--	--
LA0214R1	CDD712	65 53 27	147 15 01	14	10	0.15	0.15	--	--	0.01	N	N	N	300	1000	N	N	N	N	<10	<5	--	--
LA0214R2	CDD713	65 53 27	147 15 01	14	7	5	2	--	--	0.5	N	N	N	10	200	<1	N	N	50	300	20	--	--
LA0215R	CDD714	65 53 43	147 16 28	13	>20	<0.05	0.5	--	--	0.007	N	N	N	N	20	N	N	N	N	N	N	--	--
LA0216R	CDD715	65 54 22	147 16 52	13	5	5	1.5	--	--	0.5	N	N	N	15	5000	<1	N	N	30	100	30	--	--
LA0217R	CDD716	65 54 26	147 16 50	13	3	2	0.7	--	--	0.5	N	N	N	<10	500	1	N	N	15	<10	10	--	--
LA0218R1	CDD717	65 54 34	147 16 45	13	<0.05	0.3	0.03	--	--	0.05	N	N	N	10	200	<1	N	N	N	<10	5	--	--
LA0218R2	CDD718	65 54 34	147 16 45	12	<0.05	2	0.2	--	--	0.2	<0.5	N	N	70	700	2	N	N	15	20	30	--	--
LA0219R	CDD719	65 54 46	147 18 25	13	1.5	10	2	--	--	1	N	N	N	<10	300	<1	N	N	50	100	30	--	--
LA0220R1	CDD720	65 54 53	147 18 34	12	0.05	2	0.5	--	--	0.5	N	N	N	200	500	2	N	N	15	70	7	--	--
LA0220R2	CDD721	65 54 53	147 18 34	13	<0.05	1.5	0.1	--	--	0.15	N	N	N	30	20	<1	N	N	5	10	5	--	--
LA0220R3	CDD722	65 54 53	147 18 34	13	N	1.5	<0.02	--	--	0.07	N	N	N	<10	<20	N	N	N	5	<10	20	--	--
LA0221R	CDD723	65 54 58	147 18 24	13	<0.05	1	<0.02	--	--	0.1	N	N	N	10	50	<1	N	N	<5	10	5	--	--
LA0222R	CDD724	65 55 07	147 18 23	13	<0.05	7	1	--	--	0.5	N	N	N	200	500	2	N	N	30	100	20	--	--
LA0223R	CDD725	65 55 20	147 18 38	12	>20	<0.05	0.3	--	--	0.007	N	N	N	N	<20	N	N	N	N	N	N	--	--
LA0224R	CDD726	65 52 07	147 13 38	13	0.05	1.5	0.03	--	--	0.1	2	N	N	50	20	N	N	N	N	<10	10	--	--
LA0225R1	CDD727	65 51 52	147 13 30	12	<0.05	3	1	--	--	0.3	N	N	N	150	300	2	N	N	20	70	5	--	--
LA0225R2	CDD728	65 51 52	147 13 30	13	<0.05	2	1	--	--	0.2	N	N	N	70	300	1.5	N	N	10	30	10	--	--
LA0226R	CDD729	65 51 35	147 13 21	13	0.05	2	0.5	--	--	0.2	N	N	N	50	100	<1	N	N	10	30	7	--	--
LA0227R	CDD730	65 51 28	147 13 14	13	<0.05	1	0.07	--	--	0.15	N	N	N	20	150	<1	N	N	<5	10	5	--	--
LA0229R	CDD734	65 51 10	147 15 30	13	3	3	3	--	--	0.5	N	N	N	10	100	<1	N	N	30	150	30	--	--
LA0231R	CDD735	65 51 15	147 10 30	13	0.05	1	0.2	--	--	0.1	N	N	N	N	<20	N	N	N	10	<10	10	--	--
LA0245R	CDD742	65 28 35	147 18 02	14	0.07	1	0.1	--	--	0.05	N	N	N	150	20	7	N	N	N	N	5	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
LA0030R2	N	500	N	N	30	N	N	7	N	150	N	50	N	10	N	150	--	N	N	N	16	45
LA0031R	70	300	N	N	70	50	N	20	<10	200	N	50	N	30	N	100	--	N	N	<0.1	12	70
LA0032R	<20	200	N	N	10	N	N	5	N	N	N	50	N	10	N	200	--	N	N	N	6	35
LA0033R	N	70	N	N	7	N	N	<5	N	N	N	30	N	N	N	200	--	N	N	N	4	20
LA0034R	20	150	N	N	5	20	N	5	N	N	N	30	N	50	N	200	--	N	N	N	6	35
LA0035R	50	1000	N	N	50	10	N	15	N	100	N	70	N	20	N	100	--	N	N	N	N	85
LA0036R	N	70	N	N	10	N	N	<5	N	N	N	30	N	10	N	100	--	N	N	N	2	25
LA0037R	30	50	N	N	20	N	N	10	N	N	N	70	N	20	N	100	--	N	N	N	2	50
LA0101R	20	100	N	N	7	<10	N	5	N	N	N	50	N	15	N	150	--	N	N	N	N	20
LA0144R	N	200	N	N	7	50	N	<5	N	N	N	30	N	15	N	500	--	N	N	0.1	N	25
LA0150R	70	200	N	<20	10	20	N	20	N	<100	N	150	N	30	N	100	--	N	N	N	N	50
LA0154R	N	70	N	N	7	N	N	N	N	N	N	15	N	N	N	70	--	N	N	N	2	20
LA0213R	30	2000	N	N	70	20	N	20	N	100	N	150	N	70	<200	100	--	20	N	0.7	N	130
LA0214R1	N	200	N	N	7	10	N	N	N	300	N	10	N	N	N	<10	--	N	N	N	2	<5
LA0214R2	<20	700	N	20	100	N	N	20	N	300	N	100	N	20	N	100	--	N	N	N	N	65
LA0215R	N	50	N	N	N	N	N	N	N	300	N	10	N	N	N	N	--	N	N	1.2	N	35
LA0216R	30	1000	N	20	50	<10	N	15	N	1000	N	100	N	15	N	100	--	N	N	N	N	45
LA0217R	20	1000	N	<20	7	<10	N	10	N	300	N	100	N	15	N	100	--	N	N	N	2	60
LA0218R1	N	15	N	N	5	N	N	<5	N	N	N	50	N	<10	N	20	--	N	N	0.2	N	100
LA0218R2	20	100	N	N	50	15	N	10	N	N	N	100	N	20	N	100	--	N	1	0.2	N	65
LA0219R	50	500	7	20	50	N	N	20	N	500	N	200	N	20	<200	100	--	N	N	N	N	95
LA0220R1	50	100	N	<20	30	15	N	20	N	150	N	150	N	50	N	150	--	10	N	N	N	40
LA0220R2	N	100	N	N	7	<10	N	5	N	N	N	50	N	15	N	300	--	N	N	N	N	35
LA0220R3	N	100	5	N	7	<10	N	5	N	N	N	20	N	10	N	200	--	30	2	N	10	70
LA0221R	N	300	<5	N	5	N	N	<5	N	N	N	20	N	10	N	300	--	10	N	N	N	15
LA0222R	100	300	<5	N	50	30	N	20	N	300	N	100	N	30	N	200	--	N	N	N	N	70
LA0223R	N	50	N	N	N	10	N	N	N	300	N	10	N	N	N	N	--	N	N	N	N	15
LA0224R	N	70	N	N	5	N	N	5	N	N	N	50	N	N	N	30	--	N	N	N	4	15
LA0225R1	100	200	N	N	50	<10	N	15	N	150	N	100	N	20	N	100	--	N	N	N	N	70
LA0225R2	20	200	N	N	30	<10	N	10	N	<100	N	100	N	10	N	70	--	N	N	0.1	N	60
LA0226R	20	300	N	N	15	10	N	7	N	N	N	70	N	15	N	500	--	N	N	N	N	40
LA0227R	N	150	N	N	5	<10	N	5	N	N	N	50	N	10	N	300	--	N	N	N	N	20
LA0229R	N	700	N	N	50	<10	N	15	N	1000	N	100	N	15	N	50	--	N	N	N	N	60
LA0231R	N	300	N	N	10	N	N	<5	N	100	N	20	N	10	N	200	--	N	N	N	N	25
LA0245R	50	300	N	<20	N	70	N	7	10	N	N	<10	N	100	N	100	--	N	N	1.4	2	130

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
LA0246R	CDD743	65 28 28	147 18 12	14	0.15	1	0.1	--	--	0.1	N	N	N	20	200	5	N	N	N	N	5	--	--
LA0248R	CDD744	65 57 02	149 54 35	14	5	5	3	--	--	0.3	N	N	N	<10	300	<1	N	N	50	150	100	--	--
LA0250R	CDD738	65 31 35	147 20 22	13	0.7	1	0.1	--	--	0.1	N	N	N	15	200	5	N	N	N	N	N	--	--
LA0253R1	CDD739	65 54 06	147 22 15	12	20	1	10	--	--	0.01	N	N	N	N	70	N	N	300	N	N	5	--	--
LA0253R2	CDD740	65 54 06	147 22 15	12	>20	0.2	10	--	--	0.01	N	N	N	N	<20	N	N	N	N	N	N	--	--
LA0253R3	CDD741	65 54 06	147 22 15	12	20	0.3	10	--	--	0.01	<0.5	N	N	N	100	N	N	150	N	N	<5	--	--
LA0258R	CDD745	65 16 12	147 46 44	13	<0.05	0.7	0.05	--	--	0.1	N	N	N	30	50	<1	N	N	<5	<10	<5	--	--
LA0265R	CDD759	65 29 09	147 04 31	13	0.1	0.5	0.1	--	--	N	N	5000	N	300	200	5	N	N	15	N	15	--	--
LA0284R	CHW925	65 30 16	148 30 11	14	5	7	3	1	0.7	0.2	N	700	N	500	>5000	2	N	N	<10	<10	70	30	N
LA0285R	CHW926	65 30 16	148 30 11	14	1	7	1	N	N	0.15	N	200	N	100	5000	5	N	N	N	200	30	30	N
LA0286R	CHW927	65 30 16	148 30 11	19	<0.05	5	1	N	<0.2	0.2	0.5	<200	N	200	>5000	3	N	N	N	150	15	30	N
LA0287R	CHW928	65 30 26	148 30 09	25	<0.05	10	0.7	5	N	0.5	1	<200	N	<10	200	<1	N	N	N	N	50	30	N
LA0288R1	CHW929	65 30 20	148 30 41	29	<0.05	0.2	0.03	0.2	<0.2	0.05	N	N	N	10	200	<1	N	N	N	10	<5	<5	N
LA0288R2	CHW930	65 30 20	148 30 41	29	<0.05	0.2	0.02	0.2	<0.2	0.01	N	N	N	<10	100	<1	N	N	N	<10	<5	<5	N
LA0289R	CHW931	65 30 27	148 30 44	14	0.1	10	0.7	3	<0.2	0.3	N	10000	N	20	>5000	3	N	N	N	200	30	50	N
LA0290R	CHW932	65 30 41	148 30 31	35	<0.05	0.5	0.2	1	<0.2	0.1	N	N	N	50	300	<1	N	N	<10	150	<5	<5	N
LA0291R	CHW933	65 30 39	148 30 42	29	0.2	5	5	3	0.2	0.2	N	N	N	<10	>5000	2	N	N	<10	150	10	30	N
LA0292R	CHW934	65 30 35	148 30 40	25	<0.05	1	0.5	<0.2	<0.2	0.2	N	7000	N	100	1500	<1	N	N	N	200	<5	15	N
LA0293R	CHW935	65 30 35	148 30 40	35	<0.05	0.15	<0.02	N	<0.2	0.01	N	700	N	10	50	<1	N	N	<10	10	5	N	N
LA0294R	F-000563	65 30 28	148 31 54	29	1	5	7	N	N	0.01	N	1000	N	<10	50	N	N	N	70	1500	5	<5	N
LA0295R	CHW937	65 30 39	148 32 19	19	0.1	7	2	N	N	0.2	1	3000	N	300	5000	<1	N	N	20	100	100	20	N
LA0296R	CHW938	65 30 39	148 32 19	14	0.07	7	0.7	N	N	0.15	N	700	N	20	1500	1	N	N	<10	150	70	10	N
LA0297R	F-000564	65 22 34	149 31 21	30	3	1.5	0.1	N	<0.2	0.2	10	>10000	30	10	200	N	N	N	20	150	100	10	N
LA0298R1	F-000565	65 12 18	149 32 10	35	<0.05	0.05	<0.02	N	<0.2	<0.002	N	500	N	10	20	N	N	N	N	<10	<5	N	N
LA0298R2	CHW941	65 22 18	149 32 11	35	0.05	0.2	1	N	N	<0.002	5	>10000	N	N	<20	N	10	N	N	<10	200	N	N
LA0299R1	F-000566	65 22 40	149 32 38	35	0.05	2	<0.02	N	N	<0.002	N	>10000	N	<10	20	N	N	N	N	N	<5	5	N
LA0299R2	CHW943	65 22 37	149 32 37	35	<0.05	0.15	<0.02	N	<0.2	<0.002	N	10000	N	<10	<20	N	N	N	N	<10	<5	N	N
LA0323R	CDD810	65 32 20	147 20 40	29	0.2	2	0.5	--	--	0.1	N	N	N	20	200	2	10	N	10	10	20	--	--
LA0324R	CDD811	65 32 22	147 20 50	11	0.15	1.5	0.07	--	--	0.05	N	N	N	<10	20	N	N	N	<5	N	<5	--	--
LA0325R	CDD812	65 32 27	147 21 04	13	0.3	3	1	--	--	0.15	0.7	N	N	10	30	<1	N	20	30	30	20	--	--
LA0326R1	CDD813	65 32 28	147 21 15	14	<0.05	1	0.03	--	--	0.05	N	N	N	<10	200	7	N	<20	N	N	10	--	--
LA0326R2	CDD814	65 32 28	147 21 15	14	<0.05	5	<0.02	--	--	0.05	10	N	N	N	70	3	20	<20	10	N	200	--	--
LA0327R	CDD815	65 32 53	147 22 16	13	N	1	0.2	--	--	0.1	N	N	N	70	100	<1	N	N	7	10	7	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
LA0246R	50	500	N	<20	N	70	N	5	<10	N	N	10	N	100	N	100	--	N	N	0.1	N	20
LA0248R	N	1000	N	N	70	15	N	30	N	200	N	150	N	20	N	70	--	N	N	0.4	N	65
LA0250R	50	200	N	N	N	50	N	5	N	<100	N	15	N	50	N	50	--	N	1	0.1	N	30
LA0253R1	N	700	N	N	20	1000	N	N	N	150	N	10	N	N	10000	N	--	N	N	>100	2	>2000
LA0253R2	N	100	N	N	N	70	N	N	N	200	N	10	N	N	N	N	--	N	N	2.2	N	310
LA0253R3	N	300	N	N	10	700	N	N	N	100	N	20	N	N	5000	N	--	N	N	>100	N	>2000
LA0258R	N	150	N	N	5	N	N	N	N	N	N	30	N	15	N	300	--	N	N	N	N	25
LA0265R	>1000	1500	N	N	<5	100	N	N	N	N	>2000	20	N	>2000	N	10	--	>2000	3	1.4	46	70
LA0284R	100	2000	N	N	<5	1000	N	7	<10	2000	N	100	N	20	<200	300	--	1200	3	0.8	36	125
LA0285R	N	1500	N	20	20	15	N	N	<10	N	N	15	N	50	<200	200	--	500	N	0.8	16	110
LA0286R	<50	200	5	<20	30	50	N	N	<10	N	N	500	N	20	<200	150	--	500	N	0.4	72	125
LA0287R	<50	1000	N	N	N	200	N	N	N	N	N	<10	N	70	<200	200	--	250	N	0.7	20	125
LA0288R1	N	50	N	N	10	<10	N	N	N	N	N	70	N	N	N	<10	--	20	N	0.1	4	5
LA0288R2	N	50	N	N	5	N	N	N	N	N	N	20	N	N	N	<10	--	10	N	<0.1	6	5
LA0289R	70	200	N	N	<5	20	N	20	10	700	N	300	N	30	N	150	--	>2000	N	0.3	24	50
LA0290R	N	300	N	N	20	N	N	N	N	N	N	20	N	N	N	30	--	115	N	0.1	10	15
LA0291R	50	500	<5	N	<5	200	N	10	N	500	N	100	N	30	N	100	--	500	2	0.1	6	80
LA0292R	<50	20	N	N	7	<10	N	<5	N	<100	N	100	N	<10	N	50	--	>2000	N	0.1	18	N
LA0293R	<50	50	N	N	<5	N	N	N	N	N	N	<10	N	N	<200	N	--	900	N	<0.1	16	5
LA0294R	N	1000	N	N	700	<10	N	<5	N	150	N	15	N	N	200	N	8.3	>2000	<1	<0.1	38	35
LA0295R	<50	700	20	N	100	30	N	7	N	N	N	700	N	30	2000	70	--	1800	N	10	84	1000
LA0296R	N	300	10	N	100	<10	N	7	N	200	N	100	N	15	2000	30	--	1300	N	3.4	170	900
LA0297R	N	1000	5	N	100	<10	>10000	15	N	N	N	1000	<20	30	N	<10	12	>2000	4	1.9	>1000	<5
LA0298R1	N	50	N	N	5	<10	500	N	N	N	N	10	N	N	N	N	0.25	600	<1	<0.1	>1000	<5
LA0298R2	N	<10	N	N	N	700	>10000	N	N	N	N	N	N	N	<200	N	--	170	11	0.6	>1000	N
LA0299R1	N	<10	N	N	5	<10	200	N	N	N	N	<10	N	N	N	N	3.9	>2000	9	0.1	>1000	<5
LA0299R2	N	50	N	N	<5	N	300	N	N	N	N	N	N	N	<200	N	--	>2000	3	N	400	N
LA0323R	N	500	N	N	20	<10	N	5	10	<100	N	20	N	20	N	200	--	N	3	0.2	N	55
LA0324R	N	2000	N	N	5	<10	N	<5	<10	<100	N	10	N	15	N	100	--	N	N	0.1	N	70
LA0325R	<20	700	N	N	50	200	N	7	N	300	N	50	N	15	1000	50	--	N	N	15	N	1300
LA0326R1	<20	300	N	20	<5	300	N	<5	15	<100	N	N	N	50	500	70	--	N	N	1.2	N	540
LA0326R2	<20	2000	N	<20	N	7000	N	<5	100	200	N	10	N	50	1000	50	--	20	20	2.6	4	>2000
LA0327R	<20	500	N	N	7	30	N	5	N	N	N	30	N	15	N	300	--	N	N	N	N	30

