

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

**Analytical results and sample locality map
of moraine-sediment, stream-sediment, and
heavy-mineral-concentrate samples from the
Cordova and Middleton Island 1° x 3° quadrangles, Alaska**

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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

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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, if any. Results from the Alaskan Mineral Resource Assessment Program (AMRAP) must be made available to the public and be submitted to the President and the Congress. This report presents analytical results of a geochemical survey of the Cordova and Middleton quadrangles, Alaska.

INTRODUCTION

In 1984-1985 the U.S. Geological Survey conducted a reconnaissance geochemical survey of the Cordova and Middleton Island quadrangles, Alaska.

The Cordova and Middleton Island quadrangles comprise about 3,700 mi² of land mass in south-central Alaska, and lies about 10 mi (12 km) south of Valdez, Alaska (see fig. 1). Access to the study area is provided by charter plane and ferry from Valdez, Alaska.

The Cordova and Middleton Island quadrangles are situated in the eastern Chugach Mountains and the northern Gulf of Alaska Coastal Province, within south-central Alaska. The northern portion of the Cordova quadrangle is underlain by the Upper Cretaceous Valdez Group and is separated from the Paleocene to Eocene Orca Group by the Contact fault system to the south. Both groups are thick turbidite sequences containing subordinate tholeiitic basalt. Continental margin sedimentary units, younger than the Orca Group rocks, underlie the southeastern corner of the Cordova quadrangle and Kayak Island on the Middleton Island quadrangle. Granitic plutons of early Eocene age were emplaced in both the Orca and Valdez Groups. The geology has been described in detail by Winkler and Plafker (1981) and is generalized from their work on the site location map (plate 1).

The topographic relief of the studied area ranges from 7,730 ft on top of Cordova Peak down to sea level in eastern Prince William Sound, the Copper River Delta, and the northern Gulf of Alaska. Most of the higher elevations of the Chugach Mountains are characterized by valley glaciers and isolated nunataks. The southern half of the study area, however, is characterized by long narrow ridges, outwash plains, and glacial fiords. The climate is boreal, based on the classification of Trewartha (1968).

METHODS OF STUDY

Sample Media

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

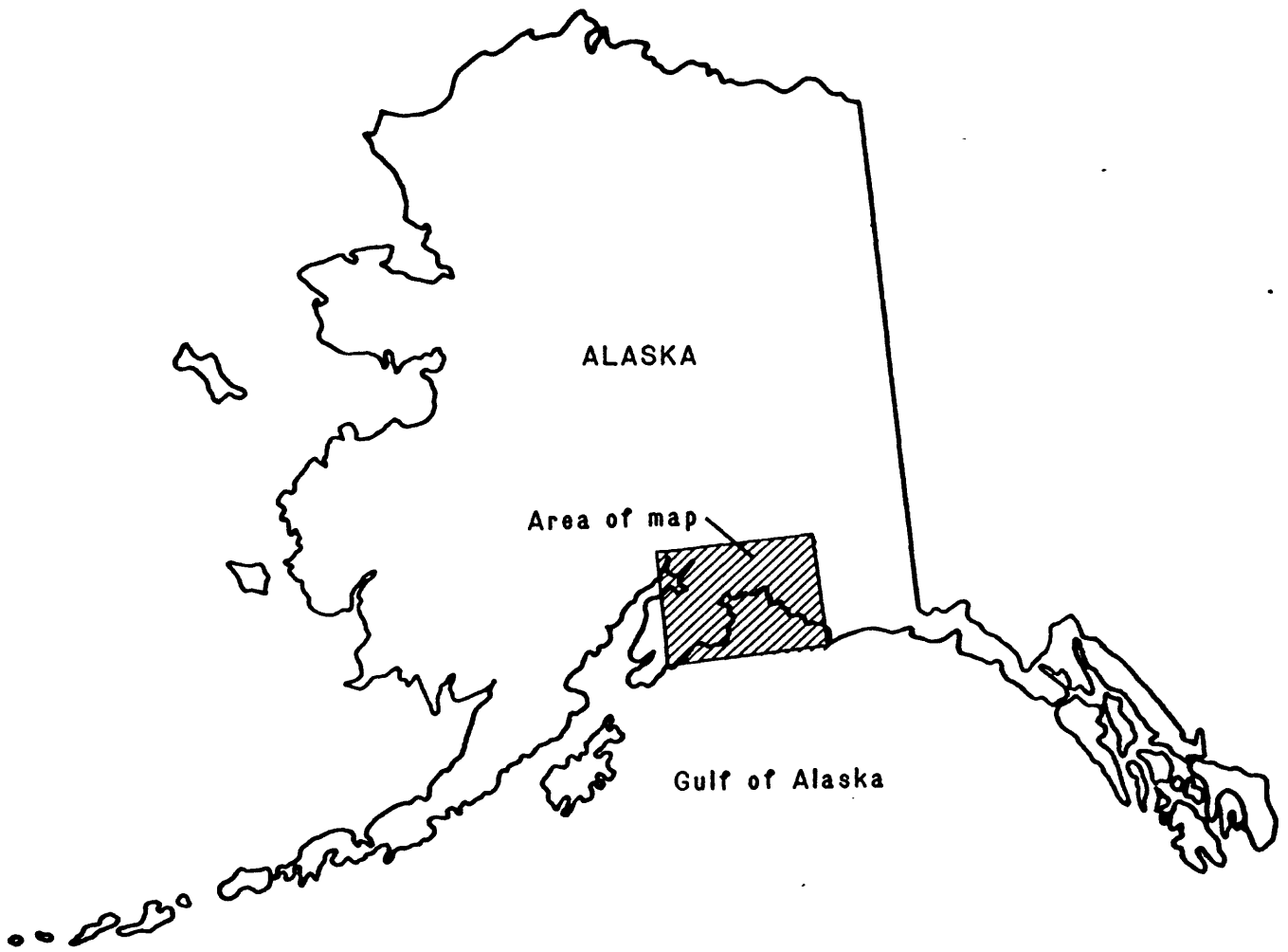


Figure 1. Index map of Alaska showing location of the Cordova and Middleton Island quadrangles.

Sample Collection

Samples were collected at 844 sites (plate 1). At nearly all of those sites, both a stream-sediment or moraine-sediment sample and a heavy-mineral-concentrate sample were collected. Sampling density was about one sample site per 4 mi² for the stream sediments, moraine, and heavy-mineral concentrates.

Stream-sediment and moraine-sediment samples

The stream-sediment samples consisted of active alluvium collected primarily from first-order (unbranched) and second-order (below the junction of two first-order) streams as shown on USGS topographic maps (scale = 1:63,360). In areas of extensive glacier cover, sediment was collected from active medial or lateral moraines. Each sample was composited from several localities within an area that may extend as much as 25 ft from the site plotted on the map.

Heavy-mineral-concentrate samples

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

Sample Preparation

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

After oven drying (at 125°C), bromoform (specific gravity 2.8) was used to remove the remaining quartz and feldspar from the heavy-mineral-concentrate samples that had been panned in the field. The resultant heavy mineral sample was separated into three fractions using a large electromagnet (in this case a modified Frantz Isodynamic Separator). The most magnetic material, primarily magnetite, was not analyzed. The second fraction, largely ferromagnesian silicates and iron oxides, was saved for analysis/archival storage. The third fraction (the least magnetic material which may include the nonmagnetic ore minerals, zircon, sphene, etc.) was split using a Jones splitter. One split was hand-ground for spectrographic analysis; the other split was saved for mineralogical analysis. These magnetic separates are the same separates that would be produced by using a Frantz Isodynamic Separator set at a slope of 15° and a tilt of 10° with a current of 0.1 ampere to remove the magnetite and ilmenite, and a current of 1.0 ampere to split the remainder of the sample into paramagnetic and nonmagnetic fractions.

Sample Analysis

Spectrographic method

The stream-sediment, heavy-mineral-concentrate, and moraine samples were analyzed for 31 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their lower limits of determination are listed in Table 1. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Values determined for the major elements (iron, magnesium, calcium, and titanium) are given in weight percent; all others are given in parts per million (micrograms/gram). Analytical (chemical) results for moraine-sediment and stream-sediment samples, and heavy-mineral concentrates from the Cordova and Middleton Island quadrangles are listed in Tables 3 and 4, respectively.

Chemical Methods

Other methods of analysis used on moraine- and stream-sediment samples from the Cordova and Middleton Island quadrangles are summarized in Table 2. Analytical results for moraine-sediment and stream-sediment samples are listed in Table 3.

ROCK ANALYSIS STORAGE SYSTEM

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

DESCRIPTION OF DATA TABLES

Tables 3-4 list the analyses for the samples of stream sediment, heavy-mineral concentrate, and rock, respectively. For the three tables, the data are arranged so that column 1 contains the USGS-assigned sample numbers. These numbers correspond to the numbers shown on the site location maps (plate 1). Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic analyses; "aa" indicates atomic absorption analyses. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination shown for that element in Table 1. If an element was observed but was below the lowest reporting value, a "less than" symbol (<) was entered in the tables in front of the lower limit of determination. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the tables in front of the upper limit of determination. If an element was

not looked for in a sample, two dashes (--) are entered in Tables 3-4 in place of an analytical value. Because of the formatting used in the computer program that produced Tables 3-4, some of the elements listed in these tables (Fe, Mg, Ca, Ti, Ag, and Be) carry one or more nonsignificant digits to the right of the significant digits. The analysts did not determine these elements to the accuracy suggested by the extra zeros.

The spectrographic determinations for Au, Cd, and Sb in stream-sediment and moraine-sediment samples were all below the lower limits of determinations shown in Table 1; consequently, the columns for these elements have been deleted from Table 3.

REFERENCES CITED

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- VanTrump, George, Jr., and Miesch, A. T., 1977, The U.S. Geological Survey RASS-STATPAC system for management and statistical reduction of geochemical data: Computers and Geosciences, v. 3, p. 475-488.
- Viets, J. G., 1978, Determination of silver, bismuth, cadmium, copper, lead, and zinc in geologic materials by atomic absorption spectrometry with tricapyrylmethylammonium chloride: Analytical Chemistry, v. 50, p. 1097-1101.

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

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

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

Table 2.--Commonly used chemical methods

[AA = atomic absorption]

Element or constituent determined	Sample Type	Method	Determination limit (micrograms/gram or ppm)	Analyst	Reference
Gold (Au)		AA	0.05		Thompson and others, 1968
Arsenic (As)		AA	5 or 10		<u>Modification of Viets, 1978</u>
Antimony (Sb)		AA	2		
Zinc (Zn)		AA	5		
Cadmium (Cd)		AA	0.1		

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.
 [N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Latitude	Longitude	Fe-ppt. S	Mg-ppt. S	Ca-pct. S	Tl-pct. S	Mn-ppt. S	Ag-ppt. S	As-ppt. S	R-ppt. S	Ra-ppt. S	Be-ppt. S	Co-ppt. S
001	60 19 4	146 34 12	5.0	1.00	.30	.70	1,000	N	N	70	1,000	1.0	30
002	60 17 58	146 36 58	5.0	1.00	.20	.50	1,000	N	N	70	700	<1.0	20
003	60 17 40	146 37 42	5.0	1.00	.20	.50	1,000	N	N	50	700	<1.0	20
004	60 15 48	146 40 42	7.0	1.50	.50	.70	1,000	N	N	70	1,000	1.0	30
005	60 15 40	146 33 43	5.0	1.00	.50	.70	1,000	N	N	70	1,000	1.0	20
006	60 17 45	146 29 2	7.0	1.50	.50	.70	1,000	N	N	70	1,000	1.0	15
007	60 15 2	146 58 21	7.0	2.00	.20	.70	3,000	1.5	N	100	1,000	1.0	50
008	60 43 52	145 43 50	5.0	1.00	.70	.50	1,000	N	N	20	1,000	<1.0	15
009	60 44 0	145 43 59	5.0	1.50	1.00	.70	2,000	N	N	20	1,000	1.0	30
010	60 43 36	145 46 0	5.0	1.50	.70	.50	1,500	N	N	30	1,000	<1.0	20
011	60 39 32	145 48 29	7.0	1.50	.70	.70	1,500	N	N	20	1,000	<1.0	10
012	60 39 8	145 47 34	5.0	1.00	.50	.50	1,500	N	N	50	1,000	1.0	20
013	60 41 32	145 43 42	5.0	1.50	.50	.50	1,000	N	N	30	700	1.0	15
014	60 40 19	145 38 32	5.0	1.50	.50	.50	2,000	N	N	30	1,000	<1.0	15
015	60 40 10	145 35 0	7.0	2.00	2.00	.50	2,000	N	N	<10	700	<1.0	30
016	60 30 56	145 35 40	7.0	2.00	2.00	.50	1,500	N	N	<10	700	N	30
017	60 33 25	145 50 38	5.0	1.50	1.50	.50	2,000	N	N	50	1,000	1.0	30
018	60 36 18	145 42 50	7.0	1.00	1.00	.70	3,000	N	N	50	1,000	<1.0	30
019	59 50 25	144 31 38	7.0	2.00	.50	.70	700	N	N	100	1,000	1.0	30
020	59 51 38	144 29 30	7.0	2.00	.50	1.00	1,000	N	N	100	1,000	1.0	30
021	59 54 4	144 25 15	7.0	2.00	1.50	.70	1,500	.5	N	150	5,000	1.0	70
022	60 45 27	144 47 43	3.0	1.50	2.00	.50	1,500	.5	N	100	1,500	1.5	100
023	59 54 48	144 23 45	5.0	2.00	.50	.70	700	N	N	100	1,500	1.0	30
024	59 53 38	144 29 10	7.0	2.00	.70	.70	1,000	N	N	100	1,500	1.0	30
025	59 56 10	144 25 22	7.0	2.00	.50	.70	1,000	N	N	100	1,000	1.0	20
026	59 57 30	144 22 0	5.0	2.00	.50	1.00	1,000	N	N	100	1,000	1.0	30
027	59 58 15	144 19 40	5.0	1.50	2.00	.50	1,000	N	N	30	500	<1.0	20
028	59 59 2	144 18 5	7.0	2.00	.50	.70	1,000	N	N	70	1,000	1.0	50
029	59 59 30	144 17 10	7.0	1.50	.30	.70	1,000	N	N	70	700	1.0	30
030	60 13 8	144 0 8	5.0	1.50	.50	.70	700	N	N	70	2,000	1.0	30
031	60 11 20	144 14 25	7.0	2.00	.70	.70	2,000	N	N	100	1,000	1.5	30
032	60 12 55	144 16 55	5.0	3.00	.30	.70	700	.7	N	100	2,000	1.5	30
033	60 16 55	144 16 12	7.0	1.50	.50	.70	1,500	N	N	100	1,000	1.0	30
034	60 11 18	144 24 20	7.0	2.00	.30	.50	1,000	N	N	100	1,000	1.0	30
035	60 13 18	144 23 50	7.0	2.00	.30	.70	1,000	N	N	100	1,000	1.0	50
036	60 23 52	144 2 35	3.0	1.00	.20	.70	1,000	N	N	30	700	1.0	20
037	60 24 2	144 1 52	3.0	1.00	.15	.50	700	N	N	20	700	1.0	15
038	60 22 55	144 12 10	5.0	1.00	.30	.70	1,000	N	N	50	700	1.0	20
039	60 24 28	144 12 21	7.0	1.50	.50	.70	1,500	N	N	70	1,000	1.0	30
040	60 23 38	144 16 42	7.0	1.00	.30	.50	1,000	N	N	70	700	1.0	30
041	60 19 58	144 18 20	10.0	1.50	.30	.70	1,000	N	N	100	500	1.0	30
042	60 18 58	144 20 18	7.0	1.50	.20	.50	700	N	N	50	500	1.0	20
043	60 15 50	144 21 30	7.0	1.50	.20	.70	500	N	N	70	1,000	1.0	30
044	60 17 30	144 25 40	7.0	2.00	.20	.70	500	N	N	70	700	1.0	30
045	60 16 15	144 27 15	7.0	2.00	.30	1.00	500	N	N	70	700	1.0	30

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORAINF SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sc-ppm	Sr-ppm	V-ppm	W-ppm	Y-ppm	Zn-ppm	Zr-ppm	Au-ppm
001	100	50	20	N	N	50	20	30	200	200	N	30	<200	200	N
002	100	70	N	N	N	70	15	20	100	200	N	20	N	150	N
003	100	30	20	N	N	50	15	20	100	200	N	15	<200	100	N
004	100	30	20	N	N	70	20	20	200	200	N	20	200	150	N
005	100	20	30	N	N	50	15	20	300	200	N	20	<200	200	N
006	70	30	20	N	N	50	15	20	300	200	N	20	<200	150	N
007	150	50	20	N	N	100	30	50	200	300	N	30	<200	300	N
008	150	30	20	N	N	30	15	20	300	150	N	20	200	200	N
009	150	70	20	N	N	150	20	30	300	200	N	20	<200	200	N
010	100	50	20	N	N	50	20	20	200	200	N	20	<200	200	N
011	70	30	N	N	N	20	10	15	300	200	N	15	N	100	N
012	100	30	20	N	N	50	15	30	200	200	N	30	<200	100	N
013	70	20	<20	N	N	30	15	20	300	200	N	20	N	150	N
014	100	30	30	N	N	50	20	20	200	200	N	20	N	200	N
015	150	70	20	N	N	70	<10	50	300	300	N	30	N	100	N
016	500	100	20	N	N	100	10	50	300	300	N	20	N	100	N
017	100	50	20	N	N	50	20	30	300	200	N	20	<200	200	N
018	100	100	20	N	N	50	30	50	200	200	N	20	200	150	N
019	150	70	20	N	N	70	20	30	150	200	N	20	300	150	N
020	150	100	20	N	N	100	20	30	200	200	N	20	200	150	N
021	200	150	20	20	N	150	30	50	500	200	N	50	300	150	N
022	70	50	20	<5	N	100	70	20	500	200	N	50	<200	100	--
023	150	100	20	5	N	100	20	30	300	200	N	20	200	150	N
024	150	100	20	<5	N	100	20	30	300	200	N	20	200	200	N
025	150	100	N	N	N	50	20	30	200	200	N	15	<200	150	N
026	150	100	20	N	N	70	20	50	200	300	N	20	200	200	N
027	100	20	<20	N	N	30	10	30	500	200	N	20	N	100	N
028	500	70	30	N	N	150	20	50	300	200	N	20	<200	150	N
029	150	50	20	N	N	70	20	30	200	200	N	15	200	200	N
030	150	70	20	7	N	70	20	30	200	200	N	30	200	200	N
031	150	100	20	N	N	50	20	50	300	200	N	20	<200	200	N
032	500	70	50	10	N	100	20	50	200	150	N	50	300	200	N
033	100	100	20	5	N	100	20	30	200	300	N	20	300	200	N
034	150	70	20	N	N	70	20	30	200	300	N	20	200	200	N
035	150	70	<20	N	N	70	15	50	150	300	N	20	<200	200	N
036	100	30	20	N	N	50	20	20	100	200	N	15	N	500	N
037	70	20	N	N	N	50	10	20	150	150	N	10	N	300	N
038	150	30	20	N	N	50	15	20	200	150	N	15	<200	150	N
039	150	50	20	N	N	50	20	30	300	200	N	20	<200	200	N
040	100	50	30	N	N	50	20	30	200	200	N	20	<200	150	N
041	150	70	20	N	N	70	20	30	100	300	N	20	<200	200	N
042	100	50	<20	N	N	50	20	20	100	150	N	30	<200	200	N
043	150	70	20	N	N	50	20	30	200	200	N	20	<200	150	N
044	150	70	20	N	N	50	15	30	100	300	N	20	<200	200	N
045	100	50	20	N	N	70	20	30	100	300	N	20	<200	200	N

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
001	120	--	--	--
002	130	--	--	--
003	45	--	--	--
004	95	--	--	--
005	130	--	--	--
006	100	--	--	--
007	140	--	--	--
008	45	--	--	--
009	100	--	--	--
010	90	--	--	--
011	100	--	--	--
012	110	--	--	--
013	90	--	--	--
014	140	--	--	--
015	90	--	--	--
016	120	--	--	--
017	50	--	--	--
018	70	--	--	--
019	130	--	--	--
020	150	--	--	--
021	150	--	--	--
022	100	N	.20	10
023	80	--	--	--
024	180	--	--	--
025	180	--	--	--
026	150	--	--	--
027	140	--	--	--
028	45	--	--	--
029	120	--	--	--
030	100	--	--	--
031	100	--	--	--
032	100	--	--	--
033	110	--	--	--
034	220	--	--	--
035	200	--	--	--
036	90	--	--	--
037	70	--	--	--
038	60	--	--	--
039	80	--	--	--
040	100	--	--	--
041	100	--	--	--
042	110	--	--	--
043	95	--	--	--
044	100	--	--	--
045	100	--	--	--

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	B-ppm S	Ba-ppm S	Be-ppm S	Co-ppm S
046	60 20 38	144 29 10	10.0	1.50	.30	.70	700	N	N	100	700	1.0	30
047	60 21 0	144 27 58	7.0	1.00	.20	.70	700	N	N	70	500	1.0	20
048	60 20 5	144 31 48	7.0	2.00	1.50	1.00	1,500	N	N	70	700	<1.0	50
049	60 19 42	144 31 10	10.0	2.00	.50	1.00	1,000	N	N	70	700	1.0	30
050	60 28 18	144 25 45	5.0	3.00	2.00	.70	1,000	N	N	15	500	<1.0	30
051	60 28 40	144 30 22	5.0	1.50	1.50	.50	700	N	N	10	700	1.0	20
052	60 28 50	144 35 22	5.0	2.00	1.00	.70	700	N	N	50	700	1.0	30
053	60 28 50	144 35 35	5.0	1.00	1.50	.50	1,000	N	N	20	1,000	1.0	15
054	60 29 42	144 32 58	7.0	1.50	1.00	.70	1,000	N	N	30	500	<1.0	30
055	60 23 50	144 39 0	10.0	3.00	1.00	.70	1,500	N	N	50	1,000	1.0	30
056	60 20 18	144 37 52	10.0	5.00	3.00	1.00	1,500	N	N	10	300	<1.0	50
057	60 21 12	144 41 58	5.0	1.50	1.00	.50	1,000	N	N	10	700	1.0	30
058	60 18 15	144 39 38	5.0	2.00	1.50	.50	1,500	N	N	20	500	<1.0	30
059	60 16 10	144 36 5	10.0	5.00	5.00	1.00	2,000	N	N	15	200	N	50
060	60 23 8	144 28 28	7.0	2.00	.30	.70	1,500	N	N	100	700	1.0	50
061	60 23 45	144 25 5	7.0	1.50	.15	.70	700	N	N	100	700	1.0	20
062	60 12 52	144 30 18	7.0	2.00	.50	.70	3,000	N	N	100	700	1.0	30
063	60 14 22	144 34 52	10.0	3.00	3.00	1.00	3,000	N	N	100	1,000	<1.0	50
064	60 30 45	144 37 30	7.0	2.00	1.00	.50	1,500	N	N	20	1,000	1.5	20
065	60 33 10	144 44 0	5.0	1.00	1.50	.50	1,500	N	N	15	1,000	1.5	20
066	60 11 2	144 35 0	3.0	2.00	3.00	.50	1,000	N	N	50	700	1.0	30
067	60 14 20	144 37 0	3.0	3.00	1.50	.70	2,000	N	N	50	1,000	1.0	50
068	60 31 5	145 14 20	3.0	2.00	2.00	.50	1,500	3.0	N	20	1,000	1.0	30
069	60 28 20	145 7 30	2.0	1.50	1.50	.50	700	N	N	15	1,000	1.0	20
070	60 28 42	145 9 45	5.0	2.00	1.00	.70	1,500	<.5	N	20	1,500	1.0	50
071	60 28 42	145 10 5	2.0	2.00	1.50	.30	1,000	N	N	20	1,000	1.0	20
072	60 28 10	145 11 30	3.0	1.50	1.00	.50	1,500	N	N	30	1,000	1.0	30
073	60 27 32	145 15 30	3.0	1.50	1.50	.50	1,500	N	N	20	700	<1.0	70
074	60 31 52	145 23 10	3.0	2.00	1.50	.50	1,500	N	N	20	1,000	1.0	50
075	60 33 10	145 26 22	5.0	2.00	1.00	.50	2,000	N	N	30	1,500	1.0	50
076	60 34 58	145 24 58	3.0	2.00	1.00	.50	1,000	N	N	20	1,000	<1.0	30
077	60 36 42	145 27 28	3.0	3.00	1.50	.50	1,500	N	N	20	1,000	<1.0	30
078	60 38 10	145 24 20	5.0	3.00	2.00	.70	1,000	N	N	15	500	N	50
079	60 43 40	145 26 20	7.0	5.00	5.00	.70	1,000	N	N	10	300	N	70
080	60 42 27	145 53 32	3.0	2.00	1.00	.70	1,000	N	N	50	1,500	1.0	30
081	60 43 8	145 53 55	3.0	1.00	1.50	.50	1,000	N	N	15	1,000	<1.0	20
082	60 40 13	146 1 22	5.0	3.00	3.00	.50	1,500	<.5	N	30	700	<1.0	50
083	60 39 5	146 7 48	3.0	1.50	.70	.30	2,000	N	N	20	500	1.5	50
084	60 38 22	145 59 30	2.0	1.50	.50	.30	2,000	N	N	30	700	<1.0	50
085	60 39 45	145 57 28	3.0	1.50	1.50	.50	1,500	N	N	50	1,000	<1.0	30
086	60 54 38	146 8 10	3.0	1.50	1.50	.70	1,000	N	N	20	700	1.0	20
087	60 54 35	146 8 30	2.0	1.00	.70	.50	500	N	N	15	700	<1.0	15
088	60 53 5	146 10 15	3.0	2.00	1.00	.50	1,000	N	N	20	700	<1.0	20
089	60 53 22	146 11 35	3.0	2.00	.70	.50	1,000	N	N	30	1,000	1.0	30
090	60 53 30	146 14 38	3.0	1.50	1.00	.50	500	N	N	20	1,000	1.0	20

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sc-ppm	Sr-ppm	V-ppm	W-ppm	Y-ppm	Zn-ppm	Zr-ppm	Au-ppm
046	100	70	20	N	N	70	20	30	100	300	N	20	<200	150	N
047	100	50	15	N	N	50	15	30	100	200	N	20	<200	200	N
048	150	100	30	N	N	70	20	50	150	500	N	30	<200	200	N
049	150	70	20	N	N	70	20	30	150	300	N	30	<200	200	N
050	150	150	20	N	N	70	15	30	300	150	N	20	<200	150	N
051	70	20	20	N	N	20	15	30	300	150	N	20	N	150	N
052	100	50	50	N	N	50	30	30	300	200	N	20	<200	300	N
053	70	15	70	N	N	20	15	30	500	150	N	30	700	700	N
054	100	30	70	N	N	50	15	30	200	200	N	20	<200	500	N
055	150	70	70	N	N	70	20	50	300	200	N	30	<200	150	N
056	200	150	20	N	N	100	10	70	300	500	N	30	N	150	N
057	100	50	50	<5	N	30	20	20	200	200	N	20	N	100	N
058	150	70	30	N	N	10	10	300	300	300	N	20	N	150	N
059	200	200	20	N	N	70	<10	70	200	500	N	30	<200	100	N
060	100	30	50	N	N	70	30	30	200	200	N	20	<200	200	N
061	150	50	50	N	N	70	20	50	150	300	N	20	<200	150	N
062	150	100	50	N	N	70	20	50	200	200	N	15	<200	150	N
063	200	150	50	N	N	100	10	50	300	500	N	50	<200	100	N
064	100	30	30	N	N	50	20	20	300	200	N	30	N	200	N
065	70	20	70	N	N	30	15	20	500	150	N	30	<200	300	N
066	200	30	N	N	N	50	20	30	500	200	N	20	N	150	N
067	200	50	20	N	N	70	20	50	300	200	N	30	<200	150	N
068	100	30	20	N	N	30	30	30	300	150	N	30	N	200	N
069	150	30	20	N	N	30	30	30	500	150	N	20	N	200	N
070	200	70	30	N	N	70	50	50	300	200	N	30	<200	150	N
071	100	30	30	N	N	50	30	20	500	150	N	20	<200	150	N
072	100	50	20	5	N	50	30	30	300	150	N	20	<200	150	N
073	100	30	30	5	N	30	30	30	300	200	N	30	N	150	N
074	100	150	20	N	N	50	50	30	500	200	N	30	<200	100	N
075	150	50	30	N	N	70	30	50	300	200	N	30	<200	150	N
076	100	70	20	N	N	30	30	30	200	200	N	20	<200	100	N
077	150	30	50	N	N	50	50	30	500	200	N	30	N	150	N
078	200	100	30	N	N	200	15	50	300	300	N	50	N	100	N
079	300	150	20	N	N	70	<10	70	200	300	N	70	N	100	N
080	300	50	30	N	N	50	30	30	300	200	N	20	<200	150	N
081	100	20	200	N	N	30	20	30	150	100	N	50	<200	200	N
082	300	100	30	N	N	100	20	50	200	300	N	30	<200	100	N
083	150	30	70	7	N	50	30	20	100	150	N	70	<200	150	N
084	100	30	30	N	N	50	20	20	200	150	N	20	<200	150	N
085	150	30	30	N	N	50	30	30	500	150	N	20	<200	150	N
086	200	30	50	N	N	70	20	20	500	100	N	30	<200	200	N
087	100	20	50	N	N	30	20	20	300	100	N	20	N	200	N
088	300	30	30	N	N	50	30	30	500	150	N	30	N	200	N
089	150	30	50	N	N	50	30	30	300	150	N	20	<200	150	N
090	150	30	50	N	N	30	20	30	500	150	N	30	N	200	N

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
046	100	--	--	--
047	100	--	--	--
048	100	--	--	--
049	90	--	--	--
050	130	--	--	--
051	120	--	--	--
052	50	--	--	--
053	90	--	--	--
054	50	--	--	--
055	85	--	--	--
056	110	--	--	--
057	75	--	--	--
058	90	--	--	--
059	60	--	--	--
060	60	--	--	--
061	120	--	--	--
062	150	--	--	--
063	95	--	--	--
064	90	--	--	--
065	85	--	--	--
066	95	--	--	--
067	45	--	--	--
068	60	--	--	--
069	110	--	--	--
070	65	--	--	--
071	130	--	--	--
072	85	--	--	--
073	110	--	--	--
074	90	--	--	--
075	120	--	--	--
076	130	--	--	--
077	120	--	--	--
078	120	--	--	--
079	75	--	--	--
080	140	--	--	--
081	10	--	--	--
082	55	--	--	--
083	75	--	--	--
084	80	--	--	--
085	120	--	--	--
086	55	--	--	--
087	70	--	--	--
088	70	--	--	--
089	70	--	--	--
090	95	--	--	--

**SYSTEM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES,
ALASKA.--Continued**

Latitude	Longitude	Fe-ppt.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	B-ppm	Ba-ppm	Be-ppm	Co-ppm	
		S	S	S	S	S	S	S	S	S	S	S	
091	60 51 2	146 7 25	2.0	1.50	1.00	.50	700	N	N	30	1,000	1.0	20
092	60 50 25	146 5 5	3.0	1.00	1.50	.50	700	N	N	20	1,000	1.0	20
093	60 52 42	145 57 10	5.0	2.00	1.50	.50	1,500	N	N	10	500	<1.0	30
094	60 50 45	145 59 48	5.0	3.00	1.50	.50	1,000	N	N	10	500	<1.0	30
095	60 49 10	145 54 0	3.0	1.00	1.00	.30	700	N	N	20	700	1.0	15
095	60 49 40	145 52 50	3.0	1.00	1.00	.50	5,000	N	N	15	500	1.0	20
097	60 48 48	146 1 8	3.0	1.50	1.00	.30	1,000	N	N	20	1,000	1.0	20
098	60 47 25	146 3 48	3.0	3.00	1.00	.30	1,500	N	N	50	1,000	1.5	30
099	60 45 28	145 58 22	2.0	1.00	1.50	.30	700	N	N	30	1,000	1.0	15
100	60 45 45	146 9 50	2.0	1.50	.30	.30	700	N	N	30	1,000	1.0	15
101	60 45 45	146 10 20	2.0	.70	.70	.20	500	N	N	20	500	1.5	20
102	60 44 58	146 13 32	3.0	1.50	1.00	.50	700	N	N	50	1,000	1.5	20
103	60 44 2	146 10 12	1.5	.70	.70	.15	5,000	N	N	30	500	2.0	30
104	60 39 52	146 12 52	5.0	2.00	2.00	.30	3,000	N	N	15	300	<1.0	50
105	60 41 18	146 10 50	2.0	1.50	.70	.20	1,500	N	200	20	500	2.0	30
106	60 42 22	146 7 35	3.0	2.00	.50	.30	1,500	N	500	20	500	2.0	20
107	60 42 40	146 3 58	2.0	1.00	1.00	.20	500	N	N	30	700	1.5	20
108	60 49 30	145 45 30	5.0	1.50	1.00	.50	1,500	N	N	20	700	1.5	30
109	60 50 8	145 49 42	5.0	2.00	1.00	.50	5,000	N	N	20	700	1.0	30
110	60 50 25	145 49 5	3.0	1.00	1.00	.70	>5,000	N	N	15	500	<1.0	15
111	60 47 48	145 51 5	2.0	1.50	2.00	.50	700	N	N	20	1,000	1.0	20
112	60 35 2	145 53 55	3.0	1.00	.70	.50	2,000	N	N	30	700	1.0	50
113	60 33 25	145 55 30	3.0	2.00	.70	.50	1,500	N	N	50	700	1.0	50
114	60 33 15	145 59 50	2.0	.70	.50	.20	1,500	N	N	30	300	1.0	20
115	60 31 35	146 5 10	10.0	2.00	1.00	.50	>5,000	N	N	10	500	1.0	70
116	60 30 45	146 6 50	3.0	2.00	.30	.50	2,000	N	N	50	700	1.0	30
117	60 30 50	146 13 30	5.0	1.50	.30	.50	1,500	N	N	50	1,000	1.0	30
118	60 27 30	146 15 55	5.0	2.00	.50	.50	3,000	N	N	50	1,000	1.0	50
119	60 27 35	146 11 55	5.0	3.00	.50	.50	1,500	N	N	50	1,000	1.0	30
120	60 26 40	146 22 5	3.0	1.50	.20	.50	500	N	N	50	700	<1.0	30
121	60 27 38	146 22 5	5.0	2.00	.70	.50	1,500	N	N	30	1,000	<1.0	30
122	60 25 32	146 22 5	3.0	2.00	.50	.50	1,000	N	N	30	700	<1.0	20
123	60 23 50	146 22 0	7.0	3.00	1.00	1.00	1,000	N	N	50	700	<1.0	50
124	60 27 10	146 27 5	5.0	2.00	.70	.70	1,500	N	N	50	1,000	<1.0	30
125	60 27 10	146 29 20	5.0	2.00	.20	.50	500	N	N	50	700	<1.0	70
126	60 27 15	146 31 55	5.0	2.00	.30	.50	1,500	N	N	50	700	1.0	30
127	60 25 50	146 37 50	2.0	1.50	.30	.30	500	N	N	30	500	<1.0	20
128	60 25 35	146 37 40	2.0	1.00	.50	.30	500	N	N	30	500	1.0	15
129	60 24 22	146 41 2	2.0	1.50	.20	.50	500	N	N	50	700	<1.0	20
130	60 24 40	146 41 0	2.0	1.00	.20	.50	500	N	N	50	700	<1.0	20
131	60 23 5	146 42 0	2.0	1.00	.15	.50	500	N	N	50	700	1.0	20
132	60 22 5	146 43 0	2.0	1.50	.30	.50	500	N	N	50	1,000	1.0	30
133	60 21 8	146 34 48	3.0	2.00	.70	.50	1,500	N	N	50	700	<1.0	30
134	60 23 12	146 33 25	3.0	1.50	.30	.50	500	N	N	50	700	<1.0	30
135	60 22 32	146 35 28	3.0	1.50	.30	.50	700	N	N	50	700	<1.0	20

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sc-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Au-ppm aa
091	100	15	30	N	N	30	30	20	300	100	N	20	<200	100	N
092	150	20	50	N	N	30	30	30	500	150	N	30	N	150	N
093	200	70	20	N	N	50	20	30	200	100	N	30	N	150	N
094	200	30	20	N	N	50	20	50	200	150	N	20	N	100	N
095	100	20	50	N	N	20	30	20	200	100	N	15	N	300	N
096	70	50	30	N	N	30	20	30	200	100	N	50	<200	150	N
097	100	30	20	N	N	30	30	30	300	150	N	20	<200	150	N
098	100	30	20	N	N	50	50	30	300	100	N	20	200	150	N
099	100	20	50	N	N	30	30	30	200	100	N	20	<200	150	N
100	70	30	50	N	N	30	30	20	300	100	N	15	N	150	N
101	50	15	20	N	N	20	20	15	200	100	N	15	N	100	N
102	100	20	50	N	N	30	20	20	300	150	N	20	N	200	N
103	30	10	20	N	N	20	15	10	100	70	N	15	<200	70	N
104	300	50	20	N	N	70	30	30	100	200	N	30	<200	100	N
105	70	20	30	5	N	30	50	15	150	100	N	30	N	150	N
106	30	20	70	7	N	20	50	10	100	70	<50	50	N	150	N
107	50	15	50	N	N	20	50	15	150	70	N	30	N	200	N
108	100	50	50	N	N	50	20	30	300	150	N	20	<200	100	N
109	150	50	20	N	N	50	30	30	300	200	N	70	<200	150	N
110	70	70	N	N	N	20	20	30	200	150	N	70	<200	150	N
111	100	30	50	N	N	30	30	30	300	150	N	30	N	100	N
112	100	20	20	N	N	50	30	20	150	200	N	15	200	150	N
113	100	30	30	10	N	50	50	30	300	200	N	20	<200	150	N
114	50	20	<20	N	N	20	15	15	200	100	N	10	N	50	N
115	200	50	50	N	N	70	20	50	150	300	N	70	200	100	N
116	150	30	20	N	N	50	50	20	200	150	N	20	200	150	N
117	100	20	30	N	N	50	30	20	200	200	N	20	200	100	N
118	150	50	30	<5	N	70	50	30	200	200	N	30	<200	150	N
119	100	30	20	N	N	50	50	20	300	150	N	20	300	150	N
120	150	30	20	N	N	50	30	20	150	200	N	15	<200	150	N
121	100	30	20	N	N	50	30	30	300	200	N	20	<200	150	N
122	100	30	N	N	N	50	30	20	200	200	N	15	N	100	N
123	200	70	20	N	N	70	30	50	300	300	N	30	<200	100	N
124	150	70	20	N	N	70	50	20	300	200	N	30	200	200	N
125	100	30	20	N	N	30	50	20	200	200	N	20	<200	100	N
126	100	30	20	N	N	30	30	20	200	150	N	20	<200	150	N
127	70	70	N	N	N	30	20	30	300	100	N	15	N	150	N
128	50	50	30	N	N	20	30	20	300	100	N	20	<200	100	N
129	100	20	30	N	N	20	20	30	200	150	N	20	N	150	N
130	150	50	30	N	N	20	20	30	300	150	N	20	N	150	N
131	100	30	20	N	N	30	30	20	200	150	N	30	<200	150	N
132	100	30	30	N	N	30	50	30	200	150	N	30	<200	200	N
133	150	70	20	N	N	50	30	50	300	200	N	30	<200	150	N
134	100	30	50	N	N	30	20	30	200	150	N	20	N	150	N
135	100	50	<20	N	N	50	20	30	200	150	N	15	N	100	N

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
091	70	--	--	--
092	70	--	--	--
093	110	--	--	--
094	85	--	--	--
095	85	--	--	--
096	60	--	--	--
097	65	--	--	--
098	95	--	--	--
099	--	--	--	--
100	70	--	--	--
101	85	--	--	--
102	65	--	--	--
103	85	--	--	--
104	150	--	--	--
105	75	--	--	--
106	--	--	--	--
107	45	--	--	--
108	85	--	--	--
109	90	--	--	--
110	80	--	--	--
111	60	--	--	--
112	45	--	--	--
113	--	--	--	--
114	--	--	--	--
115	110	--	--	--
116	150	--	--	--
117	110	--	--	--
118	90	--	--	--
119	90	--	--	--
120	110	--	--	--
121	120	--	--	--
122	75	--	--	--
123	80	--	--	--
124	95	--	--	--
125	130	--	--	--
126	120	--	--	--
127	160	--	--	--
128	95	--	--	--
129	95	--	--	--
130	65	--	--	--
131	70	--	--	--
132	75	--	--	--
133	85	--	--	--
134	75	--	--	--
135	RD	--	--	--