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
LA0328R	CDD816	65 33 01	147 22 14	13	<0.05	2	0.5	--	--	0.2	N	N	N	30	150	1	N	N	10	20	15	--	--
LA0329R	CDD817	65 33 55	147 22 05	13	0.2	1	0.2	--	--	0.15	N	N	N	30	100	<1	N	N	5	15	7	--	--
LA0330R	CDD818	65 33 43	147 22 29	13	N	3	1	--	--	0.3	N	N	N	150	300	1.5	N	N	30	70	20	--	--
LA0331R	CDD819	65 33 53	147 22 36	13	5	3	2	--	--	0.5	N	N	N	<10	200	N	N	N	50	30	5	--	--
LA0334R	CDD820	65 30 32	147 19 42	14	0.15	1	0.1	--	--	0.1	N	N	N	20	150	3	N	N	N	N	N	--	--
LA0335R1	CDD821	65 30 15	147 19 35	14	0.05	0.5	<0.02	--	--	0.02	0.5	N	N	500	<20	5	20	N	N	N	<5	--	--
LA0335R2	CDD822	65 30 15	147 19 35	14	<0.05	1.5	0.02	--	--	0.02	0.7	N	N	2000	<20	5	10	N	N	N	20	--	--
LA0335R3	CDD823	65 30 15	147 19 35	14	0.05	0.5	<0.02	--	--	0.015	N	N	N	700	<20	5	N	N	N	N	N	--	--
LA0336R	CDD824	65 30 08	147 19 25	14	0.5	2	0.2	--	--	0.2	N	N	N	20	700	5	N	N	<5	<10	N	--	--
LA0337R	CDD825	65 29 56	147 19 20	14	0.3	2	0.2	--	--	0.2	N	N	N	15	500	5	<10	N	<5	<10	<5	--	--
LA0338R1	CDD826	65 29 44	147 19 05	14	0.15	1	0.05	--	--	0.05	N	N	N	10	<20	5	N	N	N	N	N	--	--
LA0338R2	CDD827	65 29 44	147 19 05	14	0.15	0.7	0.05	--	--	0.05	N	N	N	10	20	7	N	N	N	N	<5	--	--
LA0339R1	CDD828	65 29 30	147 19 00	14	0.1	1	0.07	--	--	0.07	N	N	N	10	50	7	N	N	N	N	N	--	--
LA0339R2	CDD829	65 29 30	147 19 00	14	0.15	0.7	0.07	--	--	0.07	N	N	N	10	30	5	N	N	<5	N	<5	--	--
LA0340R1	CDD830	65 29 24	147 18 50	14	0.15	1	0.1	--	--	0.1	N	N	N	15	100	5	<10	N	<5	N	N	--	--
LA0340R2	CDD831	65 29 24	147 18 50	14	0.1	1.5	0.1	--	--	0.1	N	N	N	20	100	5	<10	N	<5	N	5	--	--
LA0341R1	CDD832	65 29 10	147 18 50	14	0.2	1	0.1	--	--	0.1	N	N	N	15	70	3	<10	N	N	N	N	--	--
LA0341R2	CDD833	65 29 10	147 18 50	14	0.2	0.7	0.1	--	--	0.07	N	N	N	15	70	5	N	N	N	N	<5	--	--
LA0341R3	CDD834	65 29 10	147 18 50	14	0.2	1	0.1	--	--	0.1	N	N	N	15	70	20	N	N	N	N	<5	--	--
LA0341R4	CDD835	65 29 10	147 18 50	14	0.2	1	0.1	--	--	0.1	N	N	N	20	100	5	N	N	N	N	N	--	--
LA0343R1	CDD836	65 28 44	147 17 56	14	0.2	0.5	0.07	--	--	0.05	N	N	N	20	<20	10	N	N	N	N	<5	--	--
LA0343R2	CDD837	65 28 44	147 17 56	14	0.15	1	0.1	--	--	0.07	N	N	N	20	20	7	<10	N	N	N	<5	--	--
LA0343R3	CDD838	65 28 44	147 17 56	14	0.15	0.7	0.07	--	--	0.07	N	N	N	20	<20	5	N	N	N	N	N	--	--
LA0344R	CDD839	65 28 40	147 17 50	14	0.15	1.5	0.1	--	--	0.1	N	N	N	20	200	5	N	N	N	<10	<5	--	--
LA0345R1	CDD840	65 28 38	147 17 25	14	0.2	3	1	--	--	0.2	N	N	N	<10	50	1	N	N	10	20	20	--	--
LA0345R2	CDD841	65 28 38	147 17 25	13	0.3	2	0.5	--	--	0.2	N	N	N	10	70	1	N	N	<5	15	5	--	--
LA0366R1	CDD842	65 38 48	147 05 10	13	>20	0.7	0.5	--	--	0.1	N	N	N	15	1000	N	N	N	5	20	20	--	--
LA0366R2	CDD843	65 38 48	147 05 10	13	10	3	1	--	--	0.5	N	N	N	10	500	<1	N	N	15	30	20	--	--
LA0370R	CDD844	65 43 28	147 13 20	13	0.05	5	1.5	--	--	0.5	N	N	N	100	500	1	N	N	20	150	70	--	--
LA0376R	CDD845	65 31 36	148 26 15	13	10	0.05	3	--	--	0.002	N	N	N	<10	N	N	N	N	N	N	N	--	--
LA0377R	CDD846	65 31 35	148 26 13	13	<0.05	0.3	0.15	--	--	0.05	N	N	N	20	50	<1	N	N	N	<10	10	--	--
LA0378R1	CDD847	65 31 34	148 26 09	35	0.05	1	0.2	--	--	0.2	<0.5	7000	N	20	300	1	N	N	N	20	20	--	--
LA0378R2	CDD848	65 31 34	148 26 09	35	0.05	1	0.3	--	--	0.2	<0.5	5000	N	20	300	1.5	N	N	N	20	50	--	--
LA0378R3	CDD849	65 31 34	148 26 09	35	<0.05	7	0.2	--	--	0.1	1.5	1500	N	15	150	1.5	N	N	<5	20	30	--	--

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
LA0328R	<20	500	N	N	20	15	N	5	N	N	N	50	N	20	N	150	--	N	N	N	N	80
LA0329R	<20	700	N	N	7	N	N	5	N	<100	N	30	N	15	N	300	--	N	N	N	N	30
LA0330R	50	200	N	<20	30	10	N	15	N	100	N	100	N	20	N	100	--	N	N	N	N	110
LA0331R	<20	1000	N	<20	30	<10	N	15	N	1000	N	150	N	15	N	50	--	N	N	N	N	65
LA0334R	70	300	N	<20	N	30	N	5	<10	N	N	10	N	100	N	150	--	N	N	N	N	20
LA0335R1	<20	200	N	20	N	30	N	<5	10	N	N	N	N	50	N	70	--	N	20	N	N	15
LA0335R2	N	200	N	<20	N	20	N	5	20	N	N	N	N	50	N	100	--	40	10	N	N	10
LA0335R3	50	200	N	N	N	50	N	N	10	N	N	N	N	70	N	70	--	N	N	N	N	30
LA0336R	70	500	7	<20	<5	50	N	10	<10	100	N	20	N	70	N	200	--	N	N	N	N	30
LA0337R	100	500	N	<20	<5	50	N	10	<10	100	N	20	N	100	N	200	--	N	3	N	N	35
LA0338R1	20	300	N	<20	N	50	N	5	<10	N	N	<10	N	50	N	100	--	N	N	N	N	15
LA0338R2	20	300	N	N	N	30	N	5	10	N	N	<10	N	50	N	30	--	N	N	N	N	20
LA0339R1	30	500	N	<20	N	30	N	5	<10	N	N	10	N	70	N	50	--	N	N	N	N	15
LA0339R2	30	300	N	<20	N	30	N	5	<10	N	N	10	N	50	N	300	--	N	N	N	N	15
LA0340R1	70	500	N	<20	<5	30	N	7	<10	N	N	15	N	70	N	200	--	N	1	N	N	30
LA0340R2	70	500	N	<20	5	50	N	5	10	N	N	10	N	70	<200	100	--	N	6	N	N	120
LA0341R1	100	300	N	<20	<5	100	N	5	N	N	N	10	N	100	N	150	--	N	N	N	N	80
LA0341R2	30	300	N	<20	<5	70	N	5	<10	N	N	10	N	30	<200	100	--	N	N	N	N	130
LA0341R3	100	300	N	<20	<5	30	N	5	10	N	N	10	N	50	N	100	--	N	N	N	N	30
LA0341R4	70	300	N	<20	<5	30	N	5	<10	N	N	10	N	50	N	100	--	N	N	N	N	25
LA0343R1	N	200	N	<20	<5	50	N	5	N	N	N	10	N	70	N	50	--	N	N	N	N	10
LA0343R2	N	200	N	<20	<5	50	N	5	N	N	N	10	N	100	N	70	--	N	N	N	N	15
LA0343R3	100	200	N	<20	<5	70	N	5	N	N	N	10	<50	30	N	30	--	N	N	N	N	10
LA0344R	100	500	N	<20	<5	70	N	7	<10	N	N	10	N	100	N	100	--	N	N	0.5	N	70
LA0345R1	30	700	N	N	30	N	N	10	N	100	N	50	N	30	N	150	--	N	N	N	N	85
LA0345R2	N	300	N	N	10	10	N	7	N	150	N	50	N	20	N	200	--	N	N	N	N	45
LA0366R1	20	1500	N	N	15	<10	N	7	N	1000	N	70	N	20	N	30	--	N	N	0.1	N	50
LA0366R2	50	700	N	<20	20	<10	N	15	N	300	N	100	N	30	N	150	--	N	N	0.1	N	50
LA0370R	N	700	N	N	70	20	N	20	N	<100	N	200	N	20	<200	100	--	N	N	0.1	2	130
LA0376R	N	50	N	N	N	N	N	N	N	N	N	N	N	N	N	<10	--	N	N	N	N	<5
LA0377R	N	50	N	N	<5	N	N	N	N	N	N	50	N	N	N	15	--	30	N	N	2	15
LA0378R1	30	50	N	N	<5	20	N	10	N	200	N	200	N	20	N	100	--	>2000	N	0.2	8	15
LA0378R2	50	50	5	N	5	20	N	10	N	150	N	200	<50	20	N	200	--	>2000	N	0.2	8	15
LA0378R3	<20	70	20	N	20	20	N	10	N	N	N	200	N	20	200	50	--	1900	N	0.3	20	430