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORAINF SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	B-ppm S	Ra-ppm S	Re-ppm S	Co-ppm S
136	60 21 58	146 28 30	3.0	2.00	.50	.70	1,000	N	N	50	1,000	1.0	30
137	60 22 0	146 28 40	3.0	1.50	.50	.50	1,000	N	N	50	1,000	1.0	30
138	60 20 35	146 30 40	3.0	1.50	.20	.50	1,000	N	N	70	700	<1.0	30
139	60 20 5	146 31 0	3.0	1.50	.20	.50	700	N	N	70	1,000	1.0	20
140	60 19 35	146 23 45	3.0	1.50	.20	.50	1,000	N	N	70	1,000	<1.0	30
141	60 20 0	146 22 20	5.0	3.00	1.50	.70	2,000	N	N	15	700	<1.0	50
142	60 20 55	146 18 10	3.0	3.00	3.00	.70	1,000	N	N	20	500	<1.0	30
143	60 58 10	146 57 10	3.0	1.50	.30	.50	1,000	N	N	50	700	1.0	30
144	60 59 20	146 41 28	7.0	2.00	.20	.70	1,500	N	N	100	700	1.0	30
145	60 57 25	146 37 15	3.0	2.00	.50	.70	1,500	N	N	50	1,000	1.0	30
146	60 55 32	146 25 32	2.0	1.00	.70	.70	500	<.5	N	15	1,000	1.0	15
147	60 55 28	146 35 22	3.0	1.50	.50	.50	700	N	N	30	700	1.0	30
148	60 54 40	146 33 52	3.0	2.00	.50	.70	700	N	N	50	1,000	1.0	30
149	60 55 25	146 37 20	5.0	3.00	1.00	.50	>5,000	N	N	30	700	<1.0	100
150	60 54 40	146 43 25	5.0	5.00	2.00	.50	1,500	N	N	20	300	<1.0	50
151	60 53 55	146 41 50	5.0	5.00	1.50	.50	1,500	N	N	50	500	<1.0	70
152	60 55 35	146 17 50	5.0	1.50	1.50	.50	500	<.5	N	30	1,000	1.0	20
153	60 54 0	146 16 22	3.0	2.00	1.50	.50	700	N	N	20	1,000	1.5	20
154	60 50 35	146 22 48	5.0	2.00	.70	.50	1,000	N	N	30	1,000	1.0	30
155	60 49 22	146 27 5	5.0	2.00	1.00	.50	2,000	N	N	50	1,000	1.0	30
156	60 51 30	146 30 59	5.0	1.50	.30	.70	1,500	N	N	70	1,000	1.0	30
157	60 45 40	146 23 50	5.0	3.00	1.50	.50	2,000	N	N	20	700	<1.0	50
158	60 44 28	146 25 5	7.0	2.00	.70	.30	>5,000	N	N	30	700	1.5	100
159	60 43 55	146 20 55	5.0	5.00	3.00	.50	1,500	N	N	20	500	N	30
160	60 43 25	146 16 30	3.0	1.50	.70	.50	1,000	N	N	20	1,000	1.0	30
161	60 56 26	145 55 20	7.0	2.00	1.00	.50	1,000	N	N	50	1,000	1.0	20
162	60 56 23	145 55 18	7.0	2.00	1.00	.50	1,500	N	N	50	1,000	1.0	15
163	60 56 53	145 53 8	7.0	2.00	1.00	.30	1,000	N	N	20	700	1.0	20
164	60 56 32	145 55 0	7.0	2.00	1.00	.30	1,500	N	N	20	700	1.0	10
165	60 57 52	145 55 5	7.0	10.00	2.00	.30	1,500	N	N	30	700	1.0	30
166	60 59 19	145 55 30	5.0	2.00	1.00	.30	1,000	N	N	30	1,000	1.0	15
167	60 59 41	145 55 55	7.0	10.00	5.00	.30	1,500	N	N	20	300	N	50
168	60 59 20	146 1 10	7.0	5.00	2.00	.50	1,000	N	N	50	1,000	1.0	30
169	60 59 58	146 15 30	7.0	10.00	5.00	.50	2,000	N	N	70	300	N	70
170	60 55 50	146 43 53	5.0	2.00	2.00	.30	1,000	N	N	70	700	1.0	30
171	60 57 6	146 40 15	3.0	1.00	1.00	.30	1,500	N	N	70	700	1.0	30
172	60 57 49	146 41 50	5.0	1.00	1.00	.30	3,000	N	N	70	700	1.0	70
173	60 58 5	145 43 40	7.0	5.00	2.00	.30	1,000	N	N	10	300	N	50
174	60 58 5	145 43 27	7.0	5.00	2.00	.50	1,000	N	N	10	500	N	50
175	60 57 26	145 41 38	7.0	2.00	1.00	.50	1,000	N	N	50	700	N	30
176	60 58 25	145 44 59	5.0	2.00	1.00	.50	1,000	N	N	20	700	N	30
177	60 59 10	145 42 49	5.0	1.00	1.00	.50	1,000	N	N	20	700	1.0	20
178	60 57 38	144 47 10	5.0	1.00	2.00	.70	1,000	N	N	50	700	1.0	20
179	60 59 31	144 49 34	5.0	1.00	1.00	.50	1,000	N	N	50	700	1.0	15
180	60 59 57	144 57 59	3.0	.70	1.00	.50	700	N	N	50	700	1.0	15

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sc-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Au-ppm aa
136	150	70	<20	N	N	50	30	50	200	200	N	30	<200	150	N
137	200	50	<20	N	N	50	20	50	200	150	N	20	200	100	N
138	138	50	<20	N	N	50	20	30	150	150	N	20	<200	100	N
139	150	50	20	N	N	50	20	30	200	100	N	20	<200	150	N
140	150	30	<20	N	N	50	20	30	200	150	N	20	<200	150	N
141	150	150	N	N	N	50	15	50	200	200	N	70	200	150	N
142	200	50	<20	N	N	70	15	50	500	200	N	50	<200	200	N
143	100	50	20	N	N	50	20	20	200	200	N	20	200	150	N
144	150	50	20	N	N	70	30	30	100	300	N	30	300	200	N
145	150	30	30	N	N	50	50	30	300	200	N	30	200	150	N
146	150	20	50	N	N	20	30	20	300	150	N	30	N	300	N
147	150	50	50	N	N	30	30	30	300	200	N	30	<200	150	N
148	200	70	50	N	N	100	50	30	200	200	N	50	<200	150	N
149	200	200	50	N	N	100	50	50	150	200	N	20	200	100	N
150	300	70	30	N	N	100	20	70	100	300	N	30	<200	100	N
151	300	50	30	N	N	70	30	50	100	200	N	30	200	200	N
152	150	50	50	N	N	50	30	30	500	200	N	50	N	200	N
153	150	30	50	N	N	50	30	30	500	150	N	30	<200	200	N
154	150	30	50	N	N	50	50	30	300	200	N	30	<200	150	N
155	200	50	50	N	N	70	50	50	300	200	N	50	200	150	N
156	100	50	70	N	N	50	30	30	300	200	N	20	200	200	N
157	300	50	50	5	N	70	20	50	200	200	N	30	200	200	N
158	70	50	30	5	N	50	70	20	200	150	N	30	300	150	N
159	500	20	50	N	N	70	10	70	200	200	N	50	<200	200	N
160	70	20	50	<5	N	50	50	30	300	150	N	20	<200	150	N
161	200	30	20	N	N	50	200	20	500	300	N	30	N	200	--
162	150	30	20	N	N	70	30	20	500	300	N	30	N	150	--
163	150	30	N	N	N	70	30	15	300	300	N	30	N	100	--
164	150	20	N	N	N	70	30	15	300	300	N	20	N	50	--
165	500	30	N	N	N	100	30	15	200	300	N	20	N	70	--
166	150	30	N	N	N	70	30	15	300	300	N	10	N	150	--
167	1,500	200	N	N	N	150	N	30	200	300	N	10	N	70	--
168	300	50	20	N	N	100	20	30	300	300	N	30	N	200	--
169	1,000	50	N	N	N	150	10	50	300	300	N	30	<200	100	--
170	150	30	N	N	N	70	20	30	300	200	N	30	N	100	--
171	100	30	20	N	N	50	30	20	200	200	N	30	N	100	--
172	150	30	20	N	N	70	30	20	200	200	N	30	N	200	--
173	200	100	N	N	N	100	20	30	N	300	N	20	N	100	--
174	200	150	N	N	N	100	30	20	200	300	N	30	N	70	--
175	150	30	N	N	N	70	30	20	300	300	N	30	N	200	--
176	150	50	N	N	N	70	30	15	300	200	N	30	N	150	--
177	150	30	50	N	N	70	30	15	300	200	N	30	N	150	--
178	150	30	50	N	N	70	30	20	300	200	N	50	N	200	--
179	100	30	20	N	N	50	30	15	300	200	N	30	N	200	--
180	100	30	20	N	N	50	20	15	500	150	N	30	N	500	--

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm	Sb-ppm	Cd-ppm	As-ppm
	aa	aa	aa	aa
136	100	--	--	--
137	120	--	--	--
138	120	--	--	--
139	120	--	--	--
140	110	--	--	--
141	110	--	--	--
142	120	--	--	--
143	130	--	--	--
144	130	--	--	--
145	110	--	--	--
146	120	--	--	--
147	70	--	--	--
148	100	--	--	--
149	130	--	--	--
150	230	--	--	--
151	100	--	--	--
152	70	--	--	--
153	75	--	--	--
154	110	--	--	--
155	130	--	--	--
156	90	--	--	--
157	150	--	--	--
158	85	--	--	--
159	240	--	--	--
160	40	--	--	--
161	70	N	.05	20
162	80	N	.05	5
163	70	N	.10	5
164	80	N	.05	5
165	130	N	.15	10
166	80	N	.05	10
167	40	N	<.05	10
168	110	N	.10	10
169	45	N	.05	5
170	--	--	--	--
171	120	N	.15	10
172	130	<1	.30	10
173	110	N	.15	15
174	80	N	.10	30
175	100	N	.10	15
176	100	N	.15	15
177	80	N	.10	5
178	90	N	.10	10
179	80	N	.10	5
180	60	N	.05	<5

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	R-ppm S	Ba-ppm S	Be-ppm S	Co-ppm S
181	60 59 49	144 59 54	5.0	1.00	1.00	.70	1,500	N	N	50	700	1.0	15
182	60 59 10	145 3 0	5.0	5.00	5.00	.30	1,500	N	N	70	500	N	30
183	60 59 53	146 58 22	7.0	1.00	.70	.50	2,000	N	N	70	700	2.0	50
184	60 59 20	146 51 25	7.0	1.00	1.00	.50	2,000	N	N	150	700	2.0	50
185	60 55 26	146 26 38	5.0	2.00	2.00	.50	1,000	N	N	50	1,000	1.0	20
186	60 56 8	146 24 40	5.0	1.00	2.00	.50	1,000	N	N	50	1,000	2.0	20
187	60 55 57	146 30 4	5.0	1.00	1.00	.50	1,000	N	N	50	1,000	2.0	30
188	60 57 28	146 31 5	5.0	1.00	1.00	.50	1,000	N	N	50	1,000	2.0	30
189	60 56 13	146 33 2	7.0	2.00	1.00	.50	1,500	N	N	70	1,000	2.0	50
190	60 58 20	146 18 35	5.0	1.00	2.00	.50	1,000	N	N	50	1,500	1.0	15
191	60 58 40	146 25 10	5.0	1.00	2.00	.50	1,000	N	N	20	1,000	2.0	15
192	60 57 40	146 25 50	5.0	1.00	2.00	.50	700	N	N	20	700	2.0	15
193	60 58 45	146 25 10	5.0	1.00	1.00	.50	1,000	N	N	50	700	1.0	15
194	60 59 15	146 26 7	5.0	2.00	1.00	.50	1,000	N	N	20	700	1.0	30
195	60 59 55	146 29 13	3.0	1.00	1.00	.30	700	N	N	20	1,000	1.0	15
196	60 59 22	146 14 4	7.0	3.00	5.00	.50	1,500	N	N	50	700	1.0	50
197	60 58 40	146 14 30	5.0	1.00	1.00	.50	700	N	N	50	1,000	2.0	20
198	60 59 59	146 15 20	7.0	10.00	5.00	.30	1,500	N	N	30	700	1.0	50
199	60 50 22	146 48 25	10.0	2.00	.20	.50	1,000	N	N	100	1,000	1.0	15
200	60 48 48	146 46 20	10.0	.50	.20	.30	>5,000	N	N	70	700	2.0	70
201	60 50 8	146 43 38	10.0	2.00	1.00	.50	5,000	N	N	100	700	2.0	70
202	60 52 22	146 39 35	10.0	2.00	.50	.50	>5,000	N	N	100	1,000	2.0	100
203	60 31 22	145 46 48	10.0	2.00	1.00	.30	1,000	N	N	70	1,000	2.0	70
204	60 31 2	145 47 30	10.0	1.00	.50	.30	3,000	N	N	70	700	2.0	70
205	60 30 55	145 49 30	5.0	1.00	1.00	.30	3,000	N	N	70	700	2.0	50
206	60 32 15	145 43 50	7.0	2.00	2.00	.30	5,000	N	N	70	1,000	3.0	100
207	60 32 20	145 42 10	10.0	5.00	1.00	.50	3,000	N	N	100	1,000	3.0	70
208	60 32 5	145 39 15	7.0	2.00	1.00	.50	2,000	N	N	100	1,000	3.0	50
209	60 52 5	144 6 28	5.0	1.00	2.00	.30	1,500	N	N	<10	1,000	3.0	15
210	60 51 55	144 6 8	2.0	.50	2.00	.15	700	N	N	<10	700	2.0	10
211	60 51 37	144 3 0	3.0	1.00	2.00	.20	700	N	N	<10	1,000	3.0	15
212	60 51 30	144 1 48	3.0	1.00	2.00	.30	700	N	N	<10	1,000	3.0	15
213	60 53 52	144 1 30	3.0	1.00	2.00	.20	1,500	N	N	<10	1,000	2.0	30
214	60 53 42	144 4 22	5.0	2.00	2.00	.30	1,000	N	N	10	1,000	3.0	20
215	60 54 58	144 3 50	5.0	.70	2.00	.30	2,000	N	N	10	1,000	3.0	15
216	60 55 18	144 5 20	7.0	2.00	2.00	.30	3,000	N	N	20	1,500	1.0	30
217	60 56 0	144 3 42	5.0	1.00	2.00	.50	1,000	N	N	<10	1,000	2.0	15
218	60 56 0	144 9 35	5.0	1.00	2.00	.30	2,000	N	N	<10	1,000	2.0	20
219	60 56 40	144 5 35	5.0	1.00	2.00	.30	1,000	N	N	<10	1,000	2.0	15
220	60 56 10	144 13 10	7.0	2.00	2.00	.30	1,000	N	N	10	1,000	2.0	30
221	60 54 47	144 11 30	5.0	.70	2.00	.20	1,500	N	N	<10	700	3.0	20
222	60 54 10	144 15 30	5.0	.70	2.00	.30	3,000	N	N	<10	700	3.0	15
223	60 55 0	144 13 35	5.0	1.00	2.00	.30	1,500	N	N	<10	1,000	3.0	20
224	60 54 38	144 16 20	5.0	.70	2.00	.30	5,000	N	N	20	700	2.0	15
225	60 54 42	144 16 18	3.0	.50	1.00	.30	1,000	N	N	20	1,000	2.0	15

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sc-ppm	Sr-ppm	V-ppm	W-ppm	Y-ppm	Zn-ppm	Zr-ppm	Au-ppm
	S	S	S	S	S	S	S	S	S	S	S	S	S	S	aa
181	100	30	30	N	N	50	20	15	500	150	N	50	N	N	200
182	200	100	N	N	N	100	<10	30	300	300	N	30	N	N	100
183	150	50	20	N	N	70	50	20	300	200	N	30	200	200	---
184	150	50	50	N	N	70	50	20	300	200	N	30	<200	300	---
185	150	30	100	N	N	70	50	20	500	200	N	30	N	300	---
186	100	30	50	N	N	70	50	20	500	200	N	30	N	200	---
187	150	30	20	N	N	70	30	20	300	200	N	30	<200	150	---
188	100	30	20	N	N	70	30	20	300	200	N	30	<200	200	---
189	150	50	20	N	N	70	50	20	300	300	N	30	200	150	---
190	150	30	30	N	N	70	20	20	700	200	N	30	N	200	---
191	100	30	30	N	N	30	30	15	700	200	N	30	N	200	---
192	100	30	20	N	N	30	30	15	500	150	N	20	N	200	---
193	100	30	20	N	N	50	20	20	700	200	N	20	N	150	---
194	100	50	20	N	N	70	50	20	700	200	N	20	N	200	---
195	100	30	20	N	N	20	30	15	300	200	N	30	<200	300	---
196	300	100	N	N	N	100	20	30	300	300	N	30	<200	150	---
197	150	30	20	N	N	70	30	15	500	300	N	30	N	150	---
198	1,000	50	20	N	N	150	30	30	200	300	N	30	N	100	---
199	150	30	N	N	N	150	30	20	200	300	N	30	<200	200	---
200	100	30	20	N	N	100	30	20	200	200	N	30	500	150	---
201	150	30	20	N	N	100	50	20	200	300	N	30	300	150	---
202	150	70	20	N	N	100	70	20	200	300	N	50	500	200	---
203	150	50	20	N	N	70	20	20	300	300	N	30	200	200	---
204	100	30	20	N	N	70	50	20	300	300	N	30	200	200	---
205	70	30	20	N	N	50	30	20	300	300	N	30	200	150	---
206	100	30	20	N	N	70	50	20	500	300	N	30	200	150	---
207	150	100	30	N	N	100	50	30	500	300	N	50	300	200	---
208	100	30	30	N	N	70	50	20	700	300	N	50	200	200	---
209	70	30	20	N	N	50	30	20	700	200	N	70	N	500	---
210	30	30	150	N	N	20	50	7	700	70	N	200	N	500	---
211	70	30	30	N	N	20	50	15	700	150	N	30	N	200	---
212	100	20	70	N	N	20	50	15	700	200	N	70	N	500	---
213	100	20	50	N	N	50	30	15	700	200	N	50	N	200	---
214	150	30	30	N	N	50	50	20	700	300	N	50	N	500	---
215	70	30	70	N	N	50	50	20	700	200	N	70	N	200	---
216	150	50	70	N	N	70	50	30	700	200	N	100	N	500	---
217	100	30	N	N	N	30	50	15	700	150	N	30	N	150	---
218	100	30	30	N	N	30	50	20	1,000	200	N	70	N	200	---
219	1,500	30	50	N	N	30	50	20	700	150	N	30	N	150	---
220	1,500	50	20	N	N	70	70	20	700	200	N	50	N	200	---
221	70	30	30	N	N	50	30	20	700	150	N	70	N	200	---
222	70	50	20	N	N	30	70	20	1,000	150	N	70	N	200	---
223	150	30	20	N	N	70	50	20	700	200	N	70	N	300	---
224	70	100	20	N	N	30	50	20	700	150	N	100	N	300	---
225	70	30	20	N	N	30	30	15	700	150	N	30	N	300	---

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
181	80	N	.05	5
182	40	N	<.05	<5
183	150	1	.35	15
184	120	--	--	--
185	120	N	.20	25
186	90	N	.15	25
187	150	<1	.25	75
188	110	N	.15	20
189	170	<1	.15	30
190	50	N	.05	<5
191	60	N	.05	<5
192	40	N	.05	15
193	40	N	.05	5
194	70	<1	.15	20
195	50	N	.05	<5
196	70	N	.10	15
197	40	<1	.10	10
198	60	N	.10	5
199	85	N	.10	30
200	300	N	.85	20
201	130	N	.30	15
202	330	N	.95	20
203	140	N	.10	10
204	120	<1	.25	25
205	120	N	.30	10
206	160	N	.45	15
207	160	N	.20	15
208	190	<1	.40	10
209	50	N	.10	N
210	20	N	<.05	N
211	40	N	.05	N
212	40	N	<.05	N
213	60	N	.15	N
214	70	N	.05	N
215	50	N	.10	<5
216	90	N	<.05	N
217	80	N	.05	N
218	65	N	<.05	N
219	75	N	N	N
220	130	N	.05	N
221	45	N	N	N
222	40	N	<.05	N
223	85	N	.05	N
224	30	N	.05	N
225	35	N	<.05	N

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	B-ppm S	Ba-ppm S	Be-ppm S	Co-ppm S
226	60 59 15	144 3 20	5.0	1.00	2.00	.30	1,000	N	N	50	700	2.0	20
227	60 58 35	144 0 40	5.0	1.00	2.00	.30	1,500	N	N	50	1,000	2.0	30
228	60 59 2	144 4 22	3.0	1.00	2.00	.30	1,500	N	N	50	700	2.0	15
229	60 59 40	144 6 45	5.0	1.00	2.00	.50	2,000	N	N	150	700	2.0	20
230	60 59 28	144 10 5	5.0	1.00	2.00	.30	1,000	N	N	10	1,000	2.0	20
231	60 59 0	144 12 5	5.0	1.00	2.00	.30	1,000	N	N	30	1,000	3.0	20
232	60 53 35	144 13 50	3.0	.70	2.00	.30	1,500	N	N	<10	1,000	5.0	15
233	60 54 0	144 13 25	3.0	.70	2.00	.20	1,000	N	N	<10	1,000	5.0	15
234	60 57 50	144 9 25	5.0	1.00	1.00	.50	1,500	N	N	20	1,000	5.0	20
235	60 57 22	144 14 38	3.0	.70	2.00	.30	1,500	N	N	<10	1,000	5.0	15
236	60 58 47	144 17 20	5.0	.70	2.00	.30	1,000	N	N	30	1,000	5.0	15
237	60 56 2	144 4 40	5.0	.70	2.00	.50	1,500	N	N	30	1,000	7.0	15
238	60 56 8	144 4 45	5.0	1.00	2.00	.50	1,500	N	N	50	1,000	3.0	30
239	60 56 15	144 4 22	5.0	.50	2.00	.50	3,000	N	N	30	700	2.0	10
240	60 57 38	144 5 0	7.0	2.00	1.00	.50	1,500	N	N	50	1,000	1.0	30
241	60 57 40	144 4 40	5.0	1.00	1.00	.50	1,500	N	N	30	1,000	2.0	20
242	60 59 8	144 5 20	5.0	1.00	1.00	.30	700	N	N	10	1,000	2.0	20
243	60 58 40	144 24 0	5.0	1.00	1.00	.50	1,000	N	N	20	1,000	1.0	50
244	60 58 1	144 29 10	5.0	1.00	1.00	.50	1,000	N	N	30	1,000	1.0	20
245	60 58 3	144 29 0	5.0	1.00	1.00	.50	1,000	N	N	50	1,000	1.0	20
246	60 58 43	144 33 7	5.0	1.00	1.00	.50	1,500	N	N	50	1,000	1.0	20
247	60 58 58	144 33 5	5.0	1.00	1.00	.50	1,500	N	N	50	1,000	2.0	20
248	60 59 28	144 35 18	5.0	1.00	2.00	.50	1,500	N	N	50	1,000	2.0	50
249	60 59 13	144 37 48	5.0	1.00	2.00	.50	1,500	N	N	50	1,000	2.0	30
250	60 55 18	144 31 30	5.0	2.00	1.00	.50	1,000	N	N	30	700	1.0	30
251	60 55 12	144 31 30	3.0	1.00	2.00	.50	1,000	N	N	50	700	1.0	15
252	60 54 29	144 32 21	5.0	2.00	2.00	.50	1,000	N	N	50	1,500	3.0	30
253	60 53 0	144 28 50	5.0	2.00	2.00	.50	1,000	N	N	50	1,000	3.0	30
254	60 50 38	144 28 50	3.0	.70	2.00	.30	2,000	N	N	70	700	3.0	15
255	60 51 11	144 27 8	5.0	1.00	2.00	.50	1,000	N	N	30	1,000	2.0	30
256	60 52 40	144 23 58	5.0	1.00	2.00	.50	1,000	N	N	30	1,000	3.0	30
257	60 52 11	144 20 53	3.0	.70	2.00	.30	1,000	N	N	10	700	3.0	10
258	60 49 20	144 21 5	3.0	.70	2.00	.30	1,000	N	N	70	1,000	3.0	15
259	60 47 35	144 0 59	2.0	.50	2.00	.15	700	N	N	10	1,000	5.0	10
260	60 46 9	144 1 24	2.0	.70	2.00	.20	700	N	N	70	1,000	7.0	20
261	60 45 48	144 6 55	2.0	.70	2.00	.20	1,500	N	N	70	1,000	5.0	10
262	60 45 52	144 4 50	2.0	.70	2.00	.20	700	N	N	20	1,000	5.0	10
263	60 47 25	144 4 10	5.0	1.00	2.00	.30	1,000	N	N	10	1,000	3.0	15
264	60 46 0	144 10 10	2.0	.70	2.00	.15	700	N	N	30	1,000	3.0	10
265	60 47 43	144 8 55	7.0	2.00	2.00	.50	1,000	N	N	20	1,000	5.0	30
266	60 50 29	144 15 50	2.0	1.00	2.00	.20	1,000	N	N	30	1,000	5.0	10
267	60 50 27	144 15 32	2.0	.70	2.00	.20	1,000	N	N	10	1,000	3.0	15
268	60 48 50	144 15 30	5.0	1.00	2.00	.30	2,000	N	N	20	1,000	5.0	20
269	60 49 4	144 10 52	2.0	.50	2.00	.15	700	N	N	10	1,000	5.0	10
270	60 48 18	144 16 40	5.0	1.00	2.00	.50	1,500	N	N	70	1,000	2.0	15

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sr-ppm	V-ppm	W-ppm	Y-ppm	Zn-ppm	Zr-ppm	Au-ppm
	S	S	S	S	S	S	S	S	S	S	S	S	S	aa
226	150	30	20	N	N	50	30	700	150	N	30	N	300	--
227	150	30	150	N	N	50	30	700	200	N	70	N	200	--
228	100	200	200	N	N	15	30	700	150	N	70	N	1,000	--
229	150	30	100	N	N	50	50	700	200	N	50	N	500	--
230	150	30	30	N	N	50	50	700	200	N	30	N	200	--
231	150	30	100	N	N	50	30	700	200	N	50	N	200	--
232	100	30	100	N	N	20	70	1,000	100	N	70	N	500	--
233	70	20	70	N	N	20	30	1,000	100	N	30	N	200	--
234	150	30	50	N	N	20	50	300	200	N	50	N	200	--
235	70	30	70	N	N	15	30	700	150	N	70	N	200	--
236	100	30	100	N	N	30	30	700	150	N	70	N	500	--
237	70	30	100	N	N	30	30	700	150	N	70	N	1,000	--
238	150	30	100	N	N	70	50	700	300	N	50	N	200	--
239	70	30	100	N	N	15	30	500	150	N	100	N	700	--
240	200	70	30	N	N	100	50	300	300	N	50	200	200	--
241	150	30	20	N	N	70	50	500	200	N	30	<200	300	--
242	150	30	20	N	N	70	50	300	200	N	30	N	300	--
243	150	30	20	N	N	70	50	500	200	N	30	<200	200	--
244	150	30	20	N	N	50	50	500	150	N	30	<200	200	--
245	150	30	20	N	N	50	50	500	150	N	30	<200	200	--
246	100	30	20	N	N	50	50	500	150	N	30	<200	200	--
247	100	30	100	N	N	50	50	500	150	N	30	<200	200	--
248	150	150	20	N	N	70	70	700	200	N	30	<200	200	--
249	150	30	20	N	N	70	50	700	200	N	50	<200	200	--
250	150	30	20	N	N	70	50	500	200	N	30	<200	150	--
251	100	30	20	N	N	50	30	700	100	N	30	<200	300	--
252	150	30	50	N	N	70	70	700	200	N	30	<200	200	--
253	150	30	20	N	N	70	50	500	200	N	30	<200	300	--
254	70	20	150	N	N	20	50	700	150	N	70	<200	300	--
255	150	30	N	N	N	70	50	700	200	N	30	<200	300	--
256	150	30	100	N	N	70	50	500	200	N	30	<200	300	--
257	70	20	N	N	N	20	50	700	100	N	20	<200	200	--
258	100	20	20	N	N	50	50	700	150	N	30	<200	300	--
259	70	5	20	N	N	10	70	700	100	N	20	N	150	--
260	70	30	20	N	N	50	70	700	100	N	50	N	300	--
261	100	20	50	N	N	30	70	1,000	100	N	200	N	500	--
262	100	20	20	N	N	20	50	1,000	100	N	20	N	200	--
263	150	30	50	N	N	50	70	700	200	N	30	N	200	--
264	70	20	100	N	N	30	50	1,000	70	N	30	N	200	--
265	200	30	20	N	N	70	50	700	200	N	50	N	200	--
266	100	10	20	N	N	20	50	700	100	N	30	N	100	--
267	100	30	20	N	N	50	70	700	100	N	50	N	300	--
268	150	30	50	N	N	70	50	700	200	N	50	N	500	--
269	70	20	100	N	N	30	70	700	70	N	50	N	500	--
270	100	30	50	N	N	50	30	700	200	N	50	N	200	--

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORAIN SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
226	75	N	.10	5
227	75	N	.10	N
228	45	N	<.05	N
229	70	N	.10	10
230	100	N	.15	N
231	85	N	.10	N
232	35	N	<.05	N
233	35	N	<.05	<5
234	80	N	.05	N
235	45	N	<.05	N
236	45	N	<.05	N
237	45	N	.05	N
238	80	N	.10	<5
239	45	N	<.05	N
240	120	N	.15	<5
241	95	N	.10	N
242	130	N	.10	N
243	150	N	.10	N
244	80	N	.05	<5
245	85	N	.10	N
246	75	N	.05	N
247	70	N	.10	N
248	120	N	.15	N
249	95	N	.10	<5
250	120	N	.05	N
251	65	N	.05	N
252	110	N	.05	<5
253	110	N	.10	<5
254	50	N	<.05	N
255	75	N	.05	<5
256	80	N	<.05	N
257	40	N	<.05	N
258	45	N	N	N
259	30	N	N	N
260	35	N	N	N
261	30	N	N	N
262	35	N	<.05	N
263	60	N	N	N
264	25	N	<.05	N
265	95	N	.10	N
266	45	N	<.05	N
267	35	N	N	N
268	60	N	.05	<5
269	25	N	N	N
270	50	N	<.05	<5

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	B-ppm S	Ba-ppm S	Be-ppm S	Co-ppm S
271	60 50 0	144 27 6	5.0	1.00	2.00	.30	1,500	N	N	70	1,000	2.0	15
272	60 49 51	144 23 2	5.0	1.00	1.00	.30	1,000	N	N	150	1,500	3.0	20
273	60 12 15	144 1 5	5.0	2.00	.50	.70	1,000	N	N	50	500	2.0	30
274	60 11 38	144 1 49	5.0	2.00	.50	.70	700	N	N	70	1,000	2.0	30
275	60 13 43	144 2 14	5.0	1.50	.50	.50	700	N	N	70	700	2.0	30
276	60 15 31	144 2 2	5.0	1.00	.50	.50	700	N	N	70	700	2.0	50
277	60 16 22	144 2 55	3.0	1.00	.50	.30	1,500	N	N	50	500	1.5	30
278	60 20 38	144 3 13	5.0	1.00	.50	.50	1,000	N	N	100	700	2.0	50
279	60 20 14	144 7 56	2.0	1.00	.50	.30	700	N	N	50	300	1.5	20
280	60 20 22	144 4 29	5.0	1.00	.50	.50	1,000	N	N	100	700	2.0	50
281	60 22 10	144 3 59	5.0	1.00	.30	.50	1,000	N	N	100	700	2.0	20
282	60 23 1	144 0 55	5.0	1.00	.50	.50	1,000	N	N	100	700	2.0	50
283	60 25 5	144 0 24	3.0	1.00	.20	.30	500	N	N	100	700	1.5	20
284	60 25 18	144 3 27	5.0	1.00	.20	.50	700	N	N	70	1,000	2.0	30
285	60 26 0	144 6 26	3.0	1.00	.70	.30	700	N	N	50	700	1.5	20
286	60 27 1	144 1 40	5.0	1.50	.70	.50	1,000	N	N	70	700	2.0	30
287	60 22 42	144 10 19	5.0	1.00	.30	.50	1,000	N	N	100	700	2.0	30
288	60 24 46	144 7 45	3.0	.50	.20	.30	700	N	N	70	700	1.5	20
289	60 23 55	144 13 13	5.0	1.00	.20	.50	1,000	N	N	70	1,000	2.0	30
290	60 24 1	144 13 12	5.0	1.00	.10	.50	700	N	N	70	700	2.0	20
291	60 25 55	144 10 6	5.0	1.50	1.00	.50	1,000	N	N	70	700	1.5	30
292	60 26 11	144 14 30	5.0	1.50	1.00	.50	1,000	N	N	70	700	1.5	50
293	60 25 17	144 18 1	5.0	1.50	1.00	.50	1,000	N	N	70	700	2.0	50
294	60 24 10	144 21 1	7.0	1.50	.20	.50	1,000	N	N	100	700	2.0	70
295	60 21 54	144 13 42	5.0	1.00	.20	.30	700	N	N	70	700	1.5	20
296	60 20 38	144 14 59	5.0	1.00	.30	.50	1,000	N	N	70	700	2.0	20
297	60 19 5	144 14 35	5.0	1.00	.50	.50	700	N	N	70	700	2.0	15
298	60 18 50	144 17 44	5.0	1.00	.50	.50	1,000	N	N	70	700	2.0	15
299	60 33 44	145 41 5	5.0	2.00	1.00	.50	2,000	N	N	70	700	2.0	50
300	60 32 43	145 43 59	5.0	1.50	.70	.50	2,000	N	N	70	700	2.0	50
301	60 41 11	145 33 8	10.0	5.00	5.00	.50	2,000	N	N	70	100	1.0	70
302	60 43 32	145 32 49	5.0	2.00	1.00	.50	1,500	N	N	70	1,000	2.0	30
303	60 41 49	145 36 53	7.0	2.00	.50	.50	1,000	N	N	70	1,000	2.0	30
304	60 42 13	145 37 3	7.0	2.00	1.00	.50	1,000	N	N	70	1,000	2.0	30
305	60 42 15	145 36 54	10.0	2.00	1.00	.50	1,500	N	N	70	1,000	2.0	30
306	60 36 48	145 51 29	5.0	1.00	.70	.50	>5,000	N	N	70	700	2.0	70
307	60 42 35	145 30 48	7.0	2.00	3.00	.50	1,500	N	N	50	1,000	2.0	30
308	60 43 8	145 33 46	5.0	1.50	1.00	.30	1,000	N	N	50	1,000	2.0	30
309	60 43 34	145 35 6	7.0	1.50	1.00	.50	1,000	N	N	70	1,000	2.0	30
310	60 39 2	145 41 39	7.0	1.50	.70	.50	2,000	N	N	100	1,000	2.0	50
311	60 39 1	145 37 20	10.0	2.00	1.00	.50	1,500	N	N	50	1,000	2.0	50
312	60 37 55	145 38 7	7.0	1.50	2.00	.50	1,000	N	N	50	1,000	2.0	30
313	60 37 7	145 36 24	10.0	3.00	2.00	.50	2,000	N	N	50	1,000	2.0	50
314	60 33 52	145 44 19	10.0	2.00	1.00	.50	3,000	N	N	100	1,000	2.0	50
315	60 22 2	144 19 8	10.0	2.00	.20	.50	500	N	N	150	1,000	2.0	30

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORAINF. SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sc-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Au-ppm aa
271	150	20	50	N	N	30	50	15	700	200	N	50	N	200	--
272	100	30	20	N	N	70	50	15	300	150	N	30	N	200	--
273	150	50	50	N	20	100	20	20	200	200	N	30	<200	200	--
274	150	70	50	N	20	100	30	20	200	200	N	30	<200	150	--
275	100	50	50	N	20	70	20	20	300	200	N	30	<200	150	--
276	100	70	50	N	<20	70	50	20	300	200	N	30	<200	150	--
277	100	50	50	N	<20	70	20	20	300	200	N	30	<200	200	--
278	150	70	50	10	20	70	20	20	200	200	N	30	<200	200	--
279	70	50	50	N	<20	30	10	15	200	150	N	20	<200	150	--
280	100	100	50	N	<20	70	50	20	300	200	N	30	<200	200	--
281	100	50	50	N	<20	70	20	20	200	200	N	50	<200	300	--
282	150	100	50	N	20	70	50	30	300	200	N	50	<200	200	--
283	300	30	50	N	<20	50	10	15	150	200	N	20	<200	300	--
284	150	50	50	N	20	70	30	20	200	200	N	30	<200	300	--
285	150	50	50	N	<20	30	20	20	300	150	N	20	<200	300	--
286	150	70	50	N	20	70	30	20	300	200	N	30	<200	200	--
287	150	70	50	N	<20	70	50	20	200	200	N	50	<200	200	--
288	70	20	50	N	20	30	20	15	300	150	N	20	<200	100	--
289	150	50	50	N	<20	70	50	20	200	200	N	30	<200	300	--
290	100	30	50	N	20	70	20	20	200	200	N	20	<200	700	--
291	150	70	50	N	20	70	50	20	500	200	N	30	<200	200	--
292	150	70	50	N	20	70	50	20	300	200	N	30	<200	200	--
293	150	70	50	N	20	70	50	20	300	200	N	30	<200	200	--
294	150	100	50	N	20	100	50	30	200	200	N	50	<200	150	--
295	150	50	50	N	<20	70	50	20	200	200	N	30	<200	150	--
296	100	20	100	N	20	50	20	20	200	200	N	30	<200	500	--
297	100	30	50	N	<20	50	20	20	300	150	N	30	<200	500	--
298	200	20	50	N	<20	30	10	20	300	150	N	30	<200	500	--
299	150	100	50	N	<20	30	50	30	200	200	N	30	<200	100	--
300	100	70	50	N	<20	100	70	20	300	200	N	50	<200	100	--
301	500	150	50	N	20	150	10	50	100	300	N	50	<200	50	--
302	150	70	50	N	<20	70	30	20	500	200	N	30	<200	100	--
303	150	70	50	N	<20	70	30	20	300	200	N	30	<200	150	--
304	150	70	50	N	<20	70	30	20	500	200	N	30	<200	300	--
305	150	100	50	N	20	70	50	30	500	200	N	50	<200	150	--
306	100	20	50	N	<20	30	20	20	300	200	N	20	<200	150	--
307	150	50	50	N	<20	50	20	30	300	200	N	50	<200	200	--
308	100	100	50	N	<20	50	30	20	300	200	N	30	<200	100	--
309	150	70	50	N	<20	50	20	30	500	200	N	30	<200	200	--
310	150	50	50	N	<20	50	30	20	300	300	N	30	<200	150	--
311	150	100	50	N	20	50	50	30	300	200	N	50	<200	150	--
312	150	100	50	N	<20	50	20	30	500	200	N	50	<200	150	--
313	150	150	50	N	20	70	50	30	500	200	N	50	<200	100	--
314	150	100	50	N	20	70	30	30	300	200	N	50	<200	100	--
315	150	100	50	N	20	70	50	30	200	200	N	50	<200	200	--

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORAIN SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
271	45	N	N	<5
272	100	N	.05	<5
273	110	N	.20	5
274	120	N	.60	5
275	100	N	.10	10
276	110	N	.10	5
277	100	N	.20	10
278	130	N	.10	10
279	70	N	.20	5
280	120	N	.10	10
281	90	N	.10	<5
282	120	N	.10	10
283	75	N	.10	<5
284	80	N	.10	5
285	75	N	.10	<5
286	70	N	<.05	5
287	110	N	.20	10
288	65	N	<.05	5
289	100	N	.20	5
290	80	N	<.05	5
291	90	N	<.05	10
292	130	N	.10	10
293	140	N	.20	10
294	170	N	.20	15
295	110	N	.10	10
296	70	N	<.05	5
297	80	N	.20	5
298	60	N	.10	5
299	150	N	<.05	10
300	190	N	.10	5
301	40	N	<.05	5
302	120	N	.20	15
303	160	N	.20	10
304	120	N	.10	10
305	120	N	.10	10
306	95	N	.10	10
307	80	N	<.05	5
308	170	N	.60	30
309	130	N	.20	20
310	130	N	.20	10
311	150	N	.20	20
312	100	N	.20	10
313	110	N	.10	20
314	130	N	<.05	5
315	150	N	<.05	10