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
LA0378R4	CDD850	65 31 34	148 26 09	35	<0.05	2	0.3	--	--	0.3	0.5	1000	N	30	300	1.5	N	N	N	50	10	--	--
LA0379R1	CDD851	65 30 40	148 30 51	13	<0.05	5	0.5	--	--	0.5	0.7	7000	N	200	500	20	N	N	<5	150	20	--	--
LA0379R2	CDD852	65 30 40	148 30 51	11	<0.05	3	1	--	--	0.5	<0.5	500	N	70	500	2	N	N	<5	150	15	--	--
LA0379R3	CDD853	65 30 40	148 30 51	14	<0.05	5	0.2	--	--	0.5	0.7	7000	N	200	1500	2	N	N	N	<10	15	--	--
LA0379R4	CDD854	65 30 40	148 30 51	35	N	15	0.02	--	--	0.05	1	>10000	10	20	300	1	N	N	10	50	200	--	--
LA0444R	CDD260	65 35 39	147 08 21	30	N	1	0.05	--	--	0.2	N	N	N	70	500	<1	N	N	5	20	<5	--	--
LA0457R	CDD261	65 29 16	147 37 45	21	>20	<0.05	2	--	--	0.002	N	N	N	<10	20	N	N	N	N	N	<5	--	--
LA0459R	CDD262	65 38 07	147 02 31	11	<0.05	2	0.5	--	--	0.2	N	N	N	100	700	<1	N	N	<5	15	10	--	--
LA0514R	CDD699	65 48 35	147 18 45	11	2	5	1.5	--	--	0.5	N	N	N	10	500	1	N	N	20	N	7	--	--
LA0517R	CDD700	65 48 19	147 09 00	11	3	10	3	--	--	0.7	N	N	N	<10	150	<1	N	N	100	15	50	--	--
LA0522R	CDD701	65 50 19	147 50 18	0	<0.05	0.2	0.07	--	--	0.05	N	N	N	30	150	<1	N	N	N	N	5	--	--
LA0527R	CDD702	65 23 48	147 11 53	0	0.5	1.5	0.5	--	--	0.07	N	N	N	15	100	<1	N	N	N	<10	15	--	--
LA0617R	CDD280	65 32 30	147 14 50	11	<0.05	3	0.7	--	--	0.2	0.5	N	N	30	200	1	N	N	7	30	10	--	--
LA0650R	CDD281	65 28 19	147 34 25	21	>20	<0.05	0.5	--	--	0.003	N	N	N	<10	300	N	N	N	N	N	N	--	--
LA0658R	CDD282	65 37 10	147 06 15	30	<0.05	1.5	0.5	--	--	0.1	N	N	N	20	200	<1	N	N	15	50	7	--	--
LA0674R	CDD283	65 43 17	147 26 55	21	20	<0.05	>10	--	--	0.002	N	N	N	<10	<20	N	N	N	N	N	5	--	--
LA0937R	CHW572	65 46 22	148 09 15	34	<0.05	5	0.1	N	<0.2	0.03	N	N	N	50	200	<1	N	N	N	20	100	10	N
LA0983R	CHW573	65 25 10	149 28 32	13	0.1	5	0.5	1	0.2	0.2	N	N	N	50	500	1	N	N	20	70	70	15	N
LA0984R	CHW574	65 25 13	149 28 35	13	0.2	7	2	3	<0.2	0.5	N	N	N	100	1000	<1	N	N	20	50	100	30	N
LA0997R	CHW575	65 20 20	149 53 38	14	<0.05	0.5	0.1	3	<0.2	0.02	N	1500	N	30	200	5	N	N	N	<10	<5	30	N
LA1000R	CHW643	65 24 07	149 56 17	13	0.3	5	2	2	<0.2	0.5	N	N	N	50	500	N	N	N	15	100	30	15	N
LA1001R	F-000567	65 20 16	149 53 28	29	0.5	2	0.7	3	<0.2	0.15	N	N	N	10	1000	5	N	N	<10	10	5	30	N
LA1002R	F-000568	65 10 18	149 53 32	35	<0.05	<0.05	<0.02	N	<0.2	0.002	N	500	N	10	50	N	N	N	N	N	<5	N	N
LA1003R1	F-000569	65 20 26	149 53 04	35	0.2	0.15	0.1	N	<0.2	0.01	N	N	N	20	100	<1	N	N	N	N	<5	N	N
LA1003R2	F-000570	65 20 26	149 53 04	35	<0.05	<0.05	<0.02	N	<0.2	0.002	N	N	N	10	50	N	N	N	N	N	N	N	N
LA1004R1	CHW647	65 20 03	149 53 59	35	<0.05	0.5	<0.02	N	N	0.005	N	N	N	10	50	N	N	N	N	<10	5	N	N
LA1004R2	CHW648	65 20 03	149 53 59	13	<0.05	5	0.2	<0.2	<0.2	0.2	N	1000	N	30	300	N	N	N	<10	70	50	15	N
LA1011R	F-000571	65 22 14	149 34 00	14	<0.05	0.2	0.05	2	<0.2	0.1	N	N	N	15	1000	1	N	N	N	<10	<5	20	N
LA1012R1	F-000572	65 25 52	149 28 50	14	0.05	1	0.7	3	0.2	0.3	N	1000	N	50	1500	2	N	N	N	<10	70	20	N
LA1012R2	F-000573	65 25 52	149 28 50	14	0.1	5	1	3	0.2	0.3	N	N	N	30	2000	3	N	N	N	<10	100	20	N
LA1012R3	F-000574	65 25 52	149 28 50	35	<0.05	0.3	0.1	<0.2	<0.2	0.03	N	N	N	200	200	N	N	N	N	10	<5	<5	N
LA1013R	F-000575	65 26 04	149 28 55	14	0.05	1	0.2	3	0.2	0.5	N	N	N	30	500	2	N	N	N	<10	7	20	N
LA1014R	F-000576	65 25 24	149 28 41	13	0.05	5	1.5	0.7	<0.2	0.3	N	N	N	200	500	<1	N	N	30	100	100	15	N
LA1015R1	F-000577	65 25 16	149 28 48	13	0.07	5	2	3	<0.2	0.2	N	N	N	<10	150	N	N	N	<10	10	30	15	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
LA0378R4	<20	50	<5	N	10	20	N	10	N	<100	N	200	<50	20	N	100	--	900	N	N	12	60
LA0379R1	30	70	N	N	20	10	N	20	<10	500	N	200	300	30	N	100	--	>2000	N	0.3	32	50
LA0379R2	50	50	N	N	30	15	N	20	N	150	N	200	<50	20	N	100	--	500	N	N	6	50
LA0379R3	100	30	N	<20	7	30	100	15	N	700	N	100	200	30	N	200	--	>2000	N	0.1	36	30
LA0379R4	<20	200	N	N	N	20	300	15	N	N	N	70	N	10	N	20	--	>2000	4	0.4	160	25
LA0444R	20	70	N	N	15	<10	N	5	<10	N	N	50	N	15	N	150	--	N	N	N	2	35
LA0457R	N	50	N	N	N	N	N	N	N	150	N	<10	N	N	N	N	--	N	N	N	N	<5
LA0459R	30	150	N	N	10	70	N	5	N	<100	N	50	N	20	N	500	--	N	N	N	N	100
LA0514R	200	700	N	<20	5	20	N	10	N	<100	200	100	N	100	N	200	--	40	N	3	N	65
LA0517R	N	1000	N	N	30	N	N	30	N	200	N	200	N	50	<200	100	--	N	N	0.5	N	130
LA0522R	N	100	N	N	5	N	N	5	N	N	N	15	N	<10	N	20	--	10	N	N	N	10
LA0527R	N	700	N	N	7	<10	N	<5	N	<100	N	20	N	10	N	50	--	N	N	0.1	N	25
LA0617R	70	1000	N	N	20	50	N	10	70	N	N	50	N	20	N	300	--	N	N	1	2	110
LA0650R	N	10	N	N	N	N	N	N	N	500	N	<10	N	N	N	N	--	N	N	N	N	<5
LA0658R	20	700	N	N	15	10	N	5	N	<100	N	20	N	15	N	300	--	N	N	N	2	100
LA0674R	N	50	N	N	N	<10	N	N	N	<100	N	<10	N	N	N	N	--	N	N	0.7	N	130
LA0937R	N	100	N	N	20	N	N	N	N	N	N	15	N	N	<200	10	--	N	N	0.1	N	35
LA0983R	<50	1500	N	N	70	N	N	15	N	N	N	200	N	30	<200	150	--	N	N	N	N	35
LA0984R	N	1000	30	N	50	<10	N	20	500	N	N	200	N	20	N	150	--	30	N	N	N	45
LA0997R	N	50	N	N	5	200	N	N	N	N	N	<10	N	10	N	50	--	2000	N	N	4	<5
LA1000R	<50	1000	N	N	100	10	N	5	N	N	N	100	N	<10	<200	50	--	N	N	0.4	N	105
LA1001R	<50	<10	5	N	5	100	<100	N	N	300	N	20	150	<10	N	100	<0.05	200	<1	<0.1	66	25
LA1002R	N	1000	N	N	5	N	N	N	N	N	N	<10	N	N	N	N	0.2	900	<1	0.3	92	30
LA1003R1	N	10	<5	N	<5	N	N	N	N	N	N	10	200	N	N	<10	<0.05	200	<1	<0.1	10	<5
LA1003R2	N	100	N	N	5	N	N	N	N	N	N	<10	N	N	N	N	<0.05	10	<1	<0.1	<2	<5
LA1004R1	N	200	N	N	10	<10	N	N	N	N	N	10	N	N	<200	N	--	130	N	0.2	N	75
LA1004R2	N	1000	N	N	30	500	N	<5	N	N	N	200	N	N	500	50	--	1400	2	2.3	N	350
LA1011R	50	<10	N	N	N	30	N	N	N	150	N	15	N	N	N	50	<0.05	180	<1	<0.1	10	<5
LA1012R1	50	30	N	N	<5	30	N	N	20	200	N	20	N	15	N	100	<0.05	1300	<1	<0.1	4	<5
LA1012R2	N	300	N	N	<5	20	N	N	20	200	N	20	N	10	N	100	<0.05	180	<1	<0.1	2	<5
LA1012R3	N	50	N	N	5	<10	N	N	N	N	N	20	N	N	N	<10	<0.05	20	<1	<0.1	<2	<5
LA1013R	50	20	N	N	<5	10	N	N	50	200	N	20	N	10	N	150	<0.05	70	<1	<0.1	16	<5
LA1014R	<50	300	N	N	100	<10	N	10	N	N	N	200	N	15	N	100	<0.05	<10	<1	<0.1	2	<5
LA1015R1	N	500	100	N	<5	<10	N	<5	N	N	N	100	N	<10	N	50	<0.05	<10	<1	<0.1	<2	<5