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	B-ppm S	Ba-ppm S	Be-ppm S	Co-ppm S
316	60 20 13	144 18 0	10.0	1.50	.50	.50	1,000	N	N	100	700	2.0	50
317	60 15 28	144 16 53	7.0	1.00	.50	.50	1,000	N	N	100	700	2.0	50
318	60 42 56	144 43 49	7.0	3.00	3.00	.50	1,500	N	N	10	300	1.5	50
319	60 44 37	144 38 48	5.0	2.00	3.00	.50	1,000	N	N	70	700	2.0	30
320	60 44 35	144 32 12	7.0	2.00	3.00	.50	1,500	N	N	100	700	2.0	30
321	60 43 6	144 33 45	5.0	2.00	2.00	.50	1,000	N	N	50	1,000	2.0	30
322	60 43 9	144 22 2	5.0	1.00	2.00	.50	1,000	N	N	50	700	2.0	20
323	60 42 23	144 26 45	5.0	1.00	2.00	.30	1,000	N	N	50	1,000	2.0	20
324	60 43 0	144 22 45	5.0	1.50	2.00	.50	1,000	N	N	50	1,000	2.0	20
325	60 41 15	144 23 24	3.0	1.00	2.00	.30	700	N	N	30	700	2.0	10
326	60 22 30	144 34 36	5.0	1.50	3.00	.30	1,000	N	N	30	1,000	2.0	20
327	60 42 25	144 29 24	5.0	1.50	2.00	.50	1,000	N	N	70	1,000	2.0	20
328	60 41 41	144 31 38	5.0	1.50	3.00	.30	1,000	N	N	70	1,000	2.0	20
329	60 38 18	144 37 13	5.0	1.50	2.00	.50	1,000	N	N	70	1,000	2.0	20
330	60 13 37	144 37 27	5.0	1.50	1.50	.50	2,000	N	N	70	1,000	2.0	30
331	60 17 6	144 34 37	10.0	5.00	5.00	1.00	1,500	N	N	20	300	1.5	70
332	60 19 44	144 37 3	7.0	3.00	5.00	.70	1,500	N	N	50	300	1.5	50
333	60 23 49	144 41 41	5.0	2.00	1.50	.50	1,000	N	N	50	700	2.0	50
334	60 22 30	144 34 40	7.0	3.00	3.00	1.00	1,500	N	N	70	500	2.0	50
335	60 31 40	144 0 5	5.0	2.00	.50	.50	1,000	N	N	100	700	2.0	30
336	60 32 0	144 7 32	5.0	2.00	3.00	.30	1,000	N	N	30	700	2.0	20
337	60 31 16	144 11 38	7.0	3.00	5.00	.50	1,500	N	N	70	300	2.0	50
338	60 31 21	144 11 45	5.0	1.50	3.00	.30	1,000	N	N	50	1,000	2.0	15
339	60 30 27	144 14 14	7.0	2.00	2.00	.50	1,000	N	N	20	700	2.0	30
340	60 29 4	144 18 48	5.0	1.00	2.00	.20	1,000	N	N	20	700	2.0	20
341	60 29 48	144 16 50	5.0	2.00	3.00	.50	1,000	N	N	70	300	2.0	30
342	60 29 27	144 20 40	5.0	1.00	2.00	.50	1,000	N	N	20	700	2.0	10
343	60 33 31	144 23 29	5.0	1.50	2.00	.30	1,000	N	N	10	1,000	2.0	20
344	60 33 54	144 26 22	5.0	1.50	3.00	.20	700	N	N	10	700	1.5	20
345	60 32 42	144 28 7	3.0	1.00	2.00	.20	500	N	N	50	1,000	2.0	10
346	60 29 50	144 30 23	10.0	2.00	.20	.50	700	N	N	150	700	2.0	30
347	60 30 54	144 37 18	5.0	2.00	2.00	.30	1,000	N	N	50	1,000	2.0	20
348	60 34 28	144 40 54	7.0	2.00	2.00	.50	1,000	N	N	70	1,000	2.0	50
349	60 33 45	144 37 23	5.0	1.00	2.00	.50	700	N	N	50	1,000	2.0	15
350	60 35 42	144 35 27	5.0	1.50	2.00	.50	1,000	N	N	50	1,000	2.0	15
351	60 35 57	144 41 54	10.0	2.00	2.00	.50	1,000	N	N	50	1,000	2.0	30
352	60 49 37	144 27 44	5.0	1.50	3.00	.50	1,000	N	N	70	1,000	2.0	20
353	60 47 12	144 25 5	7.0	1.50	2.00	.70	1,000	N	N	70	1,000	2.0	20
354	60 47 54	144 29 15	7.0	2.00	3.00	.70	1,000	N	N	50	1,000	2.0	20
355	60 45 6	144 28 3	5.0	1.00	2.00	.50	1,000	N	N	50	1,000	2.0	15
356	60 44 16	144 27 55	5.0	1.50	3.00	.70	1,000	N	N	70	1,000	2.0	20
357	60 45 46	144 31 12	7.0	3.00	5.00	.70	1,000	N	N	50	700	1.5	50
358	60 42 53	144 49 54	7.0	2.00	2.00	.50	1,000	N	N	70	1,500	2.0	30
359	60 52 5	144 42 36	7.0	2.00	1.00	.50	1,000	N	N	70	1,500	2.0	20
360	60 49 16	144 37 27	7.0	2.00	1.00	.50	1,000	N	N	70	1,500	2.0	30

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm	Cu-ppm	La-ppm	Mn-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sc-ppm	Sr-ppm	V-ppm	W-ppm	Y-ppm	Zn-ppm	Zr-ppm	Au-ppm
	S	S	S	S	S	S	S	S	S	S	S	S	S	S	aa
316	150	100	50	N	<20	100	70	30	300	300	N	50	200	200	--
317	150	70	50	N	<20	100	30	20	300	200	N	30	200	200	--
318	200	200	50	N	20	100	20	50	300	300	N	30	<200	70	N
319	150	70	50	N	20	70	20	30	500	200	N	30	<200	200	N
320	150	100	50	N	<20	70	50	30	500	200	N	50	<200	200	--
321	200	70	70	N	<20	70	50	30	500	200	N	50	200	200	--
322	100	50	50	N	<20	50	20	20	300	200	N	50	<200	200	--
323	100	50	100	N	<20	50	30	20	500	200	N	50	<200	200	--
324	150	50	70	N	<20	50	30	20	500	200	N	30	<200	200	--
325	50	20	100	N	<20	20	20	10	500	100	N	30	<200	150	--
326	150	50	50	N	<20	50	30	20	500	150	N	50	<200	200	--
327	200	50	70	N	<20	50	30	20	500	200	N	50	<200	200	--
328	150	50	50	N	<20	50	50	20	500	200	N	50	<200	200	--
329	150	30	70	N	<20	50	30	20	500	200	N	30	<200	200	--
330	150	50	50	N	<20	70	30	20	500	200	N	70	<200	200	--
331	150	200	50	N	<20	100	20	50	300	500	N	50	<200	100	--
332	200	150	50	N	<20	100	10	50	300	300	N	50	<200	150	--
333	100	70	50	N	<20	70	50	20	500	200	N	50	<200	100	--
334	150	150	50	N	<20	70	20	30	300	300	N	50	200	150	--
335	150	100	50	N	<20	70	20	30	300	200	N	50	<200	150	N
336	150	30	70	N	<20	50	30	30	500	150	N	50	<200	150	--
337	150	200	50	N	<20	100	20	30	500	200	N	30	<200	200	--
338	100	20	100	N	<20	30	30	20	500	300	N	50	<200	200	--
339	150	50	70	N	<20	50	50	20	300	200	N	50	<200	300	--
340	100	20	70	N	<20	30	30	20	500	150	N	50	<200	300	--
341	150	100	50	N	<20	70	30	20	500	200	N	20	<200	200	--
342	70	30	100	N	<20	15	20	20	500	100	N	50	<200	1,000	--
343	150	70	50	N	<20	30	50	20	500	150	N	30	<200	150	--
344	100	30	50	N	<20	50	30	20	200	100	N	50	<200	500	--
345	50	20	50	N	<20	20	20	10	500	100	N	30	N	500	--
346	150	100	50	N	<20	100	50	30	100	300	N	50	N	200	--
347	150	30	50	N	<20	50	20	20	500	200	N	30	<200	200	--
348	150	100	50	N	<20	100	30	20	500	300	N	50	200	200	--
349	100	50	50	N	<20	30	20	20	500	200	N	50	<200	300	--
350	100	30	50	N	<20	30	20	20	500	200	N	50	N	300	--
351	100	70	50	N	20	50	50	30	500	200	N	50	N	300	--
352	100	50	50	N	<20	50	30	20	500	200	N	50	<200	200	--
353	100	50	50	N	20	50	20	30	500	200	N	50	<200	200	--
354	150	70	50	N	<20	50	30	30	500	200	N	50	N	300	--
355	100	30	100	N	<20	30	50	20	500	200	N	50	<200	300	--
356	100	50	50	N	20	50	50	30	500	200	N	50	N	300	--
357	150	100	100	N	20	50	50	30	500	200	N	50	N	300	--
358	150	70	50	N	20	50	30	30	500	200	N	50	<200	200	--
359	100	70	50	N	20	50	50	30	300	200	N	50	<200	200	--
360	150	100	50	N	20	70	50	30	500	200	N	50	<200	200	--

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORAINF. SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
316	150	N	.20	15
317	130	N	.10	10
318	95	N	.10	<5
319	50	N	.10	5
320	100	N	.10	10
321	110	N	.10	5
322	70	N	<.05	5
323	60	N	<.05	<5
324	85	N	<.05	<5
325	45	N	<.05	<5
326	30	N	<.05	<5
327	70	N	<.05	<5
328	90	N	.10	<5
329	70	N	<.05	5
330	110	N	.10	5
331	75	N	<.05	<5
332	60	N	<.05	<5
333	130	N	.20	85
334	90	N	.10	20
335	120	N	.10	10
336	60	N	<.05	<5
337	60	N	<.05	<5
338	40	N	<.05	<5
339	85	N	<.05	5
340	50	N	<.05	<5
341	70	N	<.05	<5
342	35	N	<.05	<5
343	100	N	<.05	<5
344	30	N	<.05	<5
345	50	N	<.05	N
346	150	N	.20	5
347	80	N	.10	5
348	160	N	.30	15
349	60	N	<.05	10
350	55	N	<.05	5
351	100	N	.10	15
352	50	N	<.05	<5
353	75	N	<.05	<5
354	65	N	.10	5
355	50	N	.10	N
356	50	N	<.05	N
357	45	N	<.05	<5
358	80	N	<.05	<5
359	75	N	<.05	<5
360	95	N	.10	5

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORAINÉ SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-ppt. S	Mg-pct. S	Ca-pct. S	Tl-pct. S	Mn-ppt. S	Ag-ppt. S	As-ppt. S	B-ppt. S	Ba-ppt. S	Be-ppt. S	Co-ppt. S
361	60 49 39	144 41 20	7.0	2.00	.70	.50	1,000	N	N	100	1,000	2.0	20
362	60 48 20	144 44 6	7.0	2.00	1.50	.50	1,500	N	N	100	1,000	2.0	50
363	60 45 59	144 38 11	10.0	2.00	3.00	.50	1,500	N	N	30	700	2.0	30
364	60 37 7	144 56 38	5.0	2.00	2.00	.50	1,000	N	N	50	1,000	2.0	20
365	60 33 50	144 59 34	7.0	2.00	2.00	.50	1,500	N	N	50	1,000	2.0	20
366	59 56 52	144 19 15	7.0	2.00	1.00	.50	700	N	N	100	700	2.0	50
367	60 20 44	144 19 34	7.0	1.50	.20	.50	700	N	N	100	700	2.0	50
368	60 20 5	144 20 3	7.0	1.50	.20	.50	700	N	N	100	700	2.0	50
369	60 16 0	144 19 37	5.0	1.50	.30	.50	700	N	N	100	700	2.0	30
370	60 15 8	144 14 14	5.0	1.50	7.00	.50	1,000	N	N	100	700	2.0	30
371	60 11 58	144 21 28	5.0	2.00	.10	.50	1,000	N	N	100	700	2.0	50
372	60 31 10	144 13 0	5.0	1.50	2.00	.30	1,500	N	N	70	1,000	2.0	20
373	60 11 0	144 26 0	7.0	2.00	.20	.50	1,000	N	N	100	700	2.0	50
374	60 11 5	144 26 21	7.0	2.00	.30	.50	700	N	N	100	1,000	2.0	30
375	60 21 15	144 33 4	10.0	2.00	1.00	.50	2,000	N	N	100	1,000	2.0	50
376	60 24 24	144 24 18	5.0	.70	.30	.50	700	N	N	100	300	2.0	50
377	60 44 20	144 40 8	5.0	1.50	1.00	.30	700	N	N	50	700	2.0	20
378	60 42 34	144 43 47	10.0	5.00	5.00	.30	2,000	N	N	10	200	1.0	50
379	60 42 46	144 18 10	3.0	1.50	3.00	.20	1,000	N	N	30	1,000	2.0	20
380	60 43 0	144 18 25	5.0	1.50	1.00	.50	1,000	N	N	30	1,000	2.0	15
381	60 44 40	144 17 13	3.0	1.00	1.50	.50	1,000	N	N	30	1,000	2.0	15
382	60 41 23	144 22 0	5.0	1.50	2.00	.50	1,000	N	N	30	1,000	2.0	15
383	60 22 42	144 31 29	7.0	1.50	.20	.50	1,000	N	N	100	700	2.0	20
384	60 21 13	144 26 28	7.0	2.00	.20	.50	700	N	N	100	700	2.0	30
385	60 17 9	144 22 43	5.0	1.00	.20	.50	500	N	N	100	700	2.0	20
386	60 14 2	144 30 32	7.0	1.50	.30	.50	700	N	N	100	1,000	2.0	30
387	60 14 29	144 24 59	5.0	1.00	.30	.50	700	N	N	100	1,000	2.0	20
388	60 12 50	144 23 46	7.0	2.00	1.00	.50	1,000	N	N	100	1,000	2.0	30
389	60 11 53	144 18 47	10.0	3.00	1.00	.70	1,000	N	N	100	1,000	2.0	50
390	60 13 42	144 12 7	5.0	1.00	1.00	.30	700	N	N	70	700	2.0	20
391	60 15 13	144 12 53	10.0	1.50	.50	.50	700	N	N	100	1,000	2.0	50
392	60 37 39	144 27 54	2.0	1.00	3.00	.15	500	N	N	20	700	1.5	10
393	60 38 17	144 32 10	5.0	1.50	2.00	.50	1,500	N	N	50	1,000	2.0	20
394	60 38 16	144 37 3	5.0	2.00	2.00	.50	1,500	N	N	70	1,500	3.0	20
395	60 1 34	144 23 6	10.0	5.00	2.00	.50	3,000	N	N	20	200	1.0	70
396	60 17 12	144 34 35	15.0	3.00	5.00	1.00	2,000	N	N	20	200	1.0	70
397	60 20 54	144 37 21	10.0	3.00	5.00	.70	1,500	N	N	20	500	1.5	70
398	60 23 20	144 37 49	7.0	2.00	2.00	.50	1,500	N	N	100	1,000	2.0	50
399	60 31 32	144 3 16	7.0	2.00	.50	.70	1,000	N	N	100	1,000	2.0	50
400	60 32 9	144 2 26	7.0	2.00	2.00	.70	1,000	N	N	100	500	2.0	50
401	60 32 31	144 8 17	5.0	1.50	2.00	.20	1,000	N	N	50	1,000	1.5	20
402	60 31 4	144 17 52	5.0	1.50	2.00	.30	1,000	N	N	30	1,500	2.0	20
403	60 30 35	144 17 35	5.0	1.50	2.00	.30	1,000	N	N	30	1,000	2.0	20
404	60 33 5	144 26 12	3.0	1.50	2.00	.30	700	N	N	30	1,000	2.0	10
405	60 30 47	144 26 56	7.0	2.00	2.00	.50	1,500	N	N	20	1,000	2.0	70

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sc-ppm	Sr-ppm	V-ppm	W-ppm	Y-ppm	Zn-ppm	Zr-ppm	Au-ppm
	S	S	S	S	S	S	S	S	S	S	S	S	S	S	aa
361	150	70	50	N	20	50	50	20	500	200	N	50	<200	150	--
362	150	100	50	N	20	70	50	20	500	200	N	50	<200	200	--
363	362	100	50	N	<20	70	20	30	500	300	N	50	<200	150	--
364	150	70	50	N	<20	50	20	30	500	200	N	30	<200	200	--
365	150	70	50	N	<20	50	20	30	500	200	N	50	<200	150	--
366	200	100	50	N	<20	70	50	20	300	200	N	50	<200	300	--
367	200	100	50	N	<20	70	50	20	100	200	N	30	200	200	--
368	150	70	50	N	<20	70	50	20	200	200	N	30	200	200	--
369	200	70	50	N	<20	70	50	20	200	200	N	30	<200	150	--
370	200	50	50	N	<20	70	50	20	300	200	N	30	200	200	--
371	200	70	50	N	<20	70	50	20	300	200	N	50	200	200	--
372	150	30	150	N	<20	30	20	20	500	150	N	50	N	300	--
373	200	100	50	N	<20	70	50	20	200	200	N	50	200	200	--
374	200	70	50	N	<20	70	50	20	200	200	N	50	200	150	--
375	200	100	50	N	<20	70	50	30	200	300	N	50	<200	200	--
376	150	70	50	N	<20	50	20	20	200	200	N	50	200	200	--
377	150	30	50	N	<20	50	50	20	500	150	N	30	<200	200	N
378	200	200	50	N	<20	70	15	50	200	300	N	30	200	30	N
379	100	30	50	N	<20	30	50	20	500	150	N	30	<200	200	--
380	100	20	50	N	<20	30	10	20	500	150	N	30	<200	200	--
381	150	20	50	N	<20	20	15	15	500	150	N	30	<200	200	--
382	100	30	50	N	<20	30	20	20	500	150	50	30	<200	300	--
383	150	50	50	N	<20	50	20	30	200	200	N	30	<200	300	--
384	150	50	50	N	<20	50	20	20	200	200	N	30	<200	200	--
385	200	50	50	N	<20	70	50	20	100	200	N	30	<200	200	--
386	150	100	50	N	<20	70	30	20	100	200	N	30	<200	150	--
387	150	70	50	N	<20	50	50	20	200	200	N	30	<200	150	--
388	200	100	50	N	<20	70	50	20	200	200	N	50	<200	150	--
389	200	150	50	N	<20	70	50	30	300	200	N	50	300	200	--
390	100	30	50	N	<20	50	10	10	300	200	N	20	<200	200	--
391	150	70	50	N	<20	70	30	30	300	200	N	30	<200	200	--
392	20	20	200	N	<20	10	30	10	200	70	N	50	N	>1,000	--
393	100	100	50	N	<20	50	50	15	500	200	N	50	N	200	--
394	500	50	50	N	<20	50	50	20	700	200	N	50	<200	200	--
395	150	500	50	N	<20	100	50	30	300	300	N	50	<200	100	--
396	150	300	50	N	<20	100	10	70	300	500	N	70	<200	150	--
397	200	300	50	N	<20	100	10	50	300	300	N	70	<200	150	--
398	200	150	50	N	<20	70	30	50	300	200	N	50	<200	150	--
399	200	150	50	N	<20	70	50	30	200	200	N	70	<200	200	--
400	150	150	50	N	<20	100	30	30	500	200	N	50	<200	200	--
401	100	20	50	N	<20	30	20	20	500	150	N	30	N	150	--
402	150	20	200	N	<20	50	30	20	500	150	N	50	N	200	--
403	150	50	200	N	<20	50	50	20	500	150	N	50	N	300	--
404	100	30	70	N	<20	50	30	15	500	150	N	50	N	300	--
405	150	50	50	N	<20	100	30	20	300	200	N	50	<200	300	--

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
361	75	N	<.05	5
362	110	N	.10	5
363	75	N	.10	5
364	70	N	.10	<5
365	85	N	<.05	<5
366	120	N	.10	<5
367	130	N	.10	10
368	130	N	.10	10
369	130	N	.10	10
370	120	N	.10	5
371	110	N	.10	5
372	50	N	<.05	<5
373	130	N	.10	10
374	190	N	.30	10
375	120	N	.20	10
376	155	N	.20	10
377	65	N	.10	5
378	45	N	<.05	<5
379	50	N	<.05	<5
380	60	N	<.05	<5
381	75	N	<.05	<5
382	65	N	<.05	<5
383	110	N	.10	5
384	110	N	.10	10
385	110	N	.10	5
386	130	N	.10	<5
387	110	N	.10	<5
388	110	N	.10	<5
389	130	N	.10	<5
390	65	N	.10	<5
391	100	N	.10	5
392	15	N	<.05	N
393	75	N	.20	25
394	65	N	.40	5
395	130	N	.20	N
396	70	N	<.05	N
397	80	N	.10	<5
398	--	N	.20	15
399	130	N	.10	10
400	90	N	.10	5
401	50	N	<.05	<5
402	50	N	<.05	<5
403	55	N	<.05	<5
404	65	N	<.05	<5
405	110	N	<.05	<5

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES; CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	B-ppm	Ba-ppm	Be-ppm	Co-ppm
			S	S	S	S	S	S	S	S	S	S	S
406	60 31 15	144 26 35	5.0	1.50	2.00	.30	1,000	N	N	20	700	2.0	50
407	60 31 49	144 30 57	5.0	1.00	1.00	.30	1,000	N	N	50	700	2.0	20
408	60 31 19	144 39 27	7.0	1.50	1.00	.50	1,000	N	N	50	1,000	2.0	30
409	60 33 26	144 38 33	7.0	2.00	1.50	.50	1,000	N	N	50	1,000	2.0	20
410	60 34 43	144 36 25	5.0	1.00	1.50	.50	1,000	N	N	50	1,000	2.0	10
411	60 35 28	144 37 23	7.0	1.50	2.00	.50	1,000	N	N	50	1,000	2.0	20
412	60 37 58	144 40 56	7.0	1.50	2.00	.50	1,000	N	N	50	1,000	2.0	20
413	60 47 30	144 25 5	5.0	1.00	2.00	.50	1,000	N	N	50	700	2.0	10
414	60 47 7	144 22 32	7.0	2.00	2.00	.50	1,000	N	N	70	1,000	2.0	30
415	60 45 22	144 27 37	5.0	1.00	2.00	.50	1,000	N	N	50	1,000	2.0	10
416	60 44 40	144 27 43	5.0	1.50	2.00	.50	1,000	N	N	50	1,000	2.0	10
417	60 44 5	144 28 25	5.0	1.50	2.00	.50	1,000	N	N	50	700	2.0	10
418	60 53 57	144 48 25	7.0	3.00	3.00	.50	1,000	N	N	30	500	1.5	50
419	60 52 53	144 44 27	5.0	1.50	2.00	.50	1,000	N	N	50	1,000	2.0	10
420	60 51 9	144 38 16	5.0	3.00	3.00	.50	1,000	N	N	30	500	1.5	20
421	60 54 26	144 44 43	5.0	2.00	1.50	.50	1,000	N	N	50	1,000	2.0	50
422	60 49 5	144 40 57	5.0	2.00	1.00	.50	700	N	N	70	1,000	2.0	50
423	60 46 31	144 44 7	5.0	1.50	1.50	.30	1,000	N	N	50	1,000	2.0	10
424	60 38 42	144 52 0	5.0	2.00	1.00	.50	1,000	N	N	50	1,000	2.0	30
425	60 35 12	144 57 37	5.0	2.00	.50	.50	1,000	N	N	70	1,000	2.0	20
426	60 34 8	144 59 23	5.0	2.00	1.00	.50	1,000	N	N	70	1,000	2.0	30
427	60 30 37	145 2 0	5.0	3.00	1.00	.50	1,500	N	N	50	1,000	2.0	30
428	60 27 58	145 6 6	5.0	1.50	1.00	.30	1,000	N	N	50	700	2.0	30
429	60 37 28	145 32 1	7.0	2.00	1.50	.50	1,500	.5	.5	50	1,000	2.0	30
430	60 38 17	145 30 31	7.0	3.00	1.00	.50	1,500	.5	.5	50	1,000	2.0	50
431	60 40 35	145 29 3	7.0	3.00	3.00	.50	1,500	N	N	20	300	1.0	50
432	60 33 11	145 38 23	10.0	3.00	1.00	.50	1,000	N	N	70	1,000	2.0	50
433	60 39 18	145 24 21	5.0	2.00	1.00	.30	1,000	N	N	30	700	1.0	20
434	60 35 51	145 28 36	5.0	2.00	.50	.50	1,000	N	N	100	700	1.5	20
435	60 32 17	145 34 21	7.0	2.00	.30	.50	1,500	N	N	100	1,000	2.0	30
436	60 33 58	145 31 54	7.0	2.00	1.00	.50	1,500	N	N	100	1,000	2.0	30
437	60 35 32	145 21 41	7.0	3.00	1.00	.50	1,500	N	N	100	1,000	2.0	50
438	60 34 46	145 21 10	10.0	2.00	1.50	.50	1,500	N	N	100	1,000	2.0	30
439	60 29 17	145 8 48	7.0	2.00	1.00	.30	1,500	N	N	70	1,000	2.0	30
440	60 29 18	145 11 46	7.0	2.00	1.00	.50	1,500	.5	.5	70	1,000	2.0	50
441	60 37 30	145 32 44	7.0	2.00	1.00	.50	2,000	N	N	70	700	2.0	50
442	60 38 6	145 31 49	10.0	3.00	5.00	.50	1,500	N	N	20	700	1.5	70
443	60 39 7	145 28 36	10.0	3.00	3.00	.50	1,500	N	N	20	500	2.0	50
444	60 34 46	145 38 30	7.0	2.00	1.00	.50	3,000	N	N	70	500	2.0	50
445	60 40 31	145 24 33	10.0	5.00	3.00	.50	1,000	N	N	20	700	2.0	50
446	60 36 59	145 26 51	7.0	2.00	.50	.50	2,000	N	N	70	1,000	2.0	30
447	60 34 36	145 29 22	7.0	2.00	.70	.50	2,000	N	N	100	1,000	2.0	30
448	60 37 20	145 19 33	7.0	3.00	1.00	.50	1,500	N	N	70	1,000	2.0	30
449	60 34 40	145 21 9	7.0	2.00	1.50	.50	1,000	N	N	70	1,000	2.0	20
450	60 50 3	145 35 43	7.0	2.00	1.00	1.00	2,000	N	N	50	1,000	2.0	30

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sc-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Au-ppm aa
406	100	50	50	N	<20	50	50	20	200	150	N	30	<200	200	--
407	100	50	50	N	<20	30	30	15	300	150	N	30	<200	100	--
408	150	100	50	N	<20	50	70	20	300	200	N	30	<200	150	N
409	150	100	50	N	<20	50	50	20	500	200	N	30	<200	200	--
410	100	30	70	N	<20	30	30	20	500	150	N	30	<200	150	--
411	100	50	50	N	20	50	50	20	500	200	N	50	<200	100	N
412	100	50	50	N	20	50	50	20	500	200	N	50	<200	150	--
413	100	20	50	N	<20	30	50	15	500	150	<50	30	<200	300	--
414	150	30	50	N	<20	50	70	20	500	200	N	30	<200	300	N
415	100	50	50	N	<20	30	30	15	500	150	N	30	<200	200	N
416	100	50	50	N	<20	30	30	15	500	150	N	30	<200	200	--
417	100	150	50	N	<20	50	30	20	500	150	N	30	<200	150	N
418	200	30	50	N	<20	100	30	30	300	200	N	50	<200	100	N
419	100	70	50	N	<20	50	30	20	500	200	N	50	<200	200	.65
420	200	100	50	N	<20	50	30	20	500	200	N	30	<200	100	--
421	200	100	50	N	<20	100	50	20	500	200	N	30	<200	200	N
422	150	30	50	N	<20	70	70	20	300	200	N	30	<200	150	--
423	100	70	50	N	<20	50	30	15	500	150	N	30	<200	150	--
424	150	70	100	N	<20	70	30	20	500	200	N	30	<200	100	--
425	100	70	50	N	<20	70	50	20	500	200	N	30	<200	150	N
426	100	70	50	N	<20	70	50	20	500	200	N	30	<200	100	N
427	100	100	50	N	<20	70	70	20	500	200	N	30	<200	150	N
428	100	70	50	N	<20	30	70	20	500	200	N	30	<200	150	N
429	100	100	50	N	<20	50	50	20	500	200	N	50	<200	100	N
430	100	150	50	N	<20	50	700	20	300	200	N	30	<200	100	N
431	100	100	50	N	<20	70	10	30	200	300	N	30	N	500	N
432	100	150	50	N	<20	70	70	20	300	300	N	30	<200	100	N
433	100	100	50	N	<20	50	20	20	500	200	N	50	<200	70	N
434	100	70	50	N	<20	50	20	20	300	200	N	30	<200	70	N
435	150	100	50	N	<20	50	100	20	200	200	N	20	<200	100	N
436	150	100	50	N	<20	70	20	30	300	300	N	30	<200	150	N
437	150	150	50	N	<20	70	50	30	300	300	N	50	<200	150	--
438	150	100	50	N	<20	70	50	30	500	200	N	50	<200	150	--
439	150	100	50	N	<20	70	70	20	300	200	N	50	<200	100	--
440	150	100	50	N	<20	70	70	30	500	200	N	20	<200	200	--
441	150	150	50	N	<20	70	50	30	500	200	N	50	<200	150	--
442	150	150	50	N	<20	100	20	50	300	300	N	30	<200	100	--
443	100	150	50	N	<20	70	70	30	300	300	N	50	<200	100	--
444	100	150	50	N	<20	70	50	20	200	300	N	50	<200	100	--
445	100	150	50	N	<20	70	30	50	500	300	N	50	<200	150	--
446	150	100	50	N	<20	70	50	30	300	200	N	70	<200	150	--
447	150	100	50	N	<20	70	70	30	300	200	N	30	<200	150	--
448	150	100	50	N	<20	70	70	30	500	200	N	50	<200	150	--
449	100	100	50	N	<20	70	50	20	500	200	N	50	<200	150	--
450	150	100	50	N	20	70	70	30	300	200	N	50	<200	300	N

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORAINF. SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
406	95	N	<.05	<5
407	110	N	.30	5
408	130	N	.10	<5
409	120	N	.10	10
410	60	N	<.05	5
411	100	N	.10	10
412	85	N	.10	<5
413	55	N	.10	N
414	95	N	.10	<5
415	60	N	.10	<5
416	65	N	.10	<5
417	65	N	.10	<5
418	70	N	<.05	<5
419	60	N	<.05	<5
420	40	N	<.05	<5
421	120	N	.20	5
422	140	N	.20	10
423	60	N	<.05	<5
424	110	N	.20	10
425	100	N	<.05	5
426	100	N	.20	10
427	120	N	.20	15
428	110	N	.20	15
429	35	N	<.05	<5
430	130	N	.20	5
431	45	N	<.05	<5
432	130	N	.10	5
433	85	N	.10	<5
434	95	N	.10	5
435	150	N	.10	25
436	110	N	.10	5
437	130	N	.10	5
438	130	N	.10	15
439	90	N	.40	35
440	100	N	.10	15
441	80	N	<.05	5
442	75	N	<.05	<5
443	90	N	<.05	<5
444	140	N	.30	5
445	80	N	<.05	<5
446	110	N	.10	10
447	120	N	.10	25
448	110	N	.10	5
449	90	N	.10	5
450	80	N	.10	<5

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	B-ppm S	Ba-ppm S	Be-ppm S	Co-ppm S
451	60 50 24	145 35 11	7.0	2.00	2.00	1.00	2,000	N	N	70	700	2.0	50
452	60 49 30	145 36 21	7.0	2.00	2.00	.50	2,000	N	N	70	700	2.0	30
453	60 49 50	145 31 5	7.0	1.50	1.00	.50	1,000	N	N	100	700	2.0	30
454	60 50 2	145 29 20	7.0	1.50	2.00	.50	1,000	N	N	100	700	2.0	30
455	60 51 15	145 26 4	7.0	1.50	1.00	.70	1,000	N	N	100	1,000	2.0	30
456	60 49 44	145 28 29	7.0	2.00	3.00	.70	1,500	N	N	50	700	2.0	50
457	60 50 29	145 26 29	5.0	1.00	1.00	.50	1,000	N	N	70	700	2.0	30
458	60 51 18	145 27 15	10.0	3.00	3.00	.50	2,000	N	N	50	1,000	2.0	50
459	60 46 29	145 34 16	7.0	2.00	1.00	.50	1,500	N	N	70	1,000	2.0	30
460	60 44 53	145 26 13	5.0	.70	1.00	.30	1,500	N	N	50	700	2.0	50
461	60 47 31	145 10 34	7.0	3.00	1.00	.50	1,500	.5	N	50	1,000	2.0	100
462	60 47 53	145 10 20	7.0	3.00	.70	.50	2,000	N	N	100	1,500	2.0	70
463	60 48 55	145 16 7	7.0	3.00	1.00	.50	1,500	N	N	50	1,000	2.0	50
464	60 32 2	145 0 17	5.0	1.50	1.00	.30	700	N	N	20	1,000	1.5	20
465	60 29 37	145 2 47	5.0	1.50	.50	.30	1,000	N	N	70	700	1.0	20
466	60 29 40	145 6 11	5.0	1.50	1.00	.30	700	N	N	20	700	1.0	20
467	60 28 27	145 7 56	5.0	1.50	.70	.30	700	N	N	50	700	1.0	30
468	60 30 20	145 10 19	5.0	1.50	1.00	.30	700	N	N	20	700	1.0	20
469	60 28 36	145 16 0	5.0	1.50	.70	.30	1,500	N	N	30	700	1.0	50
470	60 29 17	145 18 43	5.0	1.00	.70	.30	1,500	N	N	30	700	1.0	30
471	60 49 23	145 32 38	5.0	1.50	.30	.50	700	N	N	70	500	1.0	20
472	60 49 7	145 34 16	5.0	1.00	.20	.20	700	N	N	50	300	1.0	10
473	60 48 13	145 32 15	3.0	.50	.20	.30	300	N	N	50	300	1.0	10
474	60 47 30	145 33 5	5.0	1.50	.30	.30	1,000	N	N	50	500	1.5	30
475	60 46 59	145 32 26	5.0	1.00	.30	.30	700	N	N	50	500	1.0	15
476	60 46 52	145 30 30	3.0	1.00	.15	.50	200	N	N	70	300	1.0	15
477	60 46 44	145 30 9	5.0	2.00	1.00	.50	1,000	N	N	50	500	1.0	10
478	60 46 16	145 31 36	3.0	1.00	.50	.30	700	N	N	20	500	1.0	10
479	60 45 40	145 31 32	5.0	2.00	.50	.30	1,000	N	N	50	700	1.0	30
480	60 45 32	145 31 17	5.0	1.50	.70	.30	1,000	N	N	50	500	1.0	20
481	60 48 21	145 9 25	5.0	2.00	.70	.50	1,000	N	N	50	700	1.0	20
482	60 47 59	145 8 44	5.0	2.00	.30	.50	700	N	N	100	700	1.0	30
483	60 48 46	145 17 7	5.0	1.50	.70	.50	700	N	N	100	700	1.5	30
484	60 46 35	145 18 19	5.0	1.50	.30	.50	700	N	N	100	700	1.0	20
485	60 47 52	145 11 57	5.0	1.50	.70	.30	700	N	N	30	700	1.0	30
486	60 48 44	145 14 13	5.0	1.50	.50	.50	700	N	N	50	700	1.5	20
487	60 48 9	145 16 0	5.0	1.50	1.00	.50	700	N	N	50	1,000	2.0	20
488	60 47 14	145 21 53	5.0	1.50	.20	.50	500	N	N	50	700	1.0	20
489	60 46 16	145 24 10	5.0	1.50	.30	.50	700	N	N	100	1,000	2.0	20
490	60 43 53	145 22 46	5.0	1.50	.50	.30	1,000	N	N	70	1,000	1.5	20
491	60 44 12	145 22 6	5.0	2.00	.50	.50	1,000	N	N	20	1,000	1.5	30
492	60 30 34	145 40 41	5.0	1.50	.30	.50	1,000	N	N	100	700	2.0	20
493	60 28 11	145 46 56	5.0	2.00	.50	.50	1,000	N	N	70	500	1.0	30
494	60 27 39	145 53 22	5.0	1.50	.50	.30	1,000	N	N	70	500	1.0	30
495	60 28 49	145 53 49	5.0	1.50	.70	.20	700	N	N	50	300	1.0	20

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sc-ppm	Sr-ppm	V-ppm	W-ppm	Y-ppm	Zn-ppm	Zr-ppm	Au-ppm
	S	S	S	S	S	S	S	S	S	S	S	S	S	S	aa
451	150	150	50	N	20	70	30	30	300	300	N	70	<200	200	N
452	150	70	50	N	20	70	30	30	500	300	N	50	<200	200	N
453	150	50	50	N	20	70	50	30	300	200	N	50	<200	200	N
454	150	70	50	N	20	70	20	30	500	200	N	50	<200	200	N
455	150	70	50	N	20	70	50	30	500	200	N	50	<200	200	.20
456	200	200	50	N	20	70	30	30	500	300	N	70	<200	150	N
457	100	50	50	N	20	70	20	20	500	150	N	50	<200	200	N
458	150	150	50	N	20	100	50	30	500	300	N	70	<200	150	N
459	150	70	50	N	20	70	30	20	500	200	N	50	200	150	N
460	100	50	50	N	<20	50	50	20	500	150	N	20	200	100	N
461	150	200	50	N	20	100	100	30	500	300	N	50	200	200	N
462	150	500	50	N	20	100	70	30	200	300	N	50	<200	200	N
463	150	70	50	N	20	70	30	30	500	300	N	50	<200	150	N
464	100	70	50	N	<20	50	30	20	500	150	N	20	N	70	--
465	100	70	50	N	<20	30	30	15	200	150	N	20	N	150	--
466	70	70	50	N	<20	50	50	15	500	150	N	20	N	200	--
467	70	50	50	N	<20	50	50	15	200	150	N	20	N	100	--
468	50	50	50	N	<20	50	50	15	500	150	N	20	N	150	--
469	70	70	50	N	<20	50	30	15	200	150	N	20	N	70	--
470	50	30	50	N	<20	30	30	15	100	150	N	50	N	200	--
471	70	100	50	N	<20	50	30	20	<100	150	N	30	N	150	N
472	50	30	<20	N	<20	30	20	15	<100	100	N	20	N	50	N
473	150	50	50	N	<20	20	20	7	200	100	N	10	N	500	--
474	100	100	50	N	<20	50	50	20	200	200	N	20	N	100	--
475	50	50	50	N	<20	30	20	10	200	150	N	15	N	70	--
476	50	50	50	N	<20	20	20	10	200	150	N	15	N	500	--
477	50	100	50	N	<20	30	20	15	200	200	N	20	N	100	--
478	50	30	50	N	<20	20	20	10	200	100	N	20	N	70	--
479	100	100	50	N	<20	50	50	15	200	150	N	20	N	70	--
480	100	50	50	N	<20	50	20	15	200	150	N	20	N	200	--
481	100	100	50	N	<20	50	30	20	200	200	N	30	N	200	N
482	100	100	50	N	<20	70	50	20	200	200	N	30	<200	100	N
483	150	100	50	N	<20	70	30	20	300	200	N	50	<200	100	N
484	100	100	50	N	<20	50	30	20	200	200	N	30	<200	200	--
485	100	70	50	N	<20	50	30	15	300	150	N	20	<200	50	N
486	100	50	50	N	<20	50	20	20	300	150	N	30	<200	100	N
487	100	50	50	N	<20	50	20	20	500	200	N	50	<200	200	N
488	70	50	50	N	<20	50	30	20	200	200	N	30	<200	200	--
489	100	50	50	N	<20	50	30	20	200	200	N	30	<200	200	--
490	100	50	50	N	<20	50	30	20	300	200	N	20	<200	100	--
491	100	200	50	N	<20	50	30	20	300	200	N	20	<200	100	--
492	150	70	50	N	<20	50	30	20	200	200	N	20	<200	100	--
493	100	100	50	N	<20	50	30	20	200	200	N	20	<200	100	--
494	100	50	50	N	<20	50	20	20	200	200	N	20	<200	70	--
495	100	100	20	N	<20	50	30	15	200	150	N	20	<200	100	--