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
LA1015R2	F-000578	65 25 16	149 28 48	35	0.2	0.7	0.7	1	0.2	0.3	N	N	N	20	300	N	N	N	10	30	20	10	N
LA1015R3	F-000579	65 25 16	149 28 48	13	0.1	10	2	3	<0.2	0.3	N	N	N	15	300	N	N	N	20	15	10	20	N
LA1015R4	CHW658	65 25 14	149 28 39	35	<0.05	0.7	0.15	<0.2	N	0.01	N	>10000	N	2000	50	N	N	N	15	N	5	<5	N
LA1016R1	CHW659	65 20 33	149 52 58	13	0.2	7	5	2	N	>1	N	N	N	200	3000	N	N	N	30	200	100	30	N
LA1016R2	CHW660	65 20 33	149 52 58	13	0.1	7	5	1	N	>1	N	N	N	200	3000	<1	N	N	20	200	10	30	N
LA1016R3	CHW661	65 20 33	149 52 58	14	2	7	5	5	0.2	0.3	N	N	N	10	>5000	1	N	N	30	100	15	30	N
LA1017R	CHW662	65 20 41	149 53 04	14	5	10	10	3	0.2	0.3	N	N	N	<10	>5000	<1	N	N	50	1500	50	30	N
LA1018R	CHW663	65 20 55	149 53 07	14	<0.05	0.5	0.03	N	<0.2	0.05	N	N	N	30	50	N	N	N	N	<10	15	N	N
LA1019R1	CHW664	65 21 16	149 52 52	14	<0.05	0.7	0.1	1	<0.2	0.03	1	N	N	100	1000	5	N	N	N	<10	<5	50	N
LA1019R2	CHW665	65 21 16	149 52 52	14	<0.05	2	0.05	0.5	<0.2	0.02	N	1000	N	100	500	3	N	N	N	N	5	30	N
LA1019R3	CHW666	65 21 16	149 52 52	35	<0.05	1	0.1	<0.2	<0.2	0.01	10	5000	N	30	500	3	N	N	N	N	10	20	N
LA1020R	CHW667	65 21 50	149 52 34	0	<0.05	0.7	0.1	N	<0.2	0.01	N	N	N	10	200	N	N	N	N	<10	7	N	N
LA1021R	CHW668	65 22 03	149 52 09	35	<0.05	0.5	<0.02	N	<0.2	0.005	N	N	N	10	100	N	N	N	N	<10	<5	N	N
LA1022R1	CHW669	65 21 32	149 45 21	35	20	0.05	0.05	N	N	0.1	1500	>10000	N	N	>5000	N	>1000	N	10	N	2000	20	N
LA1022R2	F-000580	65 21 30	149 45 28	35	<0.05	<0.05	<0.02	<0.2	N	0.005	N	N	N	N	>5000	N	N	N	N	<10	<5	N	N
LA1022R3	F-000581	65 21 30	149 45 28	14	0.2	2	0.5	3	<0.2	0.15	N	N	N	50	2000	5	N	N	<10	<10	20	20	N
LA1023R	CHW672	65 19 14	149 28 05	13	<0.05	2	0.5	N	<0.2	0.3	N	N	N	50	500	N	N	N	N	700	5	10	N
LA1028R1	F-000582	65 27 04	148 31 20	14	0.15	2	1	3	<0.2	0.2	<0.5	N	N	50	500	N	100	N	<10	15	300	20	N
LA1028R2	F-000583	65 27 04	148 31 20	14	<0.05	1.5	0.3	1	<0.2	0.15	<0.5	N	N	50	1000	N	N	N	<10	15	500	15	N
LA1029R1	F-000584	65 27 07	148 32 40	14	0.15	2	1	3	<0.2	0.2	3	N	N	30	1500	N	N	N	N	20	150	30	N
LA1029R2	F-000585	65 27 07	148 32 40	14	<0.05	10	0.7	N	<0.2	0.2	0.5	N	N	100	700	1	N	N	N	100	1000	15	N
LA1050R1	F-000838	65 02 40	147 28 40	13	<0.05	0.7	0.05	N	<0.2	0.15	N	N	N	100	100	<1	N	N	<10	30	10	10	N
LA1050R2	F-000839	65 02 40	147 28 40	13	<0.05	2	0.02	N	N	0.05	N	300	N	15	100	2	N	N	15	20	10	7	N
LA1050R3	F-000840	65 02 40	147 28 40	13	<0.05	10	0.02	N	N	0.1	N	1000	N	10	70	<1	N	N	30	30	30	15	N
LA1050R4	F-000841	65 02 40	147 28 40	13	0.5	1.5	0.7	1.5	<0.2	0.15	N	N	N	20	300	1	N	N	<10	30	5	15	N
LA1050R5	F-000842	65 02 40	147 28 40	13	2	5	2	3	N	0.15	N	N	N	<10	70	1	N	N	20	70	15	20	N
LA1050R6	F-000843	65 02 40	147 28 40	13	5	10	1.5	2	0.2	0.15	N	N	N	N	50	<1	N	N	10	50	7	15	N
LA1051R	F-000844	65 02 50	147 26 10	13	0.2	7	2	2	<0.2	0.5	N	N	N	<10	300	<1	N	N	50	70	150	30	N
LA1052R	F-000845	65 02 54	147 26 20	13	<0.05	2	0.05	N	<0.2	0.15	N	N	N	50	200	1	N	N	<10	70	30	15	N
LA1053R	F-000846	65 02 56	147 26 30	14	0.15	2	0.15	3	<0.2	0.1	N	N	N	10	1500	<1	N	N	N	<10	10	20	N
LA1054R	F-000847	65 03 00	147 26 40	13	0.1	2	0.2	1	<0.2	0.15	0.5	N	N	10	200	<1	N	N	<10	30	10	15	N
LA1055R	F-000848	65 02 56	147 27 12	13	0.05	7	0.07	<0.2	N	0.15	100	>10000	N	300	100	N	N	500	N	50	1000	20	N
LA1056R	F-000849	65 03 02	147 27 26	13	0.2	3	2	0.5	N	0.5	N	N	N	20	70	N	N	N	30	100	20	15	N
LA1057R	F-000850	65 03 08	147 27 35	13	10	2	0.7	1.5	N	0.2	N	N	N	<10	150	<1	N	N	10	30	30	15	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
LA1015R2	<50	150	N	N	30	<10	N	5	N	N	N	300	N	20	N	100	<0.05	30	<1	0.1	<2	10
LA1015R3	N	1000	N	N	7	10	N	10	N	N	N	150	N	15	N	70	<0.05	<10	<1	<0.1	<2	55
LA1015R4	N	100	N	N	5	<10	N	N	N	N	N	10	700	N	N	<10	--	>2000	13	0.1	12	N
LA1016R1	<50	1000	<5	N	100	20	N	20	N	N	N	200	N	30	<200	200	--	30	N	<0.1	4	105
LA1016R2	<50	1000	N	N	100	10	N	15	N	N	N	150	N	20	<200	200	--	40	N	0.1	6	90
LA1016R3	50	1500	<5	N	10	30	N	10	N	1000	N	200	N	30	200	200	--	N	N	N	2	85
LA1017R	<50	1500	N	N	100	10	N	20	N	500	N	200	N	10	200	100	--	10	N	N	4	45
LA1018R	<50	50	N	N	5	<10	N	N	N	N	N	15	N	N	<200	20	--	180	N	N	10	5
LA1019R1	N	70	N	30	<5	10	N	N	N	N	N	<10	N	N	<200	100	--	90	N	N	8	N
LA1019R2	N	20	N	20	<5	10	N	N	N	N	N	<10	N	N	N	70	--	1000	N	0.4	10	40
LA1019R3	N	30	N	<20	<5	1000	100	N	N	N	N	<10	N	N	<200	50	--	>2000	<1	0.4	86	10
LA1020R	N	500	N	N	5	N	N	N	N	N	N	10	N	N	<200	<10	--	150	N	0.1	18	5
LA1021R	N	2000	N	N	5	<10	N	N	N	N	N	10	N	N	<200	N	--	30	N	0.1	70	15
LA1022R1	50	20	5	N	10	>20000	>10000	N	>1000	N	N	15	N	N	300	N	--	>2000	>1000	30	>1000	850
LA1022R2	N	<10	N	N	N	<10	N	N	N	700	N	<10	N	N	N	N	--	<10	<1	<0.1	<2	<5
LA1022R3	50	500	N	N	5	300	N	N	N	300	N	150	N	10	200	100	<0.05	110	<1	1.6	100	200
LA1023R	N	20	N	N	10	10	N	N	N	N	N	100	N	N	<200	500	--	N	N	0.2	N	35
LA1028R1	N	20	10	N	<5	10	N	<5	N	200	N	50	N	<10	N	100	<0.05	30	7	<0.1	100	10
LA1028R2	N	20	50	N	10	20	N	N	N	N	N	70	N	N	200	20	<0.05	<10	<1	0.1	4	75
LA1029R1	50	50	7	N	<5	30	N	5	N	200	N	70	N	N	N	50	<0.05	<10	<1	0.1	<2	15
LA1029R2	N	20	N	N	10	10	N	7	N	N	N	100	N	10	N	70	<0.05	10	<1	0.3	20	35
LA1050R1	N	100	N	N	10	10	100	N	N	N	N	50	N	<10	N	150	<0.05	40	<1	<0.1	180	40
LA1050R2	N	2000	N	N	50	20	200	5	N	N	N	20	N	10	N	30	<0.05	440	<1	2.2	160	100
LA1050R3	N	2000	<5	N	70	20	500	20	N	N	N	50	N	15	N	100	<0.05	990	<1	1.3	650	110
LA1050R4	<50	500	N	N	10	30	N	5	N	N	N	50	N	10	N	100	<0.05	20	<1	<0.1	8	15
LA1050R5	N	1000	N	N	10	200	N	10	10	200	N	100	N	15	N	100	<0.05	70	<1	1.1	76	10
LA1050R6	N	2000	50	N	15	100	N	5	<10	200	N	70	N	15	N	50	<0.05	20	1	<0.1	6	10
LA1051R	N	500	N	N	70	300	100	15	<10	N	N	150	N	20	N	70	<0.05	10	1	0.2	66	80
LA1052R	<50	100	N	N	20	20	N	10	N	N	N	150	N	15	N	100	<0.05	20	<1	<0.1	16	40
LA1053R	N	200	N	N	<5	70	N	N	N	150	N	10	N	N	N	70	<0.05	30	1	<0.1	6	65
LA1054R	<50	200	N	N	7	15	100	5	N	N	N	50	N	15	N	200	<0.05	10	<1	<0.1	4	50
LA1055R	100	20	<5	N	<5	>20000	>10000	10	>1000	N	N	100	N	10	2000	20	<0.05	>2000	1	>100	>1000	95
LA1056R	N	500	N	N	70	70	<100	15	N	N	N	200	N	10	500	100	<0.05	200	<1	2.8	50	540
LA1057R	<50	1500	N	N	20	200	<100	<5	N	500	N	50	N	15	N	150	<0.05	60	<1	0.6	60	55

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
LA1058R	F-000851	65 03 14	147 27 38	13	0.2	0.5	0.2	1	<0.2	0.1	N	N	N	10	200	N	N	N	<10	20	7	5	N
LA1059R	F-000852	65 03 18	147 27 40	13	<0.05	1	0.2	N	<0.2	0.15	N	N	N	10	100	N	N	N	N	20	7	7	N
LA1060R	F-000853	65 03 26	147 27 48	13	2	5	7	2	N	0.2	N	N	N	<10	200	N	N	N	70	200	<5	20	N
LA1061R	F-000854	65 03 42	147 23 45	13	20	0.15	0.05	N	N	0.01	N	N	N	N	<20	N	N	N	N	N	<5	N	N
LA1062R1	F-000855	65 03 43	147 27 45	14	0.05	10	<0.02	N	N	0.01	300	5000	N	N	70	N	N	300	N	N	200	15	N
LA1062R2	F-000856	65 03 43	147 27 45	14	<0.05	20	0.02	N	N	0.03	200	5000	N	N	100	N	N	300	N	N	300	20	N
LA1062R3	F-000857	65 03 43	147 27 45	14	0.1	>20	0.02	N	N	0.01	30	10000	N	N	100	N	N	500	N	N	300	20	N
LA1062R4	F-000858	65 03 43	147 27 45	14	0.1	7	0.2	N	N	0.1	10	10000	N	<10	100	5	N	300	30	20	1000	7	N
LA1062R5	F-000859	65 03 43	147 27 45	14	0.5	20	1	N	N	0.003	20	5000	N	N	50	N	N	N	N	N	200	15	N
LA1062R6	F-000860	65 03 43	147 27 45	14	<0.05	1.5	<0.02	N	N	N	200	500	N	N	<20	N	N	300	N	<10	500	N	N
LA1062R7	F-000861	65 03 43	147 27 45	14	0.07	5	0.02	N	N	0.005	1000	>10000	N	N	20	N	N	500	N	<10	700	5	N
LA1063R	F-000862	65 04 18	147 28 52	13	3	7	5	1	0.2	1	0.5	N	N	N	2000	N	N	N	50	200	50	15	N
LA1064R1	F-000863	65 00 30	147 33 52	14	0.07	5	0.05	N	N	0.07	15	7000	N	10	200	3	N	300	50	20	1000	7	N
LA1064R2	F-000864	65 00 30	147 33 52	14	5	0.5	0.2	0.2	N	0.07	N	N	N	<10	100	<1	N	N	N	<10	5	<5	N
LA1065R	F-000865	65 00 30	147 33 52	14	1	3	2	2	<0.2	0.2	N	N	N	10	1000	<1	N	N	15	50	30	20	N
LA1066R	F-000866	65 00 30	147 33 52	14	3	0.5	0.1	<0.2	<0.2	0.02	2	N	N	10	50	N	N	N	N	<10	<5	<5	N
LA1067R	F-000867	65 00 30	147 33 52	14	<0.05	5	0.5	<0.2	<0.2	0.2	100	>10000	N	200	200	2	N	N	N	10	100	10	N
LA1068R	F-000868	65 00 35	147 36 25	14	0.1	0.3	0.05	3	<0.2	0.01	N	N	N	20	100	1	N	N	N	N	<5	20	N
LA1069R	F-000869	65 00 35	147 36 25	14	0.1	0.2	0.03	3	<0.2	0.01	N	N	N	10	500	1	N	N	N	N	<5	20	N
LA1070R	F-000870	65 00 44	147 35 38	14	<0.05	3	0.15	N	0.2	0.2	200	>10000	N	200	200	1.5	N	N	N	<10	100	10	N
LA1071R1	F-000871	65 21 50	149 35 10	13	0.2	2	0.7	0.7	0.5	0.2	1	N	N	200	3000	<1	N	N	<10	100	50	15	N
LA1071R2	F-000872	65 21 50	149 35 10	14	0.5	2	0.7	3	<0.2	0.2	N	N	N	20	1000	7	N	N	<10	15	5	20	N
LA1071R3	F-000873	65 21 50	149 35 10	14	0.5	5	2	2	0.2	0.5	N	N	N	15	2000	1	N	N	<10	20	20	20	N
LA1071R4	F-000874	65 21 50	149 35 10	13	0.5	5	2	1	0.2	0.2	N	N	N	10	1500	1.5	N	N	20	100	30	20	N
LA1071R5	F-000875	65 21 50	149 35 10	14	1	7	5	2	0.2	0.3	N	N	N	10	2000	1	N	N	15	150	30	20	N
LA1072R	F-000876	65 21 52	149 35 00	14	0.3	2	0.7	3	<0.2	0.2	N	N	N	15	1000	5	N	N	<10	10	5	20	N
LA1073R1	F-000810	65 21 34	149 34 48	14	0.5	2	0.7	3	<0.2	0.2	10	N	N	100	500	5	N	N	<10	<10	7	30	N
LA1073R2	F-000811	65 21 34	149 34 48	14	1	3	2	2	<0.2	0.5	N	N	N	30	700	1	N	N	30	100	30	30	N
LA1074R1	F-000812	65 21 32	149 34 35	14	0.7	2	1	3	0.2	0.2	N	N	N	50	700	2	N	N	10	<10	20	30	N
LA1074R2	F-000813	65 21 32	149 34 35	14	0.05	3	1	1	<0.2	0.3	N	N	N	100	1000	1	N	N	10	100	30	20	N
LA1075R	F-000814	65 21 30	149 34 28	14	0.1	0.2	0.03	3	<0.2	0.01	N	N	N	30	200	10	N	N	N	N	<5	20	N
LA1076R1	F-000815	65 19 30	149 47 30	13	2	2	2	N	0.2	0.07	0.5	>10000	N	100	1500	2	N	N	<10	20	20	5	N
LA1076R2	F-000816	65 19 30	149 47 30	14	3	1.5	1.5	2	0.2	0.15	N	N	N	10	500	<1	N	N	10	200	30	15	N
LA1077R1	F-000817	65 19 25	149 47 30	14	2	3	5	2	0.2	0.2	N	N	N	10	1000	1	N	N	20	100	20	30	N
LA1077R2	F-000818	65 19 25	149 47 30	14	5	5	5	2	0.2	0.3	N	N	N	10	1000	1	N	N	30	150	15	30	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
LA1058R	N	300	N	N	7	20	N	N	N	<100	N	20	N	N	N	100	<0.05	10	<1	<0.1	10	30
LA1059R	<50	200	N	N	7	10	N	N	N	N	N	20	50	N	N	200	<0.05	50	<1	0.1	8	50
LA1060R	N	700	N	N	20	20	100	20	10	200	N	100	N	<10	N	10	<0.05	20	<1	<0.1	12	20
LA1061R	N	500	N	N	N	50	<100	N	N	300	N	<10	N	N	N	N	<0.05	60	1	0.5	26	45
LA1062R1	100	10	<5	N	N	>20000	>10000	N	500	N	N	<10	N	N	7000	N	2.1	1400	<1	>100	>1000	160
LA1062R2	50	15	<5	N	N	15000	>10000	N	100	N	N	<10	N	N	>10000	N	2.2	1000	<1	>100	>1000	>2000
LA1062R3	N	300	<5	N	<5	300	500	N	<10	N	N	<10	N	<10	>10000	N	<0.05	>2000	<1	>100	650	>2000
LA1062R4	70	>5000	N	N	70	1000	>10000	10	N	N	N	50	N	50	>10000	20	1.6	>2000	<1	>100	>1000	>2000
LA1062R5	N	3000	N	N	5	1000	700	N	30	N	N	20	N	<10	7000	<10	0.7	760	<1	>100	>1000	>2000
LA1062R6	100	50	N	N	N	>20000	>10000	N	500	N	N	<10	N	N	>10000	N	2.5	640	2	>100	>1000	390
LA1062R7	N	1000	N	N	5	>20000	2000	N	100	N	N	<10	N	N	>10000	N	0.25	200	<1	>100	>1000	>2000
LA1063R	50	500	N	<20	200	100	200	15	<10	200	N	150	N	15	300	100	<0.05	20	<1	0.1	26	100
LA1064R1	70	5000	N	N	50	500	10000	10	N	N	N	20	N	50	10000	50	1.8	>2000	<1	>100	>1000	>2000
LA1064R2	N	500	N	N	<5	50	N	N	N	<100	N	20	N	N	<200	20	<0.05	30	<1	1.3	14	140
LA1065R	N	1000	N	N	5	50	N	10	N	300	N	150	N	<10	<200	100	<0.05	30	1	0.5	6	65
LA1066R	N	1000	N	N	<5	200	N	N	N	N	N	15	N	N	<200	<10	<0.05	130	<1	2.1	8	180
LA1067R	<50	20	20	N	<5	10000	100	10	200	N	N	100	<20	<10	200	100	3.3	>2000	<1	5.5	200	250
LA1068R	N	50	N	N	<5	100	N	N	N	N	N	<10	N	N	N	70	<0.05	100	2	<0.1	6	10
LA1069R	N	70	N	N	<5	200	N	N	N	<100	N	<10	N	N	N	20	<0.05	40	<1	1.5	6	150
LA1070R	<50	50	700	N	<5	20000	200	7	100	N	N	70	<20	N	500	50	6.2	>2000	7	41	180	300
LA1071R1	<50	100	N	N	70	100	N	10	N	<100	N	200	N	30	200	100	<0.05	60	<1	1.1	16	120
LA1071R2	50	500	N	<20	5	100	N	5	N	300	N	50	N	20	N	200	<0.05	10	<1	<0.1	4	60
LA1071R3	<50	700	N	N	<5	70	N	15	N	300	N	100	N	15	N	150	<0.05	30	<1	<0.1	2	90
LA1071R4	<50	700	N	N	20	50	N	10	N	300	N	100	N	15	N	100	<0.05	20	<1	<0.1	2	65
LA1071R5	<50	1000	N	N	15	50	<100	20	N	500	N	150	N	20	N	100	<0.05	30	<1	<0.1	2	65
LA1072R	50	500	N	N	5	500	<100	N	10	200	N	50	N	10	N	100	<0.05	110	<1	<0.1	120	60
LA1073R1	50	500	N	N	5	100	N	<5	N	200	N	30	N	10	N	150	<0.05	30	<1	<0.1	<2	60
LA1073R2	<50	500	N	N	15	30	N	15	N	300	N	100	N	15	N	100	<0.05	10	<1	<0.1	<2	75
LA1074R1	<50	500	N	N	5	50	N	5	N	200	N	70	N	<10	N	50	<0.05	20	<1	<0.1	<2	50
LA1074R2	<50	300	N	N	50	10	N	10	N	N	N	150	N	10	N	100	<0.05	40	<1	<0.1	<2	65
LA1075R	N	50	N	N	<5	50	N	N	N	N	N	<10	200	N	N	10	<0.05	60	<1	<0.1	<2	5
LA1076R1	N	200	N	N	70	70	N	N	N	500	N	50	N	N	3000	50	1.2	>2000	5	53	80	>2000
LA1076R2	N	500	N	N	50	15	N	5	N	100	N	100	N	<10	N	100	<0.05	40	<1	<0.1	<2	60
LA1077R1	<50	700	N	N	20	30	N	15	N	200	N	100	N	10	N	70	<0.05	20	<1	<0.1	<2	60
LA1077R2	<50	700	N	N	50	20	N	15	N	300	N	150	N	15	N	150	<0.05	70	<1	<0.1	<2	60