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
451	70	N	<.05	<5
452	65	N	<.05	<5
453	70	N	<.05	<5
454	50	N	<.05	<5
455	70	N	.10	<5
456	55	N	.10	<5
457	55	N	<.05	<5
458	80	N	.10	<5
459	100	N	.10	5
460	120	N	.20	55
461	200	N	.40	20
462	110	N	.10	15
463	95	N	.10	5
464	95	N	.20	10
465	120	N	.20	30
466	80	N	.10	5
467	130	N	.20	25
468	80	N	.10	<5
469	100	N	<.05	10
470	80	N	<.05	5
471	75	N	.20	<5
472	70	N	.10	<5
473	40	N	<.05	N
474	70	N	.20	5
475	70	N	.10	<5
476	60	N	<.05	<5
477	85	N	.10	<5
478	65	N	.10	N
479	120	N	.30	10
480	65	N	.10	<5
481	60	N	.10	<5
482	85	N	.10	10
483	75	N	.10	<5
484	85	N	.10	<5
485	130	N	.40	20
486	85	N	.10	5
487	70	N	.10	<5
488	75	N	.10	5
489	95	N	.10	5
490	100	N	.10	5
491	85	N	.10	N
492	120	N	.20	10
493	120	N	.10	5
494	100	N	.30	<5
495	95	N	.10	<5

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	B-ppm S	Ba-ppm S	Be-ppm S	Co-ppm S
496	60 29 55	145 49 53	5.0	1.50	.20	.20	1,000	N	N	50	300	1.0	20
497	60 29 8	146 4 11	2.0	1.50	1.00	.15	700	N	N	30	200	<1.0	20
498	60 24 41	146 13 41	3.0	1.00	.20	.15	1,000	N	N	50	300	1.0	20
499	60 24 37	146 10 52	5.0	1.00	.30	.20	1,000	N	N	50	300	1.0	30
500	60 32 51	146 2 43	3.0	1.00	.50	.15	700	N	N	30	300	<1.0	20
501	60 29 59	146 5 28	3.0	.30	.20	.10	3,000	N	N	30	300	1.0	30
502	60 35 3	145 52 19	3.0	.70	.20	.20	1,000	N	N	50	500	1.5	20
503	60 31 54	145 54 19	1.5	.15	.20	.07	500	N	N	<10	20	<1.0	<5
504	60 42 38	145 41 44	7.0	1.50	.50	.30	1,000	N	N	50	700	1.5	30
505	60 47 43	145 13 9	5.0	1.50	.50	.30	700	N	N	50	700	1.0	10
506	60 48 22	145 18 3	7.0	1.50	.50	.50	1,000	N	N	50	700	1.5	30
507	60 46 37	145 18 15	5.0	1.50	.70	.30	1,000	N	N	50	700	1.5	15
508	60 46 41	145 23 30	5.0	1.00	.20	.30	500	N	N	70	700	1.0	10
509	60 45 56	145 23 45	7.0	1.50	.20	.50	1,000	N	N	70	1,000	2.0	30
510	60 44 59	145 16 53	7.0	2.00	.50	.50	1,000	N	N	30	1,000	2.0	20
511	60 44 45	145 20 51	5.0	1.50	.70	.30	700	N	N	50	700	1.5	10
512	60 44 56	145 20 31	7.0	1.50	.50	.50	700	N	N	100	1,000	2.0	20
513	60 28 40	145 44 41	7.0	2.00	.30	.50	1,500	N	N	70	700	2.0	50
514	60 27 4	145 50 24	7.0	2.00	.70	.50	1,000	N	N	70	700	2.0	50
515	60 27 43	145 54 29	7.0	2.00	1.00	.50	5,000	N	N	100	700	2.0	70
516	60 29 53	145 50 0	7.0	2.00	1.00	.50	2,000	N	N	100	1,000	2.0	50
517	60 30 37	146 0 11	7.0	2.00	.70	.50	5,000	N	N	100	1,000	1.5	70
518	60 22 51	146 13 23	7.0	2.00	.50	.30	1,000	N	N	70	700	1.0	20
519	60 25 36	146 11 20	7.0	3.00	1.50	.50	3,000	N	N	10	500	1.0	70
520	60 32 55	146 1 6	5.0	.50	.50	.30	3,000	N	N	50	500	1.0	30
521	60 29 36	146 8 55	5.0	.70	.50	.30	1,000	N	N	50	700	2.0	20
522	60 43 26	145 40 38	7.0	2.00	.50	.50	1,500	N	N	70	700	1.5	30
523	60 44 17	145 40 51	7.0	1.50	.70	.50	1,000	N	N	70	700	2.0	20
524	60 44 21	145 40 46	7.0	2.00	.70	.50	1,500	N	N	70	1,000	2.0	20
525	60 42 15	145 48 32	7.0	2.00	.70	.50	1,500	N	N	70	1,000	1.5	20
526	60 42 12	145 45 12	5.0	1.00	.20	.20	700	N	N	50	500	1.0	10
527	60 55 31	145 10 46	5.0	1.00	.30	.30	700	N	N	50	500	1.5	20
528	60 56 42	145 11 6	3.0	1.00	.30	.20	700	N	N	20	300	1.0	10
529	60 42 34	145 41 30	5.0	2.00	.30	.30	700	N	N	50	500	1.0	10
530	60 54 6	145 12 31	5.0	1.50	1.50	.20	700	N	N	50	150	<1.0	20
531	60 57 39	145 10 49	5.0	1.50	.50	.20	700	N	N	20	300	1.0	20
532	60 57 58	145 7 29	5.0	.50	.50	.30	700	N	N	30	500	1.0	20
533	60 58 16	145 4 6	3.0	1.00	.50	.20	500	N	N	30	500	1.0	10
534	60 58 26	145 8 33	3.0	2.00	.50	.20	500	N	N	10	300	1.0	10
535	60 58 21	145 8 58	5.0	1.50	2.00	.30	700	N	N	<10	N	<1.0	30
536	60 58 25	145 9 15	5.0	2.00	2.00	.30	700	N	N	<10	200	<1.0	30
537	60 59 41	145 16 40	5.0	1.00	.50	.20	700	N	N	20	300	1.0	10
538	60 59 38	145 16 44	5.0	1.50	.50	.20	700	N	N	20	300	1.0	10
539	60 55 45	144 50 37	3.0	.50	.70	.20	500	N	N	50	500	1.0	10
540	60 48 48	144 54 59	5.0	1.50	.20	.20	700	N	N	20	300	1.0	10

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sc-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Au-ppm aa
496	70	50	20	N	<20	30	20	10	200	100	N	10	<200	70	--
497	50	50	50	N	<20	20	10	10	200	100	N	10	N	50	--
498	50	50	<20	N	<20	30	20	10	100	100	N	10	N	50	--
499	70	50	20	N	<20	30	20	15	200	150	N	20	<200	70	--
500	70	50	20	N	<20	30	10	10	100	100	N	10	<200	50	--
501	30	20	50	N	<20	20	<10	10	100	100	N	10	<200	70	--
502	100	30	50	N	<20	30	50	10	100	100	N	10	<200	70	--
503	N	50	<20	N	<20	10	<10	5	N	70	N	<10	<200	<100	--
504	100	70	50	N	<20	50	50	20	300	150	N	20	<200	100	--
505	70	50	50	N	<20	30	10	15	200	150	N	20	N	70	N
506	100	100	50	N	<20	50	30	20	200	150	N	20	N	200	N
507	70	50	50	N	<20	30	20	15	300	150	N	20	<200	100	N
508	50	100	50	N	<20	30	20	100	100	100	N	10	N	100	--
509	100	100	50	N	<20	50	50	20	200	200	N	20	200	100	--
510	100	100	50	N	<20	50	50	15	300	150	N	20	200	100	N
511	70	50	50	N	<20	30	20	10	300	150	N	10	<200	100	--
512	100	100	50	N	<20	70	70	20	200	200	N	20	<200	100	--
513	100	150	50	N	<20	100	70	20	200	200	N	30	<200	150	--
514	100	100	50	N	<20	70	70	20	300	200	N	30	<200	200	--
515	100	100	50	N	<20	70	50	20	300	200	N	30	<200	150	--
516	100	100	50	N	<20	70	100	20	200	300	N	20	<200	100	--
517	70	100	50	N	<20	100	70	15	200	300	N	20	<200	100	--
518	100	70	50	N	<20	50	50	15	<100	200	N	20	N	100	--
519	100	150	50	N	<20	70	30	20	200	200	N	30	<200	70	--
520	20	20	50	N	<20	20	N	10	200	150	N	20	<200	50	--
521	70	50	50	N	<20	50	50	15	200	150	N	20	<200	70	--
522	100	100	50	N	<20	50	50	20	200	200	N	20	<200	100	--
523	100	100	50	N	<20	50	50	20	300	200	N	20	<200	100	--
524	100	50	50	N	<20	50	50	20	300	200	N	20	<200	150	--
525	100	100	50	N	<20	50	50	20	200	200	N	20	N	100	--
526	70	30	50	N	<20	20	30	10	200	100	N	10	<200	70	--
527	100	70	<20	N	<20	30	20	15	300	100	N	20	<200	100	N
528	50	70	<20	N	<20	20	20	10	200	100	N	10	N	30	N
529	50	30	<20	N	<20	30	10	10	200	150	N	20	<200	150	--
530	150	100	50	N	<20	50	<10	20	200	200	N	20	<200	30	--
531	100	70	50	N	<20	30	10	15	200	150	N	20	<200	70	--
532	70	70	30	N	<20	30	50	15	300	150	N	30	<200	100	N
533	70	10	<20	N	<20	20	10	10	200	100	N	15	N	70	N
534	50	50	<20	N	<20	20	20	10	200	100	N	10	N	100	.20
535	150	100	<20	N	<20	50	<10	30	100	200	N	30	N	30	N
536	150	100	<20	N	<20	50	<10	30	100	200	N	30	<200	70	N
537	70	30	<20	N	<20	20	10	10	100	100	N	20	N	50	--
538	70	100	<20	N	<20	20	10	10	100	100	N	20	N	100	--
539	100	50	50	N	<20	30	20	15	200	100	N	30	<200	100	--
540	100	30	<20	N	<20	20	10	10	150	70	N	20	<200	100	--

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORAINF SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
496	N	N	.10	10
497	120	N	.20	5
498	140	N	.10	<5
499	80	N	.10	<5
500	55	N	.10	<5
501	180	N	.40	10
502	150	N	.30	10
503	120	N	.30	5
504	130	N	.20	20
505	75	N	.10	<5
506	75	N	.10	<5
507	80	N	.20	<5
508	75	N	.10	<5
509	140	N	.20	15
510	130	N	.10	<5
511	80	N	.10	<5
512	120	N	.10	5
513	190	N	.20	15
514	110	N	.10	<5
515	130	N	.20	<5
516	70	N	.40	<5
517	190	N	.20	<5
518	110	N	.10	<5
519	150	N	.30	<5
520	90	N	.20	<5
521	220	N	.40	<5
522	110	N	.10	<5
523	100	N	.10	<5
524	85	N	.10	<5
525	90	N	.10	<5
526	90	N	.10	<5
527	90	N	.10	<5
528	90	N	.30	<5
529	50	N	.10	<5
530	50	N	.20	<5
531	85	N	.20	<5
532	80	N	.10	<5
533	55	N	.10	<5
534	60	N	.10	<5
535	55	N	.10	<5
536	50	N	.10	<5
537	85	N	.10	<5
538	75	N	.10	<5
539	90	N	.20	<5
540	80	N	.10	30

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-ppt. S	Mg-ppt. S	Ca-pct. S	Ti-pct. S	Mn-ppt. S	Ag-ppt. S	As-ppt. S	B-ppt. S	Ba-ppt. S	Be-ppt. S	Co-ppt. S
541	60 58 47	145 9 23	5.0	3.00	1.00	.20	700	N	N	10	200	<1.0	10
542	60 55 4	145 4 39	7.0	.50	1.00	.20	1,000	N	N	<10	150	<1.0	50
543	60 54 15	145 3 31	3.0	2.00	.50	.20	500	N	N	20	500	1.0	10
544	60 54 29	144 53 8	5.0	3.00	2.00	.30	1,000	N	N	<10	<20	<1.0	50
545	60 54 51	144 49 20	5.0	3.00	2.00	.20	700	N	N	30	50	N	50
546	60 49 33	144 50 59	3.0	1.00	.50	.30	500	N	N	30	500	1.0	10
547	60 57 18	145 18 59	7.0	2.00	.70	.20	1,000	N	N	<10	100	1.0	50
548	60 57 36	145 18 45	3.0	1.00	.20	.15	700	N	N	30	300	1.0	20
549	60 49 29	144 46 44	2.0	1.00	.70	.30	700	N	N	30	500	1.0	10
550	60 42 7	144 55 9	5.0	3.00	2.00	.20	1,000	N	N	10	100	N	50
551	60 40 8	144 51 59	3.0	1.00	.70	.20	700	N	N	10	300	<1.0	20
552	60 40 54	144 48 4	7.0	3.00	3.00	.20	1,000	N	N	<10	150	1.0	50
553	60 43 27	144 45 44	7.0	2.00	1.50	.30	1,000	N	N	10	300	1.0	20
554	60 42 54	144 46 32	5.0	2.00	2.00	.20	700	N	N	<10	100	<1.0	30
555	60 32 44	145 26 58	2.0	.50	.30	.20	1,000	N	N	20	300	1.0	20
556	60 34 20	145 18 14	3.0	1.00	.70	.20	700	N	N	50	300	1.0	50
557	60 36 34	145 14 7	5.0	1.00	1.00	.50	1,000	N	N	20	700	2.0	20
558	60 33 21	145 13 42	5.0	2.00	1.00	.50	1,000	N	N	50	700	2.0	30
559	60 34 59	145 14 18	7.0	2.00	3.00	.50	1,000	N	N	50	700	2.0	30
560	60 33 54	145 8 54	5.0	2.00	1.00	.50	1,000	N	N	50	1,000	2.0	30
561	60 31 56	145 13 10	10.0	2.00	2.00	.50	1,000	N	N	70	700	2.0	30
562	60 56 3	144 50 2	10.0	3.00	3.00	.50	1,000	N	N	70	1,000	2.0	50
563	60 55 4	144 54 12	10.0	5.00	5.00	.50	1,500	N	N	<10	<20	<1.0	50
564	60 55 1	144 53 11	10.0	5.00	5.00	.50	1,500	N	N	20	<20	N	70
565	60 48 33	144 55 30	5.0	1.50	1.00	.50	700	N	N	50	1,000	2.0	20
566	60 47 10	144 47 36	7.0	2.00	1.50	.50	1,000	N	N	100	1,000	2.0	70
567	60 46 39	144 45 24	5.0	1.00	1.00	.50	700	N	N	100	1,000	2.0	20
568	60 41 21	144 52 9	7.0	5.00	5.00	.50	1,000	N	N	20	300	<1.0	50
569	60 47 52	144 53 27	10.0	7.00	7.00	.50	1,500	N	N	10	<20	<1.0	100
570	60 39 2	144 49 50	5.0	2.00	2.00	.50	700	N	N	50	700	1.5	30
571	60 42 33	144 46 35	10.0	5.00	3.00	.30	700	N	N	10	200	<1.0	70
572	60 31 50	145 24 50	7.0	2.00	1.00	.50	3,000	N	N	70	1,000	2.0	70
573	60 33 10	145 20 4	5.0	1.50	1.50	.50	1,500	N	N	50	1,000	2.0	50
574	60 36 41	145 14 54	7.0	2.00	1.50	.50	1,500	N	N	30	1,000	2.0	30
575	60 33 26	145 15 30	5.0	1.50	1.00	.50	1,000	N	N	50	1,000	2.0	20
576	60 33 21	145 11 58	5.0	2.00	1.50	.50	1,000	N	N	70	1,500	2.0	30
577	60 33 49	145 10 45	5.0	2.00	1.50	.50	1,500	N	N	70	1,500	2.0	50
578	60 34 3	145 8 4	5.0	2.00	1.50	.50	1,000	N	N	50	1,000	2.0	30
579	60 32 22	145 11 15	7.0	1.50	3.00	.50	1,000	N	N	50	1,500	2.0	20
580	60 40 5	145 13 32	5.0	1.50	2.00	.50	1,000	N	N	50	1,000	2.0	50
581	60 39 53	145 15 32	5.0	1.50	1.00	.50	1,000	N	N	50	1,000	1.5	30
582	60 41 28	145 15 26	7.0	2.00	1.00	.50	1,500	N	N	50	1,000	2.0	50
583	60 39 19	145 19 45	7.0	2.00	1.50	.50	1,000	N	N	30	700	2.0	30
584	60 22 36	146 24 43	20.0	5.00	3.00	.50	2,000	N	N	100	500	1.5	100
585	60 22 24	146 36 17	10.0	1.50	.50	.50	1,000	N	N	150	1,000	2.0	50

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Au-ppm aa
541	100	70	<20	N	<20	30	10	100	150	N	20	<200	N	30
542	70	300	<20	N	<20	50	10	100	200	N	20	<200	30	N
543	50	30	<20	N	<20	20	10	200	100	N	20	<200	100	N
544	100	150	N	N	<20	70	<10	<100	200	N	30	<200	30	---
545	100	150	<20	N	<20	70	<10	N	200	N	20	<200	30	---
546	150	30	<20	N	<20	30	10	300	100	N	20	<200	200	---
547	150	200	20	N	<20	100	<10	100	200	N	20	200	10	N
548	100	50	20	N	<20	50	20	100	100	N	20	<200	50	N
549	100	30	<20	N	<20	30	10	200	100	N	20	<200	50	---
550	150	150	<20	N	<20	70	10	200	200	N	20	<200	20	N
551	50	50	20	N	<20	30	10	200	100	N	20	<200	70	---
552	150	100	20	N	<20	100	10	200	200	N	20	<200	20	---
553	150	100	20	N	<20	50	20	200	200	N	30	<200	70	N
554	150	200	20	N	<20	70	10	200	150	N	10	<200	50	---
555	50	30	20	N	<20	20	10	200	100	N	10	<200	50	---
556	50	70	20	N	<20	30	30	200	100	N	15	<200	70	---
557	70	50	50	N	<20	30	20	300	100	N	30	<200	200	---
558	150	100	50	N	<20	50	30	200	200	N	30	<200	200	---
559	70	100	50	N	<20	30	30	500	200	N	20	<200	100	---
560	100	100	50	N	<20	50	20	300	200	N	20	<200	100	---
561	100	70	50	N	<20	50	20	200	200	N	70	<200	300	---
562	150	100	50	N	<20	100	20	200	200	N	50	<200	150	---
563	150	200	50	N	<20	100	10	<100	300	N	50	<200	20	---
564	150	500	50	N	<20	100	10	<100	300	N	30	<200	20	---
565	100	50	50	N	<20	50	20	300	150	N	30	<200	300	---
566	150	150	50	N	20	100	50	500	200	N	50	<200	200	---
567	150	30	50	N	<20	50	20	500	100	N	30	<200	300	---
568	200	300	50	N	<20	100	20	100	200	N	30	<200	50	---
569	200	300	50	N	<20	150	15	<100	300	N	50	<200	20	---
570	100	70	50	N	<20	50	20	300	200	N	30	<200	150	---
571	200	1,000	50	N	20	100	20	150	300	N	30	<200	50	---
572	150	1,000	50	N	20	70	50	300	200	N	30	<200	150	---
573	100	1,000	50	N	<20	50	30	500	200	N	30	<200	200	---
574	100	1,000	50	N	20	50	20	500	300	N	50	<200	200	---
575	100	30	50	N	<20	30	10	500	150	N	30	<200	200	---
576	100	50	50	N	<20	50	50	700	200	N	50	<200	200	---
577	100	100	50	N	20	50	20	500	200	N	50	<200	150	---
578	100	100	50	N	<20	50	50	500	200	N	30	<200	150	---
579	100	50	50	N	<20	50	20	700	200	N	50	<200	200	---
580	100	100	50	N	20	70	50	300	200	300	30	<200	200	---
581	100	100	50	N	<20	50	50	300	200	N	30	<200	200	---
582	100	100	50	N	20	100	70	500	200	N	50	<200	200	---
583	100	100	50	N	20	50	30	300	200	N	50	<200	200	---
584	1,000	150	50	N	20	200	20	200	500	N	70	<200	200	---
585	150	70	50	N	20	70	50	200	200	N	50	<200	200	---

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
541	60	N	.10	<5
542	100	N	.30	<5
543	70	N	.10	<5
544	95	N	.40	<5
545	50	N	.20	<5
546	50	N	.10	<5
547	250	N	.60	<5
548	125	N	.20	<5
549	120	N	.20	10
550	70	N	.20	<5
551	100	N	.20	<5
552	45	N	.20	<5
553	110	N	.10	<5
554	25	N	.10	<5
555	170	N	.30	25
556	190	N	.20	45
557	80	N	.10	<5
558	260	N	.20	<5
559	75	N	.10	<5
560	150	N	.10	<5
561	75	N	.10	<5
562	100	N	.20	<5
563	60	N	.20	<5
564	60	N	.20	<5
565	80	N	.10	25
566	140	N	.10	15
567	50	N	.10	5
568	60	N	.20	5
569	60	N	.10	<5
570	60	N	.10	10
571	70	N	.10	<5
572	180	N	.30	15
573	120	N	.10	5
574	100	N	.10	15
575	50	N	<.05	10
576	80	N	.10	10
577	120	N	.10	15
578	90	N	<.05	5
579	65	N	.10	<5
580	145	N	.30	<5
581	105	N	.20	20
582	180	N	.30	25
583	80	N	.10	<5
584	115	N	.20	<5
585	140	N	.20	10

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	B-ppm	Ba-ppm	Be-ppm	Co-ppm
			S	S	S	S	S	S	S	S	S	S	S
586	60 25 29	146 27 31	7.0	1.00	.50	.50	700	N	N	100	700	2.0	30
587	60 24 42	146 18 37	10.0	2.00	1.00	.50	1,500	N	N	150	1,000	2.0	50
588	60 16 20	146 31 58	5.0	1.50	.50	.50	700	N	N	100	1,000	2.0	20
589	60 32 50	145 9 19	7.0	1.50	1.50	.50	1,000	N	N	50	1,000	2.0	50
590	60 32 16	145 9 50	7.0	2.00	1.50	.50	1,000	N	N	50	1,000	2.0	50
591	60 38 53	145 15 58	7.0	2.00	1.00	.50	1,500	N	N	50	1,500	2.0	30
592	60 40 5	145 16 5	10.0	2.00	1.50	.50	1,500	N	N	50	1,500	2.0	50
593	60 41 39	145 13 49	7.0	2.00	1.00	.50	1,500	N	N	50	1,000	2.0	30
594	60 39 54	145 19 35	10.0	3.00	2.00	.50	1,500	N	N	50	1,500	2.0	50
595	60 18 50	146 26 0	7.0	1.50	.50	.50	1,000	N	N	100	1,500	2.0	30
596	60 25 14	146 37 15	7.0	2.00	1.00	.50	1,500	N	N	100	1,000	2.0	50
597	60 23 23	146 33 28	7.0	1.50	.50	.50	2,000	N	N	100	1,000	2.0	50
598	60 23 51	146 26 15	7.0	2.00	.70	.50	2,000	N	N	100	1,500	2.0	50
599	60 42 8	145 15 8	7.0	2.00	2.00	.50	2,000	N	N	50	1,500	2.0	30
600	60 40 34	145 21 22	7.0	2.00	2.00	.50	1,500	N	N	70	1,500	2.0	30
601	60 43 38	145 26 8	10.0	3.00	5.00	.50	1,000	N	N	20	300	2.0	50
602	60 44 26	144 14 16	5.0	1.00	2.00	.50	1,000	N	N	20	700	2.0	50
603	60 44 16	144 14 30	7.0	1.50	2.00	.50	1,500	N	N	50	1,000	2.0	30
604	60 43 13	144 2 13	7.0	1.50	3.00	.50	1,000	N	N	20	1,000	2.0	20
605	60 42 12	144 6 31	7.0	1.50	2.00	.30	1,000	N	N	150	1,000	2.0	20
606	60 42 46	144 6 26	5.0	1.50	2.00	.50	1,000	N	N	20	1,000	2.0	20
607	60 42 15	144 10 12	3.0	1.00	5.00	.50	1,000	N	N	20	1,000	2.0	10
608	60 42 52	145 16 34	5.0	2.00	1.00	.50	1,000	N	N	50	1,000	2.0	30
609	60 41 56	145 19 7	5.0	1.50	1.00	.50	1,000	N	N	50	1,000	2.0	20
610	60 38 40	145 21 45	7.0	2.00	2.00	.50	1,000	N	N	70	1,000	2.0	30
611	60 44 24	144 14 6	3.0	1.00	3.00	.20	700	N	N	30	1,000	2.0	10
612	60 43 31	144 14 6	3.0	1.00	2.00	.20	700	N	N	100	1,000	2.0	10
613	60 42 48	144 4 29	5.0	2.00	2.00	.50	1,000	N	N	50	1,000	2.0	20
614	60 41 41	144 7 15	3.0	1.00	3.00	.30	700	N	N	50	700	2.0	20
615	60 42 10	144 7 34	10.0	3.00	5.00	.50	1,000	N	N	20	1,000	1.5	50
616	60 41 19	144 10 54	2.0	.50	2.00	.20	500	N	N	30	700	2.0	10
617	60 41 28	144 14 10	5.0	1.00	3.00	.50	1,000	N	N	30	500	2.0	15
618	60 41 38	144 19 32	2.0	1.00	2.00	.50	700	N	N	20	700	2.0	10
619	60 39 54	144 20 21	2.0	1.00	2.00	.20	700	N	N	30	700	2.0	10
620	60 39 43	144 13 55	5.0	1.00	2.00	.50	1,000	N	N	30	700	2.0	10
621	60 39 38	144 14 28	5.0	1.50	3.00	.50	1,000	N	N	50	1,000	2.0	20
622	60 38 38	144 2 36	5.0	1.50	2.00	.50	700	N	N	50	1,000	2.0	20
623	60 37 2	144 34 14	5.0	1.50	2.00	.50	1,000	N	N	50	1,000	2.0	15
624	60 37 35	144 23 14	7.0	2.00	2.00	.50	700	N	N	50	700	2.0	30
625	60 36 55	144 20 31	7.0	1.00	1.00	.50	700	N	N	50	700	2.0	30
626	60 38 31	144 20 5	5.0	1.00	1.50	.30	700	N	N	50	1,000	2.0	20
627	60 47 4	145 41 20	10.0	2.00	1.00	.50	1,500	N	N	70	1,000	2.0	50
628	60 46 8	145 42 50	5.0	2.00	1.50	.50	1,500	N	N	50	1,000	2.0	20
629	60 48 41	145 41 40	5.0	2.00	1.00	.50	3,000	N	N	50	700	2.0	30
630	60 51 24	145 44 35	5.0	2.00	1.00	.50	1,500	N	N	50	700	2.0	30

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sc-ppm	Sr-ppm	V-ppm	W-ppm	Y-ppm	Zn-ppm	Zr-ppm	Au-ppm
586	100	50	50	N	<20	70	20	20	200	200	N	30	<200	200	--
587	200	100	50	N	20	100	50	30	300	300	N	50	200	200	--
588	150	50	50	N	<20	70	20	20	300	200	N	30	<200	200	--
589	100	50	50	N	<20	50	30	20	700	150	N	30	<200	200	--
590	150	100	50	N	<20	70	70	20	700	200	N	30	<200	150	--
591	150	100	50	N	<20	70	50	20	500	200	N	30	200	200	--
592	150	150	50	N	20	70	50	30	700	200	N	50	200	200	--
593	200	100	50	N	<20	50	30	20	300	200	N	20	<200	150	--
594	150	150	50	N	20	70	50	30	500	300	N	50	200	200	--
595	150	100	50	N	20	70	30	30	200	200	N	50	<200	200	--
596	150	100	50	N	20	70	50	30	700	300	N	50	<200	150	--
597	200	100	50	N	20	50	50	20	200	200	N	30	200	200	--
598	150	150	50	N	20	70	30	30	300	300	N	30	200	200	--
599	150	100	50	N	20	70	50	30	500	200	N	30	<200	200	--
600	150	100	50	N	20	70	50	30	500	200	N	50	<200	200	--
601	100	100	50	N	<20	100	20	50	200	200	N	50	N	100	--
602	100	50	70	N	<20	50	50	20	500	50	N	50	N	200	--
603	100	70	100	N	20	50	30	20	300	200	N	50	N	200	--
604	100	50	50	N	<20	50	50	20	500	200	N	50	N	300	--
605	70	50	50	N	<20	50	50	20	300	150	N	50	<200	200	--
606	100	50	100	N	<20	50	50	20	500	200	N	50	N	300	--
607	50	30	50	N	<20	20	50	10	700	100	N	50	N	700	--
608	100	70	50	N	<20	50	50	20	500	200	N	30	<200	200	--
609	100	50	50	N	<20	50	50	20	500	200	N	20	<200	200	--
610	100	100	50	N	<20	50	30	20	500	200	N	50	<200	200	--
611	70	20	50	N	<20	30	30	15	700	100	N	70	N	500	--
612	70	20	50	N	<20	30	50	15	500	150	N	20	N	300	--
613	100	50	100	N	<20	50	50	20	500	200	N	50	<200	300	--
614	20	20	50	N	<20	20	30	15	500	100	N	20	<200	300	--
615	150	200	50	N	20	70	50	30	500	200	N	30	<200	200	--
616	30	15	50	N	<20	20	20	7	300	100	N	30	<200	200	--
617	50	20	50	N	<20	20	20	30	500	150	N	30	<200	300	--
618	50	20	100	N	<20	20	30	20	500	100	N	30	<200	500	--
619	50	15	50	N	<20	20	20	10	500	100	N	10	<200	100	--
620	50	30	50	N	<20	15	30	20	500	150	N	50	<200	500	--
621	70	50	50	N	<20	30	30	20	500	150	N	30	<200	200	--
622	70	50	50	N	<20	20	50	20	300	150	N	30	N	200	--
623	100	50	70	N	<20	20	50	20	500	200	N	50	N	200	--
624	100	70	50	N	20	50	20	20	500	200	N	50	<200	200	--
625	100	70	50	N	20	50	20	20	500	200	N	50	N	200	--
626	100	50	50	N	20	50	20	20	500	200	N	20	<200	200	--
627	150	100	50	N	20	70	30	30	500	300	N	50	<200	300	--
628	150	50	100	N	20	50	50	30	500	200	N	50	N	500	--
629	150	100	50	N	20	50	50	20	300	200	N	50	<200	100	--
630	150	70	50	N	20	50	50	20	500	500	N	50	<200	200	--

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
586	90	N	.10	<5
587	110	N	.10	15
588	80	N	.10	<5
589	90	N	.30	20
590	120	N	.30	15
591	125	N	.20	15
592	120	N	.20	15
593	95	N	.10	5
594	90	N	.10	10
595	120	N	.20	<5
596	75	N	.10	10
597	90	N	.10	20
598	100	N	.10	5
599	110	N	.20	10
600	80	N	.10	10
601	45	N	.10	5
602	55	N	.20	5
603	85	N	.10	5
604	65	N	.10	5
605	70	N	.10	<5
606	75	N	.10	5
607	30	N	<.05	5
608	115	N	.20	20
609	80	N	.20	10
610	80	N	.10	10
611	30	N	.10	10
612	40	N	.10	5
613	90	N	.10	5
614	25	N	<.05	5
615	75	N	<.05	10
616	25	N	<.05	5
617	25	N	<.05	5
618	30	N	<.05	5
619	5	N	<.05	5
620	10	N	<.05	10
621	5	N	<.05	5
622	10	N	<.05	10
623	5	N	.10	5
624	65	N	.10	10
625	65	N	<.05	15
626	60	N	<.05	10
627	85	N	.10	10
628	50	N	<.05	5
629	85	N	.10	10
630	75	N	<.05	5

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	R-ppm S	Ba-ppm S	Re-ppm S	Co-ppm S
631	60 52 30	145 50 0	5.0	2.00	.70	.50	2,000	N	N	50	700	2.0	30
632	60 54 25	145 52 6	5.0	1.50	1.00	.50	1,000	N	N	50	1,000	2.0	30
633	60 44 17	145 51 50	7.0	1.50	1.00	.50	1,000	N	N	50	1,000	2.0	50
634	60 42 46	145 54 33	7.0	2.00	2.00	.50	1,500	N	N	50	1,000	2.0	50
635	60 42 39	145 58 46	5.0	1.50	1.50	.50	1,000	N	N	30	1,000	2.0	30
636	60 41 12	146 7 2	2.0	.20	.20	.10	500	N	N	70	300	7.0	<5
637	60 41 34	144 17 2	5.0	1.00	2.00	.70	1,500	N	N	50	500	2.0	20
638	60 39 40	144 16 14	5.0	1.50	2.00	.50	1,000	N	N	20	700	2.0	20
639	60 39 23	144 9 54	3.0	1.00	1.50	.20	700	N	N	20	700	2.0	15
640	60 39 2	144 7 38	5.0	1.50	2.00	.50	1,500	N	N	50	1,000	2.0	20
641	60 38 47	144 3 2	5.0	1.50	1.50	.50	700	N	N	50	1,000	2.0	20
642	60 37 15	144 33 38	5.0	1.50	1.00	.50	1,000	N	N	100	1,000	2.0	50
643	60 37 12	144 25 55	2.0	.50	3.00	.10	500	N	N	100	1,000	2.0	10
644	60 37 40	144 22 59	7.0	2.00	3.00	.50	1,000	N	N	50	1,000	2.0	30
645	60 38 51	144 20 18	5.0	1.50	2.00	.50	1,000	N	N	20	1,000	2.0	20
646	59 55 44	144 24 56	7.0	2.00	1.00	.50	1,500	N	N	100	1,000	2.0	50
647	59 57 48	144 17 23	7.0	2.00	.70	.50	1,000	N	N	150	2,000	2.0	50
648	60 42 58	145 29 22	10.0	5.00	5.00	.50	2,000	N	N	50	1,000	2.0	70
649	60 46 27	145 41 15	10.0	2.00	1.00	.50	2,000	N	N	100	1,000	2.0	50
650	60 48 23	145 41 41	7.0	1.50	.50	.50	1,000	N	N	100	1,000	2.0	20
651	60 45 51	145 45 50	7.0	2.00	2.00	.50	1,000	N	N	70	1,500	2.0	30
652	60 52 21	145 47 11	10.0	2.00	.70	1.00	>5,000	N	N	100	1,000	2.0	30
653	60 51 44	145 51 59	7.0	1.50	2.00	.50	1,000	N	N	20	1,000	2.0	50
654	60 54 51	145 52 52	10.0	3.00	2.00	.50	2,000	N	N	50	1,000	2.0	70
655	60 44 22	145 51 59	10.0	2.00	3.00	1.00	3,000	N	N	50	1,500	2.0	50
656	60 42 38	145 50 56	5.0	1.50	1.00	.50	2,000	N	N	50	1,000	2.0	50
657	60 42 36	145 50 39	7.0	2.00	1.00	.50	1,500	N	N	100	1,000	2.0	50
658	60 43 57	145 54 27	5.0	1.00	2.00	.50	1,500	N	N	20	1,000	3.0	30
659	60 43 25	145 56 15	7.0	2.00	2.00	.50	1,500	N	N	50	1,500	2.0	50
660	60 41 21	146 6 46	3.0	.50	.50	.30	1,000	N	N	50	1,000	3.0	10
661	60 53 12	145 54 27	2.0	1.00	1.00	.20	1,000	N	N	10	300	1.0	20
662	60 53 12	145 55 56	3.0	1.50	1.00	.20	1,500	N	N	15	300	1.0	30
663	60 53 14	145 56 2	2.0	1.00	1.00	.20	1,000	N	N	15	300	1.0	20
664	60 54 12	145 58 3	1.5	.50	.50	.20	500	N	N	15	500	1.0	10
665	60 54 13	145 57 54	2.0	.70	.70	.20	700	N	N	20	500	1.0	15
666	60 53 9	145 59 47	2.0	.70	.70	.20	700	N	N	30	500	1.0	15
667	60 51 23	145 53 48	2.0	1.00	.70	.20	1,000	N	N	15	700	1.5	20
668	60 51 27	145 53 41	2.0	.70	.50	.20	2,000	N	N	20	700	1.5	20
669	60 52 13	145 57 47	2.0	1.00	.50	.20	1,000	N	N	15	500	1.0	20
670	60 51 28	146 0 2	2.0	1.00	.70	.20	1,000	N	N	15	700	1.5	30
671	60 48 52	146 3 7	3.0	1.00	.30	.20	1,500	N	N	50	700	1.0	30
672	60 48 53	146 5 35	2.0	1.00	.50	.20	1,000	N	N	30	700	1.0	15
673	60 55 27	146 12 0	3.0	1.50	1.00	.20	1,000	N	N	30	300	1.0	30
674	60 55 18	146 6 3	2.0	.70	.50	.20	1,000	N	N	20	300	1.0	15
675	60 57 26	146 12 14	2.0	.70	.50	.20	500	N	N	20	500	1.0	10

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sc-ppm	Sr-ppm	Y-ppm	Zn-ppm	Zr-ppm	Au-ppm
	S	S	S	S	S	S	S	S	S	S	S	S	aa
631	150	100	50	N	20	50	50	20	200	200	<200	200	--
632	150	70	50	N	20	50	50	30	500	200	<200	200	--
633	150	70	50	N	20	50	50	30	200	200	<200	300	--
634	150	70	50	N	20	50	50	30	300	150	<200	200	--
635	100	50	50	N	20	50	50	20	200	150	<200	300	--
636	<10	10	100	N	20	10	100	10	<100	30	<200	150	--
637	50	50	50	N	20	20	50	20	500	100	<200	500	--
638	100	30	50	N	20	50	20	20	500	150	<200	300	--
639	70	30	50	N	20	30	30	10	500	100	<200	100	--
640	150	50	50	N	20	50	50	20	500	200	<200	200	--
641	150	50	50	N	20	50	50	20	500	200	<200	200	--
642	150	100	50	N	20	70	50	20	500	200	<200	200	--
643	30	30	50	N	<20	20	20	10	200	50	N	200	--
644	100	100	70	N	<20	50	50	20	700	200	<200	300	--
645	100	30	50	N	<20	50	50	20	700	200	<200	200	--
646	150	100	50	N	<20	70	50	20	500	300	<200	200	--
647	150	150	50	5	<20	100	50	20	500	200	<200	200	--
648	200	100	70	N	20	100	50	50	500	300	<200	300	--
649	150	100	50	N	20	70	50	20	500	300	<200	150	--
650	100	100	50	N	<20	50	50	20	200	300	<200	150	--
651	100	70	100	N	20	50	50	30	300	200	<200	300	--
652	100	100	50	N	20	50	50	30	300	200	<200	300	--
653	100	50	100	N	20	50	30	30	500	200	<200	300	--
654	150	150	50	N	20	100	70	30	500	300	<200	100	--
655	100	100	200	N	20	20	70	30	300	200	<200	1,000	--
656	100	50	50	N	<20	50	50	20	300	200	200	200	--
657	150	70	70	N	20	70	70	20	500	300	200	200	--
658	100	50	70	N	20	20	50	20	300	200	<200	500	--
659	100	100	70	N	20	50	100	30	300	200	<200	300	--
660	20	15	200	5	<20	15	100	15	100	70	<200	300	--
661	70	30	N	N	N	50	10	20	150	100	N	70	--
662	100	70	N	N	N	50	15	20	200	150	N	100	N
663	50	50	20	N	N	30	15	15	200	100	N	70	N
664	30	20	20	N	N	20	10	10	300	100	N	100	N
665	50	30	20	N	N	20	15	15	300	100	N	70	N
666	50	50	20	N	N	20	15	15	200	100	N	100	N
667	50	30	<20	N	N	30	15	20	200	100	N	70	--
668	50	20	<20	N	N	20	10	20	200	100	N	70	--
669	50	30	<20	N	N	20	10	15	200	100	N	70	--
670	50	50	20	N	N	30	20	20	300	100	N	100	--
671	50	50	<20	N	N	30	20	20	200	150	<200	70	--
672	30	20	N	N	N	20	10	15	300	100	N	70	--
673	70	70	N	N	N	50	<10	30	200	150	N	50	--
674	70	30	20	N	N	30	10	15	300	100	N	100	--
675	30	15	20	N	N	20	10	15	200	100	N	70	--