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
LA1078R	F-000819	65 19 20	149 47 28	14	1	2	1.5	2	<0.2	0.15	N	N	N	0	500	1	N	N	15	50	20	15	N
LA1079R	F-000820	65 19 12	149 47 32	14	0.7	2	2	2	<0.2	0.1	N	N	N	10	700	1.5	N	N	10	50	5	20	N
LA1080R1	F-000821	65 19 06	149 47 25	14	2	5	3	3	<0.2	0.3	N	N	N	10	1000	1.5	N	N	20	70	10	30	N
LA1080R2	F-000822	65 19 06	149 47 25	13	<0.05	0.5	0.05	N	<0.2	0.05	N	N	N	30	200	N	N	N	N	<10	<5	<5	N
LA1080R3	F-000823	65 19 06	149 47 25	13	0.05	1.5	1	1.5	<0.2	0.2	N	N	N	70	500	<1	N	N	10	100	20	15	N
LA1081R1	F-000824	65 19 00	149 47 20	13	<0.05	1	0.02	N	<0.2	0.05	<0.5	N	N	20	70	N	N	N	N	<10	<5	N	N
LA1081R2	F-000825	65 19 00	149 47 20	14	<0.05	0.05	<0.02	N	<0.2	0.002	<0.5	N	N	<10	70	N	N	N	N	N	N	N	N
LA1081R3	F-000826	65 19 00	149 47 20	13	<0.05	10	0.02	N	0.2	0.01	<0.5	N	N	<10	70	N	N	N	<10	<10	10	10	N
LA1081R4	F-000827	65 19 00	149 47 20	13	<0.05	0.2	<0.02	N	<0.2	0.02	<0.5	N	N	30	150	N	N	N	N	<10	<5	N	N
LA1082R	F-000828	65 18 56	149 47 15	13	0.5	0.5	0.5	0.7	<0.2	0.03	<0.5	N	N	20	100	N	N	N	N	10	<5	<5	N
LA1083R	F-000829	65 19 58	149 52 42	13	0.3	1	0.5	3	<0.2	0.1	<0.5	N	N	20	300	5	N	N	N	<10	<5	20	N
LA1084R1	F-000830	65 19 54	149 52 42	13	0.5	2	1	3	<0.2	0.2	<0.5	N	N	10	500	3	N	N	10	15	<5	20	N
LA1084R2	F-000831	65 19 54	149 52 42	13	0.1	3	1.5	1.5	N	0.3	<0.5	N	N	100	1000	N	N	N	20	100	30	20	N
LA1084R3	F-000832	65 19 54	149 52 42	13	0.1	5	2	1	N	0.2	<0.5	N	N	150	1000	N	N	N	30	100	100	20	N
LA1085R	F-000833	65 19 45	149 52 45	13	0.07	5	5	2	<0.2	0.3	N	N	N	200	1500	<1	N	N	20	100	50	20	N
LA1189R	F-000781	65 14 52	148 07 51	14	0.1	0.2	0.02	0.2	<0.2	0.01	N	N	N	10	100	N	N	N	N	<10	5	N	N
LA1204R	CHW576	65 28 55	149 46 28	14	<0.05	1	0.15	N	<0.2	0.01	N	N	N	10	50	N	N	N	N	<10	<5	<5	N
LA1208R	CHW577	65 26 56	149 40 29	13	5	5	10	N	0.3	0.015	N	N	N	<10	500	N	N	N	<10	10	10	<5	N
LA1215R	CHW578	65 20 22	149 43 09	13	<0.05	1	0.05	<0.2	<0.2	0.07	N	N	N	30	300	<1	N	N	N	10	10	<5	N
LA1232R	CHW591	65 40 45	149 56 56	35	20	5	0.5	N	N	0.07	N	N	N	<10	1000	N	N	N	<10	20	7	<5	N
LA1250R1	CHW579	65 12 55	149 59 26	13	0.07	1.5	0.1	<0.2	0.2	0.1	N	N	N	20	200	<1	N	N	N	15	5	<5	N
LA1250R2	CHW580	65 12 55	149 59 26	13	<0.05	1	0.02	N	0.2	0.07	N	N	N	20	500	<1	N	N	N	<10	7	<5	N
LA1250R3	CHW581	65 12 55	149 59 26	35	<0.05	0.15	0.02	N	<0.2	0.05	N	N	N	10	100	N	N	N	N	<10	<5	<5	N
LA1250R4	CHW582	65 12 55	149 59 26	35	<0.05	2	0.5	N	0.2	0.15	N	N	N	100	1500	<1	N	N	20	100	10	15	N
LA1250R5	CHW583	65 12 55	149 59 26	35	<0.05	5	2	<0.2	0.2	0.5	<0.5	N	N	200	>5000	<1	N	N	<10	200	50	50	N
LA1250R6	CHW584	65 12 55	149 59 26	35	<0.05	1	0.02	N	<0.2	0.07	N	N	N	15	100	N	N	N	N	10	5	<5	N
LA1250R7	CHW585	65 12 55	149 59 26	35	<0.05	1	<0.02	N	<0.2	0.002	N	N	N	10	100	N	N	N	N	<10	5	<5	N
LA1250R8	CHW586	65 12 55	149 59 26	35	<0.05	0.1	<0.02	N	0.2	0.02	N	N	N	<10	50	N	N	N	<10	<10	<5	<5	N
LA1250R9	CHW587	65 12 55	149 59 26	35	<0.05	0.1	<0.02	N	<0.2	<0.002	N	N	N	<10	50	N	N	N	N	<10	<5	<5	N
LA1253R1	CHW588	65 16 30	148 50 51	35	0.1	5	2	3	0.2	0.2	0.5	N	N	100	1500	<1	N	N	30	70	100	30	N
LA1253R2	CHW589	65 16 30	148 50 51	35	0.2	7	2	2	0.2	0.2	N	N	N	300	1000	<1	N	N	20	70	50	30	N
LA1253R3	CHW590	65 16 30	148 50 51	35	0.5	7	3	2	<0.2	0.3	N	N	N	300	1000	<1	N	N	30	70	70	30	N
LA1306R	CHW476	65 45 25	149 46 10	35	0.2	2	0.2	N	<0.2	0.02	N	N	N	15	50	N	N	N	<5	20	20	5	N
LA1307R	CHW477	65 45 55	149 43 30	35	0.5	2	1	N	<0.2	0.1	N	N	N	10	100	N	N	N	<5	20	30	10	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
LA1078R	<50	300	N	N	15	20	N	5	N	100	N	70	N	<10	N	100	0.1	70	<1	<0.1	<2	40
LA1079R	<50	500	N	N	10	50	N	7	N	150	N	70	N	<10	N	100	<0.05	20	<1	0.3	<2	65
LA1080R1	<50	1000	N	N	20	50	N	10	N	200	N	100	N	15	N	150	<0.05	10	<1	<0.1	<2	55
LA1080R2	N	50	N	N	<5	<10	N	N	N	N	N	20	N	N	N	200	<0.05	60	<1	0.3	110	20
LA1080R3	N	100	N	N	70	15	N	<5	N	N	N	70	N	N	N	100	<0.05	20	<1	<0.1	<2	60
LA1081R1	N	10	N	N	20	N	N	N	N	N	N	15	N	N	N	20	<0.05	50	<1	0.1	<2	100
LA1081R2	N	10	N	N	5	N	N	N	N	N	N	10	N	N	N	N	<0.05	10	<1	<0.1	<2	<5
LA1081R3	N	50	5	N	100	<10	N	N	N	N	N	15	N	N	1000	50	<0.05	200	<1	1.4	10	760
LA1081R4	N	15	N	N	5	N	N	N	N	N	N	20	N	N	N	50	<0.05	30	<1	<0.1	<2	5
LA1082R	N	200	N	N	10	<10	N	N	N	N	N	20	N	N	N	10	<0.05	<10	1	<0.1	<2	10
LA1083R	N	300	N	N	5	100	N	N	N	100	N	20	N	<10	N	100	<0.05	10	<1	<0.1	<2	30
LA1084R1	<50	500	N	N	7	70	N	5	N	150	N	30	N	10	N	150	<0.05	<10	<1	<0.1	16	55
LA1084R2	N	300	N	N	70	30	N	15	N	N	N	200	N	20	N	70	<0.05	40	<1	<0.1	8	80
LA1084R3	N	300	N	N	100	50	N	15	N	N	N	200	N	20	N	100	<0.05	10	1	0.3	<2	170
LA1085R	N	200	N	N	100	30	N	15	N	N	N	200	N	20	N	100	<0.05	30	<1	<0.1	<2	100
LA1189R	N	1000	N	N	5	<10	N	N	N	N	N	10	N	<10	N	10	<0.05	<10	<1	<0.1	<2	5
LA1204R	N	70	N	N	7	<10	N	N	N	N	N	10	N	N	<200	<10	--	10	N	N	N	25
LA1208R	N	1500	N	N	70	30	N	N	N	300	N	20	N	N	200	<10	--	N	N	0.9	N	200
LA1215R	N	300	N	N	20	<10	N	N	N	N	N	20	N	N	<200	150	--	30	N	<0.1	2	65
LA1232R	N	1500	N	N	50	N	N	<5	N	500	N	15	N	N	<200	N	--	N	N	N	N	<5
LA1250R1	<50	200	N	N	5	10	N	N	N	N	N	70	N	<10	<200	150	--	N	N	0.5	N	75
LA1250R2	N	20	N	N	5	50	N	N	N	N	N	20	N	N	<200	50	--	N	N	0.4	N	90
LA1250R3	N	50	N	N	5	<10	N	N	N	N	N	15	N	N	<200	50	--	N	N	N	N	<5
LA1250R4	N	70	<5	N	50	500	N	7	N	N	N	100	N	<10	300	100	--	N	N	2.9	N	250
LA1250R5	50	70	<5	N	70	700	N	20	N	<100	N	300	N	20	200	150	--	20	N	4.4	N	250
LA1250R6	N	15	N	N	5	15	N	N	N	N	N	20	N	N	<200	70	--	N	N	0.3	N	60
LA1250R7	N	<10	N	N	5	<10	N	N	N	N	N	<10	N	N	<200	N	--	N	N	<0.1	N	20
LA1250R8	N	10	N	N	5	<10	N	N	N	N	N	<10	N	N	<200	N	--	N	N	0.1	N	15
LA1250R9	N	15	N	N	<5	N	N	N	N	N	N	<10	N	N	<200	N	--	N	N	0.1	N	N
LA1253R1	<50	2000	N	N	100	30	N	15	N	<100	N	200	N	20	<200	100	--	50	N	0.3	N	135
LA1253R2	<50	1500	N	N	70	20	N	15	200	<100	N	200	N	15	<200	100	--	60	N	0.2	N	105
LA1253R3	<50	2000	N	N	70	20	N	20	N	200	N	200	N	20	200	100	--	90	N	0.4	N	120
LA1306R	N	500	N	N	30	10	N	N	N	N	N	15	N	N	200	<10	--	N	N	N	N	25
LA1307R	N	2000	N	N	30	N	N	N	N	N	N	150	N	N	<200	20	--	N	N	N	N	130