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
631	100	N	<.05	5
632	100	N	.20	5
633	110	N	.20	15
634	85	N	.10	10
635	75	N	.10	5
636	25	N	<.05	10
637	25	N	<.05	<5
638	65	N	<.05	5
639	55	N	<.05	<5
640	65	N	.10	<5
641	70	N	.10	<5
642	95	N	.20	10
643	10	N	.20	<5
644	55	N	.10	5
645	75	N	<.05	<5
646	115	N	.30	10
647	155	N	.40	<5
648	75	N	.20	5
649	90	N	.10	5
650	90	N	.10	15
651	70	N	.10	5
652	85	N	<.05	5
653	85	N	.10	5
654	125	N	.40	15
655	60	N	.20	10
656	120	N	.30	10
657	120	N	.20	10
658	95	N	.20	50
659	80	N	.20	15
660	35	N	.10	90
661	75	N	.10	5
662	85	N	<.05	5
663	85	N	.20	15
664	65	N	.10	10
665	70	N	.20	10
666	80	N	<.05	55
667	90	N	.10	5
668	85	N	.10	10
669	85	N	.20	10
670	110	N	.20	30
671	160	N	.50	25
672	85	N	.20	15
673	75	N	.10	25
674	65	N	.10	15
675	60	N	N	10

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-ppt. S	Mg-ppt. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	B-ppm S	Ba-ppm S	Be-ppm S	Co-ppm S
676	60 56 6	146 9 2	2.0	1.00	.50	.20	1,000	N	N	20	700	1.0	20
677	60 53 47	146 4 23	1.5	.50	.70	.20	500	N	N	20	500	1.0	10
678	60 39 52	146 5 49	5.0	1.00	.50	.20	2,000	N	N	50	500	1.0	50
679	60 39 30	146 8 49	3.0	2.00	1.00	.15	1,500	N	N	30	200	1.0	30
680	60 38 47	146 10 33	2.0	.50	.50	.15	5,000	N	N	20	200	1.0	30
681	60 37 34	145 58 22	2.0	.70	.50	.20	2,000	N	N	30	500	1.0	30
682	60 38 39	145 55 47	3.0	1.00	.50	.20	1,500	N	N	50	500	1.0	20
683	60 40 35	145 51 5	2.0	.70	.30	.20	1,500	N	N	30	300	1.5	20
684	60 39 6	146 5 28	2.0	.70	.50	.20	1,000	N	N	20	300	1.5	20
685	60 40 43	146 0 15	3.0	1.00	.70	.50	1,000	N	N	20	300	1.5	30
686	60 39 7	145 52 28	2.0	.30	.20	.10	2,000	N	N	50	200	2.0	20
687	60 39 18	146 15 11	1.0	.50	.50	.07	1,000	N	N	15	200	1.5	15
688	60 41 17	145 55 26	3.0	.70	.20	.20	3,000	N	N	50	300	1.5	50
689	60 41 49	146 9 16	1.0	.20	.30	.10	500	N	200	30	200	5.0	10
690	60 42 37	146 5 4	1.0	.20	.50	.15	300	N	N	20	300	2.0	5
691	60 42 33	146 4 6	1.0	.20	.30	.15	300	N	N	20	500	1.5	10
692	60 44 9	146 3 5	2.0	1.00	.50	.20	500	N	N	30	700	1.5	20
693	60 44 38	145 59 3	5.0	1.50	.70	.50	700	N	N	20	700	2.0	30
694	60 45 24	146 2 11	3.0	1.00	.50	.20	1,000	<.5	N	50	700	2.0	20
695	60 48 2	146 1 52	2.0	1.00	.50	.20	1,000	N	N	30	500	2.0	20
696	60 45 37	146 5 28	3.0	1.00	.50	.30	1,000	N	N	50	700	2.0	20
697	60 44 44	146 8 6	1.5	.50	.50	.15	1,500	N	N	30	500	2.0	20
698	60 43 53	146 13 40	3.0	.70	.70	.20	1,000	N	N	50	700	2.0	30
699	60 43 2	146 14 33	2.0	.70	.50	.20	1,000	<.5	N	30	500	1.5	20
700	60 45 44	146 17 30	2.0	1.00	.70	.20	1,000	N	N	30	700	2.0	20
701	60 46 46	146 16 5	2.0	1.00	.50	.20	700	N	N	20	700	2.0	20
702	60 46 4	146 18 50	1.5	.50	.30	.10	2,000	N	N	10	200	1.0	30
703	60 45 28	146 19 41	3.0	1.50	.10	.20	1,000	N	N	15	500	1.0	30
704	60 43 34	146 41 6	2.0	.50	.30	.15	5,000	N	N	50	500	1.5	30
705	60 41 28	146 39 2	2.0	.50	.30	.15	5,000	N	N	30	300	1.0	50
706	60 42 48	146 30 52	2.0	.30	.20	.15	1,500	N	N	30	200	1.0	20
707	60 41 46	146 29 23	2.0	.50	.20	.10	1,000	N	N	20	200	1.0	30
708	60 46 42	145 54 42	2.0	1.00	.70	.20	1,000	N	N	30	700	1.0	15
709	60 47 17	145 54 17	2.0	1.00	.70	.20	1,000	N	N	50	700	1.5	20
710	60 51 32	146 31 41	5.0	1.50	1.00	.20	2,000	N	N	20	300	1.0	30
711	60 51 1	146 31 7	2.0	.70	1.00	.15	1,000	N	N	20	300	1.5	15
712	60 50 47	146 31 57	2.0	.70	.70	.15	1,000	N	N	20	200	1.5	20
713	60 42 59	146 37 21	3.0	.70	.30	.20	5,000	N	N	30	500	1.5	50
714	60 43 38	146 33 25	2.0	.30	.20	.20	1,500	N	N	30	300	1.0	20
715	60 43 52	146 31 12	3.0	.70	.20	.20	2,000	10.0	N	30	500	1.0	20
716	60 44 13	146 29 24	2.0	.50	.30	.15	5,000	N	N	20	300	1.0	30
717	60 46 14	146 27 55	3.0	1.00	.50	.20	5,000	N	N	30	500	1.5	50
718	60 47 8	146 21 15	3.0	1.00	.50	.15	2,000	N	N	20	500	1.5	50
719	60 47 31	146 19 13	2.0	1.00	.70	.15	1,000	N	N	15	300	1.5	50
720	60 48 36	146 15 25	3.0	1.50	.70	.20	1,500	N	N	30	700	2.0	30

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sc-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Au-ppm aa
676	50	30	<20	N	N	30	10	20	200	100	N	20	<200	70	--
677	30	10	30	N	N	15	<10	10	200	70	N	15	<200	100	--
678	50	50	30	N	N	30	15	20	200	150	N	20	<200	70	--
679	300	50	N	N	N	70	10	20	100	100	N	20	N	50	--
680	30	20	<20	N	N	30	15	15	100	100	N	30	N	70	--
681	30	20	<20	N	N	20	20	15	150	100	N	20	N	100	--
682	50	30	N	N	N	30	15	15	200	100	N	20	N	70	--
683	30	20	N	N	N	20	10	15	200	100	N	15	N	100	--
684	50	20	<20	N	N	50	10	15	100	100	N	20	N	70	--
685	30	70	50	N	N	50	15	20	150	150	N	30	N	200	--
686	20	10	N	N	N	15	10	10	150	100	<50	15	N	50	--
687	30	20	N	N	N	10	10	10	100	70	N	10	N	30	--
688	30	20	N	N	N	20	15	15	200	150	N	20	N	70	--
689	20	7	<20	N	N	10	10	7	100	70	N	70	N	100	--
690	10	5	150	N	N	5	20	7	100	50	N	50	N	100	--
691	15	10	150	N	N	7	20	10	100	50	N	50	N	200	--
692	30	20	N	N	N	30	15	10	150	100	N	20	N	100	--
693	50	30	20	N	N	50	50	20	150	150	N	50	N	150	--
694	50	30	<20	N	N	50	20	15	300	150	N	20	N	100	--
695	30	50	N	N	N	50	20	15	200	100	N	20	N	70	--
696	50	30	N	N	N	50	20	15	200	100	N	30	N	100	--
697	30	20	N	N	N	20	15	10	200	100	N	30	N	70	--
698	30	20	30	N	N	30	15	10	300	100	N	20	N	70	--
699	30	100	20	N	N	20	30	10	200	100	N	20	<200	70	--
700	30	20	50	N	N	20	20	15	300	100	N	20	<200	70	--
701	50	20	<20	N	N	30	20	15	300	100	N	20	<200	70	--
702	20	15	N	N	N	15	<10	10	150	70	N	10	N	50	--
703	50	50	N	N	N	50	20	20	200	150	N	15	N	70	--
704	30	20	N	N	N	20	20	15	200	100	N	20	N	50	--
705	20	20	N	N	N	20	10	10	150	100	N	15	N	50	--
706	20	5	N	N	N	10	10	10	100	100	N	15	N	50	--
707	30	10	N	N	N	10	<10	7	100	100	N	15	N	30	--
708	30	15	50	N	N	20	15	15	200	100	N	20	N	100	--
709	50	30	N	<5	N	30	15	15	200	100	N	20	<200	100	--
710	70	500	N	N	N	50	20	20	200	150	N	20	200	50	--
711	30	20	N	N	N	20	<10	15	200	100	N	20	N	50	--
712	30	50	N	N	N	20	<10	15	150	100	N	20	N	50	--
713	30	50	N	N	N	20	20	15	200	150	N	20	N	70	--
714	30	20	N	N	N	10	<10	10	100	100	N	20	N	50	--
715	30	30	N	<5	N	20	15	10	200	100	N	15	N	100	--
716	20	20	N	N	N	15	20	10	100	100	N	20	N	50	--
717	30	30	N	N	N	30	20	10	200	150	N	20	<200	100	--
718	100	100	N	N	N	50	20	15	150	150	N	20	N	50	--
719	70	70	N	N	N	30	15	20	150	150	N	20	N	50	--
720	50	50	30	N	N	30	20	20	200	150	N	20	<200	70	--

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
676	100	N	.10	20
677	50	N	.10	15
678	150	N	.30	10
679	90	N	.20	30
680	120	<1	.70	10
681	90	N	.20	5
682	115	N	<.05	5
683	--	N	.10	10
684	100	N	.20	5
685	75	N	.10	30
686	140	N	.30	30
687	60	N	.10	<5
688	95	N	.10	20
689	70	N	.30	190
690	30	N	.10	10
691	60	N	.20	35
692	100	N	.10	15
693	120	N	.10	75
694	100	N	.30	25
695	150	N	.50	50
696	110	N	.30	15
697	150	2	.40	30
698	120	N	.20	15
699	110	N	.30	10
700	110	N	.20	20
701	130	N	.10	25
702	190	N	1.00	40
703	90	N	.20	10
704	190	N	.70	10
705	140	N	.50	40
706	75	N	.10	50
707	120	N	.30	20
708	65	N	.10	15
709	140	N	.20	30
710	200	N	.30	<5
711	70	N	N	5
712	210	N	.60	15
713	120	N	.50	45
714	65	N	.10	5
715	70	N	.10	20
716	120	N	.40	60
717	110	N	.20	15
718	190	N	1.00	25
719	170	N	.70	10
720	160	N	.30	10

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-ppt. S	Mg-ppt. S	Ca-ppt. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	B-ppm S	Ba-ppm S	Be-ppm S	Co-ppm S
721	60 50 48	146 11 42	1.0	.50	.50	.20	1,000	N	N	20	300	1.0	10
722	60 53 42	146 17 28	3.0	1.00	.70	.30	1,000	N	N	20	500	1.5	20
723	60 54 32	146 15 19	3.0	1.00	.20	.20	1,000	N	N	50	700	1.0	20
724	60 53 30	146 15 25	3.0	1.00	.70	.20	700	N	N	15	700	1.0	20
725	60 53 34	146 13 58	2.0	1.00	.50	.20	700	N	N	30	700	1.5	15
726	60 51 18	146 16 18	2.0	1.00	.50	.20	1,000	N	N	30	700	1.0	20
727	60 52 6	146 10 25	2.0	1.00	.50	.20	1,000	N	N	20	500	1.0	15
728	60 50 0	146 18 41	2.0	1.00	.70	.20	1,000	N	N	30	700	1.5	20
729	60 54 47	146 24 18	2.0	1.00	.50	.20	700	N	N	30	700	1.5	10
730	60 50 16	146 24 25	2.0	1.00	.20	.20	1,000	N	<200	50	500	1.5	20
731	60 53 59	146 25 59	3.0	1.00	.50	.20	2,000	N	N	50	500	1.5	20
732	60 48 54	146 29 41	2.0	1.00	.50	.20	2,000	N	N	30	500	1.5	15
733	60 49 57	146 33 12	3.0	1.00	.30	.20	5,000	N	N	70	700	1.5	50
734	60 53 42	146 26 5	3.0	1.50	.50	.20	<.5	N	N	20	700	2.0	30
735	60 53 1	146 21 24	2.0	1.00	.50	.20	1,000	N	N	20	700	1.5	20
736	60 56 26	146 18 5	2.0	1.00	.50	.20	700	N	N	30	700	2.0	10
737	60 54 44	146 19 6	2.0	1.00	.50	.20	700	N	N	20	700	1.5	15
738	60 56 28	145 55 25	2.0	1.00	.50	.20	700	N	<200	20	500	2.0	10
739	60 57 19	146 4 57	3.0	1.00	.50	.20	1,000	N	200	20	700	1.5	15
740	60 57 17	146 4 38	2.0	1.00	.30	.20	1,000	N	N	20	700	1.0	10
741	60 58 2	146 4 22	3.0	1.00	.70	.20	1,000	N	N	20	700	1.5	20
742	60 56 43	146 12 52	3.0	1.00	.70	.20	1,000	N	N	30	700	1.5	10
743	60 56 39	146 55 57	1.5	.70	.20	.15	1,000	N	N	30	200	1.5	15
744	60 57 2	145 8 29	3.0	1.50	1.00	.30	300	N	N	20	500	1.0	20
745	60 57 2	145 8 47	3.0	1.50	1.00	.30	500	N	N	20	700	1.0	20
746	60 57 2	145 8 18	2.0	1.00	.70	.30	500	N	N	50	700	1.5	15
747	60 54 10	145 7 22	3.0	2.00	.70	.30	500	<.5	N	15	500	<1.0	20
748	60 54 31	145 8 20	2.0	1.50	.70	.20	500	N	N	15	500	1.0	20
749	60 54 59	145 5 37	3.0	1.50	.70	.30	500	N	N	20	700	<1.0	20
750	60 55 14	145 5 32	3.0	1.50	1.50	.30	500	N	N	20	300	<1.0	20
751	60 53 48	145 6 25	3.0	1.00	1.00	.30	500	<.5	N	50	1,000	1.0	30
752	60 51 35	145 12 42	3.0	1.00	.70	.30	500	N	N	50	700	<1.0	15
753	60 51 35	145 12 57	3.0	1.50	2.00	.20	500	N	N	20	300	<1.0	20
754	60 58 47	145 20 26	3.0	2.00	1.00	.30	700	<.5	N	20	500	<1.0	30
755	60 55 54	145 27 10	3.0	3.00	5.00	.20	500	N	N	10	N	N	50
756	60 57 15	145 16 51	2.0	1.50	1.00	.30	700	N	N	50	700	1.0	30
757	60 56 45	145 16 50	2.0	1.00	.70	.30	500	N	N	20	500	1.0	20
758	60 56 26	145 16 52	3.0	1.00	.70	.50	700	N	N	20	700	1.0	30
759	60 55 54	145 16 36	2.0	1.00	1.50	.30	500	N	N	10	300	1.0	20
760	60 54 46	145 16 17	3.0	1.00	1.00	.50	500	N	N	15	50	1.0	50
761	60 54 23	145 17 36	3.0	1.50	5.00	.30	700	N	N	N	<20	N	20
762	60 55 10	145 18 9	5.0	2.00	5.00	.20	700	N	N	N	N	N	50
763	60 56 41	145 18 37	5.0	2.00	2.00	.20	700	N	N	<10	150	<1.0	20
764	60 56 7	145 18 33	3.0	2.00	5.00	.20	500	N	N	20	100	1.0	30
765	60 59 52	145 21 39	2.0	1.00	1.00	.50	500	N	N	20	500	1.0	15

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEPIENT SUPPLIES, COLUMBIA AND WINDYBUSH ISLAND QUADRANGLES, ALASKA.---Continued

Sample	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Mi-ppm S	Pb-ppm S	Sc-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Au-ppm aa
721	20	20	N	N	N	20	<10	15	150	100	N	20	N	N	70
722	70	20	30	N	N	30	15	15	300	100	N	20	N	100	---
723	50	30	N	N	N	30	15	15	150	100	N	20	N	100	---
724	50	30	30	N	N	30	20	20	300	150	N	20	N	100	---
725	50	20	20	N	N	20	10	20	300	100	<50	20	N	100	---
726	30	30	<20	N	N	20	15	20	200	100	N	20	<200	100	---
727	500	15	<20	N	N	50	10	15	300	100	N	20	N	100	---
728	30	30	30	N	N	20	20	15	300	100	N	20	N	100	---
729	50	20	30	N	N	20	15	15	300	100	N	20	N	100	.50
730	30	20	20	N	N	20	15	15	200	100	N	20	N	100	---
731	50	50	<20	N	N	30	15	20	200	100	N	30	<200	100	---
732	30	50	<20	N	N	20	20	15	300	100	N	20	<200	100	---
733	50	50	N	N	N	50	20	20	200	100	N	20	<200	100	N
734	50	50	30	N	N	30	20	20	300	150	N	20	<200	70	N
735	50	50	20	N	N	30	15	15	300	100	N	20	<200	100	---
736	30	30	20	N	N	20	15	15	300	100	N	20	N	100	---
737	50	30	20	N	N	20	20	15	300	100	N	20	N	100	N
738	30	30	50	N	N	30	10	15	300	100	N	20	N	100	1.50
739	50	50	50	N	N	30	10	15	300	100	N	20	N	100	<.05
740	30	20	N	N	N	20	<10	10	300	100	N	20	N	100	N
741	70	70	30	N	N	30	20	15	300	100	N	20	N	100	---
742	50	30	30	N	N	20	10	15	500	100	N	30	N	100	---
743	20	50	N	N	N	20	<10	15	<100	100	N	20	N	50	---
744	70	20	30	N	N	20	50	15	200	100	N	20	N	150	---
745	100	30	50	N	N	30	30	15	200	100	N	20	N	70	---
746	100	30	50	N	N	30	30	10	200	100	N	20	N	100	---
747	100	50	30	N	N	30	50	15	200	100	N	20	N	70	---
748	50	30	30	N	N	30	20	10	200	70	N	20	N	50	---
749	150	30	50	N	N	30	30	15	200	100	N	20	N	100	---
750	100	30	30	N	N	30	20	15	200	100	N	20	N	100	---
751	70	70	50	N	N	50	70	10	200	100	N	20	N	70	---
752	100	30	30	N	N	30	30	10	200	100	N	20	N	100	---
753	150	30	N	N	N	30	15	20	200	100	N	30	N	50	---
754	150	70	20	N	N	30	50	20	200	100	N	30	<200	50	---
755	200	100	N	N	N	50	N	30	100	100	N	30	N	15	---
756	70	70	<20	N	N	30	50	15	200	100	N	30	N	50	---
757	70	30	30	N	N	20	30	15	200	100	N	30	N	70	---
758	100	50	20	N	N	30	50	20	200	100	N	30	N	70	---
759	100	50	30	N	N	20	20	20	200	100	N	30	N	70	---
760	100	50	50	5	N	30	50	15	200	100	N	30	N	70	---
761	200	70	N	N	N	20	<10	50	100	200	N	50	N	50	---
762	70	150	N	N	N	30	N	50	<100	150	N	20	N	20	---
763	150	200	N	N	N	20	30	30	150	100	N	20	N	30	---
764	300	100	N	N	N	50	10	30	150	150	N	20	N	30	---
765	50	20	50	N	N	15	20	10	200	70	N	20	N	100	---

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
721	95	N	.40	50
722	95	N	.20	5
723	120	N	.50	45
724	130	N	.30	<5
725	85	N	.20	25
726	90	N	.20	5
727	60	N	.10	5
728	85	N	.10	5
729	70	N	.10	<5
730	95	N	.10	20
731	100	N	.20	30
732	120	N	.30	30
733	130	N	.50	25
734	120	N	.20	60
735	100	N	.30	20
736	55	N	.10	10
737	75	N	.10	10
738	55	N	.10	25
739	65	N	.10	45
740	65	N	.10	30
741	75	N	.10	15
742	60	N	.10	20
743	140	N	.30	15
744	55	N	.10	5
745	65	N	.10	10
746	65	N	.10	<5
747	80	N	.10	5
748	65	N	.20	5
749	65	N	.10	10
750	40	N	.10	5
751	110	N	.50	25
752	80	N	.10	10
753	60	N	.10	5
754	110	N	.20	15
755	20	N	.10	<5
756	110	N	.40	5
757	95	N	.30	5
758	120	N	.20	10
759	60	N	.30	5
760	80	N	.10	10
761	25	N	.20	N
762	30	N	.10	5
763	60	N	.10	N
764	25	N	<.05	5
765	40	N	<.05	<5

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Tl-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	B-ppm S	Ba-ppm S	Be-ppm S	Co-ppm S
766	60 57 28	145 25 46	3.0	1.00	.70	.30	300	N	N	20	500	1.0	20
767	60 58 47	145 25 27	2.0	1.00	.50	.30	500	<.5	N	30	500	1.0	20
768	60 58 11	145 27 14	2.0	1.00	.70	.30	500	N	N	20	500	1.0	20
769	60 57 59	145 27 9	3.0	1.50	.70	.30	500	<.5	N	30	500	1.0	30
770	60 56 24	145 28 54	3.0	2.00	2.00	.20	500	N	N	10	300	<1.0	30
771	60 56 32	145 29 1	5.0	1.50	.70	.20	500	N	N	10	1,000	<1.0	15
772	60 57 26	145 24 10	3.0	1.50	.70	.30	500	N	N	15	700	<1.0	20
773	60 57 14	145 24 43	3.0	1.50	3.00	.30	700	N	N	10	100	N	30
774	60 57 56	145 23 27	3.0	1.50	1.00	.30	1,000	N	N	20	1,000	<1.0	30
775	60 49 3	144 58 56	7.0	2.00	2.00	.50	2,000	N	N	20	1,500	1.5	30
776	60 49 33	145 1 11	7.0	5.00	7.00	.50	2,000	N	N	150	200	N	70
777	60 46 59	144 57 4	7.0	5.00	5.00	.50	2,000	N	N	10	300	N	100
778	60 51 33	144 51 1	5.0	1.50	1.50	.70	1,500	<.5	N	30	2,000	2.0	30
779	60 51 29	144 50 33	7.0	5.00	7.00	.50	2,000	N	N	<10	150	<1.0	70
780	60 55 36	145 43 47	7.0	2.00	1.50	.50	2,000	<.5	N	20	1,500	1.5	30
781	60 54 55	145 43 41	7.0	3.00	5.00	.70	3,000	<.5	N	<10	500	N	70
782	60 54 47	145 46 26	7.0	2.00	1.50	.70	2,000	N	N	20	1,500	1.5	50
783	60 49 33	146 2 51	7.0	1.00	1.50	.50	5,000	N	N	20	500	2.0	100
784	60 47 34	145 59 24	3.0	1.50	1.00	.50	1,500	<.5	N	50	1,500	2.0	30
785	60 48 38	145 59 43	5.0	2.00	1.50	.50	2,000	N	N	50	2,000	2.0	20
786	60 50 19	145 56 23	5.0	1.50	1.00	.70	5,000	N	N	50	1,000	1.5	20
787	60 45 51	145 53 36	3.0	1.50	2.00	.70	2,000	N	N	10	1,500	2.0	20
788	60 46 34	146 2 25	7.0	2.00	1.00	.70	2,000	<.5	N	50	2,000	2.0	50
789	60 46 50	146 4 7	5.0	2.00	1.00	.70	2,000	<.5	N	100	2,000	2.0	50
790	60 46 44	146 7 3	5.0	2.00	1.00	.70	2,000	<.5	N	100	2,000	2.0	30
791	60 48 10	146 9 27	3.0	2.00	1.50	.50	1,500	N	N	20	2,000	1.5	20
792	60 52 16	146 25 23	5.0	1.50	.50	.50	2,000	N	N	50	1,500	2.0	50
793	60 52 51	146 37 4	7.0	3.00	2.00	.50	2,000	N	N	50	300	1.5	100
794	60 52 14	146 36 58	7.0	3.00	3.00	.70	1,500	N	N	20	200	<1.0	50
795	60 54 56	146 37 57	5.0	3.00	1.50	.70	2,000	N	N	20	500	1.0	70
796	60 55 4	146 37 17	5.0	3.00	1.00	.50	2,000	<.5	N	30	1,000	1.5	50
797	60 54 4	146 34 41	5.0	3.00	3.00	.50	2,000	<.5	N	30	500	1.0	50
798	60 54 52	146 29 38	7.0	2.00	1.50	.70	2,000	.7	N	30	150	2.0	50
799	60 53 52	146 29 44	5.0	2.00	.70	.70	2,000	N	N	100	1,500	2.0	50
800	60 52 9	146 27 17	3.0	1.50	.20	.50	1,000	N	N	100	1,000	2.0	30
801	60 55 53	146 19 57	2.0	1.50	1.00	.50	1,000	N	N	15	1,500	2.0	20
802	60 56 19	145 58 4	2.0	1.00	1.00	.50	1,000	N	N	10	1,000	1.5	15
803	60 56 10	145 58 10	3.0	2.00	1.00	.50	1,000	N	N	20	1,500	1.5	20
804	60 56 13	145 57 36	5.0	2.00	1.00	.70	1,500	N	N	20	1,500	1.5	30
805	60 59 10	145 49 41	2.0	1.50	.30	.30	500	N	N	10	1,000	1.0	10
806	60 57 23	145 48 23	2.0	1.50	.20	.30	500	<.5	N	15	1,000	1.0	20
807	60 57 9	145 49 13	2.0	1.50	.20	.50	700	N	N	15	1,000	1.0	15
808	60 55 9	145 51 14	3.0	1.50	.70	.50	500	N	N	10	300	<1.0	15
809	60 56 22	145 55 29	2.0	1.00	.30	.50	500	N	N	15	700	1.0	10
810	60 56 39	145 57 48	3.0	1.50	.20	.50	500	N	<200	20	1,000	1.0	10

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sc-ppm S	Sr-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Au-ppm aa
766	70	20	50	N	N	20	30	15	200	100	N	N	100
767	100	30	30	N	N	20	50	15	200	100	N	N	100
768	70	20	20	N	N	20	20	15	300	100	N	N	150
769	100	30	20	N	N	30	50	15	300	100	N	N	100
770	200	30	N	N	N	50	20	20	200	100	N	N	50
771	100	50	N	N	N	20	10	15	200	100	N	N	50
772	100	50	20	N	N	30	30	15	200	100	N	N	70
773	150	70	<20	N	N	50	10	20	150	150	N	N	50
774	150	100	20	N	N	50	50	15	150	100	N	N	70
775	150	20	70	N	N	50	20	30	500	200	N	N	200
776	500	100	N	N	N	100	10	70	300	500	N	N	100
777	700	100	N	N	N	100	10	70	200	500	N	N	70
778	100	20	50	N	N	50	20	30	500	200	N	N	200
779	500	50	N	N	N	100	10	70	200	500	N	N	50
780	100	30	20	N	N	30	20	30	500	200	N	N	100
781	500	150	N	N	N	100	10	50	300	300	N	N	100
782	150	30	<20	N	N	50	30	50	500	200	N	N	150
783	50	15	N	N	N	30	30	20	300	200	N	N	200
784	70	20	<20	N	N	30	30	30	700	200	N	N	150
785	70	20	30	N	N	30	20	30	700	200	N	N	150
786	50	20	50	N	N	20	20	30	500	150	N	N	500
787	30	7	100	N	N	10	20	20	300	100	N	N	700
788	200	30	20	N	N	70	50	30	300	300	N	N	150
789	200	30	<20	N	N	50	30	30	500	200	N	N	150
790	100	30	50	N	N	50	30	30	300	200	N	N	150
791	100	15	30	N	N	20	30	30	1,000	200	N	N	150
792	150	20	<20	N	N	50	30	30	500	200	N	N	150
793	300	50	N	N	N	70	20	50	300	300	N	N	150
794	500	30	N	N	N	100	15	70	200	300	N	N	70
795	300	50	N	N	N	70	20	50	200	300	N	N	100
796	150	70	50	N	N	50	50	50	200	200	N	N	100
797	200	70	N	N	N	50	30	50	300	200	N	N	100
798	200	30	30	N	N	50	30	50	500	300	N	N	200
799	150	30	20	N	N	50	50	30	500	200	N	N	150
800	100	20	30	N	N	50	30	20	300	200	N	N	100
801	70	15	<20	N	N	20	20	30	500	150	N	N	150
802	50	10	50	N	N	15	20	20	700	150	N	N	150
803	70	20	N	N	N	30	20	30	700	200	N	N	150
804	100	20	20	N	N	30	20	30	700	200	N	N	100
805	100	50	50	7	<20	20	20	15	300	100	N	N	100
806	100	70	30	5	<20	20	50	20	200	100	N	N	100
807	70	70	30	5	<20	20	30	15	200	100	N	N	100
808	150	50	30	10	<20	20	20	20	200	150	N	N	100
809	50	50	100	<5	<20	10	20	15	300	100	N	N	150
810	70	70	30	N	<20	10	20	20	200	150	N	N	100

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
766	75	N	.40	5
767	100	N	.20	10
768	75	N	.10	5
769	80	N	.20	5
770	50	N	.20	10
771	90	N	.20	5
772	75	N	.10	5
773	45	N	.10	5
774	120	N	.20	15
775	50	N	N	N
776	25	N	N	N
777	50	N	N	N
778	45	N	.10	10
779	25	N	N	N
780	50	N	N	20
781	180	N	.40	10
782	80	N	N	10
783	110	N	.10	10
784	70	N	.10	10
785	70	N	.10	10
786	40	N	<.10	N
787	30	N	N	N
788	130	N	.20	20
789	110	2	.20	30
790	100	N	.10	30
791	120	N	.10	40
792	85	N	.10	30
793	230	N	.30	10
794	60	N	.10	N
795	250	N	.40	10
796	230	N	.30	<5
797	250	N	.40	N
798	150	N	.10	50
799	50	N	.10	10
800.	95	2	.10	30
801	45	N	.10	10
802	45	N	.20	30
803	65	N	.20	20
804	65	N	.10	20
805	15	N	.15	25
806	120	N	.20	25
807	110	N	.15	10
808	55	N	.15	<5
809	65	N	.15	160
810	80	N	.10	150

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	B-ppm S	Ba-ppm S	Re-ppm S	Co-ppm S
811	60 56 4	145 56 56	2.0	1.00	.20	.50	500	N	N	10	1,000	1.0	7
812	60 56 26	145 46 13	3.0	2.00	.50	.50	1,000	N	N	<10	500	N	50
813	60 56 41	145 40 50	3.0	1.00	.20	.50	1,000	N	N	30	1,000	1.0	20
814	60 57 0	145 39 53	3.0	1.00	.20	.50	700	<.5	N	20	1,000	1.0	15
815	60 58 17	145 41 51	2.0	1.00	.50	.30	700	N	N	20	1,000	1.0	10
816	60 55 36	144 57 25	5.0	2.00	1.00	.30	700	N	N	15	70	N	50
817	60 54 42	144 56 43	3.0	3.00	2.00	.30	1,000	N	N	10	<20	N	30
818	60 53 12	144 55 3	5.0	1.00	.50	.70	700	N	N	20	1,500	<1.0	20
819	60 51 50	144 49 13	2.0	1.00	.50	.50	700	N	N	10	1,000	<1.0	15
820	60 53 16	144 48 38	3.0	1.00	1.00	.50	1,000	N	N	20	700	1.0	20
821	60 53 27	144 48 50	3.0	1.50	.70	.30	700	N	N	10	700	<1.0	20
822	60 57 6	144 52 18	3.0	1.00	.30	.70	1,000	<.5	N	30	1,000	1.0	10
823	60 58 44	144 53 24	3.0	1.00	.30	.50	700	N	N	50	1,000	1.0	20
824	60 57 51	144 54 45	3.0	1.00	.20	.50	700	N	N	50	1,000	1.0	10
825	60 57 45	144 54 56	2.0	1.00	.20	.50	500	N	N	20	700	1.0	7
826	60 58 29	144 56 44	3.0	1.00	.50	.50	700	N	N	20	1,000	1.0	10
827	60 58 38	144 59 7	3.0	1.00	.20	.70	700	N	N	20	700	1.0	10
828	60 57 46	146 25 56	2.0	1.00	.50	.50	500	N	N	10	1,000	1.0	7
829	60 57 24	146 22 21	3.0	1.00	.50	.50	500	N	N	15	1,000	1.0	10
830	60 49 21	146 12 15	5.0	2.00	1.00	.50	3,000	N	N	200	1,500	2.0	50
831	60 49 48	145 0 19	5.0	1.50	2.00	.50	1,500	<.5	N	50	2,000	1.5	30
832	60 48 49	145 19 5	1.5	.70	.30	.30	300	N	N	50	500	1.5	20
833	60 37 22	144 13 59	1.5	1.00	1.00	.20	700	N	N	<10	700	2.0	15
834	60 37 7	144 9 47	2.0	1.50	1.00	.30	1,000	N	N	15	1,000	1.5	20
835	60 37 9	144 7 58	2.0	1.50	1.50	.30	1,000	<.5	N	<10	1,500	1.5	20
836	60 31 57	144 42 55	3.0	2.00	1.50	.50	1,000	N	N	10	1,000	1.5	20
837	60 33 16	144 43 1	2.0	1.50	1.00	.70	1,500	<.5	N	15	1,500	2.0	20
838	60 48 49	144 18 39	2.0	1.00	1.50	.30	1,500	N	N	20	700	1.5	20
839	60 51 10	144 23 54	2.0	1.00	1.50	.20	3,000	1.0	N	15	1,000	1.5	15
840	60 46 29	144 12 57	5.0	2.00	1.50	.70	1,000	<.5	N	10	1,000	<1.0	30
841	60 50 43	144 17 32	3.0	1.50	1.00	.50	1,000	N	N	10	1,000	1.5	30
842	60 46 9	144 15 1	2.0	1.50	.50	.30	500	N	N	20	1,500	1.0	20
843	60 51 50	144 30 21	2.0	2.00	2.00	.50	1,000	N	N	20	500	1.0	20
844	60 46 47	144 50 32	2.0	1.50	1.50	.70	1,500	N	N	70	1,500	1.5	20

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sc-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Au-ppm aa
811	50	50	20	N	<20	10	30	15	200	100	N	20	N	100	N
812	150	150	N	<5	N	70	15	30	150	200	N	20	<200	70	N
813	50	50	30	15	N	30	20	15	200	100	N	20	N	70	.02
814	70	50	20	7	N	15	50	15	200	100	N	10	<200	70	.02
815	50	30	50	7	<20	20	20	15	200	100	N	20	N	100	.12
816	100	150	N	7	N	70	10	30	<100	200	N	30	N	20	N
817	100	100	N	N	N	70	N	30	<100	200	N	30	N	15	N
818	100	50	30	10	<20	30	30	15	200	150	N	30	N	100	N
819	200	70	30	10	<20	20	20	15	200	100	N	20	N	150	N
820	200	70	30	7	N	20	15	20	200	150	N	20	N	150	.16
821	50	70	<20	<5	N	30	15	20	150	150	N	20	N	100	N
822	50	30	20	7	<20	10	20	10	200	10	N	20	N	200	.14
823	70	70	50	<5	<20	20	30	15	300	150	N	30	<200	150	N
824	70	50	50	5	<20	15	20	15	200	100	N	30	N	150	N
825	50	20	30	N	N	10	20	10	200	100	N	20	N	100	.05
826	50	20	50	5	N	15	20	15	300	100	N	30	N	150	N
827	70	50	70	7	<20	15	20	15	200	100	N	20	N	100	.08
828	30	20	50	5	N	10	20	10	200	70	N	20	N	150	N
829	50	20	50	5	<20	15	20	15	300	100	N	20	N	100	N
830	150	30	30	N	N	50	50	30	300	300	N	50	<200	150	--
831	100	30	50	N	N	50	30	30	700	150	N	50	N	150	--
832	50	15	30	N	N	70	20	15	200	150	N	50	N	150	--
833	50	7	<20	N	N	20	30	10	500	150	N	30	N	150	--
834	70	30	50	N	N	50	30	20	500	150	N	30	N	100	--
835	70	20	30	N	N	50	30	20	500	150	N	50	N	150	--
836	70	10	50	N	N	50	30	20	500	200	N	50	N	100	--
837	100	20	50	N	N	50	30	20	500	200	N	50	N	100	--
838	50	15	N	N	N	20	30	15	500	150	N	50	N	300	--
839	70	10	N	N	N	20	30	20	500	150	N	100	N	200	--
840	100	50	N	5	N	50	30	30	500	200	N	30	N	150	--
841	100	20	30	<5	N	50	30	20	500	200	N	30	N	200	--
842	50	20	20	N	N	20	30	15	300	150	N	20	N	150	--
843	100	20	30	N	N	50	20	30	500	200	N	70	N	200	--
844	100	30	50	N	N	50	30	30	500	200	N	50	N	200	--

TABLE 3. CHEMICAL DATA FOR STREAM SEDIMENT AND MORaine SEDIMENT SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Zn-ppm aa	Sb-ppm aa	Cd-ppm aa	As-ppm aa
811	75	N	.10	10
812	140	N	.60	40
813	100	N	.15	15
814	85	N	.20	15
815	75	N	.15	<5
816	40	N	.10	<5
817	25	N	.10	<5
818	90	N	.15	10
819	95	N	.15	10
820	50	N	.14	<5
821	60	N	.15	5
822	100	N	.15	10
823	100	N	.15	10
824	85	N	.15	5
825	70	N	.10	5
826	60	N	.10	<5
827	70	N	.10	25
828	75	N	.20	60
829	70	N	.15	10
830	140	N	.30	10
831	60	N	.10	10
832	210	N	.20	10
833	35	N	<.10	<10
834	95	N	.20	15
835	100	N	.10	10
836	90	N	.10	20
837	90	N	N	20
838	45	N	<.10	<10
839	20	N	<.10	<10
840	70	N	<.10	<10
841	80	N	.10	10
842	85	N	.10	<10
843	45	N	N	<10
844	65	N	.10	10

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.

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

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Tl-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ba-ppm S	Be-ppm S
001	60 19 4	146 34 12	7.0	.50	2.00	>1.000	500	N	N	N	20	5,000	N
002	60 17 58	146 36 58	10.0	.50	1.00	1.000	700	3.0	N	N	30	5,000	N
004	60 15 48	146 40 42	7.0	1.00	3.00	>1.000	N	N	N	N	30	1,500	N
005	60 15 40	146 33 43	5.0	.50	2.00	>1.000	700	N	N	N	30	700	N
006	60 17 45	146 29 2	10.0	.50	2.00	>1.000	700	N	N	N	30	700	N
008	60 43 52	145 43 50	3.0	.70	3.00	>1.000	700	N	N	N	30	200	N
009	60 44 0	145 43 59	3.0	1.00	3.00	1.000	700	N	N	N	30	700	N
010	60 43 36	145 46 0	3.0	2.00	5.00	.500	700	N	N	N	50	150	N
011	60 39 32	145 48 29	3.0	.70	5.00	.700	700	N	N	N	30	300	3
012	60 39 8	145 47 34	2.0	.50	2.00	1.000	500	N	N	N	30	200	N
013	60 41 32	145 43 42	2.0	.70	3.00	1.000	500	N	N	N	20	150	N
014	60 40 19	145 38 32	3.0	.50	3.00	1.000	700	N	N	N	20	200	N
015	60 40 10	145 35 0	3.0	1.00	5.00	.150	700	1.0	N	N	20	50	N
016	60 30 55	145 35 40	3.0	2.00	5.00	.150	700	N	N	N	20	50	N
017	60 33 25	145 50 38	5.0	1.00	3.00	.700	1,000	N	N	N	20	300	2
018	60 36 18	145 42 50	7.0	1.00	2.00	.500	700	1.0	N	N	20	500	N
019	59 50 25	144 31 38	2.0	.20	2.00	.500	500	N	N	N	70	>10,000	N
020	59 51 38	144 29 30	7.0	.20	2.00	.100	700	1.0	N	N	20	>10,000	N
021	59 54 4	144 25 15	5.0	.15	3.00	.100	500	N	N	N	20	>10,000	N
022	60 45 27	144 47 43	1.5	.70	5.00	1.000	3,000	10.0	N	N	70	1,000	1
023	59 54 48	144 23 45	7.0	.15	1.50	.200	500	N	N	N	70	>10,000	N
024	59 53 38	144 29 10	10.0	.20	5.00	.200	1,500	2.0	N	N	70	>10,000	2
025	59 56 10	144 25 22	10.0	.50	2.00	.500	2,000	N	N	N	300	>10,000	20
026	59 57 30	144 22 0	3.0	.30	7.00	.700	700	N	N	N	200	>10,000	N
027	59 58 15	144 19 40	3.0	.30	7.00	>1.000	700	N	N	N	200	>10,000	N
028	59 59 2	144 18 5	5.0	.70	5.00	.700	500	1.0	N	N	70	>10,000	N
029	59 59 30	144 17 10	2.0	.50	10.00	.700	500	2.0	N	N	100	10,000	N
032	60 12 55	144 16 55	5.0	--	2.00	.500	500	N	N	N	20	>10,000	N
035	60 13 18	144 23 50	10.0	.20	1.50	.500	1,000	N	N	N	70	>10,000	N
036	60 23 52	144 2 35	1.0	.50	7.00	>1.000	500	N	N	N	20	1,500	N
037	60 24 2	144 1 52	1.0	.15	7.00	>1.000	500	N	N	N	70	1,500	N
038	60 22 55	144 12 10	2.0	.20	7.00	>1.000	500	N	N	N	70	2,000	N
039	60 24 28	144 12 21	7.0	.20	5.00	>1.000	500	N	N	N	20	>10,000	N
040	60 23 38	144 16 42	3.0	.70	7.00	>1.000	1,000	N	N	N	<20	500	N
041	60 19 58	144 18 20	15.0	.50	3.00	1.000	700	N	N	N	100	3,000	N
042	60 18 58	144 20 18	2.0	.70	3.00	>1.000	500	N	N	N	70	1,500	N
044	60 17 30	144 25 40	2.0	.15	10.00	>1.000	5,000	N	N	N	150	>10,000	N
046	60 20 38	144 29 10	1.0	.20	2.00	1.000	200	N	N	N	20	1,000	N
048	60 20 5	144 31 48	5.0	1.50	15.00	>1.000	150	N	N	N	50	5,000	N
050	60 28 18	144 25 45	5.0	.70	10.00	.700	1,000	N	N	N	50	200	N
051	60 28 40	144 30 22	1.0	.20	7.00	.700	500	N	N	N	20	200	N
052	60 28 50	144 35 22	1.0	.50	10.00	.500	1,500	N	N	N	100	300	N
054	60 29 42	144 32 58	1.0	.50	10.00	.500	1,000	N	N	N	50	200	N
057	60 21 12	144 41 58	1.5	.50	20.00	.300	1,000	N	N	N	50	500	7
058	60 16 15	144 39 38	3.0	1.00	15.00	1.000	700	N	N	N	50	500	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sn-ppm	Sr-ppm
001	N	N	20	20	70	1,000	N	50	70	20	N	10	N	200
002	N	N	30	50	100	70	N	N	150	30	N	10	N	<200
004	N	N	15	70	30	150	N	N	100	20	N	10	N	200
005	N	N	20	70	300	100	N	50	70	30	N	15	N	200
006	N	N	30	70	150	150	N	50	150	50	N	15	N	N
008	N	N	10	70	50	150	N	N	10	<20	N	15	N	500
009	N	N	15	100	100	100	N	N	30	30	N	15	N	300
010	N	N	10	200	15	N	N	N	30	N	N	15	N	N
011	N	N	10	50	20	100	N	N	15	1,500	N	10	N	300
012	N	N	N	30	15	100	N	70	10	<20	N	10	N	N
013	N	N	N	70	50	70	N	N	10	<20	N	10	N	N
014	N	N	10	50	20	70	N	N	10	<20	N	15	N	200
015	N	N	15	100	70	N	N	N	70	N	N	10	N	N
016	N	N	15	200	100	N	N	N	70	N	N	10	N	N
017	N	N	20	70	20	50	N	N	50	N	N	15	N	200
018	N	N	20	70	300	N	N	N	50	200	N	10	300	N
019	N	150	10	N	50	N	10	N	10	100	N	10	N	500
020	N	100	20	50	150	N	10	N	100	50	N	<10	N	5,000
021	N	N	10	20	50	100	N	N	30	20	N	<10	30	10,000
022	N	N	20	50	15	100	N	N	N	70	N	20	N	N
023	N	N	10	50	150	N	20	N	70	20	N	<10	N	10,000
024	N	100	20	N	200	N	15	N	200	70	N	<10	N	10,000
025	N	700	10	20	300	N	N	N	50	30	N	30	N	3,000
026	N	N	10	100	50	N	N	N	30	70	N	20	N	5,000
027	N	N	10	500	30	N	N	100	150	100	N	10	N	1,000
028	N	N	10	300	50	N	N	50	50	100	N	15	N	2,000
029	N	N	10	30	30	70	N	50	10	1,000	N	15	30	1,000
032	N	N	20	1,000	30	50	N	N	70	30	N	20	N	10,000
035	N	N	30	300	500	N	15	N	150	150	N	15	100	2,000
036	N	N	10	150	50	700	N	70	10	<20	N	50	N	1,500
037	N	N	10	150	50	700	N	100	10	<20	N	50	N	1,500
038	N	N	10	50	50	700	N	100	10	<20	N	30	N	1,000
039	N	N	30	150	150	1,000	N	100	70	100	N	30	N	2,000
040	N	N	10	70	30	1,000	N	1,000	30	70	N	30	N	200
041	N	N	20	50	200	200	N	N	150	20	N	20	N	500
042	N	N	10	200	30	70	N	70	20	30	N	20	N	300
044	N	N	10	150	70	150	N	150	30	150	N	100	N	1,000
046	N	N	N	50	15	50	N	50	10	20	N	10	20	200
048	N	N	15	100	50	50	N	50	10	150	N	20	N	700
050	N	N	10	70	70	N	N	N	10	<20	N	15	100	500
051	N	N	10	70	10	50	N	50	10	<20	N	15	N	500
052	N	N	10	100	30	N	N	N	10	<20	N	20	N	300
054	N	N	N	70	10	50	N	N	10	N	N	20	N	200
057	N	N	N	20	15	N	N	N	10	70	N	10	N	200
058	N	N	10	150	50	N	N	N	20	200	N	20	N	700

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
001	100	N	150	N	>2,000	N
002	100	N	70	1,500	>2,000	N
004	150	N	150	N	>2,000	N
005	150	N	150	N	>2,000	N
006	100	N	150	N	>2,000	N
008	150	N	100	N	>2,000	N
009	200	N	50	N	500	N
010	150	N	20	N	500	N
011	150	N	50	N	700	N
012	150	N	50	N	>2,000	<200
013	150	N	30	N	1,000	N
014	100	N	70	N	1,000	N
015	150	N	N	N	150	N
016	100	N	N	N	200	N
017	100	N	50	N	1,000	N
018	150	N	50	N	100	N
019	50	N	50	20,000	>2,000	N
020	20	N	50	20,000	1,500	N
021	20	N	20	2,000	2,000	N
022	100	N	500	N	>2,000	N
023	20	N	<20	10,000	1,500	N
024	30	N	50	20,000	1,500	N
025	100	N	200	>20,000	>2,000	N
026	70	N	70	N	>2,000	N
027	100	N	50	N	>2,000	N
028	70	N	70	5,000	>2,000	N
029	70	N	100	N	2,000	N
032	30	N	100	N	>2,000	N
035	70	N	100	2,000	>2,000	N
036	300	N	1,500	N	>2,000	N
037	300	N	1,000	N	>2,000	N
038	300	N	700	N	>2,000	N
039	300	N	1,000	N	>2,000	N
040	700	N	1,000	N	>2,000	N
041	150	N	150	7,000	>2,000	N
042	100	N	200	N	>2,000	N
044	70	N	700	N	>2,000	N
046	100	N	50	N	2,000	N
048	300	N	150	N	>2,000	N
050	150	N	70	N	>2,000	N
051	100	N	70	N	>2,000	N
052	100	N	50	N	>2,000	N
054	100	N	70	N	>2,000	N
057	100	N	20	N	>2,000	N
058	150	N	150	N	>2,000	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ba-ppm S	Be-ppm S
059	60 16 10	144 36 5	2.0	1.00	10.00	.200	700	N	N	N	100	300	N
061	60 23 45	144 25 5	20.0	1.00	2.00	.300	500	N	N	N	70	700	5
062	60 12 52	144 30 18	15.0	2.00	15.00	.700	1,500	N	N	N	100	1,000	5
063	60 14 22	144 34 52	2.0	.70	10.00	.300	1,000	N	N	N	2,000	200	2
064	60 30 45	144 37 30	1.0	.50	7.00	.500	700	N	N	N	70	300	7
066	60 11 2	144 35 0	1.5	3.00	5.00	.700	700	N	N	N	200	1,000	N
068	60 31 5	145 14 20	2.0	.70	20.00	.500	1,500	N	N	N	200	500	10
069	60 28 20	145 7 30	2.0	.70	7.00	>1.000	1,500	N	N	N	50	700	N
071	60 28 42	145 10 5	2.0	.70	7.00	.700	1,000	N	N	N	70	10,000	7
074	60 31 52	145 23 10	.7	.20	7.00	.200	500	N	N	N	50	1,500	7
077	60 36 42	145 27 28	2.0	.70	10.00	.500	1,500	N	N	N	50	2,000	10
078	60 38 10	145 24 20	2.0	.70	20.00	1.000	1,000	N	N	N	50	2,000	N
080	60 42 27	145 53 32	1.5	1.00	10.00	1.000	700	N	N	N	70	1,000	5
081	60 43 8	145 53 55	1.5	.70	10.00	.500	1,000	N	N	N	30	500	10
082	60 40 13	146 1 22	2.0	1.00	10.00	.200	1,000	N	N	N	100	500	2
086	60 54 38	146 8 10	2.0	2.00	5.00	>1.000	1,000	N	N	N	20	300	N
087	60 54 35	146 8 30	2.0	.20	7.00	>1.000	700	N	N	N	20	700	N
088	60 53 5	146 10 15	5.0	2.00	7.00	>1.000	1,500	N	N	N	70	300	N
090	60 53 30	146 14 38	1.5	.50	7.00	>1.000	1,000	N	N	N	30	300	N
093	60 52 42	145 57 10	2.0	.70	7.00	>1.000	1,000	N	N	N	300	300	N
094	60 50 45	145 59 48	1.5	.70	7.00	>1.000	1,000	N	N	N	300	300	N
095	60 49 10	145 54 0	1.5	.70	10.00	.500	700	N	N	N	50	150	N
096	60 49 40	145 52 50	1.5	.50	3.00	.300	1,000	N	N	N	100	500	N
097	60 48 48	146 1 8	1.0	.50	7.00	.500	1,000	N	N	N	100	300	N
099	60 45 28	145 58 22	2.0	.70	10.00	.500	1,000	N	N	N	70	100	10
100	60 45 45	146 9 50	10.0	1.50	5.00	>1.000	2,000	N	N	N	70	500	2
104	60 39 52	146 12 52	2.0	1.00	10.00	.500	1,000	N	N	N	70	150	2
108	60 49 30	145 45 30	10.0	2.00	5.00	.500	10,000	N	N	N	20	500	N
109	60 50 8	145 49 42	2.0	.70	3.00	.500	2,000	N	N	N	70	200	N
110	60 50 25	145 49 5	1.5	.20	3.00	.300	1,500	N	N	N	200	300	10
111	60 47 48	145 51 5	1.5	.50	10.00	.500	700	N	N	N	50	100	N
120	60 26 40	146 22 5	7.0	1.00	5.00	>1.000	1,500	N	N	N	50	500	2
123	60 23 50	146 22 0	7.0	.70	7.00	.700	1,500	N	N	N	150	1,500	N
124	60 27 10	146 27 5	7.0	1.00	--	.500	1,000	N	N	N	20	300	N
125	60 27 10	146 29 20	15.0	3.00	--	1.000	2,000	N	N	N	50	500	N
126	60 27 15	146 31 55	7.0	1.00	--	.500	1,500	N	N	N	20	300	N
127	60 25 50	146 37 50	7.0	3.00	--	1.000	1,500	N	N	N	30	300	N
128	60 25 35	146 37 40	5.0	2.00	--	.700	1,000	N	N	N	20	300	N
129	60 24.22	146 41 2	7.0	1.50	--	.700	1,000	N	N	N	30	500	N
130	60 24 40	146 41 0	7.0	2.00	--	1.000	1,500	N	N	N	30	500	N
131	60 23 5	146 42 0	7.0	1.50	--	1.000	1,000	N	N	N	30	300	N
132	60 22 5	146 43 0	7.0	1.50	--	1.000	1,000	N	N	N	30	700	N
133	60 21 8	146 34 48	7.0	1.50	--	.300	1,000	N	N	N	30	500	N
134	60 23 12	146 33 25	5.0	2.00	--	1.000	700	N	N	N	50	300	N
135	60 22 32	146 35 28	5.0	1.50	--	.500	1,000	N	N	N	<20	300	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sb-ppm S	Sc-ppm S	Sn-ppm S	Si-ppm S
059	N	N	10	100	70	N	N	N	20	N	N	10	N	200
061	N	N	30	70	300	N	70	N	200	100	N	15	N	N
062	N	N	20	100	50	N	N	N	100	20	N	20	N	700
063	N	N	N	20	20	N	N	N	10	<20	N	10	N	200
064	N	N	N	20	10	70	N	50	10	<20	N	15	N	500
066	N	N	10	70	20	N	N	150	10	<20	N	20	N	700
068	N	N	N	20	10	N	N	50	10	20	N	10	N	200
069	N	N	N	50	20	100	N	200	10	20	N	20	N	500
071	N	N	N	20	20	N	N	50	10	50	N	10	N	500
074	N	N	N	20	<10	N	N	50	10	<20	N	10	N	N
077	N	N	N	20	20	N	N	N	10	20	N	10	N	200
078	N	N	N	20	50	N	N	50	10	20	N	20	N	200
080	N	N	10	150	20	N	N	100	20	N	N	20	N	200
081	N	N	N	70	<10	N	N	50	10	<20	N	10	N	N
082	N	N	10	30	30	N	N	50	10	<20	N	10	N	N
086	N	N	20	500	150	100	N	150	150	N	N	20	N	200
087	N	N	30	70	150	500	N	200	10	N	N	50	N	200
088	N	N	20	2,000	200	200	N	150	150	50	N	30	N	200
090	N	N	10	70	100	200	N	150	10	70	N	30	N	300
093	N	N	150	70	300	N	N	70	20	300	N	50	30	200
094	N	N	30	70	150	N	N	50	10	100	N	15	N	200
095	N	N	10	70	15	N	N	N	10	20	N	30	N	N
096	N	N	10	100	50	N	N	N	10	<20	N	10	N	200
097	N	N	10	70	20	N	N	N	10	<20	N	10	N	N
099	N	N	10	50	15	50	N	N	10	<20	N	15	N	200
100	N	N	30	150	150	700	N	50	70	50	N	30	N	500
104	N	N	10	50	20	N	N	N	10	N	N	10	N	N
108	N	--	30	150	15	70	N	N	100	N	N	30	N	200
109	N	--	10	150	100	N	N	N	10	N	N	10	N	N
110	N	--	10	70	30	N	N	N	10	N	N	10	N	N
111	N	--	10	70	10	N	N	50	10	N	N	15	N	N
120	N	N	10	70	15	70	N	50	20	N	--	20	N	1,000
123	N	N	20	100	30	50	N	50	20	N	--	15	N	200
124	N	N	20	70	70	N	N	N	70	30	N	10	N	<200
125	N	N	10	50	20	100	N	N	20	N	N	20	N	200
126	N	N	20	70	70	N	N	N	70	20	N	10	N	200
127	N	N	30	100	70	100	N	N	70	<20	N	15	N	500
128	N	N	15	70	30	100	N	N	30	N	N	10	N	300
129	N	N	20	100	70	100	N	N	70	20	N	10	N	200
130	N	N	20	300	70	200	N	N	70	20	N	10	N	200
131	N	N	20	300	100	150	N	N	70	20	N	10	N	N
132	N	N	30	100	70	50	N	N	100	20	N	10	N	N
133	N	N	30	150	100	N	N	N	100	<20	N	15	N	N
134	N	N	10	70	50	N	N	N	20	N	N	10	N	200
135	N	N	15	70	70	70	N	N	50	<20	N	15	N	200

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
059	150	N	20	N	>2,000	N
061	100	N	50	700	1,000	N
062	200	N	50	N	>2,000	N
063	200	N	N	N	1,000	N
064	70	N	70	N	>2,000	N
066	150	N	150	N	>2,000	N
068	200	N	70	N	2,000	N
069	300	N	300	N	>2,000	N
071	150	N	70	N	>2,000	N
074	100	N	<20	N	300	N
077	200	N	20	N	1,000	N
078	200	N	100	N	>2,000	N
080	200	N	50	N	>2,000	N
081	200	N	<20	N	700	N
082	200	N	<20	N	1,000	N
086	100	100	150	N	>2,000	N
087	500	N	1,500	N	>2,000	700
088	300	<100	300	N	>2,000	N
090	200	N	500	N	>2,000	N
093	200	5,000	200	N	>2,000	N
094	150	700	100	N	>2,000	N
095	200	N	70	N	>2,000	N
096	70	N	70	N	>2,000	N
097	150	N	20	N	2,000	N
099	300	N	70	N	2,000	N
100	300	N	100	N	700	N
104	100	N	20	N	1,500	N
108	300	N	200	N	200	N
109	200	200	70	N	>2,000	N
110	70	200	50	N	>2,000	N
111	200	N	50	N	>2,000	N
120	300	N	70	N	700	N
123	200	N	20	N	1,500	N
124	150	N	20	N	200	N
125	200	N	20	N	1,500	N
126	200	N	20	N	150	N
127	300	N	50	N	700	N
128	200	N	30	N	700	N
129	200	N	30	<500	700	N
130	200	N	70	N	>2,000	N
131	200	N	100	N	>2,000	N
132	200	N	30	<500	1,000	N
133	300	N	20	N	100	N
134	200	N	70	N	>2,000	N
135	200	N	30	N	500	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND HIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-pptm	Ag-pptm	As-pptm	Au-pptm	B-pptm	Ra-pptm	Re-pptm
			S	S	S	S	S	S	S	S	S	S	S
136	60 21 58	146 28 30	10.0	2.00	--	.700	3,000	N	N	N	30	700	N
137	60 22 0	146 28 40	3.0	3.00	--	1.000	100	N	N	N	30	6,500	N
138	60 20 35	146 30 40	7.0	2.00	--	.700	1,500	N	N	N	30	700	N
139	60 20 5	146 31 0	7.0	2.00	--	.500	1,000	N	N	N	30	1,000	N
140	60 19 35	146 23 45	7.0	2.00	--	.300	2,000	N	N	N	30	700	N
141	60 20 0	146 22 20	7.0	1.50	--	.700	1,000	N	N	N	20	200	N
142	60 20 55	146 18 10	5.0	5.00	--	.700	700	N	N	N	30	150	N
143	60 58 10	146 57 10	7.0	2.00	--	.700	2,000	N	N	N	20	500	N
144	60 59 20	146 41 28	7.0	1.00	--	.200	1,000	N	N	N	20	300	N
145	60 57 25	146 37 15	7.0	1.00	--	.500	1,000	N	N	N	20	200	N
146	60 55 32	146 25 32	7.0	.70	1.00	>1.000	2,000	N	N	N	30	500	N
147	60 55 28	146 35 22	7.0	2.00	2.00	.700	1,000	N	N	N	30	200	N
148	60 54 40	146 33 52	7.0	2.00	1.00	.300	700	N	N	N	30	700	N
149	60 55 25	146 37 20	7.0	2.00	2.00	.300	700	N	N	N	20	100	N
150	60 54 40	146 43 25	3.0	2.00	5.00	.200	700	N	N	N	<20	100	N
151	60 53 55	146 41 50	3.0	2.00	5.00	.200	700	N	N	N	<20	100	N
152	60 55 35	146 17 50	3.0	.70	3.00	1.000	700	N	N	N	30	700	N
153	60 54 0	146 16 22	3.0	.50	2.00	1.000	700	N	N	N	30	500	N
154	60 50 35	146 22 48	7.0	1.00	1.00	.700	1,000	N	N	N	20	500	N
155	60 49 22	146 27 5	3.0	.70	5.00	.300	1,500	N	500	N	100	150	N
156	60 51 30	146 30 59	10.0	2.00	2.00	.500	6,500	N	N	N	30	500	N
157	60 45 40	146 23 50	3.0	2.00	3.00	.500	1,000	N	N	N	20	100	N
158	60 44 28	146 25 5	7.0	3.00	3.00	.200	2,000	N	N	N	<20	100	N
159	60 43 55	146 20 55	3.0	2.00	5.00	.700	700	N	N	N	30	100	N
160	60 43 25	146 16 30	7.0	1.00	1.00	>1.000	1,500	N	N	N	30	100	N
161	60 56 26	145 55 20	50.0	.70	7.00	>1.000	1,000	500.0	>20,000	>1,000	70	1,000	N
162	60 56 23	145 55 18	50.0	1.00	10.00	>1.000	1,500	15.0	10,000	N	20	1,000	N
163	60 56 53	145 53 8	50.0	.70	5.00	>1.000	500	N	N	N	70	700	N
164	60 56 32	145 55 0	15.0	1.00	20.00	>1.000	2,000	N	15,000	N	20	700	N
165	60 57 52	145 55 5	50.0	1.00	5.00	.700	500	N	N	N	70	700	N
166	60 59 19	145 55 30	50.0	1.00	5.00	1.000	300	7.0	10,000	N	500	700	N
167	60 59 41	145 55 55	15.0	1.50	20.00	>1.000	2,000	N	N	N	100	700	N
168	60 59 20	146 1 10	30.0	1.00	10.00	>1.000	1,000	7.0	15,000	N	150	500	N
169	60 59 58	146 15 30	5.0	1.50	20.00	.700	1,500	N	N	N	100	500	N
170	60 55 50	146 43 53	7.0	1.50	20.00	1.000	1,500	N	N	N	500	500	N
171	60 57 6	146 40 15	7.0	5.00	10.00	1.000	1,500	N	N	N	20	700	N
172	60 57 49	146 41 50	10.0	7.00	20.00	1.000	3,000	N	N	N	20	300	N
173	60 58 5	145 43 40	15.0	1.50	7.00	.500	1,500	7.0	15,000	50	200	500	N
174	60 58 5	145 43 27	15.0	1.50	5.00	.700	1,500	300.0	7,000	300	500	700	N
175	60 57 26	145 41 38	15.0	1.50	5.00	>1.000	1,500	7.0	15,000	N	100	2,000	2
176	60 58 25	145 44 59	30.0	1.00	5.00	>1.000	500	N	2,000	N	70	500	N
177	60 59 10	145 42 49	20.0	1.50	5.00	>1.000	1,000	N	N	N	70	700	N
178	60 57 38	144 47 10	7.0	.20	10.00	>1.000	2,000	N	1,500	N	200	1,000	N
179	60 59 31	144 49 34	7.0	1.50	7.00	>1.000	2,000	N	500	N	500	1,000	N
180	60 59 57	144 57 59	7.0	1.50	5.00	>1.000	2,000	N	500	N	150	1,500	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S
136	N	N	30	100	100	N	N	N	100	<20	N	10	N	N
137	N	N	15	70	100	N	N	N	70	<20	N	10	N	700
138	N	N	30	70	100	N	N	N	100	<20	N	20	N	N
139	N	N	30	200	300	N	N	N	100	30	N	15	N	N
140	N	N	30	100	100	N	N	N	100	<20	N	15	N	N
141	N	N	30	200	150	N	N	N	50	N	N	15	N	N
142	N	N	20	150	70	N	N	N	50	N	N	10	N	200
143	N	N	30	100	1,500	100	N	N	150	50	N	15	N	300
144	N	N	50	70	200	N	N	N	150	100	N	10	N	N
145	N	N	30	200	200	150	N	N	100	70	N	10	N	N
146	N	N	15	1,000	100	700	N	N	30	20	N	70	N	200
147	N	N	20	200	70	100	N	N	70	30	N	15	N	N
148	N	N	15	70	70	N	N	N	70	20	N	<10	N	N
149	N	N	30	300	70	N	N	N	70	<20	N	15	N	N
150	N	N	15	300	30	N	N	N	70	N	N	15	N	N
151	N	N	20	300	30	N	N	N	70	N	N	15	N	N
152	N	N	<10	70	70	200	N	N	10	<20	N	50	N	500
153	N	N	N	70	15	200	N	N	10	<20	N	50	N	300
154	N	N	15	70	70	200	N	N	70	<20	N	15	N	N
155	N	N	10	70	700	N	N	N	20	N	N	10	N	200
156	N	N	20	300	150	200	N	N	70	30	N	20	N	N
157	N	N	15	1,000	15	N	N	N	70	N	N	20	N	200
158	N	N	30	300	30	N	N	N	70	<20	N	15	N	N
159	N	N	15	700	15	N	N	N	70	N	N	20	N	N
160	N	N	20	200	50	300	N	N	70	<20	N	20	N	N
161	300	N	500	50	700	700	N	150	200	7,000	N	30	N	200
162	150	N	500	50	150	500	N	70	70	3,000	N	30	N	200
163	N	N	1,500	50	500	50	N	200	500	50	N	30	N	200
164	N	N	50	100	500	1,000	N	100	20	500	N	50	N	500
165	N	N	2,000	70	2,000	N	N	N	1,000	200	N	15	N	200
166	N	N	1,000	70	1,000	N	N	N	500	700	N	10	N	200
167	N	N	200	300	2,000	N	N	N	70	50	N	20	N	500
168	N	N	700	1,000	1,000	N	N	N	200	1,500	N	10	N	200
169	N	N	20	100	150	N	N	N	50	100	N	10	N	200
170	N	N	30	150	50	N	N	N	50	50	N	50	N	200
171	N	N	30	300	30	N	N	N	70	150	N	30	N	200
172	N	N	70	1,500	50	N	N	N	200	N	N	70	N	200
173	N	N	700	150	5,000	N	N	N	200	500	N	--	N	300
174	N	N	500	150	5,000	N	N	N	150	70	N	--	70	200
175	N	N	70	150	700	200	N	100	100	500	N	--	N	500
176	N	N	500	50	1,500	100	N	70	200	150	N	--	N	200
177	N	N	200	150	1,000	150	N	70	100	70	N	--	N	500
178	N	N	50	300	300	200	N	70	100	100	N	30	N	1,000
179	N	N	20	200	100	1,000	N	70	30	70	N	30	N	1,500
180	50	N	20	500	150	700	N	70	50	50	N	50	N	500

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.---Continued

Sample	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
136	300	N	50	N	200	N
137	150	N	50	N	>2,000	N
138	300	N	50	<500	300	N
139	300	N	30	N	>2,000	N
140	300	N	30	N	100	N
141	300	N	50	N	150	N
142	200	N	100	N	>2,000	N
143	200	N	50	N	500	N
144	150	N	20	<500	300	N
145	150	N	30	N	300	N
146	150	100	150	N	>2,000	N
147	200	N	50	N	500	N
148	150	N	30	N	100	N
149	200	N	20	N	100	N
150	150	N	N	N	70	N
151	150	N	N	N	70	N
152	200	100	100	N	>2,000	N
153	150	N	100	N	>2,000	N
154	150	N	30	N	300	N
155	150	N	50	N	200	N
156	150	N	200	N	>2,000	N
157	150	N	20	N	1,000	N
158	150	N	30	N	150	N
159	200	N	20	N	>2,000	N
160	150	N	70	N	700	N
161	300	1,000	1,000	N	>2,000	2,000
162	500	2,000	1,500	N	>2,000	700
163	300	N	500	3,000	>2,000	N
164	700	N	1,500	N	>2,000	N
165	100	N	70	N	>2,000	700
166	100	N	150	N	>2,000	N
167	500	N	150	N	>2,000	N
168	300	100	70	2,000	>2,000	N
169	300	N	20	N	>2,000	N
170	1,000	N	50	N	2,000	N
171	700	N	50	N	2,000	N
172	700	N	50	500	100	N
173	500	700	70	N	1,500	N
174	700	N	100	N	1,500	N
175	700	N	200	N	>2,000	N
176	200	N	200	N	>2,000	N
177	200	100	150	N	>2,000	N
178	500	1,000	200	N	>2,000	N
179	500	N	300	N	>2,000	N
180	500	N	500	N	>2,000	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Hg-pct. S	Cs-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ba-ppm S	Be-ppm S
181	60 59 49	144 59 54	7.0	1.00	5.00	>1.000	3,000	200.0	3,000	500	150	1,500	N
182	60 59 10	145 3 0	7.0	2.00	10.00	1.000	1,500	N	500	N	150	500	N
183	60 59 53	146 58 22	15.0	1.00	5.00	1.000	1,000	N	N	N	100	>10,000	N
184	60 59 20	146 51 25	5.0	1.50	5.00	.700	1,500	N	500	N	50	1,500	N
185	60 55 26	146 26 38	7.0	1.00	10.00	>1.000	1,500	N	7,000	N	50	700	N
186	60 56 5	146 24 44	2.0	.70	5.00	>1.000	1,000	N	N	N	70	700	N
187	60 45 54	146 30 8	5.0	.70	5.00	>1.000	1,000	N	1,500	N	70	700	N
190	60 58 20	146 18 35	5.0	.50	5.00	>1.000	700	20.0	7,000	150	50	700	N
191	60 58 40	146 25 10	2.0	.50	7.00	>1.000	1,500	N	N	N	70	700	N
192	60 57 40	146 25 50	5.0	.50	7.00	>1.000	1,500	7.0	15,000	20	70	700	N
193	60 58 45	146 25 10	2.0	.70	5.00	>1.000	1,500	N	1,000	N	70	1,000	N
194	60 59 15	146 26 7	5.0	.50	7.00	>1.000	1,500	N	10,000	N	50	700	N
195	60 59 55	146 29 13	2.0	1.00	2.00	.700	700	N	N	N	20	1,000	2
196	60 58 40	146 14 30	5.0	1.00	7.00	.700	1,500	7.0	5,000	70	70	300	2
197	60 59 22	146 14 4	2.0	1.00	5.00	>1.000	1,500	N	500	N	70	500	N
198	60 59 59	146 15 20	30.0	1.00	5.00	.500	300	5.0	1,500	N	70	1,000	N
199	60 50 22	146 48 25	5.0	1.00	5.00	>1.000	700	N	N	N	20	700	N
200	60 48 48	146 46 20	10.0	2.00	5.00	>1.000	1,000	N	N	N	<20	1,500	N
201	60 50 8	146 43 38	20.0	.70	2.00	1.000	500	N	N	N	100	700	N
202	60 52 22	146 39 35	50.0	.20	2.00	1.000	200	2.0	N	N	150	500	N
203	60 31 22	145 46 48	10.0	.50	10.00	>1.000	2,000	N	N	N	<20	2,000	N
204	60 31 2	145 47 30	5.0	1.00	10.00	>1.000	7,000	N	N	N	<20	1,500	N
205	60 30 55	145 49 30	7.0	5.00	7.00	>1.000	1,500	N	N	N	70	500	N
207	60 32 20	145 42 10	10.0	2.00	10.00	>1.000	3,000	N	N	N	100	1,500	N
208	60 32 5	145 39 15	5.0	1.00	2.00	1.000	1,500	N	N	N	70	700	2
209	60 52 5	144 6 28	5.0	.70	10.00	.500	2,000	N	N	N	50	500	N
210	60 51 55	144 6 8	7.0	.50	7.00	.500	2,000	N	N	N	70	500	N
211	60 51 37	144 3 0	5.0	.50	10.00	.500	1,500	N	N	N	70	500	N
212	60 51 30	144 1 48	2.0	.50	10.00	.500	1,500	N	N	N	70	700	N
213	60 53 52	144 1 30	5.0	1.50	7.00	.700	1,500	N	N	N	300	700	N
214	60 53 42	144 4 22	5.0	1.00	10.00	.700	2,000	N	N	N	70	700	N
215	60 54 58	144 3 50	5.0	1.50	10.00	.700	3,000	N	N	N	200	500	N
216	60 35 18	144 5 20	7.0	1.50	10.00	.700	2,000	N	N	N	300	500	N
217	60 56 0	144 3 42	5.0	1.50	7.00	>1.000	2,000	N	N	N	200	500	N
218	60 56 0	144 9 35	2.0	1.00	10.00	1.000	2,000	N	N	N	70	700	N
219	60 56 40	144 5 35	5.0	.70	7.00	>1.000	2,000	N	N	N	100	700	N
220	60 56 10	144 13 10	2.0	.70	10.00	1.000	2,000	N	N	N	50	700	7
221	60 54 47	144 11 30	7.0	1.00	10.00	.500	2,000	15.0	500	N	100	700	5
222	60 54 10	144 15 30	5.0	.70	10.00	.700	2,000	N	N	N	150	700	N
223	60 55 0	144 13 35	5.0	1.00	7.00	1.000	2,000	50.0	N	N	150	700	N
224	60 54 38	144 16 20	5.0	.70	10.00	.700	2,000	N	N	N	150	700	N
225	60 54 42	144 16 18	2.0	.70	5.00	.500	1,500	N	N	N	70	700	N
226	60 59 15	144 3 20	5.0	1.00	7.00	>1.000	1,500	N	1,500	N	200	700	N
227	60 58 35	144 0 40	5.0	1.00	7.00	>1.000	1,500	N	N	N	150	700	N
228	60 59 2	144 4 22	5.0	1.00	7.00	.700	1,500	N	N	N	150	500	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S
181	30	N	70	500	200	700	N	N	50	700	N	50	N	1,500
182	N	N	70	150	200	N	N	N	100	20	N	30	N	200
183	N	N	50	100	100	N	N	N	70	50	N	20	N	5,000
184	N	N	20	100	70	N	N	N	30	20	N	30	N	500
185	N	N	50	150	50	2,000	N	200	20	50	N	30	70	700
186	N	N	10	20	10	100	N	150	10	<20	N	20	N	500
187	N	N	10	20	20	100	N	150	10	20	N	10	N	700
190	N	N	30	100	150	100	N	50	10	200	N	30	N	500
191	N	N	10	100	150	300	N	200	10	20	N	20	N	500
192	N	N	30	50	150	200	N	100	10	100	N	20	N	700
193	N	N	10	70	150	200	N	150	10	<20	N	30	N	500
194	N	N	20	70	200	300	N	150	10	100	N	20	N	300
195	N	N	10	20	15	N	N	50	10	<20	N	10	N	500
196	N	N	30	70	3,000	N	N	N	30	20	N	10	N	300
197	N	N	10	50	200	300	N	150	10	70	N	30	20	500
198	N	N	300	150	500	N	N	N	200	50	N	15	N	200
199	N	N	N	100	50	N	N	100	10	20	N	20	70	500
200	N	N	10	200	20	N	N	150	20	N	N	100	100	500
201	N	N	100	200	200	N	N	70	200	200	N	10	N	200
202	N	N	70	70	700	N	N	70	700	1,000	N	10	N	200
203	N	N	10	100	30	500	N	700	10	<20	N	200	N	1,000
204	N	N	10	100	30	700	N	200	10	<20	N	100	N	1,000
205	N	N	10	150	200	150	N	100	10	5,000	N	50	N	1,000
207	N	N	20	150	30	200	N	N	10	50	N	50	N	1,000
208	N	N	10	20	20	N	N	N	10	10,000	300	10	70	500
209	N	N	10	20	150	200	N	N	10	70	N	50	N	1,000
210	N	N	20	20	100	300	N	N	10	50	N	30	N	700
211	N	N	20	20	100	700	N	N	10	20	N	30	N	1,000
212	N	N	10	20	50	500	N	N	10	20	N	10	N	1,000
213	N	N	10	200	30	700	N	N	10	20	N	10	N	1,000
214	N	N	10	100	50	150	N	N	10	20	N	10	N	1,500
215	N	N	10	200	10	200	N	N	10	20	N	10	N	1,500
216	N	N	10	150	100	1,000	N	N	70	20	N	30	N	700
217	N	N	30	100	20	700	N	200	10	20	N	10	N	500
218	100	N	10	100	30	100	N	50	10	<20	N	10	N	500
219	N	N	10	70	100	200	N	100	10	<20	N	10	N	1,000
220	N	N	10	70	50	150	N	50	10	<20	N	20	N	500
221	N	N	30	70	150	100	N	N	70	20	N	10	N	700
222	N	N	20	50	200	150	N	50	20	50	N	20	N	500
223	N	N	10	100	300	200	N	50	10	20	N	20	N	500
224	N	N	10	100	150	100	N	N	10	<20	N	20	N	500
225	N	N	10	150	30	100	N	N	10	100	N	15	N	500
226	N	N	30	70	10	500	N	70	10	500	N	20	N	1,500
227	N	N	10	150	15	200	N	150	10	50	N	20	N	700
228	N	N	10	70	<10	700	N	N	10	20	N	30	N	700

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
 QUADRANGLES, ALASKA.--Continued