Table 6 (continued): Results of spectrographic and atomic absorption analyses of all rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	Lab. Tag#	Latitude	Longitude	Rock Code	(%) Ca s	(%) Fe s	(%) Mg s	(%) Na s	(%) P s	(%) Ti s	(ppm) Ag s	(ppm) As s	(ppm) Au s	(ppm) B s	(ppm) Ba s	(ppm) Be s	(ppm) Bi s	(ppm) Cd s	(ppm) Co s	(ppm) Cr s	(ppm) Cu s	(ppm) Ga s	(ppm) Ge s
LA1310R1	CHW478	65 31 30	148 32 48	32	<0.05	10	7	N	N	<0.002	N	N	N	50	20	N	N	N	70	1500	30	N	N
LA1310R2	CHW479	65 31 30	148 32 48	32	>20	20	10	N	N	>1	<0.5	N	N	N	20	N	N	N	30	20	200	15	N
LA1358R	F-000782	65 19 27	149 47 42	14	0.5	2	1.5	7	<0.2	0.2	N	N	N	15	1000	2	N	N	10	20	5	30	N
LA1359R	F-000783	65 19 23	149 47 48	14	0.3	1	0.7	7	<0.2	0.1	N	N	N	10	1000	2	N	N	N	10	7	20	N
LA1360R	F-000784	65 19 30	149 47 57	14	0.7	3	2	7	<0.2	0.2	N	N	N	<10	1000	1	N	N	20	100	<5	20	N
LA1361R	F-000785	65 19 21	149 48 30	14	0.5	2	1.5	7	<0.2	0.2	N	N	N	10	1500	3	N	N	15	30	<5	20	N
LA1362R	F-000786	65 19 25	149 48 48	14	0.7	2	1	7	<0.2	0.15	N	N	N	10	1000	3	N	N	<10	10	<5	30	N
LA1375R1	F-000787	65 10 35	149 37 19	14	<0.05	0.7	0.03	N	<0.2	0.1	N	N	N	20	150	N	N	N	N	<10	7	<5	N
LA1375R2	F-000788	65 10 35	149 37 19	14	<0.05	0.15	0.03	N	<0.2	0.1	N	N	N	15	150	N	N	N	N	10	<5	N	N
LA1471R1	F-000789	65 28 11	148 31 26	14	<0.05	0.5	0.03	N	<0.2	0.15	1	N	N	200	70	N	N	N	N	20	150	10	N
LA1471R2	F-000790	65 28 11	148 31 26	14	0.03	5	1	5	<0.2	0.2	N	N	N	20	500	<1	N	N	20	15	15	20	N
LA1479R1	F-000791	65 40 48	148 02 43	14	3	1	0.7	<0.2	<0.2	0.07	N	N	N	10	70	N	N	N	N	<10	7	<5	N
LA1479R2	F-000792	65 40 48	148 02 43	14	5	7	7	5	N	1	N	N	N	<10	100	N	N	N	50	500	30	15	N
LA1484R	F-000793	65 23 12	149 30 43	14	3	5	3	7	<0.2	0.5	N	N	N	50	1500	2	N	N	30	70	50	30	N
LA1485R	F-000794	65 23 20	149 30 51	14	5	7	7	5	0.2	0.5	N	N	N	<10	1500	<1	N	N	30	100	7	30	N
LA1486R	F-000795	65 23 29	149 31 14	14	5	5	7	3	0.2	0.7	N	N	N	100	1500	2	N	N	30	150	50	30	N
LA1487R	F-000796	65 23 40	149 30 52	14	1	5	5	3	0.2	0.3	N	N	N	50	1500	2	N	N	30	100	30	20	N
LA1488R	F-000797	65 23 49	149 30 43	14	0.1	3	2	1.5	<0.2	0.3	N	N	N	200	500	N	N	N	15	70	50	20	N
LA1489R	F-000798	65 24 00	149 30 39	14	0.05	5	1.5	1	<0.2	0.3	N	N	N	200	500	N	N	N	30	70	150	20	N
LA1490R	F-000799	65 24 03	149 30 42	14	0.05	0.7	0.2	<0.2	<0.2	0.05	N	N	N	50	100	N	N	N	N	<10	<5	<5	N
LA1491R	F-000800	65 19 32	149 47 34	14	0.3	3	0.5	3	<0.2	0.2	N	N	N	50	500	1.5	N	N	N	N	10	20	N
LA1492R	F-000801	65 19 40	149 47 35	14	0.2	1	0.2	2	<0.2	0.1	N	N	N	20	500	5	N	N	N	10	5	15	N
LA1493R	F-000802	65 19 45	149 47 38	14	1	2	1	3	<0.2	0.3	N	N	N	20	1000	5	N	N	<10	50	7	30	N
LA1494R	F-000803	65 19 47	149 47 30	14	0.5	2	1	1.5	<0.2	0.15	N	N	N	10	300	N	N	N	10	70	20	10	N
LA1495R	F-000804	65 20 01	149 52 40	14	0.2	2	0.7	2	<0.2	0.15	N	N	N	<10	1000	5	N	N	<10	10	<5	15	N
LA1496R	F-000805	65 19 57	149 52 25	14	0.3	2	0.5	3	<0.2	0.15	N	N	N	10	1000	2	N	N	N	N	<5	20	N
LA1497R	F-000806	65 19 56	149 52 21	14	0.7	2	0.2	3	<0.2	0.15	N	N	N	10	1000	5	N	N	N	N	<5	20	N
LA1498R	F-000807	65 19 48	149 52 03	14	0.07	3	1	1	<0.2	0.2	N	N	N	100	1000	<1	N	N	20	100	50	15	N
LA1499R1	F-000808	65 28 19	149 58 37	14	0.5	5	2	2	0.2	0.2	N	N	N	100	1000	N	N	N	20	100	30	20	N

Table 6 (continued): Results of spectrographic and atomic absorption analyses of rock samples, Livengood quadrangle, Alaska

(s - spectrographic analyses; aa - atomic absorption analyses)

Sample ID	(ppm) La s	(ppm) Mn s	(ppm) Mo s	(ppm) Nb s	(ppm) Ni s	(ppm) Pb s	(ppm) Sb s	(ppm) Sc s	(ppm) Sn s	(ppm) Sr s	(ppm) Th s	(ppm) V s	(ppm) W s	(ppm) Y s	(ppm) Zn s	(ppm) Zr s	(ppm) Au aa	(ppm) As aa	(ppm) Bi aa	(ppm) Cd aa	(ppm) Sb aa	(ppm) Zn aa
LA1310R1	N	700	N	N	1000	N	N	N	N	N	N	10	N	N	<200	N	--	N	N	N	N	10
LA1310R2	N	>5000	N	N	20	N	N	30	N	N	N	1500	N	10	<200	30	--	110	N	N	N	30
LA1358R	50	500	N	N	5	30	N	5	N	200	N	50	N	15	N	100	<0.05	10	<1	<0.1	<2	55
LA1359R	N	200	N	N	<5	50	N	N	N	200	N	20	N	N	N	10	<0.05	10	<1	<0.1	2	20
LA1360R	<50	500	N	N	20	20	N	10	N	200	N	100	N	20	N	50	<0.05	10	<1	<0.1	<2	40
LA1361R	50	700	N	N	15	50	N	7	N	300	N	100	N	20	N	150	<0.05	10	<1	<0.1	<2	45
LA1362R	<50	700	7	N	7	50	N	<5	N	200	N	30	N	15	N	100	<0.05	10	<1	<0.1	<2	35
LA1375R1	N	10	N	N	5	N	N	N	N	N	N	15	N	N	N	150	<0.05	10	<1	<0.1	<2	15
LA1375R2	<50	10	N	N	5	N	N	N	N	N	N	15	N	N	N	150	<0.05	10	<1	<0.1	<2	<5
LA1471R1	N	30	N	N	5	50	N	N	N	N	N	20	N	N	N	30	<0.05	20	32	<0.1	4	100
LA1471R2	<50	2000	N	N	15	10	N	<5	N	200	N	70	N	N	200	70	<0.05	20	<1	3	<2	180
LA1479R1	N	3000	N	N	15	10	N	N	N	N	N	15	N	N	N	N	<0.05	10	<1	<0.1	<2	20
LA1479R2	N	1500	N	N	200	<10	N	15	N	200	N	150	N	15	N	50	<0.05	10	<1	<0.1	<2	75
LA1484R	50	700	N	N	30	30	N	15	N	300	N	200	N	20	N	100	<0.05	20	<1	<0.1	<2	80
LA1485R	N	1000	N	N	30	15	N	15	N	300	N	200	N	15	N	30	<0.05	10	<1	<0.1	<2	95
LA1486R	50	1000	N	N	50	30	N	15	N	300	N	150	N	20	N	100	<0.05	30	1	<0.1	2	60
LA1487R	<50	500	N	N	30	20	N	15	N	200	N	100	N	15	<200	50	0.11	70	<1	<0.1	<2	65
LA1488R	N	200	N	N	50	<10	N	7	N	N	N	150	N	10	N	50	<0.05	10	<1	<0.1	<2	100
LA1489R	N	200	N	N	100	20	N	10	N	N	N	200	N	15	N	70	<0.05	10	<1	<0.1	<2	20
LA1490R	N	50	N	N	10	N	N	N	N	N	N	20	N	N	N	<10	<0.05	10	<1	<0.1	<2	60
LA1491R	N	500	N	N	<5	20	N	N	N	<100	N	15	N	<10	N	100	<0.05	160	<1	<0.1	4	35
LA1492R	N	300	N	N	7	30	N	N	N	<100	N	15	N	N	N	70	<0.05	20	<1	<0.1	<2	40
LA1493R	<50	300	N	N	20	15	N	7	N	200	N	100	N	10	N	150	<0.05	20	<1	0.1	<2	40
LA1494R	N	200	N	N	50	N	N	<5	N	N	N	100	N	N	N	50	<0.05	20	<1	<0.1	<2	35
LA1495R	N	500	N	N	10	20	N	N	N	100	N	30	N	N	N	100	<0.05	10	<1	<0.1	<2	30
LA1496R	N	500	N	N	5	30	N	N	N	100	N	20	N	N	N	100	<0.05	10	<1	<0.1	<2	50
LA1497R	<50	300	N	N	5	50	N	N	N	200	N	15	N	N	N	100	<0.05	70	<1	<0.1	8	200
LA1498R	<50	300	N	N	50	20	N	10	N	N	N	200	N	15	<200	100	<0.05	20	1	0.1	4	95
LA1499R1	N	300	N	N	70	30	N	10	N	N	N	150	N	10	N	100	<0.05	10	<1	<0.1	<2	45

Table 7: Inductively coupled plasma-atomic emission spectrometric analyses of some rock samples, Livengood quadrangle, Alaska

Sample ID	Lab. Tag#	Latitude	Longitude	(%) Ca	(%) Fe	(%) Mg	(%) Na	(%) P	(%) Ti	(ppm) Ag	(ppm) As	(ppm) Au	(ppm) Ba	(ppm) Be	(ppm) Bi	(ppm) Cd	(ppm) Co	(ppm) Cr	(ppm) Cu	(ppm) Ga	(ppm) La	(ppm) Mn
86MC25	CHV127	65 36 33	147 20 00	41	0.03	0.18	0.01	<0.005	<0.005	<2	<10	<8	120	<1	<10	<2	<1	2	1	<4	<2	47
86MC26	CHV128	65 36 32	147 20 45	40	0.02	0.13	0.007	0.007	<0.005	<2	<10	<8	56	<1	<10	<2	<1	4	13	<4	<2	61
86MC27	CHV129	65 36 42	147 20 55	40	0.02	0.17	0.006	0.11	<0.005	<2	<10	<8	320	<1	<10	<2	<1	3	2	<4	3	41
86MC28	CHV130	65 36 32	147 23 15	40	0.02	0.13	<0.005	<0.005	<0.005	<2	<10	<8	88	<1	<10	<2	<1	<1	<1	<4	<2	33
86MC29	CHV131	65 36 48	147 23 13	41	0.03	0.2	0.007	<0.005	<0.005	<2	<10	<8	150	<1	<10	<2	<1	2	11	<4	<2	48
86MC30	CHV132	65 36 36	147 24 38	40	0.02	0.13	<0.005	<0.005	<0.005	<2	<10	<8	71	<1	<10	<2	<1	2	2	<4	<2	31
86MC32	CHV133	65 37 16	147 23 00	39	0.05	0.23	<0.005	<0.005	<0.005	<2	<10	<8	1700	<1	<10	<2	1	2	<1	<4	<2	33
86MC33	CHV134	65 37 07	147 22 48	40	0.03	0.14	<0.005	0.005	<0.005	<2	<10	<8	90	<1	<10	<2	<1	2	5	<4	<2	39
86MC34B	CHV135	65 37 03	147 22 45	41	0.02	0.25	<0.005	<0.005	<0.005	<2	<10	<8	98	<1	<10	<2	<1	<1	2	<4	<2	16
86MC35	CHV136	65 38 14	147 17 18	40	0.03	0.12	0.006	0.06	<0.005	<2	<10	<8	1200	<1	<10	<2	<1	<1	<1	<4	<2	200
86WR132	CHV137	65 40 17	147 09 08	4.8	7.1	3.4	1.9	0.14	1.2	<2	<10	<8	4900	1	<10	<2	34	160	52	21	25	1200

Table 7 (continued) : Inductively coupled plasma-atomic emission spectrometric analyses of some rock samples, Livengood quadrangle, Alaska

Sample ID	(ppm) Mo	(ppm) Nb	(ppm) Ni	(ppm) Pb	(ppm) Sc	(ppm) Sn	(ppm) Sr	(ppm) Th	(ppm) V	(ppm) Y	(ppm) Zn	(%) Al	(%) K	(ppm) Ce	(ppm) Eu	(ppm) Ho	(ppm) Li	(ppm) Nd	(ppm) Ta	(ppm) U	(ppm) Yb
86MC25	<2	<4	3	<4	<2	<10	230	<4	<2	<2	14	0.01	<0.05	<4	<2	<4	<2	<4	<40	<100	<1
86MC26	<2	<4	3	<4	<2	<10	170	<4	<2	<2	12	0.009	<0.05	<4	<2	<4	<2	<4	<40	<100	<1
86MC27	<2	<4	5	<4	<2	<10	290	<4	7	13	9	0.02	<0.05	<4	<2	<4	<2	<4	<40	<100	<1
86MC28	<2	<4	<2	<4	<2	<10	160	<4	<2	<2	22	<0.005	<0.05	<4	<2	<4	<2	<4	<40	<100	<1
86MC29	<2	<4	<2	<4	<2	<10	250	<4	<2	<2	3	0.02	<0.05	<4	<2	<4	<2	<4	<40	<100	<1
86MC30	<2	<4	<2	<4	<2	<10	230	<4	4	<2	4	0.01	<0.05	<4	<2	<4	<2	<4	<40	<100	<1
86MC32	<2	<4	<2	<4	<2	<10	260	<4	<2	<2	<2	0.03	<0.05	<4	<2	<4	<2	<4	<40	<100	<1
86MC33	<2	<4	<2	<4	<2	<10	190	<4	<2	<2	<2	0.03	<0.05	<4	<2	<4	<2	<4	<40	<100	<1
86MC34B	<2	<4	<2	<4	<2	<10	250	<4	<2	<2	<2	0.02	<0.05	<4	<2	<4	<2	<4	<40	<100	<1
86MC35	<2	<4	<2	<4	<2	<10	310	<4	2	<2	<2	<0.005	<0.05	<4	<2	<4	<2	<4	<40	<100	<1
86WR132	<2	26	57	<4	27	<10	420	<4	270	21	67	10	2.3	47	2	<4	43	25	<40	<100	2