Sample	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
181	200	N	700	N	>2,000	N
182	500	200	100	N	>2,000	N
183	200	N	100	N	>2,000	N
184	200	N	50	N	2,000	N
185	300	1,500	500	N	>2,000	N
186	200	500	150	N	>2,000	N
187	200	N	150	N	>2,000	N
190	200	N	300	N	>2,000	N
191	300	100	500	N	>2,000	N
192	200	200	300	N	>2,000	N
193	300	N	300	N	>2,000	N
194	200	N	300	N	>2,000	N
195	100	500	70	N	1,000	N
196	300	N	50	N	>2,000	N
197	300	N	300	N	>2,000	N
198	150	N	50	N	>2,000	N
199	200	N	100	N	>2,000	N
200	500	N	500	N	>2,000	N
201	100	N	70	N	>2,000	N
202	70	N	100	N	2,000	N
203	500	N	1,000	N	>2,000	N
204	500	N	700	N	>2,000	N
205	500	N	200	N	>2,000	500
207	700	N	300	N	>2,000	N
208	200	N	20	N	2,000	N
209	70	N	1,000	N	>2,000	N
210	100	150	1,000	N	>2,000	N
211	70	N	1,000	N	>2,000	N
212	50	N	500	N	>2,000	N
213	200	N	200	N	>2,000	500
214	200	N	200	N	>2,000	N
215	200	N	500	N	>2,000	N
216	150	150	1,000	N	>2,000	300
217	200	700	500	N	>2,000	N
218	200	N	500	N	>2,000	N
219	200	200	700	N	>2,000	N
220	200	N	300	N	>2,000	N
221	150	N	300	N	>2,000	N
222	150	100	500	N	>2,000	N
223	200	100	200	N	>2,000	N
224	150	150	300	N	>2,000	N
225	150	N	70	N	>2,000	N
226	200	N	150	N	>2,000	N
227	200	500	300	N	>2,000	N
228	200	N	300	N	>2,000	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm	Be-ppm
			S	S	S	S	S	S	S	S	S	S	S
229	60 59 40	144 6 45	5.0	1.00	7.00	>1.000	1,500	N	700	N	200	500	N
230	60 59 28	144 10 5	5.0	1.00	7.00	.700	1,500	N	N	N	200	500	N
231	60 59 0	144 12 5	5.0	1.00	7.00	>1.000	1,500	N	N	N	200	700	N
232	60 53 35	144 13 50	5.0	1.00	10.00	.700	2,000	N	N	N	20	700	N
233	60 54 0	144 13 25	5.0	1.00	7.00	.700	2,000	15.0	N	100	70	300	N
234	60 57 50	144 9 25	5.0	1.00	7.00	>1.000	1,500	N	N	N	150	500	N
235	60 57 22	144 14 38	5.0	.70	7.00	>1.000	1,500	N	N	N	<20	500	N
236	60 58 47	144 17 20	5.0	.70	7.00	>1.000	1,500	N	N	N	300	500	N
237	60 56 2	144 4 40	5.0	.70	7.00	>1.000	1,500	N	N	N	50	300	N
238	60 56 8	144 4 45	5.0	1.00	7.00	.700	1,500	N	N	N	100	500	N
239	60 56 15	144 4 22	5.0	.70	2.00	.500	1,500	30.0	N	200	.70	500	N
240	60 57 38	144 5 0	5.0	1.00	5.00	1.000	1,500	N	N	N	70	700	7
241	60 57 40	144 4 40	5.0	1.00	5.00	.700	1,000	N	N	N	100	500	N
242	60 59 8	144 5 20	5.0	1.00	7.00	>1.000	1,500	N	N	N	100	500	N
243	60 58 40	144 4 0	5.0	1.00	15.00	>1.000	1,500	N	N	20	70	300	N
244	60 58 1	144 9 10	7.0	1.00	7.00	>1.000	1,500	N	500	N	200	500	10
245	60 58 3	144 9 0	5.0	1.00	7.00	>1.000	1,500	N	N	N	100	500	10
246	60 58 43	144 33 7	2.0	.70	7.00	>1.000	1,500	N	N	N	300	500	N
247	60 58 58	144 33 5	5.0	.70	7.00	>1.000	1,500	N	N	N	200	500	N
248	60 59 28	144 35 18	2.0	.70	5.00	1.000	1,500	N	N	N	70	500	5
249	60 59 13	144 37 48	5.0	1.00	7.00	>1.000	1,500	N	N	N	70	700	5
250	60 55 18	144 31 30	2.0	1.00	7.00	1.000	1,500	N	N	N	70	700	N
251	60 55 12	144 31 30	7.0	1.00	10.00	>1.000	2,000	N	N	N	1,000	500	N
252	60 54 29	144 32 21	5.0	1.00	7.00	>1.000	1,500	N	N	N	200	500	N
253	60 53 0	144 28 50	5.0	1.00	7.00	>1.000	1,500	N	N	N	70	700	N
254	60 50 38	144 28 50	2.0	1.50	10.00	.500	2,000	N	N	N	100	300	N
255	60 51 11	144 27 8	2.0	1.50	10.00	.500	2,000	N	N	N	100	300	N
256	60 52 40	144 23 58	2.0	1.00	7.00	.500	1,500	N	N	N	50	500	N
257	60 52 11	144 20 53	2.0	1.00	10.00	.500	2,000	N	N	N	100	500	N
258	60 49 20	144 21 5	5.0	1.00	7.00	.500	2,000	N	N	N	100	500	N
259	60 47 35	144 0 59	2.0	.50	10.00	.700	1,500	N	N	N	100	500	N
260	60 46 9	144 1 24	7.0	.50	10.00	.500	1,500	N	N	N	500	300	N
261	60 45 48	144 6 55	5.0	.50	10.00	.700	1,500	N	N	N	1,500	500	N
262	60 45 52	144 4 50	7.0	.50	10.00	.700	1,500	N	N	N	500	500	N
263	60 47 25	144 4 10	7.0	1.50	10.00	.500	1,500	N	N	N	150	500	N
264	60 46 0	144 10 10	5.0	.50	7.00	.500	1,500	N	N	N	100	500	N
265	60 47 43	144 8 55	2.0	1.00	10.00	1.000	2,000	N	N	N	70	300	N
266	60 50 29	144 15 50	2.0	1.00	10.00	.500	1,500	N	N	N	70	500	N
267	60 50 27	144 15 32	2.0	.70	10.00	.500	2,000	N	N	N	70	500	N
268	60 48 50	144 15 30	2.0	.70	10.00	.500	1,500	N	N	N	150	300	N
269	60 49 4	144 10 52	5.0	.50	10.00	.700	1,500	10.0	N	70	100	300	N
270	60 48 18	144 16 40	2.0	.70	2.00	.500	500	N	N	N	50	300	N
271	60 50 0	144 27 6	2.0	1.50	10.00	.700	1,500	N	N	N	70	300	N
272	60 49 51	144 23 2	2.0	1.00	10.00	1.000	1,500	N	N	N	1,000	300	N
275	60 13 43	144 2 14	7.0	.50	2.00	>1.000	700	N	N	N	70	>10,000	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
QUADRANGLES, ALASKA.--Continued

Sample	Rl-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sb-ppm S	Sc-ppm S	Sn-ppm S	Str-ppm S
229	N	N	30	70	150	700	N	50	10	20	N	50	N	2,000
230	N	N	10	70	15	500	N	N	10	20	N	30	N	1,000
231	N	N	10	100	10	200	N	150	10	<20	N	20	N	700
232	N	N	10	70	50	700	N	N	10	20	N	20	N	1,000
233	500	N	10	50	70	300	N	N	10	20	N	30	N	700
234	N	N	10	100	10	150	N	150	10	20	N	20	N	700
235	N	N	10	70	150	150	N	150	10	20	N	20	N	700
236	N	N	20	70	150	150	N	50	10	70	N	20	N	500
237	20	N	30	70	150	200	N	N	10	<20	N	30	N	700
238	N	N	10	150	30	100	N	50	10	<20	N	10	N	500
239	30	N	10	150	100	70	N	N	10	N	N	20	N	500
240	N	N	10	150	30	100	N	50	10	20	N	10	N	500
241	N	N	10	150	30	50	N	N	10	20	N	15	N	500
242	N	N	10	150	20	200	N	70	10	20	N	20	N	500
243	N	N	10	100	50	300	N	150	10	20	N	30	N	700
244	N	N	10	100	700	500	N	150	10	20	N	30	N	1,000
245	N	N	10	70	100	150	N	100	10	<20	N	15	N	500
246	N	N	10	100	150	200	N	150	10	50	N	30	N	1,000
247	50	N	10	100	150	500	N	150	10	50	N	30	N	1,000
248	N	N	10	150	50	150	N	50	10	<20	N	15	N	300
249	N	N	10	100	15	500	N	50	10	20	N	15	N	500
250	N	N	70	70	70	300	N	N	20	<20	N	20	N	500
251	N	N	20	150	150	1,500	N	50	10	20	N	50	N	1,000
252	N	N	10	100	150	500	N	150	10	<20	N	30	N	1,000
253	N	N	10	150	15	1,500	N	200	10	<20	N	30	20	1,000
254	N	N	10	200	20	300	N	N	10	<20	N	20	N	1,000
255	N	N	70	150	50	200	N	N	10	<20	N	20	N	1,000
256	N	N	10	100	150	100	N	N	10	<20	N	15	N	700
257	N	N	10	100	150	150	N	N	10	20	N	30	N	700
258	N	N	10	100	50	100	N	N	10	50	N	20	N	500
259	N	N	20	20	30	2,000	N	N	10	70	N	30	N	1,000
260	N	N	50	20	150	1,000	N	N	70	70	N	30	N	500
261	30	N	20	20	100	2,000	N	N	50	20	N	30	N	500
262	N	N	10	20	70	700	N	N	10	20	N	30	N	500
263	N	N	10	200	150	1,000	N	N	10	20	N	30	N	500
264	N	N	20	20	70	1,500	N	N	150	70	N	20	N	1,000
265	N	N	10	100	70	1,500	N	N	10	<20	N	20	N	1,000
266	N	N	10	20	10	150	N	N	10	<20	N	20	N	1,500
267	N	N	10	50	100	1,500	N	N	30	30	N	30	N	1,000
268	N	N	10	100	50	200	N	N	10	20	N	30	N	500
269	N	N	10	20	50	1,000	N	N	10	20	N	30	N	500
270	N	N	10	100	70	70	N	N	10	<20	N	10	N	N
271	N	N	10	150	15	200	N	N	10	20	N	10	N	1,000
272	N	N	10	70	15	70	N	N	10	<20	N	10	N	1,000
275	N	N	10	500	100	500	N	150	70	N	N	50	N	1,000

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	V-ppm		W-ppm		Y-ppm		Zn-ppm		Zr-ppm		Th-ppm	
	S	S	S	S	S	S	S	S	S	S	S	
229	300	N	N	500	N	>2,000	N	>2,000	N	>2,000	N	
230	200	N	N	300	N	>2,000	N	>2,000	N	>2,000	N	
231	300	200	N	300	N	>2,000	N	>2,000	N	>2,000	N	
232	100	N	N	500	N	>2,000	N	>2,000	N	>2,000	N	
233	100	100	N	300	N	>2,000	N	>2,000	N	>2,000	N	
234	200	N	N	300	N	>2,000	N	>2,000	N	>2,000	N	
235	150	N	N	300	N	>2,000	N	>2,000	N	>2,000	N	
236	200	N	N	500	N	>2,000	N	>2,000	N	>2,000	N	
237	150	300	300	300	300	>2,000	300	>2,000	300	>2,000	300	
238	200	500	500	100	100	>2,000	N	>2,000	N	>2,000	N	
239	150	200	200	100	100	>2,000	N	>2,000	N	>2,000	N	
240	200	100	100	100	100	>2,000	N	>2,000	N	>2,000	N	
241	200	N	N	100	100	>2,000	N	>2,000	N	>2,000	N	
242	200	N	N	200	200	>2,000	N	>2,000	N	>2,000	N	
243	200	200	N	500	500	>2,000	N	>2,000	N	>2,000	N	
244	300	300	100	200	200	>2,000	N	>2,000	N	>2,000	N	
245	300	100	100	200	200	>2,000	N	>2,000	N	>2,000	N	
246	200	N	N	300	300	>2,000	N	>2,000	N	>2,000	N	
247	200	200	200	500	500	>2,000	N	>2,000	N	>2,000	N	
248	200	200	100	100	100	>2,000	N	>2,000	N	>2,000	N	
249	200	200	N	200	200	>2,000	N	>2,000	N	>2,000	N	
250	200	700	700	150	150	>2,000	N	>2,000	N	>2,000	N	
251	300	200	200	500	500	>2,000	N	>2,000	N	>2,000	N	
252	200	200	100	300	300	>2,000	N	>2,000	N	>2,000	N	
253	300	300	150	700	700	>2,000	N	>2,000	N	>2,000	N	
254	200	200	N	300	300	>2,000	N	>2,000	N	>2,000	N	
255	150	N	N	300	300	>2,000	N	>2,000	N	>2,000	N	
256	150	N	N	100	100	>2,000	N	>2,000	N	>2,000	N	
257	150	150	150	700	700	>2,000	N	>2,000	N	>2,000	N	
258	200	200	N	100	100	>2,000	N	>2,000	N	>2,000	N	
259	50	300	300	1,500	1,500	>2,000	N	>2,000	N	>2,000	1,000	
260	70	100	100	1,500	1,500	>2,000	N	>2,000	N	>2,000	500	
261	70	N	N	1,500	1,500	>2,000	N	>2,000	N	>2,000	700	
262	100	100	N	1,000	1,000	>2,000	N	>2,000	N	>2,000	500	
263	150	150	N	1,000	1,000	>2,000	N	>2,000	N	>2,000	500	
264	70	100	100	500	500	>2,000	N	>2,000	N	>2,000	700	
265	100	N	N	1,000	1,000	>2,000	N	>2,000	N	>2,000	500	
266	100	N	N	500	500	>2,000	N	>2,000	N	>2,000	N	
267	100	100	N	1,500	1,500	>2,000	N	>2,000	N	>2,000	200	
268	100	1,000	1,000	1,000	1,000	>2,000	N	>2,000	N	>2,000	200	
269	70	N	N	1,500	1,500	>2,000	N	>2,000	N	>2,000	200	
270	200	700	700	70	70	>2,000	N	>2,000	N	>2,000	N	
271	150	N	N	300	300	>2,000	N	>2,000	N	>2,000	N	
272	200	200	200	100	100	>2,000	N	>2,000	N	>2,000	200	
275	500	N	N	700	700	>2,000	1,000	>2,000	1,000	>2,000	N	

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Be-ppm S
276	60 15 31	144 2 2	5.0	.70	7.00	>1.000	1,000	N	N	N	150	>10,000
277	60 16 22	144 2 55	5.0	.20	10.00	>1.000	1,000	N	N	N	50	1,500
279	60 20 14	144 7 56	3.0	.50	5.00	>1.000	700	N	N	N	70	200
281	60 22 10	144 3 59	7.0	.20	1.00	>1.000	200	N	N	N	100	1,000
283	60 25 5	144 0 24	15.0	.20	.50	>1.000	300	N	N	N	50	1,500
284	60 25 18	144 3 27	20.0	.07	1.50	>1.000	700	N	N	N	20	10,000
285	60 26 0	144 6 26	20.0	.50	7.00	>1.000	500	N	N	N	50	2,000
286	60 27 1	144 1 40	5.0	.30	5.00	>1.000	700	N	N	N	50	300
287	60 22 42	144 10 19	20.0	.10	.70	>1.000	500	N	N	N	50	>10,000
288	60 24 46	144 7 45	5.0	.20	2.00	>1.000	700	N	N	N	70	>10,000
289	60 23 55	144 13 13	5.0	.20	1.50	>1.000	700	N	N	N	50	1,500
290	60 24 1	144 13 12	10.0	.15	1.00	>1.000	500	N	N	N	50	2,000
291	60 25 55	144 10 6	10.0	1.00	10.00	>1.000	1,000	N	N	N	100	500
292	60 26 11	144 14 30	7.0	.50	10.00	>1.000	70	N	N	N	50	300
293	60 25 17	144 18 1	2.0	.70	10.00	.700	70	N	N	N	70	1,000
294	60 24 10	144 21 1	7.0	.30	1.00	1.000	700	N	N	N	100	>10,000
295	60 21 54	144 13 42	7.0	.30	1.00	>1.000	700	N	N	N	50	10,000
296	60 20 38	144 14 59	5.0	.50	2.00	>1.000	500	N	N	N	50	1,000
297	60 19 5	144 14 35	10.0	.50	2.00	>1.000	700	N	N	N	50	1,500
298	60 18 50	144 17 44	5.0	.15	5.00	>1.000	1,000	N	N	N	50	500
299	60 33 44	145 41 5	2.0	.50	1.00	>1.000	500	N	N	N	200	>10,000
300	60 32 43	145 43 59	5.0	.50	1.00	>1.000	700	N	N	N	100	2,000
301	60 41 11	145 33 8	3.0	1.50	15.00	.200	1,000	N	N	N	500	200
302	60 43 32	145 32 49	7.0	.30	10.00	>1.000	1,000	N	N	N	100	700
303	60 41 49	145 36 53	5.0	.30	2.00	>1.000	700	N	N	N	50	3,000
304	60 42 13	145 37 3	3.0	.30	7.00	>1.000	700	N	N	N	50	700
306	60 36 48	145 51 29	3.0	.50	5.00	.200	1,500	N	N	N	70	700
307	60 42 35	145 30 48	3.0	.30	5.00	.300	700	N	N	N	100	700
308	60 43 8	145 33 46	1.5	.30	2.00	>1.000	700	N	N	N	50	700
310	60 39 2	145 41 39	5.0	.30	1.50	>1.000	1,000	N	N	N	70	5,000
311	60 39 1	145 37 20	7.0	.50	1.50	>1.000	700	N	2,000	N	50	1,000
312	60 37 55	145 38 7	3.0	.50	7.00	>1.000	1,000	N	N	N	100	1,500
313	60 37 7	145 36 24	10.0	.70	10.00	>1.000	1,000	N	1,000	N	1,000	2,000
314	60 33 52	145 44 19	20.0	.30	2.00	>1.000	500	N	N	N	2,000	>10,000
315	60 22 2	144 19 8	30.0	.30	.50	.500	1,000	N	N	N	20	>10,000
316	60 20 13	144 18 0	10.0	.07	.50	.700	200	N	N	N	20	1,500
317	60 15 28	144 16 53	10.0	.10	.50	1.000	300	N	N	N	50	>10,000
318	60 42 56	144 43 49	20.0	.20	1.50	.200	300	N	N	N	20	200
319	60 44 37	144 38 48	2.0	.50	10.00	>1.000	500	N	N	N	150	700
321	60 43 6	144 33 45	5.0	.30	10.00	1.000	1,000	N	N	N	50	500
322	60 43 9	144 22 2	5.0	.20	2.00	>1.000	1,000	N	N	N	50	500
323	60 42 23	144 26 45	1.5	.10	10.00	.300	1,000	N	N	N	50	300
324	60 43 0	144 22 45	2.0	.50	5.00	.200	1,000	N	N	N	70	1,000
325	60 41 15	144 23 24	1.0	.10	1.50	.150	200	N	N	N	50	200
326	60 22 30	144 34 36	1.5	.20	7.00	.500	700	N	N	N	150	300

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sn-ppm	Sr-ppm
276	N	N	10	100	300	150	N	100	70	150	N	20	N	700
277	N	N	10	150	50	300	N	200	50	N	N	50	N	200
279	N	N	10	100	20	100	N	50	50	N	N	N	N	500
281	N	N	<10	150	30	500	N	N	100	N	N	<10	N	500
283	N	N	10	100	100	700	N	100	150	100	N	50	N	1,000
284	N	N	20	150	100	300	N	50	150	100	N	50	N	1,000
285	N	N	100	70	150	100	N	70	150	200	N	20	N	1,000
286	N	N	15	100	100	70	N	150	70	N	N	70	N	500
287	N	N	50	70	200	100	N	100	200	100	N	30	N	500
288	N	N	10	300	30	700	N	100	70	N	N	150	N	1,000
289	N	N	10	100	50	200	N	150	70	N	N	100	N	200
290	N	N	10	150	50	100	N	50	150	N	N	150	N	500
291	N	N	50	150	150	100	N	70	150	70	N	50	N	700
292	N	N	10	70	70	200	N	150	100	50	N	50	N	200
293	N	N	10	50	50	50	N	50	50	20	N	<10	N	700
294	N	N	15	100	100	100	N	70	150	70	N	<10	N	2,000
295	N	N	50	100	100	150	N	150	150	70	N	<10	N	500
296	N	N	70	100	20	150	N	70	50	30	N	50	N	<200
297	N	N	<10	100	50	500	N	200	100	30	N	50	N	<200
298	N	N	10	100	50	500	N	150	50	30	N	50	N	<200
299	N	N	15	<20	20	<50	N	<50	50	2,000	N	<10	N	2,000
300	N	N	15	<20	N	<50	N	<50	50	50	N	<10	N	<200
301	N	N	10	200	200	<50	N	<50	150	<20	N	N	N	N
302	N	N	20	50	50	<50	N	100	50	100	N	N	N	1,500
303	N	N	10	100	70	100	N	200	70	1,500	N	20	N	500
304	N	N	20	100	20	100	N	200	50	70	N	20	N	500
306	N	N	10	100	20	<50	N	150	50	<20	N	20	N	500
307	N	N	10	50	100	<50	N	150	50	70	N	50	N	200
308	N	N	10	50	300	<50	N	<50	50	20	N	20	N	500
310	N	N	10	50	70	200	N	70	50	N	N	N	N	700
311	N	N	70	50	200	<50	N	100	70	300	N	<10	N	500
312	N	N	15	50	150	<50	N	150	50	50	N	<10	N	1,000
313	<20	N	70	100	500	70	N	100	200	200	N	<10	N	200
314	<20	N	200	50	300	100	N	150	200	700	N	<10	N	2,000
315	<20	50	150	20	700	100	N	100	500	500	N	<10	N	1,500
316	N	N	30	<20	150	<50	N	50	100	100	N	<10	N	N
317	<20	N	20	<20	200	<50	N	<50	70	<20	N	<10	N	N
318	N	N	700	<20	2,000	<50	N	50	100	<20	N	<10	N	N
319	N	N	20	<20	150	70	N	50	20	<20	N	<10	N	500
321	N	N	50	50	100	<50	N	50	50	20	N	<10	N	200
322	N	N	10	100	150	<50	N	100	50	<20	N	10	N	200
323	N	N	10	<20	100	<50	N	<50	50	20	N	<10	N	200
324	N	N	10	<20	100	<50	N	<50	20	20	N	<10	N	200
325	N	N	10	<20	15	<50	N	<50	<10	<20	N	<10	N	<200
326	N	N	<10	50	20	70	N	<50	<10	<20	N	<10	N	200

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
 QUADRANGLES, ALASKA.--Continued

Sample	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
276	500	100	500	500	>2,000	N
277	500	N	500	500	>2,000	N
279	200	N	200	<500	>2,000	N
281	500	N	500	<500	>2,000	N
283	300	N	500	<500	>2,000	N
284	500	N	100	<500	>2,000	N
285	200	N	150	<500	>2,000	N
286	500	N	300	<500	>2,000	<200
287	200	N	200	<500	>2,000	N
288	500	N	500	<500	>2,000	200
289	500	N	500	<500	>2,000	N
290	500	N	700	<500	>2,000	N
291	300	100	200	<500	>2,000	N
292	500	N	300	<500	>2,000	N
293	200	N	150	<500	>2,000	N
294	200	N	150	<500	>2,000	N
295	300	N	200	<500	>2,000	N
296	500	N	500	<500	>2,000	N
297	500	N	500	<500	>2,000	N
298	500	N	700	<500	>2,000	N
299	500	N	50	<500	>2,000	N
300	500	N	200	<500	>2,000	700
301	200	N	50	<500	2,000	500
302	500	100	200	<500	>2,000	<200
303	500	N	300	<500	>2,000	200
304	500	N	300	<500	>2,000	700
306	500	N	100	<500	>2,000	N
307	150	N	500	<500	>2,000	1,500
308	200	N	100	<500	>2,000	N
310	300	N	150	<500	>2,000	200
311	200	N	150	<500	>2,000	200
312	200	N	150	<500	>2,000	N
313	200	N	150	<500	>2,000	N
314	150	N	150	<500	>2,000	<200
315	150	N	100	5,000	>2,000	N
316	100	N	100	N	>2,000	N
317	50	N	<20	700	2,000	N
318	70	N	<20	N	700	N
319	150	N	200	N	>2,000	N
321	200	100	200	N	>2,000	N
322	200	2,000	500	N	>2,000	500
323	70	500	700	N	>2,000	N
324	70	500	150	N	>2,000	N
325	50	500	<20	N	>2,000	N
326	100	200	200	N	>2,000	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, COBDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct.	Hg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm	Be-ppm
			S	S	S	S	S	S	S	S	S	S	S
327	60 42 25	144 29 24	2.0	.30	7.00	1.000	700	N	N	N	200	300	N
328	60 41 41	144 31 38	1.5	.30	5.00	.500	700	N	N	N	70	500	N
329	60 38 18	144 37 13	5.0	.50	3.00	>1.000	1,000	N	N	N	50	700	N
331	60 17 6	144 34 37	1.5	.50	10.00	.100	700	N	N	N	100	200	N
332	60 19 44	144 37 3	3.0	.30	5.00	1.000	300	N	N	N	50	200	N
334	60 22 30	144 34 40	2.0	.30	1.50	.500	200	N	N	N	20	700	N
335	60 31 40	144 0 5	3.0	.30	3.00	.500	300	N	N	N	50	7,000	<2
336	60 32 0	144 7 32	3.0	.50	10.00	.700	500	N	N	N	50	500	2
337	60 31 16	144 11 38	2.0	.50	10.00	.500	700	N	N	N	200	700	2
338	60 31 21	144 11 45	5.0	.50	10.00	.500	700	N	N	N	70	500	<2
339	60 30 27	144 14 14	3.0	.50	20.00	.500	1,000	N	N	N	50	700	5
340	60 29 4	144 18 48	10.0	.30	10.00	.700	1,000	N	N	N	50	700	5
342	60 29 27	144 20 40	5.0	.50	10.00	.700	1,000	N	N	N	100	500	3
343	60 33 31	144 23 29	5.0	.50	10.00	>1.000	1,000	15.0	<500	N	100	2,000	<2
344	60 33 54	144 26 22	5.0	.20	7.00	.500	700	N	N	N	50	500	500
345	60 32 42	144 28 7	3.0	.50	10.00	.500	1,500	N	N	N	100	500	3
346	60 29 50	144 30 23	5.0	.50	1.00	1.000	300	N	N	N	100	500	5
347	60 30 54	144 37 18	2.0	.30	7.00	.500	1,500	N	N	N	70	500	2
348	60 34 28	144 40 54	2.0	.50	10.00	1.000	500	N	N	N	100	2,000	5
349	60 33 45	144 37 23	3.0	.50	3.00	1.000	700	N	5,000	N	20	1,000	<2
350	60 35 42	144 35 27	3.0	.50	10.00	1.000	700	N	2,000	N	100	700	<2
351	60 35 57	144 41 54	1.5	.30	5.00	1.000	500	N	N	N	50	700	2
352	60 49 37	144 27 44	1.5	.30	10.00	.200	1,000	N	N	N	100	500	2
353	60 47 12	144 25 5	5.0	.50	5.00	.700	500	20.0	5,000	20	100	700	2
354	60 47 54	144 29 15	2.0	.30	3.00	1.000	500	N	N	N	70	300	<2
355	60 45 6	144 28 3	3.0	.30	3.00	1.000	500	N	N	N	200	200	<2
356	60 44 16	144 27 55	2.0	.20	3.00	>1.000	300	N	N	N	200	200	<2
357	60 45 46	144 31 12	5.0	.50	10.00	>1.000	1,000	N	N	N	200	500	<2
359	60 52 5	144 42 36	2.0	.30	1.50	1.000	500	N	2,000	N	200	500	<2
360	60 49 16	144 37 27	10.0	.30	2.00	1.000	500	500.0	20,000	>1,000	50	500	<2
361	60 49 39	144 41 20	2.0	.50	1.00	1.000	300	15.0	1,000	<20	50	500	<2
362	60 48 20	144 44 6	2.0	.50	1.50	.700	500	N	N	N	70	500	2
363	60 45 59	144 38 11	5.0	.50	7.00	.700	1,000	N	N	N	50	300	2
364	60 37 7	144 56 38	1.0	.20	2.00	>1.000	200	N	N	N	20	500	2
365	60 33 50	144 59 34	10.0	.20	2.00	.500	200	5.0	N	N	<20	200	<2
366	59 56 52	144 19 15	50.0	.50	.50	.300	2,000	10.0	N	N	20	>10,000	<2
367	60 20 44	144 19 34	20.0	.50	.50	.700	1,000	5.0	N	N	50	>10,000	<2
368	60 20 5	144 20 3	20.0	.30	1.00	>1.000	1,000	1.0	N	N	50	>10,000	<2
369	60 16 0	144 19 37	30.0	.50	2.00	>1.000	700	N	N	N	50	>10,000	3
370	60 15 8	144 14 14	7.0	.30	5.00	>1.000	1,000	N	N	N	50	>10,000	2
371	60 11 58	144 21 28	10.0	.70	3.00	>1.000	2,000	N	N	N	100	10,000	3
373	60 11 0	144 26 0	10.0	.70	2.00	>1.000	1,000	N	N	N	150	>10,000	<2
374	60 11 5	144 26 21	10.0	.50	.50	.300	1,000	2.0	N	N	150	>10,000	<2
375	60 21 15	144 33 4	10.0	.50	3.00	1.000	1,000	1.0	N	N	100	>10,000	<2
377	60 44 20	144 40 8	5.0	1.00	2.00	1.000	700	N	500	N	50	10,000	<2

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S
327	N	N	<10	<20	20	70	N	50	50	<20	N	<10	N	300
328	N	N	<10	<20	20	70	N	<50	20	<20	N	<10	N	300
329	N	N	<10	<20	20	<50	N	<50	20	<20	N	N	N	N
331	N	N	50	<20	100	<50	N	<50	50	<20	N	10	N	N
332	N	N	<10	<20	20	<50	N	<50	20	<20	N	<10	N	N
334	N	N	<10	<20	50	<50	N	<50	50	<20	N	<10	N	N
335	N	N	10	20	50	50	N	<50	20	<20	N	<10	N	500
336	N	N	10	20	30	150	N	<50	20	<20	N	<10	N	500
337	N	N	10	20	70	50	N	<50	50	<20	N	<10	N	500
338	N	N	10	1,000	20	50	N	<50	30	100	N	<10	N	500
339	N	N	<10	100	20	50	N	<50	20	50	N	<10	N	500
340	N	N	70	50	70	50	N	<50	70	20	N	20	N	300
342	N	N	<10	100	50	70	N	<50	20	20	N	20	N	500
343	300	N	150	50	300	50	N	100	100	700	N	20	30	500
344	N	N	<10	<20	100	50	N	<50	70	70	N	70	N	200
345	N	N	10	20	20	50	N	<50	20	<20	N	N	N	500
346	N	N	20	<20	50	100	N	<50	50	<20	N	N	N	N
347	N	N	10	<20	20	<50	N	<50	10	30	N	N	N	500
348	N	N	10	20	20	50	N	50	20	20	N	N	N	500
349	N	N	100	<20	20	50	N	100	50	150	N	10	100	300
350	N	N	70	500	20	50	N	50	30	20	N	N	N	300
351	N	N	10	<20	20	50	N	<50	20	<20	N	N	N	300
352	N	N	10	<20	10	50	N	<50	20	20	N	N	N	500
353	N	N	200	<20	50	50	N	<50	50	100	N	N	N	300
354	N	N	10	<20	200	50	N	50	30	30	N	N	N	200
355	N	N	50	<20	70	150	N	<50	30	30	N	N	N	200
356	N	N	10	<20	10	50	N	<50	20	20	N	N	N	200
357	N	N	10	50	<10	150	N	<50	20	<20	N	20	N	200
359	N	N	50	<20	100	<50	N	50	30	2,000	N	N	N	<200
360	100	N	200	<20	200	<50	N	<50	100	1,000	N	N	N	200
361	<20	N	70	<20	50	<50	N	<50	30	50	N	N	N	<200
362	N	N	10	<20	20	<50	N	<50	20	30	N	N	N	300
363	<20	N	70	<20	300	<50	N	<50	300	<20	N	N	N	<200
364	N	N	10	<20	20	<50	N	50	100	<20	N	N	N	N
365	<20	N	20	<20	200	<50	N	<50	50	500	N	N	N	200
366	<20	70	100	<20	1,000	50	70	50	700	300	N	<10	N	2,000
367	<20	200	100	<20	500	50	10	50	500	300	N	<10	N	2,000
368	<20	500	100	<20	300	700	N	50	700	200	N	<10	N	2,000
369	<20	N	50	30	300	200	10	200	700	200	N	<10	N	2,000
370	N	N	20	100	200	200	<10	200	100	<20	N	20	N	700
371	N	N	50	100	100	100	N	200	150	<20	N	<10	N	<200
373	N	N	10	50	70	100	N	150	200	50	N	<10	N	3,000
374	N	300	50	100	300	50	20	<50	200	200	N	<10	N	5,000
375	N	N	70	50	200	50	N	<50	150	50	N	<10	N	1,000
377	<20	N	70	70	50	100	N	50	70	300	N	<10	N	1,000

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
327	150	500	200	N	>2,000	N
328	100	500	100	N	>2,000	N
329	100	300	100	N	>2,000	500
331	70	N	<20	N	200	N
332	200	N	50	N	>2,000	N
334	200	N	70	N	>2,000	N
335	200	N	100	N	>2,000	N
336	150	N	300	N	>2,000	N
337	150	N	200	N	>2,000	N
338	200	N	200	N	>2,000	300
339	200	N	500	N	>2,000	N
340	200	N	700	N	>2,000	500
342	300	N	700	N	>2,000	500
343	150	2,000	700	N	>2,000	200
344	100	N	1,000	N	>2,000	3,000
345	200	<100	100	N	>2,000	N
346	200	N	50	N	>2,000	N
347	150	N	50	N	>2,000	N
348	200	<100	100	N	>2,000	N
349	150	2,000	150	N	>2,000	N
350	200	500	150	N	>2,000	N
351	100	100	70	N	>2,000	N
352	100	N	150	N	>2,000	N
353	100	500	150	N	>2,000	N
354	100	<100	100	N	>2,000	N
355	150	200	150	N	>2,000	N
356	100	500	150	N	>2,000	N
357	300	N	300	N	>2,000	N
359	150	N	70	N	>2,000	N
360	150	300	150	N	>2,000	N
361	150	N	100	N	>2,000	N
362	100	N	20	N	>2,000	N
363	150	200	50	N	>2,000	N
364	200	N	200	N	>2,000	700
365	50	100	30	N	>2,000	N
366	150	N	70	10,000	>2,000	N
367	150	N	70	20,000	>2,000	N
368	300	N	500	>20,000	>2,000	N
369	300	N	300	2,000	>2,000	N
370	500	N	500	2,000	>2,000	N
371	500	N	500	<500	>2,000	N
373	500	N	500	<500	>2,000	N
374	200	N	50	10,000	>2,000	N
375	200	N	70	N	>2,000	N
377	150	N	200	N	>2,000	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Tl-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ba-ppm S	Be-ppm S
378	60 42 34	144 43 47	10.0	2.00	15.00	.500	1,500	N	N	N	50	500	<2
379	60 42 46	144 18 10	5.0	.50	15.00	.700	1,000	N	N	N	100	500	<2
380	60 43 0	144 18 25	5.0	.20	5.00	.700	700	N	7,000	N	100	200	<2
381	60 44 40	144 17 13	1.5	.30	3.00	.500	500	N	N	N	100	200	<2
382	60 41 23	144 22 0	3.0	.30	7.00	.700	700	N	N	N	150	1,000	<2
383	60 22 42	144 31 29	5.0	.50	5.00	>1.000	700	N	N	N	100	700	2
385	60 17 9	144 22 43	2.0	.07	.50	1.000	150	N	N	N	50	1,500	N
386	60 14 2	144 30 32	30.0	.30	.10	.070	700	N	N	N	30	>10,000	N
388	60 12 50	144 23 46	15.0	.30	1.50	>1.000	300	N	N	N	50	2,000	N
390	60 13 42	144 12 7	5.0	.20	7.00	>1.000	700	N	N	N	50	700	<2
391	60 15 13	144 12 53	7.0	.10	2.00	>1.000	700	N	N	N	70	>10,000	<2
392	60 37 39	144 27 54	1.0	.15	2.00	.200	200	N	N	N	50	200	N
393	60 38 17	144 32 10	2.0	.50	2.00	.500	500	N	5,000	N	50	500	<2
394	60 38 16	144 37 3	2.0	1.00	10.00	1.000	1,000	N	N	N	100	700	2
395	60 1 34	144 23 6	5.0	1.00	15.00	.300	1,000	N	N	N	100	200	2
396	60 17 12	144 34 35	5.0	.50	15.00	.200	1,000	N	N	N	50	<50	N
397	60 20 54	144 37 21	5.0	2.00	10.00	1.000	1,000	N	N	N	500	150	<2
398	60 23 20	144 37 49	1.5	.50	2.00	.700	700	N	N	N	50	500	<2
399	60 31 32	144 3 16	2.0	.50	5.00	.700	500	N	N	N	50	300	N
400	60 32 9	144 2 26	20.0	.30	2.00	.700	500	N	1.5	N	50	1,000	<2
401	60 32 31	144 8 17	2.0	.20	2.00	.500	500	N	N	N	50	500	<2
402	60 31 4	144 17 52	7.0	.30	5.00	.500	700	N	N	N	100	700	<2
403	60 30 35	144 17 35	3.0	.30	7.00	.500	700	N	N	N	50	700	<2
404	60 33 5	144 26 12	2.0	.30	7.00	.700	2,000	N	N	N	70	500	<2
405	60 30 47	144 26 56	3.0	.30	10.00	.500	700	N	N	N	50	700	<2
406	60 31 15	144 26 35	5.0	.50	15.00	1.000	1,000	N	N	N	100	700	2
407	60 31 49	144 30 57	3.0	.50	15.00	1.000	2,000	N	N	N	100	700	5
408	60 31 19	144 39 27	3.0	.50	10.00	.700	1,500	N	N	N	100	1,000	2
409	60 33 26	144 38 33	3.0	.50	10.00	1.000	1,500	N	N	N	500	700	3
410	60 34 43	144 36 25	3.0	.50	7.00	1.000	1,000	N	3,000	N	70	1,000	3
411	60 35 28	144 37 23	5.0	.70	10.00	>1.000	1,000	N	500	N	200	1,000	3
412	60 37 58	144 40 56	5.0	.70	10.00	1.000	1,000	N	2,000	N	100	1,000	5
413	60 47 30	144 25 5	5.0	.50	5.00	1.000	100.0	N	2,000	150	200	500	3
414	60 47 7	144 22 32	3.0	.70	10.00	.700	2,000	N	N	N	150	500	3
415	60 45 22	144 27 37	5.0	.50	5.00	>1.000	1,000	N	3,000	N	100	700	2
416	60 44 40	144 27 43	3.0	1.00	3.00	.700	700	N	N	N	50	1,500	5
417	60 44 5	144 28 25	2.0	.50	2.00	1.000	700	N	N	N	100	1,000	5
418	60 53 57	144 48 25	30.0	1.00	3.00	.200	1,000	N	N	N	50	200	2
419	60 52 53	144 44 27	20.0	.20	5.00	>1.000	1,000.0	N	10,000	>1,000	1,000	500	<2
420	60 51 9	144 38 16	5.0	1.00	5.00	>1.000	1,000	N	N	N	500	700	<2
421	60 54 26	144 44 43	2.0	.50	5.00	>1.000	500	N	N	N	70	700	3
422	60 49 5	144 40 57	2.0	.70	3.00	1.000	1,000	N	N	N	150	1,000	5
423	60 46 31	144 44 7	3.0	.50	2.00	.500	500	N	2,000	N	70	700	3
425	60 35 12	144 57 37	30.0	.50	1.00	1.000	500	N	N	N	50	500	2
426	60 34 8	144 59 23	10.0	.50	10.00	1.000	1,000	N	N	N	100	500	5

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	Ia-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S
378	<20	N	70	100	1,000	100	N	<50	100	20	N	<10	N	700
379	N	N	200	70	100	50	N	<50	50	20	N	<10	N	500
380	50	N	10	150	50	50	N	<50	50	200	N	<10	N	<200
381	N	N	50	200	20	50	N	<50	20	20	N	<10	N	<200
382	200	N	10	100	20	50	N	<50	50	20	N	<10	N	700
383	N	N	10	100	200	300	N	100	10	<20	N	50	N	300
385	N	N	10	50	50	70	N	<50	50	<20	N	<10	N	300
386	<20	N	200	<20	500	70	N	<50	500	200	N	<10	N	300
388	N	N	20	20	150	N	N	<50	100	N	N	30	N	300
390	N	N	10	100	50	200	N	100	50	50	N	30	N	300
391	N	N	10	50	50	70	N	100	50	N	N	N	N	700
392	N	N	<10	<20	200	N	N	<50	20	20	N	N	N	N
393	N	N	100	<20	50	50	N	<50	50	N	N	N	N	200
394	N	N	10	<20	20	50	N	50	50	N	N	N	N	300
395	N	N	10	50	50	70	N	<50	50	20	N	N	N	300
396	N	N	70	20	100	70	N	<50	50	N	N	N	N	N
397	N	N	20	100	200	70	N	<50	50	<20	N	N	N	<200
398	N	N	10	<20	100	100	N	<50	50	<20	N	N	N	200
399	N	N	10	<20	50	70	N	<50	50	N	N	N	N	200
400	<20	N	500	30	100	50	N	<50	500	<20	N	<10	N	300
401	N	N	10	<20	20	50	N	N	50	200	N	<10	N	200
402	N	N	20	<20	100	70	N	<50	50	20	N	N	N	300
403	N	N	10	50	20	70	N	N	20	30	N	10	N	300
404	N	N	10	20	20	70	N	<50	30	20	N	N	N	500
405	150	N	10	30	30	70	N	N	50	<20	N	20	N	300
406	N	N	20	100	20	50	N	<50	50	50	N	70	N	200
407	N	N	10	20	150	70	N	50	50	<20	N	N	N	700
408	N	N	10	50	50	50	N	50	20	50	N	N	N	700
409	N	N	10	50	30	50	N	50	30	<20	N	N	N	500
410	N	N	10	50	20	70	N	50	30	20	N	N	N	500
411	N	N	10	50	70	70	N	100	50	50	N	N	N	500
412	N	N	20	70	30	70	N	70	50	50	N	N	N	500
413	N	N	20	50	50	70	N	50	<20	<20	N	N	N	200
414	N	N	10	150	20	70	N	<50	30	20	N	N	N	1,000
415	N	N	70	100	70	70	N	<50	50	20	N	N	N	500
416	N	N	10	50	20	70	N	<50	30	30	N	N	N	700
417	N	N	10	70	20	100	N	<50	20	30	N	N	N	700
418	20	N	70	50	3,000	70	N	<50	200	50	N	N	N	200
419	50	N	100	70	200	70	N	50	100	3,000	N	20	N	500
420	N	N	10	100	20	70	N	70	50	50	N	N	N	700
421	50	N	10	20	200	70	N	50	50	3,000	N	N	N	500
422	N	N	10	200	20	100	N	50	50	100	N	N	N	500
423	N	N	20	20	20	70	N	<50	50	30	N	N	N	500
425	20	N	100	20	500	100	N	50	200	300	N	<10	N	200
426	<20	N	20	<20	100	100	N	100	70	70	N	N	N	500