Table 8: Wavelength-dispersive X-ray flourescence spectrometry analyses of some rock samples, Livengood quadrangle, Alaska

Sample ID	Lab. Tag#	Latitude	Longitude	(%) SiO2	(%) Al2O3	(%) Fe2O3	(%) MgO	(%) CaO	(%) Na2O	(%) K2O	(%) TiO2	(%) P2O5	(%) MnO
51CC5	F-003567	65 22 32	149 31 24	53.5	17.5	8.43	2.75	5.52	2.81	6.41	1.02	0.44	0.14
51CH200	D-320141	65 22 18	149 32 00	56.60	17	7.46	3.2	5.22	2.62	6.07	0.97	0.48	0.11
51CH201	D-320142	65 22 08	149 32 07	80.60	11	1.73	0.28	0.04	<0.15	2.73	0.69	<0.05	<0.02
51CH203	F-003568	65 21 40	149 32 18	70.90	14.6	5.34	1.4	0.27	0.92	2.57	0.87	0.15	0.04
51CH205	D-320143	65 21 50	149 32 15	76.10	14.3	0.41	<0.1	0.69	3.28	3.93	0.02	<0.05	<0.02
51CH207	D-320144	65 23 08	149 30 42	53.40	14.7	9.29	5.61	7.75	2.31	4.9	1.21	0.61	0.15
51CH215	F-003571	65 21 40	149 32 18	39.10	16	16.3	7.83	6.18	0.36	5.19	2.7	1.46	0.16
51CH216	F-003572	65 21 40	149 32 18	93.60	1.72	0.88	0.37	0.6	<0.15	0.45	0.33	0.34	<0.02
51CH217	F-003573	65 21 40	149 32 18	84.8	6.31	3.61	1.24	0.22	0.74	0.63	0.3	0.15	<0.02
62CH087	F-003574	65 21 40	149 32 18	66.10	13.6	7.26	2.42	0.46	2.92	1.38	0.9	0.21	0.12
62TB010	D-320135	65 31 52	148 30 01	48	0.65	7.82	20.8	0.3	<0.15	<0.02	<0.02	<0.05	0.22
62TB011D	F-003575	65 31 04	148 29 14	49.60	0.72	5.74	19.2	0.22	<0.15	0.04	<0.02	<0.05	0.14
69CH234	D-320136	65 58 00	147 22 41	74.60	0.12	2.63	3.76	7.78	<0.15	<0.02	<0.02	<0.05	0.08
69CH235	D-320137	65 58 11	147 23 40	4.6	0.14	0.43	0.43	53.7	<0.15	0.07	<0.02	<0.05	<0.02
76WR41	D-320148	65 23 04	148 27 25	68.40	14.3	1.86	0.97	2.46	2.6	4.28	0.29	0.11	0.03
86KW18	D-320149	65 24 57	148 53 18	61.5	15.6	8.53	3.64	0.5	2.24	2.34	0.94	0.31	0.18
86KW19	D-320150	65 24 12	148 53 31	67.5	13.7	5.68	2.83	1.41	4.06	0.98	0.7	0.2	0.15
86KW20D	D-320151	65 20 51	149 01 49	88.7	2.73	5.06	0.45	0.16	0.33	0.35	0.31	0.23	0.03
86KW22	D-320153	65 15 15	149 25 02	76.90	9.66	3.74	2.71	0.3	1.7	1.73	0.44	0.16	0.03
86KW27B	D-320154	65 28 18	148 19 23	58	15.8	9.29	4.29	1.8	2.08	2.43	1	0.27	0.18
86KW29	D-320155	65 26 23	148 47 52	77.5	10.1	4.47	0.9	0.23	2.47	0.87	0.52	0.16	0.04
86KW30	D-320156	65 24 57	148 53 18	69.40	9.03	5.84	0.33	2.9	3.75	0.73	0.42	2.04	2.38
86KW39	D-320157	65 12 44	149 37 58	68.3	13.9	5.41	2.07	0.52	1.44	2.55	0.74	0.32	0.04
86KW40	D-320158	65 12 35	149 43 39	68.10	8.34	3.2	1.63	7.4	1.89	1.12	0.4	0.16	0.11
86KW41	D-320159	65 10 19	149 57 09	74.3	9.88	4.14	3.05	1.04	2.07	1.46	0.47	0.13	0.03

Table 8: Wavelength-dispersive X-ray flourescence spectrometry analyses of some rock samples, Livengood quadrangle, Alaska

Sample ID	Lab. Tag#	Latitude	Longitude	(%) SiO2	(%) Al2O3	(%) Fe2O3	(%) MgO	(%) CaO	(%) Na2O	(%) K2O	(%) TiO2	(%) P2O5	(%) MnO
86KW42	D-320160	65 11 05	149 52 52	76.90	8.62	4.45	2.48	0.96	1.25	1.4	0.53	0.27	0.02
86KW43C	D-320161	65 28 33	148 16 18	36.10	7.16	3.89	1.97	26.5	1.32	1	0.45	0.51	0.17
86KW44	D-320162	65 19 39	148 18 29	64.2	13	7.24	2.98	2.58	3.34	0.97	0.92	0.21	0.15
86KW45	D-320163	65 24 42	148 13 43	60	12.5	7.22	3.19	5.89	3.4	1.09	0.93	0.26	0.2
86KW47B	D-320164	65 30 51	148 51 09	72.10	13.3	3.65	1.33	0.65	5.26	0.76	0.5	0.11	0.05
86KW48	D-320165	65 30 46	148 50 59	68.10	13.8	5.09	2.16	2.09	3.53	1.16	0.67	0.16	0.11
86MC25	CHV127	65 36 33	147 20 00	<0.1	0.14	<0.04	0.41	57	<0.15	<0.02	<0.02	<0.05	<0.02
86MC26	CHV128	65 36 32	147 20 45	<0.1	0.3	<0.04	0.34	56.3	<0.15	<0.02	<0.02	<0.05	<0.02
86MC27	CHV129	65 36 42	147 20 55	0.14	0.15	<0.04	0.4	57	<0.15	<0.02	<0.02	0.21	<0.02
86MC28	CHV130	65 36 32	147 23 15	<0.1	<0.1	<0.04	0.36	57.3	<0.15	<0.02	<0.02	<0.05	<0.02
86MC29	CHV131	65 36 48	147 23 13	<0.1	<0.1	<0.04	0.45	57.10	<0.15	<0.02	<0.02	<0.05	<0.02
86MC30	CHV132	65 36 36	147 24 38	<0.1	0.24	<0.04	0.35	56.5	<0.15	<0.02	<0.02	<0.05	<0.02
86MC32	CHV133	65 37 16	147 23 00	0.41	0.19	<0.04	0.51	56.40	<0.15	<0.02	<0.02	<0.05	<0.02
86MC33	CHV134	65 37 07	147 22 48	0.24	0.14	<0.04	0.37	56.8	<0.15	<0.02	<0.02	<0.05	<0.02
86MC34B	CHV135	65 37 03	147 22 45	<0.1	<0.1	<0.04	0.5	56.90	<0.15	<0.02	<0.02	<0.05	<0.02
86MC35	CHV136	65 38 14	147 17 18	<0.1	<0.1	<0.04	0.3	56.90	<0.15	<0.02	<0.02	0.12	<0.02
86WR132	CHV137	65 40 17	147 09 08	46	18.60	10.6	5.9	6.87	2.38	2.76	2.13	0.34	0.15
87CA006A	D-320177	65 37 56	148 44 45	47.40	13.9	12.5	8.73	9.21	1.81	1	1.53	0.13	0.32
87CA007A	D-320178	65 43 06	148 59 50	49.90	14.6	12.3	6.45	9.34	2.96	0.54	2.06	0.19	0.19
87KW08A	D-320179	65 37 50	148 47 10	47.90	13.5	12.7	8.96	7.8	2.87	1.38	1.48	0.12	0.24
87KW10A	D-320180	65 43 06	148 59 38	73.60	9.37	3.8	3.26	1.84	1.98	1.57	0.42	0.12	0.05
87KW64	D-320166	65 19 53	149 03 28	95.90	1.05	0.96	0.16	0.35	<0.15	0.2	0.09	0.22	<0.02
87KW65	D-320167	65 22 02	148 56 08	63.60	13.8	8.52	3.8	0.43	1.89	1.92	0.82	0.25	0.23
87RI11A	F-000527	65 53 47	148 01 08	50.10	14.8	11.2	6.42	9.98	2.32	0.44	1.58	0.18	0.18
87RI11C	F-000528	65 53 47	148 01 08	48.5	15.7	8.34	7.92	12.4	2.51	0.54	0.89	0.09	0.13

Table 8: Wavelength-dispersive X-ray flourescence spectrometry analyses of some rock samples, Livengood quadrangle, Alaska

Sample ID	Lab. Tag#	Latitude	Longitude	(%) SiO2	(%) Al2O3	(%) Fe2O3	(%) MgO	(%) CaO	(%) Na2O	(%) K2O	(%) TiO2	(%) P2O5	(%) MnO
87RI12	F-000529	65 54 15	148 02 28	38.2	11.8	25.8	6.41	10.3	1.37	0.38	3.87	0.07	0.2
87RI13A	F-000530	65 54 22	148 02 27	44.3	12.7	19	6.13	10.2	2.19	0.29	3.04	0.15	0.2
87RI14B	F-000531	65 54 45	148 00 25	43.40	4.27	18	24.8	6.85	0.73	0.17	0.67	0.07	0.26
87RI17	F-000532	65 53 57	148 05 04	48.60	14.6	11.9	8.03	12.5	1.82	0.18	1.43	0.13	0.19
87RI18	F-000533	65 57 27	147 43 43	46.60	14.3	13.1	7.57	10.2	2.76	0.66	1.7	0.12	0.17
87RI19B	F-000534	65 38 03	149 05 38	47	11.4	17.60	5.55	9.84	2.24	0.39	3.78	0.24	0.25
87RI20	F-000535	65 40 38	149 05 23	49.60	15	9.67	7.13	12.5	2.24	0.42	1.27	0.07	0.15
87RI26B	F-000543	65 23 04	149 30 44	40.3	10.5	15.5	12.1	9.09	0.46	5.69	2.91	1.35	0.17
87RI37	F-000547	65 20 18	149 52 32	67.5	15.5	3.02	0.99	2.36	3.55	5.34	0.36	0.15	0.04
87RI38B	F-000549	65 21 28	149 55 31	53.90	14.4	8.52	5.41	6.14	1.94	5.44	0.97	0.45	0.14
87RI41A	F-000548	65 19 22	149 47 45	63.5	15.1	4.28	1.87	3.38	3.06	5.87	0.43	0.2	0.07
87RI44	F-000550	65 17 49	149 59 01	56.7	14.7	7.09	4.54	5.96	2.47	5.8	0.76	0.37	0.12
87RI48B	F-000551	65 19 11	149 56 05	56.8	14.5	7.15	5.14	6.68	2.27	5.09	0.77	0.41	0.12
87RI49	F-000552	65 25 28	149 28 55	63.3	16.40	5.44	1.34	2.79	3.94	4.32	0.74	0.31	0.09
87RI50A	F-000544	65 22 37	149 34 29	55.90	17.60	7.75	2.18	4.29	3	7.29	0.92	0.49	0.11
87RI56B	F-000545	65 22 24	149 32 25	56.7	16.90	7.2	2.46	4.49	3.32	6.24	0.81	0.38	0.12
87RI56C	F-000546	65 22 24	149 32 25	57.2	16.8	7.47	2.58	4.55	3.27	6.33	0.86	0.39	0.13
87RI71	F-000538	65 41 39	149 50 34	48	14.8	12.4	7.06	11.7	2.02	0.17	1.78	0.16	0.19
87RI73A	F-000539	65 44 49	149 49 06	45.3	12.4	11.7	9.31	11.5	1.95	1.72	2.85	0.3	0.16
87RI74A	F-000540	65 46 14	149 55 37	48.10	14.2	12.4	7.56	12.2	1.98	0.25	1.48	0.13	0.18
87WR093	D-320181	65 55 34	147 11 30	0.27	<0.1	<0.04	0.74	56.2	<0.15	0.03	<0.02	<0.05	<0.02
87WR178A	D-320168	65 00 39	147 38 10	75.2	7.94	0.8	1.26	2.05	0.41	2.61	0.46	1.01	<0.02
87WR179A	D-320169	65 02 47	147 27 57	82.40	11.9	0.17	0.11	0.11	<0.15	0.51	0.42	0.09	<0.02
87WR179B	D-320170	65 02 47	147 27 57	49.3	15.1	11.6	8.21	8.15	3.68	0.96	1.42	0.2	0.17
87WR181	D-320173	65 02 57	147 20 05	89.8	5.9	0.78	0.23	0.04	<0.15	0.72	0.23	<0.05	<0.02

Table 8: Wavelength-dispersive X-ray flourescence spectrometry analyses of some rock samples, Livengood quadrangle, Alaska

Sample ID	Lab. Tag#	Latitude	Longitude	(%) SiO2	(%) Al2O3	(%) Fe2O3	(%) MgO	(%) CaO	(%) Na2O	(%) K2O	(%) TiO2	(%) P2O5	(%) MnO
87WR182	D-320174	65 03 02	147 27 12	49.7	15.4	11.5	6.73	6.38	3.68	2.38	1.3	0.16	0.16
88KW039A	F-003576	65 31 04	148 29 14	95.2	2.06	0.82	0.23	0.08	<0.15	0.32	0.13	0.08	<0.02
88KW039C	F-003577	65 16 08	149 46 55	95.40	1.53	1.35	<0.1	0.04	<0.15	0.07	0.11	0.07	<0.02
88KW130	D-320182	65 40 38	149 05 23	48.60	13.8	11.4	8.45	10.7	2.09	0.46	1.26	0.11	0.17
88KW131	D-320183	65 43 20	149 17 39	48.8	16.60	8.89	7.74	9.39	2.85	0.86	0.88	0.08	0.14
88KW135	F-003559	65 10 49	148 04 32	89.3	5.04	2.24	0.31	0.03	0.85	0.87	0.18	<0.05	<0.02
88KW136	F-003560	65 10 54	148 04 34	84.8	7.83	2.38	0.19	<0.02	0.95	1.43	0.33	<0.05	0.04
88KW137	F-003561	65 11 02	148 04 38	86.3	2.28	8.56	0.11	<0.02	<0.15	0.48	0.05	0.06	0.04
88KW138	F-003562	65 11 06	148 04 40	85	6.71	2.82	0.8	0.02	1.29	0.7	0.26	<0.05	<0.02
88KW139	F-003563	65 11 08	148 04 40	69	14.9	5.89	1.45	0.06	0.71	3.35	0.63	0.1	<0.02
88KW140	F-003564	65 11 25	148 05 01	89.60	4.67	1.56	0.27	0.03	0.86	1.09	0.2	<0.05	0.12
88KW141	F-003565	65 11 49	148 04 47	71.60	13.4	4.81	1.06	0.09	1.24	4.51	0.6	0.06	<0.02
88WR004	F-003566	65 06 48	147 46 12	81.90	8.29	3.17	0.85	0.15	1.28	1.63	0.44	0.08	<0.02
88WR064B	D-320175	65 24 18	149 50 28	46.40	16.3	9.41	9.89	7.81	3.67	0.26	1.46	0.49	0.19
88WR078	D-320176	65 22 00	149 47 33	45.60	15.8	14.5	5.41	6.86	3.2	0.17	2.76	0.27	0.21
LA0298R1	F-000565	65 12 18	149 32 10	98.3	0.18	0.09	0.11	<0.02	<0.15	<0.02	<0.02	<0.05	<0.02
LA1001R	F-000567	65 20 16	149 53 28	71.10	14.1	2.44	0.73	1.69	3.11	5.09	0.29	0.14	0.03
LA1002R	F-000568	65 10 18	149 53 32	98.40	0.25	0.11	<0.1	0.02	<0.15	<0.02	<0.02	<0.05	<0.02
LA1003R1	F-000569	65 20 26	149 53 04	94.8	1.09	0.43	0.32	0.87	<0.15	0.41	<0.02	<0.05	<0.02
LA1003R2	F-000570	65 20 26	149 53 04	99	0.14	<0.04	<0.1	<0.02	<0.15	<0.02	<0.02	<0.05	<0.02
LA1011R	F-000571	65 22 14	149 34 00	70.10	15.3	0.58	0.21	0.09	1.43	10.5	0.28	0.09	<0.02
LA1012R2	F-000573	65 25 52	149 28 50	64.60	16.40	5.49	0.81	0.93	3.34	3.98	0.68	0.33	0.02
LA1012R3	F-000574	65 25 52	149 28 50	95.10	1.67	0.63	0.27	0.04	<0.15	0.4	0.05	0.2	<0.02
LA1013R	F-000575	65 26 04	149 28 55	67.5	17.40	2.21	0.56	0.3	4.12	2.38	0.79	0.3	<0.02
LA1014R	F-000576	65 25 24	149 28 41	68.8	13.8	6.43	2.18	0.35	0.51	3.32	0.85	0.2	0.04

Table 8: Wavelength-dispersive X-ray flourescence spectrometry analyses of some rock samples, Livengood quadrangle, Alaska

Sample ID	Lab. Tag#	Latitude	Longitude	(%) SiO2	(%) Al2O3	(%) Fe2O3	(%) MgO	(%) CaO	(%) Na2O	(%) K2O	(%) TiO2	(%) P2O5	(%) MnO
LA1015R1	F-000577	65 25 16	149 28 48	67.10	14.4	6.22	2.35	1.04	4.42	1.55	0.73	0.15	0.05
LA1015R2	F-000578	65 25 16	149 28 48	78.90	11.3	1.27	0.58	1.24	0.85	2.74	0.48	0.28	<0.02
LA1015R3	F-000579	65 25 16	149 28 48	62.7	16.60	7.75	2.85	0.72	2.98	2.27	0.77	0.22	0.07
LA1022R3	F-000581	65 21 30	149 45 28	62.2	16	4.1	1.13	2.33	4.22	2.41	0.36	0.17	0.07
LA1028R1	F-000582	65 27 04	148 31 20	66.60	15.8	3.36	1.5	1.64	3.2	3.27	0.55	0.13	<0.02
LA1028R2	F-000583	65 27 04	148 31 20	77.10	10.3	2.21	0.49	0.03	0.36	6.68	0.33	0.13	<0.02
LA1029R1	F-000584	65 27 07	148 32 40	65.3	15.9	3.08	2	1.64	2.71	5.01	0.59	0.21	<0.02
LA1029R2	F-000585	65 27 07	148 32 40	54.5	13.2	19.2	1.45	<0.02	<0.15	3.38	0.57	0.56	<0.02

Table 9: Atomic absorption and energy dispersive XRF analyses of some rock samples, Livengood quadrangle, Alaska

(aa - atomic absorption; edxrf - energy dispersive XRF)

Sample ID	Lab. Tag#	Latitude	Longitude	(ppm) Cu aa	(ppm) Pb aa	(ppm) Nb edxrf	(ppm) Rb edxrf	(ppm) Sr edxrf	(ppm) Zr edxrf	(ppm) Y edxrf	(ppm) Ba edxrf	(ppm) Ce edxrf	(ppm) La edxrf	(ppm) Cu edxrf	(ppm) Ni edxrf	(ppm) Zn edxrf	(ppm) Cr edxrf
87RI11A	F-000527	65 53 47	148 01 08	100	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI11C	F-000528	65 53 47	148 01 08	100	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI12	F-000529	65 54 15	148 02 28	120	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI13A	F-000530	65 54 22	148 02 27	10	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI14B	F-000531	65 54 45	148 00 25	100	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI17	F-000532	65 53 57	148 05 04	125	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI18	F-000533	65 57 27	147 43 43	85	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI19B	F-000534	65 38 03	149 05 38	310	20	--	--	--	--	--	--	--	--	--	--	--	--
87RI20	F-000535	65 40 38	149 05 23	100	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI26B	F-000543	65 23 04	149 30 44	10	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI37	F-000547	65 20 18	149 52 32	30	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI38B	F-000549	65 21 28	149 55 31	20	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI41A	F-000548	65 19 22	149 47 45	15	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI44	F-000550	65 17 49	149 59 01	30	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI48B	F-000551	65 19 11	149 56 05	50	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI49	F-000552	65 25 28	149 28 55	5	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI50A	F-000544	65 22 37	149 34 29	30	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI56B	F-000545	65 22 24	149 32 25	10	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI56C	F-000546	65 22 24	149 32 25	15	15	--	--	--	--	--	--	--	--	--	--	--	--
87RI71	F-000538	65 41 39	149 50 34	180	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI73A	F-000539	65 44 49	149 49 06	65	<5	--	--	--	--	--	--	--	--	--	--	--	--
87RI74A	F-000540	65 46 14	149 55 37	160	<5	--	--	--	--	--	--	--	--	--	--	--	--
LA0294R	F-000563	65 30 28	148 31 54	<5	<5	<10	20	291	24	<2	28	10	<2	14	1150	216	3680
LA0297R	F-000564	65 22 34	149 31 21	80	<5	<10	46	13	19	26	7	24	4	61	28	37	163
LA0298R1	F-000565	65 12 18	149 32 10	<5	<5	<10	<2	8	15	4	15	19	7	<2	<5	9	<20

Table 9 (continued): Atomic absorption and energy dispersive XRF analyses of some rock samples, Livengood quadrangle, Alaska

(aa - atomic absorption; edxrf - energy dispersive XRF)

Sample ID	Lab. Tag#	Latitude	Longitude	(ppm) Cu aa	(ppm) Pb aa	(ppm) Nb edxrf	(ppm) Rb edxrf	(ppm) Sr edxrf	(ppm) Zr edxrf	(ppm) Y edxrf	(ppm) Ba edxrf	(ppm) Ce edxrf	(ppm) La edxrf	(ppm) Cu edxrf	(ppm) Ni edxrf	(ppm) Zn edxrf	(ppm) Cr edxrf
LA1002R	F-000568	65 10 18	149 53 32	<5	<5	<10	<2	9	15	<2	28	10	5	3	<5	41	<20
LA1003R1	F-000569	65 20 26	149 53 04	<5	<5	<10	24	64	24	5	122	16	7	3	5	17	<20
LA1003R2	F-000570	65 20 26	149 53 04	<5	<5	<10	<2	8	15	<2	16	11	5	<2	<5	15	<20
LA1011R	F-000571	65 22 14	149 34 00	<5	5	21	469	342	164	21	1410	61	33	4	<5	14	<20
LA1012R1	F-000572	65 25 52	149 28 50	35	30	27	180	365	204	17	1700	53	27	32	<5	28	<20
LA1012R2	F-000573	65 25 52	149 28 50	100	25	42	176	556	249	17	1910	39	9	96	<5	54	<20
LA1012R3	F-000574	65 25 52	149 28 50	<5	<5	<10	21	20	30	5	279	19	6	9	5	19	<20
LA1013R	F-000575	65 26 04	149 28 55	5	<5	40	135	405	249	25	718	90	49	15	5	34	<20
LA1014R	F-000576	65 25 24	149 28 41	100	<5	18	140	72	161	35	884	57	26	75	79	105	194
LA1015R1	F-000577	65 25 16	149 28 48	30	<5	14	68	209	122	32	245	32	17	26	<5	70	36
LA1015R2	F-000578	65 25 16	149 28 48	25	<5	11	89	87	111	34	553	31	11	31	42	28	79
LA1015R3	F-000579	65 25 16	149 28 48	5	<5	<10	66	104	127	29	541	27	15	7	7	79	32
LA1022R2	F-000580	65 21 30	149 45 28	<5	5	--	--	--	--	--	--	--	--	--	--	--	--
LA1022R3	F-000581	65 21 30	149 45 28	15	220	22	122	567	248	32	3760	89	43	20	<5	161	<20
LA1028R1	F-000582	65 27 04	148 31 20	470	15	14	153	518	164	12	1060	40	15	361	<5	32	32
LA1028R2	F-000583	65 27 04	148 31 20	480	10	14	236	134	92	15	1590	18	4	384	7	83	<20
LA1029R1	F-000584	65 27 07	148 32 40	280	15	14	189	686	157	18	2110	97	51	195	<5	32	43

Table 10: Major oxide analyses of some rock samples, Livengood quadrangle, Alaska

Sample ID	Lab. Tag#	Latitude	Longitude	(%) SiO2 i	(%) Al2O3 i	(%) Fe2O3 i	(%) FeO t	(%) MgO i	(%) CaO i	(%) Na2O i	(%) K2O i	(%) H2O+ dif	(%) H2O- wl	(%) TiO2 i	(%) P2O5 i	(%) MnO i	(%) CO2 c
88RI1A	W-245987	65 20 44	149 49 46	95.6	1.7	0.31	0.16	0.06	0.12	0.73	0.34	0.18	0.21	0.05	0.06	0.02	0.03
88RI1B	W-245988	65 20 44	149 49 54	69.8	16.5	2	0.32	0.43	0.15	3.9	2.6	1.8	0.38	0.19	0.07	0.05	0.01
88RI1B1	W-246000	65 20 44	149 49 54	70.8	16.5	1.6	0.32	0.43	0.34	5	2.5	1.5	0.06	0.21	0.06	0.01	0.01
88RI1C	W-245989	65 20 47	149 50 12	82.5	6.8	2.1	2.1	1.2	0.05	0.22	1.4	1.8	0.42	0.31	0.05	0.05	<0.01
88RI1D	W-245990	65 20 43	149 50 28	83.5	6.3	1.2	2.7	1.4	0.11	0.28	1.1	1.4	0.26	0.28	0.03	0.11	<0.01
88RI1E	W-245991	65 20 29	149 51 12	83.9	6.5	3.5	0.24	0.34	0.05	<0.01	1.4	1.9	0.2	0.6	0.05	0.04	0.03
88RI1F1	W-245992	65 20 29	149 51 12	57.9	13.6	1.5	5.4	6.8	7	1.7	2.8	0.8	0.2	0.72	0.45	0.12	0.01
88RI1F2	W-245993	65 20 29	149 51 12	65.2	15.3	1.9	5.1	2.8	0.76	0.88	2.5	2.7	0.61	1.2	0.2	0.06	0.01
88RI2A	W-245994	65 20 54	149 51 44	58.9	20.9	1.3	6.8	2.4	0.21	0.9	4.1	1.8	0.34	1	0.14	0.36	0.01
88RI2B1	W-245995	65 20 48	149 51 48	65.8	15.3	1.1	2.1	1.5	2.5	3.4	5.6	0.58	0.19	0.36	0.14	0.08	0.01
88RI2B2	W-245996	65 20 48	149 51 48	63.8	15.1	0.9	5.4	3.2	2	2.5	2.8	1.6	0.15	0.72	0.38	0.05	<0.01
88RI2C1	W-245997	65 20 43	149 51 50	59.4	19.8	0.9	6	3.1	0.88	2.1	3.5	1.6	0.11	0.93	0.25	0.05	0.03
88RI2C2	W-245998	65 20 43	149 51 50	65.6	15.4	0.9	2.5	1.5	2.6	3.2	5.5	0.73	0.2	0.38	0.18	0.07	0.32
88RI2D	W-245999	65 20 38	149 51 50	65.8	15.2	0.8	3	1.9	3	3.3	6	0.52	0.06	0.41	0.19	0.09	0.07
88RI3	W-246001	65 01 12	147 28 58	67.2	14.3	0.8	3.9	2.1	3.8	2.2	2.9	1	0.1	0.64	0.14	0.09	0.13
88RI4	W-246002	65 01 45	147 28 14	74.0	14.4	0.3	0.92	0.45	2	3.7	3.6	0.55	0.15	0.17	0.04	0.05	0.48
88RI5	W-246003	65 02 08	147 29 33	61.4	16.6	1.1	5.2	2.6	5.4	2.2	2.8	1.5	0.08	0.88	0.19	0.12	0.01

i - Inductively coupled plasma-atomic emission spectrometric analyses
t - Potentiometric titration
dif - Difference calculation between total water, previously determined by Karl Fischer titration, and the H2O- concentration
wl - Weight loss of sample at 110 degrees C.
c - Coulometrically titration