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
378	200	100	<20	N	700	N
379	150	700	300	N	>2,000	N
380	200	1,000	300	N	>2,000	N
381	200	100	70	N	>2,000	N
382	150	1,000	30	N	>2,000	N
383	200	N	200	N	>2,000	N
385	100	N	30	1,000	>2,000	N
386	70	N	N	2,000	>2,000	N
388	200	N	200	3,000	>2,000	N
390	500	N	500	1,000	>2,000	N
391	200	N	200	<500	>2,000	N
392	50	N	150	N	>2,000	200
393	100	300	70	N	>2,000	200
394	100	<100	70	N	>2,000	N
395	50	N	20	N	>2,000	N
396	200	N	<20	N	700	N
397	500	N	50	N	>2,000	N
398	100	N	20	N	>2,000	N
399	100	N	150	<500	>2,000	N
400	200	N	<20	500	700	N
401	100	N	200	N	>2,000	200
402	150	100	100	N	>2,000	N
403	200	N	200	N	>2,000	N
404	150	1,000	100	N	>2,000	200
405	150	N	300	N	>2,000	500
406	200	N	700	N	>2,000	200
407	200	2,000	150	N	>2,000	200
408	200	2,000	100	N	>2,000	N
409	200	1,000	100	N	>2,000	N
410	200	100	150	N	>2,000	N
411	300	100	20	N	>2,000	N
412	200	2,000	100	N	>2,000	N
413	200	1,500	100	N	>2,000	N
414	200	N	70	N	>2,000	N
415	200	500	300	N	>2,000	N
416	200	N	50	N	>2,000	N
417	200	N	50	N	>2,000	N
418	200	N	20	N	1,500	N
419	300	N	500	N	>2,000	N
420	300	N	200	N	>2,000	N
421	200	N	100	N	>2,000	N
422	200	200	70	N	>2,000	N
423	100	<100	100	N	>2,000	N
425	100	100	100	<500	>2,000	N
426	200	3,000	100	N	>2,000	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm	Re-ppm
			S	S	S	S	S	S	S	S	S	S	S
427	60 30 37	145 2 0	5.0	.70	7.00	>1.000	1,000	N	N	N	70	2,000	3
428	60 27 58	145 6 5	5.0	1.00	3.00	1.000	1,000	N	N	N	100	1,500	3
429	60 37 28	145 32 1	10.0	.70	5.00	>1.000	700	N	N	N	100	700	5
430	60 38 17	145 30 31	30.0	.50	5.00	>1.000	700	7.0	N	N	50	>10,000	5
431	60 40 35	145 29 3	7.0	1.00	10.00	.500	1,000	N	N	N	100	300	2
433	60 39 18	145 24 21	10.0	1.00	10.00	1.000	1,000	N	N	N	50	500	2
434	60 35 51	145 28 36	20.0	.50	1.00	>1.000	700	N	N	N	50	10,000	2
435	60 32 17	145 34 21	5.0	.70	2.00	>1.000	700	N	N	N	100	1,000	2
436	60 33 58	145 31 54	10.0	.50	1.50	>1.000	700	N	N	N	50	7,000	2
437	60 35 32	145 21 41	5.0	1.00	10.00	.500	1,000	N	N	N	100	700	3
438	60 34 46	145 21 10	15.0	.70	10.00	.500	1,000	10.0	>20,000	N	1,000	1,000	5
441	60 37 30	145 32 44	15.0	.70	2.00	>1.000	1,000	N	N	N	50	5,000	2
442	60 38 6	145 31 49	5.0	.70	1.50	1.000	1,000	N	N	N	200	5,000	2
443	60 39 7	145 28 36	10.0	1.00	10.00	1.000	1,000	5.0	N	N	100	200	2
444	60 34 46	145 28 30	2.0	.50	5.00	.200	1,000	N	N	N	1,000	1,000	5
445	60 40 31	145 24 33	5.0	.70	15.00	.700	1,000	N	N	N	100	300	3
446	60 36 59	145 26 51	7.0	.50	1.00	.700	500	N	N	N	50	5,000	2
447	60 34 36	145 29 22	2.0	.70	5.00	>1.000	1,500	N	N	N	300	10,000	5
448	60 37 20	145 19 33	20.0	.50	5.00	.700	700	20.0	3,000	N	1,000	1,000	2
449	60 34 40	145 21 9	15.0	.70	10.00	>1.000	1,000	N	500	N	300	1,500	5
450	60 50 3	145 35 43	5.0	.50	10.00	.500	700	N	>20,000	N	5,000	700	10
451	60 50 24	145 35 11	30.0	.30	2.00	.500	500	5.0	1,500	N	500	2,000	2
452	60 49 30	145 36 21	10.0	.50	5.00	>1.000	700	N	N	N	100	500	2
453	60 49 50	145 31 5	50.0	.30	.50	.700	200	5.0	1,000	N	<20	700	<2
454	60 50 2	145 29 20	50.0	.30	1.00	1.000	200	2.0	700	N	100	700	2
455	60 51 15	145 26 4	5.0	.50	10.00	>1.000	500	N	N	N	500	700	2
456	60 49 44	145 28 29	7.0	.70	2.00	>1.000	500	N	N	N	700	700	2
457	60 50 29	145 26 29	20.0	.20	2.00	>1.000	500	N	N	N	20	2,000	2
458	60 51 18	145 27 15	7.0	.50	10.00	>1.000	700	N	N	N	5,000	700	5
459	60 46 29	145 34 16	20.0	.50	15.00	>1.000	500	N	N	N	200	3,000	3
460	60 44 53	145 26 13	1.0	.20	1.00	>1.000	500	N	N	N	70	5,000	2
461	60 47 31	145 10 34	15.0	1.00	10.00	1.000	1,500	3.0	15,000	N	1,000	5,000	7
462	60 47 53	145 10 20	50.0	.20	2.00	.500	500	10.0	1,000	N	<20	>10,000	<2
464	60 32 2	145 0 17	5.0	1.00	5.00	N	1,000	N	N	N	50	1,500	2
465	60 29 37	145 2 47	10.0	.50	5.00	N	1,000	N	500	N	70	1,500	2
466	60 29 40	145 6 11	5.0	.50	7.00	N	1,000	N	N	N	50	1,500	5
467	60 28 27	145 7 56	5.0	1.00	2.00	N	1,000	N	N	N	100	1,500	3
468	60 30 20	145 10 19	20.0	.50	7.00	N	700	N	<500	N	100	700	3
469	60 28 36	145 16 0	5.0	1.00	7.00	N	1,000	N	N	N	100	1,500	7
470	60 29 17	145 18 43	5.0	.50	7.00	N	1,000	N	N	N	100	1,000	2
471	60 49 23	145 32 38	20.0	.50	1.00	N	700	N	700	N	1,000	500	2
472	60 49 7	145 34 16	30.0	.30	.70	N	500	N	N	N	50	500	2
473	60 48 13	145 32 15	7.0	.50	10.00	>1.000	500	N	N	N	200	700	2
474	60 47 30	145 33 5	20.0	.70	1.50	>1.000	700	N	N	N	50	700	2
475	60 46 59	145 32 26	7.0	.70	2.00	>1.000	700	N	N	N	50	1,000	2

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	Ia-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S
427	<20	N	10	<20	300	70	N	100	50	300	N	N	N	700
428	<20	N	10	20	70	100	N	50	50	50	N	N	N	500
429	N	N	50	50	300	70	N	100	70	100	N	N	N	500
430	N	N	200	50	700	200	N	100	300	700	N	N	N	2,000
431	N	N	100	50	500	70	N	<50	100	20	N	N	N	200
433	N	N	50	50	1,000	50	N	50	70	50	N	N	N	200
434	N	N	100	50	200	100	N	100	100	200	N	N	N	200
435	N	N	10	<20	1,000	70	N	70	50	50	N	N	N	200
436	N	N	50	20	200	70	N	200	100	50	N	10	N	500
437	N	N	20	50	150	100	N	<50	50	20	N	N	N	200
438	<20	N	200	50	1,500	100	N	<50	100	300	N	N	N	200
441	<20	N	100	20	200	100	N	100	100	100	N	N	N	700
442	N	N	200	50	200	100	N	50	50	20	N	N	N	700
443	<20	N	100	50	1,500	70	N	<50	100	700	N	N	N	200
444	N	N	10	20	100	70	N	<50	20	50	N	N	N	200
445	N	N	50	70	1,000	100	N	<50	50	100	N	N	N	<200
446	N	N	20	70	100	100	N	50	50	100	N	N	N	200
447	N	N	<10	<20	70	200	N	100	50	100	N	N	N	500
448	30	N	200	70	1,000	100	N	50	300	500	500	N	N	200
449	20	N	20	50	200	100	N	50	50	100	N	N	N	300
450	N	N	200	<20	300	70	N	<50	100	50	N	N	N	200
451	<20	N	200	70	1,000	100	N	50	500	500	N	N	N	N
452	N	N	70	100	200	100	N	50	100	100	N	N	N	200
453	<20	N	200	50	1,500	70	N	50	500	1,000	N	N	N	N
454	<20	N	200	50	1,000	100	N	50	500	700	N	N	N	N
455	<20	N	20	50	150	50	N	70	50	100	N	N	N	200
456	<20	N	100	70	200	50	N	70	100	50	N	N	N	200
457	<20	N	200	70	700	50	N	70	200	300	N	N	N	200
458	N	N	150	50	150	50	N	50	70	20	N	N	N	200
459	<20	N	150	70	500	50	N	70	150	300	N	N	N	300
460	N	N	10	20	50	50	N	50	20	<20	N	N	N	200
461	20	N	70	50	1,000	100	N	100	70	300	N	N	N	200
462	50	N	500	100	1,000	70	N	50	300	1,500	N	N	N	500
464	N	N	10	50	100	100	N	50	50	50	N	N	N	700
465	<20	N	20	50	100	100	N	50	70	150	N	N	N	500
466	<20	N	<10	50	50	100	N	100	50	50	N	N	N	700
467	<20	N	<10	50	200	100	N	<50	50	30	N	N	N	700
468	<20	N	10	50	150	100	N	100	70	50	N	N	N	500
469	N	N	10	50	50	70	N	<50	50	<20	N	N	N	200
470	N	N	<10	20	20	700	N	N	30	<20	N	20	N	200
471	<20	N	150	100	500	100	N	100	200	200	N	10	N	200
472	20	N	150	100	500	100	N	100	300	500	N	10	N	200
473	<20	N	70	100	300	100	N	100	100	100	N	20	N	200
474	<20	N	150	100	500	50	N	70	200	200	N	N	N	200
475	<20	N	50	50	200	50	N	100	70	100	N	N	N	500

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
QUADRANGLES, ALASKA.--Continued

Sample	V-ppm		W-ppm		Y-ppm		Zn-ppm		Zr-ppm		Th-ppm	
	S	S	S	S	S	S	S	S	S	S	S	
427	200	700	100	N	>2,000	N	>2,000	N	N	N	N	
428	200	N	70	N	>2,000	N	>2,000	N	N	N	N	
429	200	N	150	N	>2,000	N	>2,000	N	N	N	N	
430	200	N	150	N	>2,000	N	>2,000	N	N	N	N	
431	200	N	50	N	700	N	700	N	N	N	N	
433	300	N	100	N	>2,000	N	>2,000	N	N	N	N	
434	200	N	150	N	>2,000	N	>2,000	N	N	N	N	
435	300	N	150	N	>2,000	N	>2,000	N	N	N	N	
436	200	N	200	N	>2,000	N	>2,000	500	N	N	N	
437	200	100	50	N	2,000	N	2,000	N	N	N	N	
438	200	N	50	N	<500	N	2,000	N	N	N	N	
441	200	N	150	N	>2,000	N	>2,000	N	N	N	N	
442	200	N	50	N	2,000	N	2,000	N	N	N	N	
443	300	N	100	N	1,500	N	1,500	N	N	N	N	
444	200	150	70	N	1,000	N	1,000	N	N	N	N	
445	300	N	50	N	2,000	N	2,000	N	N	N	N	
446	150	N	50	N	>2,000	N	>2,000	N	N	N	N	
447	500	N	50	N	>2,000	N	>2,000	N	N	N	N	
448	150	N	100	N	700	N	700	N	N	N	N	
449	200	N	150	N	>2,000	N	>2,000	500	N	N	N	
450	200	200	100	N	>2,000	N	>2,000	N	N	N	N	
451	200	N	100	N	1,000	N	1,000	N	N	N	N	
452	300	N	200	N	>2,000	N	>2,000	N	N	N	N	
453	100	N	70	N	2,000	N	2,000	N	N	N	N	
454	150	N	100	N	>2,000	N	>2,000	N	N	N	N	
455	150	N	150	N	>2,000	N	>2,000	N	N	N	N	
456	200	N	150	N	>2,000	N	>2,000	N	N	N	N	
457	200	N	200	N	>2,000	N	>2,000	N	N	N	N	
458	200	N	100	N	>2,000	N	>2,000	N	N	N	N	
459	300	1,000	200	N	>2,000	N	>2,000	200	N	N	N	
460	200	N	100	N	>2,000	N	>2,000	N	N	N	N	
461	300	5,000	70	N	>2,000	N	>2,000	N	N	N	N	
462	150	N	100	N	1,500	N	1,500	N	N	N	N	
464	200	N	100	N	>2,000	N	>2,000	N	N	N	N	
465	200	N	100	N	>2,000	N	>2,000	N	N	N	N	
466	200	N	150	N	>2,000	N	>2,000	200	N	N	N	
467	200	N	20	N	2,000	N	2,000	N	N	N	N	
468	200	200	150	N	>2,000	N	>2,000	N	N	N	N	
469	200	500	150	N	>2,000	N	>2,000	N	N	N	N	
470	200	N	200	N	>2,000	N	>2,000	500	N	N	N	
471	200	N	200	N	>2,000	N	>2,000	N	N	N	N	
472	200	N	150	N	>2,000	N	>2,000	N	N	N	N	
473	300	N	300	N	>2,000	N	>2,000	N	N	N	N	
474	200	N	150	N	>2,000	N	>2,000	<200	N	N	N	
475	300	500	150	N	>2,000	N	>2,000	200	N	N	N	

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Kg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ba-ppm S	Be-ppm S
476	60 46 52	145 30 30	20.0	.30	1.50	>1.000	300	N	N	N	50	500	2
477	60 46 44	145 30 9	7.0	.70	5.00	>1.000	1,000	N	N	N	50	1,000	3
478	60 46 16	145 31 36	3.0	.70	1.50	1.000	700	N	N	N	100	1,500	2
479	60 45 40	145 31 32	10.0	.50	3.00	>1.000	700	N	N	N	500	500	2
480	60 45 32	145 31 17	15.0	.50	7.00	>1.000	1,500	N	N	N	100	500	2
481	60 48 21	145 9 25	20.0	1.00	7.00	>1.000	1,500	150.0	N	700	<20	5,000	3
482	60 47 59	145 8 44	50.0	.50	1.00	.700	300	10.0	1,500	N	100	700	2
483	60 48 46	145 17 7	50.0	.20	1.50	1.000	200	200.0	1,000	700	<20	700	2
484	60 46 35	145 18 19	50.0	.15	.50	.500	200	<1.0	1,000	N	150	200	<2
485	60 47 52	145 11 57	7.0	2.00	10.00	1.000	2,000	<1.0	>20,000	N	50	1,000	10
486	60 48 44	145 14 13	20.0	.50	1.50	>1.000	700	N	2,000	N	100	1,000	2
487	60 48 9	145 16 0	5.0	1.00	1.50	>1.000	1,000	N	N	N	50	1,000	2
488	60 47 14	145 21 53	20.0	.20	.30	>1.000	300	N	N	N	50	500	2
489	60 46 16	145 24 10	20.0	.50	2.00	>1.000	500	2.0	N	N	50	1,000	3
490	60 43 53	145 22 46	7.0	.70	5.00	.700	1,000	N	1,000	N	50	1,500	<2
491	60 44 12	145 22 6	20.0	.70	7.00	>1.000	1,000	N	N	N	30	>10,000	5
493	60 28 11	145 46 56	5.0	.70	5.00	1.000	1,000	N	N	N	70	2,000	5
494	60 27 39	145 53 22	5.0	.70	7.00	>1.000	1,000	N	N	N	70	150	<2
495	60 28 49	145 53 49	7.0	1.00	2.00	1.000	1,000	20.0	N	N	100	7,000	2
496	60 29 55	145 49 53	5.0	1.00	2.00	>1.000	1,000	N	N	N	70	3,000	2
497	60 29 8	146 4 11	5.0	.70	5.00	.500	700	N	N	N	70	1,000	2
498	60 24 37	146 10 52	2.0	.70	.70	.200	700	N	N	N	50	1,000	<2
499	60 24 37	146 10 52	5.0	.20	2.00	>1.000	500	N	N	N	70	500	2
500	60 32 51	146 2 43	2.0	.20	2.00	>1.000	1,000	N	N	N	70	500	2
501	60 29 59	146 5 28	2.0	.50	.70	.500	700	N	N	N	70	500	2
502	60 35 3	145 52 19	7.0	.50	.50	>1.000	500	N	N	N	50	5,000	2
503	60 31 54	145 54 19	7.0	1.00	1.00	.700	1,500	N	N	N	50	500	2
504	60 42 38	145 41 44	1.0	.20	1.50	>1.000	500	N	N	N	50	700	2
505	60 47 43	145 13 9	50.0	.20	1.00	1.000	200	5.0	500	N	20	200	<2
506	60 48 22	145 18 3	50.0	.20	1.00	1.000	200	7.0	500	N	<20	200	<2
507	60 46 37	145 18 15	50.0	.20	1.00	1.000	200	15.0	500	100	<20	300	<2
508	60 46 41	145 23 30	50.0	.20	1.00	>1.000	200	N	N	20	<20	1,000	<2
509	60 45 56	145 23 45	7.0	.50	1.00	1.000	500	N	N	N	20	700	2
510	60 44 59	145 16 53	10.0	.50	3.00	1.000	700	N	N	N	20	700	2
511	60 44 45	145 20 51	20.0	.20	1.50	.300	200	10.0	N	N	<20	500	<2
512	60 44 56	145 20 31	10.0	.20	.50	.700	200	N	N	N	20	500	<2
513	60 28 40	145 44 41	5.0	.50	1.00	.700	700	N	N	N	50	200	<2
514	60 27 4	145 50 24	3.0	.50	5.00	1.000	700	N	N	N	150	10,000	3
515	60 27 43	145 54 29	5.0	1.00	5.00	>1.000	1,000	N	N	N	100	1,500	3
518	60 22 51	146 13 23	10.0	1.00	5.00	>1.000	1,000	N	N	N	200	5,000	3
519	60 25 36	146 11 20	30.0	.20	1.00	.200	300	N	N	N	200	5,000	<2
520	60 32 55	146 1 6	2.0	.50	.70	.300	1,000	N	N	N	70	700	<2
521	60 29 36	146 8 55	1.0	.20	.50	.500	200	N	N	N	50	2,000	N
523	60 44 17	145 40 51	7.0	.50	1.50	>1.000	500	N	N	N	50	700	2
524	60 44 21	145 40 46	20.0	.30	2.00	>1.000	500	N	700	N	50	700	2

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Pi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sb-ppm S	Sc-ppm S	Sn-ppm S	Str-ppm S
476	<20	N	100	50	200	70	N	100	200	500	N	N	N	200
477	N	N	20	70	200	70	N	100	50	500	N	N	N	1,000
478	N	N	20	50	50	100	N	50	30	50	N	N	N	300
479	<20	N	100	50	300	70	N	100	150	200	N	N	N	200
480	20	N	100	100	300	70	N	100	150	200	N	N	N	200
481	50	N	150	200	700	100	N	100	200	2,000	N	20	N	500
482	30	N	200	70	2,000	70	N	50	300	1,500	N	20	N	<200
483	50	N	200	50	1,000	70	N	100	500	2,000	N	N	N	<200
484	30	N	200	N	300	70	N	50	300	500	N	N	N	<200
485	20	N	200	200	1,000	70	N	50	100	300	N	N	N	700
486	20	N	100	100	200	70	N	100	200	200	N	30	N	200
487	<20	N	20	50	50	70	N	100	50	N	N	N	N	200
488	30	N	150	100	500	70	N	50	200	500	N	N	N	<200
489	30	N	150	100	500	70	N	50	200	500	N	N	N	200
490	N	N	50	70	150	70	N	50	70	70	N	20	N	500
491	20	N	200	70	500	70	200	100	150	1,000	N	20	N	1,000
493	N	N	10	50	70	50	N	<50	50	N	N	N	N	500
494	N	N	15	50	70	50	N	N	N	N	N	--	N	500
495	N	N	70	50	200	50	N	50	100	20	N	N	N	500
496	N	N	20	100	70	50	N	<50	100	<20	N	N	N	300
497	N	N	20	100	70	50	N	<50	50	1,000	N	N	500	700
498	N	N	10	50	30	<50	N	<50	20	50	N	N	N	<200
499	N	N	10	50	50	20	N	50	20	<20	N	N	N	200
500	N	N	10	<20	10	50	N	50	10	<20	N	N	N	200
501	N	N	10	<20	10	50	N	<50	10	<20	N	N	N	<200
502	N	N	10	70	20	50	N	50	50	20	N	N	N	<200
503	N	50	10	70	70	50	N	50	50	<20	N	N	N	200
504	N	N	<10	<20	10	50	N	50	20	N	N	N	N	200
505	20	N	150	<20	200	50	N	50	200	500	N	N	N	N
506	20	N	150	20	200	50	N	50	200	500	N	N	N	N
507	20	N	200	<20	2,000	50	N	50	300	300	N	N	N	N
508	20	N	150	<20	150	50	N	50	200	200	N	N	N	N
509	<20	N	50	<20	100	50	N	<50	70	100	N	N	N	200
510	<20	N	150	30	300	50	N	50	150	100	N	N	N	<200
511	20	N	200	<20	1,000	50	N	50	300	500	N	N	N	200
512	20	N	70	<20	200	70	N	50	100	200	N	N	N	<200
513	N	N	20	30	30	50	N	<50	50	N	N	N	N	N
514	N	N	20	20	150	50	N	<50	50	200	N	N	N	700
515	N	N	20	1,000	50	50	N	50	70	70	N	N	N	700
518	<20	N	20	30	100	50	N	50	100	50	N	N	N	700
519	20	N	200	<20	200	50	N	50	300	20	N	N	N	200
520	N	N	10	<20	10	50	N	<50	20	<20	N	N	N	200
521	N	N	<10	<20	10	50	N	<50	N	<20	N	N	N	N
523	<20	N	10	<20	100	50	N	50	50	50	N	N	N	200
524	20	N	50	50	300	50	N	100	100	300	N	N	N	300

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
476	150	N	150	N	>2,000	N
477	300	N	150	N	>2,000	500
478	150	N	70	N	>2,000	<200
479	200	100	300	N	>2,000	<200
480	300	N	200	N	>2,000	<200
481	300	700	300	N	>2,000	500
482	150	200	100	N	2,000	N
483	150	N	200	N	>2,000	N
484	50	N	50	N	>2,000	N
485	500	<100	100	N	700	N
486	200	1,000	150	N	>2,000	<200
487	200	1,000	150	N	>2,000	200
488	150	N	100	N	>2,000	N
489	200	N	150	N	>2,000	N
490	200	700	100	N	>2,000	1,000
491	300	N	150	N	>2,000	N
493	200	N	70	N	>2,000	N
494	300	N	100	N	>2,000	N
495	200	N	50	N	2,000	N
496	200	N	50	N	>2,000	N
497	150	N	50	N	>2,000	N
498	50	N	20	N	2,000	N
499	150	N	150	N	>2,000	N
500	200	N	100	N	>2,000	N
501	100	N	<20	N	>2,000	N
502	200	N	150	N	>2,000	N
503	200	N	50	500	>2,000	N
504	150	N	100	N	>2,000	500
505	100	N	100	N	>2,000	N
506	150	N	100	N	>2,000	N
507	150	N	100	N	>2,000	N
508	150	N	150	N	>2,000	N
509	150	N	50	N	>2,000	N
510	150	1,000	100	N	>2,000	N
511	100	N	50	1,000	>2,000	<200
512	100	<100	30	700	>2,000	N
513	150	N	100	N	>2,000	N
514	200	N	100	500	>2,000	N
515	300	<100	100	N	>2,000	N
518	200	N	150	N	>2,000	200
519	50	N	30	700	1,000	N
520	150	N	20	N	>2,000	N
521	50	N	20	N	>2,000	N
523	150	N	50	N	>2,000	N
524	200	N	150	N	>2,000	300

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-ppt.	Mg-ppt.	Ca-ppt.	Tl-pct.	Mn-pptm	Ag-pptm	As-pptm	Au-pptm	B-pptm	Ba-pptm	Re-pptm
			S	S	S	S	S	S	S	S	S	S	S
525	60 42 15	145 48 32	2.0	.50	5.00	>1.000	500	N	N	N	500	700	3
526	60 42 12	145 45 12	2.0	.50	1.00	>1.000	500	N	N	N	70	700	2
527	60 55 31	145 10 46	30.0	.30	5.00	>1.000	500	5.0	N	N	100	700	2
528	60 56 42	145 11 6	30.0	.30	7.00	1.000	500	7.0	N	20	20	500	2
529	60 42 34	145 41 30	20.0	.50	2.00	>1.000	500	5.0	N	N	50	700	2
530	60 54 5	145 12 31	20.0	1.00	7.00	.300	1,000	3.0	N	N	700	300	<2
531	60 57 39	145 10 49	10.0	.70	5.00	.700	500	20.0	N	50	100	700	2
532	60 57 58	145 7 29	3.0	.50	2.00	>1.000	500	10.0	N	20	50	500	<2
533	60 58 16	145 4 6	5.0	1.00	2.00	1.000	700	50.0	N	200	50	500	<2
534	60 58 26	145 8 33	15.0	.50	5.00	>1.000	700	50.0	N	100	20	500	N
535	60 58 21	145 8 58	50.0	.70	2.00	.300	500	100.0	N	300	1,000	50	<2
536	60 58 25	145 9 15	20.0	.50	1.50	.500	300	N	N	N	200	500	N
537	60 59 41	145 16 40	30.0	.50	15.00	1.000	300	10.0	N	N	20	300	<2
538	60 59 38	145 16 44	30.0	1.00	7.00	>1.000	700	5.0	N	N	20	300	5
539	60 55 45	144 50 37	7.0	1.00	15.00	1.000	1,500	N	N	N	2,000	700	N
540	60 48 48	144 54 59	2.0	.50	1.50	1.000	200	100.0	N	200	50	500	<2
541	60 58 47	145 9 23	5.0	1.00	10.00	1.000	1,000	N	N	N	100	500	N
542	60 55 4	145 4 39	3.0	.50	5.00	.500	300	N	N	N	50	200	N
543	60 54 15	145 3 31	7.0	.50	2.00	1.000	300	2.0	1,000	N	200	300	N
544	60 54 29	144 53 8	3.0	1.00	2.00	>1.000	700	N	N	N	70	100	2
545	60 54 51	144 49 20	5.0	.50	3.00	.200	700	N	N	N	700	50	<2
546	60 49 33	144 50 59	3.0	.50	2.00	>1.000	700	N	N	N	200	700	2
547	60 57 18	145 18 59	10.0	.70	1.50	1.000	700	N	N	N	100	700	2
548	60 57 36	145 18 45	10.0	.50	7.00	>1.000	500	200.0	1,000	700	20	500	2
549	60 49 29	144 46 44	2.0	.50	5.00	1.000	500	N	N	N	500	700	3
550	60 42 7	144 55 9	20.0	.50	10.00	1.000	1,000	N	N	N	50	200	2
551	60 40 8	144 51 59	5.0	1.00	1.00	.500	1,000	N	N	N	50	1,000	2
552	60 40 54	144 48 4	7.0	1.00	10.00	.700	1,000	N	N	N	70	150	2
553	60 43 27	144 45 44	15.0	.70	7.00	.500	1,000	N	N	N	50	2,000	2
554	60 42 54	144 46 32	7.0	1.00	10.00	.500	1,500	N	N	N	70	200	2
555	60 32 44	145 26 58	3.0	.50	.50	1.000	1,000	N	N	N	50	1,000	2
556	60 34 20	145 18 14	3.0	.50	7.00	.300	1,000	N	N	N	1,000	1,000	5
557	60 36 34	145 14 7	2.0	.30	10.00	.700	1,000	N	N	N	70	150	2
558	60 33 21	145 13 42	3.0	.50	2.00	.500	1,000	N	N	N	100	3,000	2
559	60 34 59	145 14 18	3.0	.70	2.00	1.000	1,000	N	N	N	70	1,000	2
560	60 33 54	145 8 54	3.0	.70	1.00	.700	700	N	N	N	70	1,500	2
561	60 31 56	145 13 10	.7	.20	2.00	.200	500	N	N	N	100	1,000	2
562	60 56 3	144 50 2	3.0	.70	10.00	.500	1,000	N	N	N	200	700	2
563	60 55 4	144 54 12	5.0	1.00	5.00	>1.000	1,000	200.0	N	>1,000	70	N	2
564	60 55 1	144 53 11	10.0	.50	7.00	>1.000	700	N	N	N	100	N	2
565	60 48 33	144 55 30	5.0	.30	10.00	1.000	500	20.0	N	50	100	700	7
566	60 47 10	144 47 35	5.0	.20	10.00	1.000	500	50.0	N	200	100	500	7
567	60 46 39	144 45 24	5.0	.50	1.00	1.000	500	N	N	N	50	700	2
568	60 41 21	144 52 9	10.0	2.00	10.00	.500	2,000	N	N	N	70	150	<2
569	60 47 52	144 53 27	50.0	.50	2.00	.300	500	N	N	N	<20	100	<2

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sn-ppm	St-ppm
525	N	N	10	50	20	50	N	50	30	30	N	N	N	300
526	<20	N	10	20	20	50	N	100	20	<20	N	N	N	200
527	20	N	300	<20	2,000	100	N	100	200	70	N	N	N	<200
528	20	N	300	<20	1,000	50	N	50	150	50	N	N	N	<200
529	20	N	20	<20	200	50	N	70	50	100	N	N	N	200
530	20	N	200	150	500	150	N	50	150	150	N	N	N	200
531	20	N	100	100	100	70	N	50	100	500	N	N	N	200
532	N	N	10	50	<10	70	N	70	20	150	N	N	N	200
533	N	N	10	100	20	<50	N	50	50	200	N	N	N	200
534	20	N	150	50	300	<50	N	150	70	50	N	N	N	200
535	50	N	2,000	50	1,000	200	N	50	300	<20	N	N	N	N
536	20	N	1,500	50	1,000	100	N	50	300	<20	N	N	N	200
537	30	N	500	50	1,500	<50	N	50	200	1,000	N	N	N	<200
538	30	N	500	100	10,000	<50	N	100	200	300	N	N	N	200
539	<20	N	100	100	200	<50	N	100	50	20	N	N	N	200
540	N	N	10	100	20	N	N	50	20	<20	N	N	N	<200
541	N	N	20	100	300	70	N	50	50	<20	N	N	N	<200
542	N	N	70	N	100	N	N	<50	20	<20	N	N	N	200
543	<20	N	70	N	700	<50	N	50	50	500	N	N	N	<200
544	N	N	50	50	100	50	N	<50	50	<20	N	N	N	N
545	N	N	150	20	200	50	N	<50	50	<20	N	N	N	N
546	N	N	<10	100	20	50	N	50	50	100	N	N	N	700
547	N	N	150	100	2,000	200	N	<50	100	50	N	N	N	<200
548	N	N	200	20	200	50	N	100	100	<20	N	N	N	<200
549	N	N	<10	N	300	50	N	<50	10	200	N	N	N	<200
550	N	N	200	N	1,000	50	N	<50	100	50	N	N	N	<200
551	N	N	10	20	50	50	N	50	50	<20	N	N	N	500
552	N	N	100	100	500	50	N	<50	50	<20	N	N	N	300
553	N	N	200	50	700	50	N	50	70	50	N	N	N	300
554	N	N	10	100	700	50	N	<50	50	<20	N	N	N	300
555	N	N	10	20	70	50	N	70	20	50	N	N	N	500
556	N	N	10	20	50	50	N	<50	20	50	N	N	N	500
557	N	N	10	<20	30	20	N	<50	20	<20	N	N	N	500
558	N	N	10	<20	50	50	N	<50	20	20	N	N	N	500
559	N	N	10	<20	20	50	N	100	20	<20	N	N	N	500
560	N	N	10	<20	70	50	N	50	50	<20	N	N	N	500
561	N	N	10	<20	10	50	N	<50	20	N	N	N	N	200
562	N	N	10	100	200	50	N	<50	30	<20	N	N	N	200
563	N	N	10	100	200	50	N	<50	50	<20	N	N	N	N
564	N	N	50	<20	200	50	N	<50	100	N	N	N	N	N
565	N	N	200	<20	70	50	N	50	50	50	N	N	N	200
566	N	N	100	<20	50	50	N	50	50	<20	N	N	N	<200
567	N	N	100	<20	50	50	N	<50	100	<20	N	N	N	700
568	N	N	100	100	1,000	50	N	<50	100	<20	N	N	N	500
569	<20	N	150	50	1,500	50	N	50	500	<20	N	N	N	<200

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
 QUADRANGLES, ALASKA.--Continued

Sample	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
525	200	100	70	N	>2,000	N
526	200	N	100	N	>2,000	N
527	200	N	500	N	>2,000	N
528	70	N	150	N	>2,000	N
529	200	N	150	N	>2,000	<200
530	300	N	50	N	700	N
531	70	700	100	N	2,000	N
532	70	N	200	N	>2,000	N
533	200	200	100	N	>2,000	N
534	300	N	500	N	>2,000	N
535	200	N	20	N	700	N
536	100	N	30	N	2,000	N
537	100	N	100	N	>2,000	N
538	200	N	150	N	>2,000	N
539	300	N	150	N	>2,000	N
540	100	N	100	N	>2,000	N
541	300	N	150	N	>2,000	N
542	100	N	20	N	500	N
543	100	N	100	N	>2,000	N
544	200	N	50	N	500	N
545	150	N	<20	N	200	N
546	150	N	150	N	>2,000	N
547	200	N	50	N	1,500	N
548	150	N	200	N	>2,000	N
549	150	N	50	N	>2,000	N
550	200	500	20	N	500	N
551	200	N	30	N	>2,000	N
552	150	N	50	N	200	N
553	200	N	50	N	>2,000	N
554	200	N	20	N	1,000	N
555	200	N	100	N	>2,000	N
556	200	N	50	N	1,000	N
557	150	N	200	N	>2,000	N
558	150	N	100	N	>2,000	N
559	150	3,000	100	N	>2,000	N
560	150	3,000	100	N	>2,000	N
561	50	N	100	N	>2,000	N
562	200	N	50	N	>2,000	N
563	500	N	50	500	1,000	N
564	300	N	100	N	500	N
565	200	500	150	N	>2,000	N
566	150	700	150	N	>2,000	N
567	100	<100	200	N	>2,000	N
568	200	<100	20	N	700	N
569	150	N	<20	N	100	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-ppt.	Mg-ppt.	Ca-ppt.	Tl-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm	Be-ppm
			S	S	S	S	S	S	S	S	S	S	S
570	60 39 2	144 49 50	10.0	.70	5.00	1.000	1,000	N	N	N	70	1,000	2
571	60 42 33	144 46 35	10.0	.70	10.00	1.000	1,000	5.0	N	N	70	500	2
572	60 31 50	145 24 50	3.0	.50	2.00	>1.000	700	N	N	N	70	1,000	2
573	60 33 10	145 20 4	3.0	.70	2.00	.500	700	N	N	N	200	2,000	<2
574	60 36 41	145 14 54	2.0	.50	2.00	.500	700	N	N	N	70	1,500	5
575	60 33 26	145 15 30	7.0	.50	1.50	.700	700	N	10,000	N	70	2,000	5
576	60 33 21	145 11 58	2.0	.50	5.00	.700	700	N	N	N	100	1,500	3
577	60 33 49	145 10 45	2.0	1.00	5.00	1.000	700	N	N	N	70	1,500	5
578	60 34 3	145 8 4	2.0	.70	2.00	.700	700	N	N	N	70	1,500	<2
579	60 32 22	145 11 15	2.0	.50	1.50	1.000	700	N	500	N	50	700	2
580	60 40 5	145 13 32	2.0	.50	1.50	1.000	700	N	N	N	50	700	2
581	60 39 53	145 15 32	1.5	.20	2.00	.500	500	N	N	N	50	1,000	5
582	60 41 28	145 15 26	3.0	.30	.20	.300	500	N	N	N	50	700	2
583	60 39 19	145 19 45	20.0	.30	5.00	.300	500	N	N	N	30	200	2
584	60 22 36	146 24 43	5.0	.50	10.00	.300	700	N	N	N	2,000	10,000	2
585	60 22 24	146 36 17	2.0	.30	.20	.700	300	100.0	N	N	70	700	2
586	60 25 29	146 27 31	2.0	.30	.20	1.000	300	N	N	N	70	700	2
588	60 16 20	146 31 58	3.0	.30	.20	.500	300	N	N	N	50	700	2
589	60 32 50	145 9 19	2.0	.30	5.00	1.000	700	N	N	N	50	500	3
590	60 32 16	145 9 50	5.0	.50	5.00	1.000	1,000	N	N	N	50	1,000	5
591	60 38 53	145 15 58	1.5	.30	2.00	.500	500	N	N	N	50	1,000	3
592	60 40 5	145 16 5	2.0	.30	5.00	.500	1,000	N	1,000	N	50	700	3
593	60 41 39	145 13 49	2.0	.50	10.00	.500	1,000	N	N	N	50	700	3
594	60 39 54	145 19 35	2.0	1.00	10.00	.500	1,000	N	N	N	50	1,000	3
595	60 18 50	146 26 0	2.0	.50	1.00	.200	1,000	N	N	N	50	>10,000	3
596	60 25 14	146 37 15	20.0	.50	2.00	.700	500	N	N	N	50	500	2
597	60 23 23	146 33 28	2.0	.50	.50	.700	700	N	N	N	100	1,000	2
598	60 23 51	146 26 15	5.0	.30	1.00	>1.000	500	N	N	N	70	>10,000	2
599	60 42 8	145 15 8	2.0	.50	10.00	.700	1,000	N	N	N	70	2,000	5
600	60 40 34	145 21 22	5.0	.50	7.00	1.000	1,000	N	>20,000	N	70	1,000	2
601	60 43 38	145 26 8	10.0	1.50	15.00	1.000	1,000	N	N	N	70	200	2
602	60 44 26	144 14 16	.5	.20	3.00	.100	500	N	N	N	50	500	2
603	60 44 16	144 14 30	1.5	.30	2.00	.200	700	N	N	N	100	300	2
604	60 43 13	144 2 13	1.5	.07	7.00	.200	700	N	N	N	30	300	<2
605	60 42 12	144 6 31	1.5	.20	5.00	.500	500	N	N	N	500	700	2
606	60 42 46	144 6 26	1.5	.20	7.00	.200	700	N	N	N	100	500	2
607	60 42 15	144 10 12	5.0	.20	10.00	.500	1,000	N	N	N	500	500	2
608	60 42 52	145 16 34	2.0	.50	2.00	1.000	500	N	N	N	50	700	2
609	60 41 56	145 19 7	7.0	.20	2.00	>1.000	500	N	N	N	70	700	<2
610	60 38 40	145 21 45	20.0	.20	2.00	1.000	700	2.0	500	N	50	300	2
611	60 44 24	144 14 6	5.0	.30	1.50	1.000	1,000	N	N	N	100	300	2
612	60 43 31	144 14 6	3.0	.30	2.00	.500	700	N	N	N	200	200	<2
613	60 42 48	144 4 29	1.5	.10	20.00	.500	1,000	N	N	N	50	300	2
614	60 41 41	144 7 15	.7	.10	5.00	.300	500	N	N	N	200	300	2
615	60 42 10	144 7 34	2.0	.30	10.00	.700	1,000	N	N	N	200	300	2

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sn-ppm	Str-ppm
570	N	N	2,000	100	200	50	N	50	150	100	N	N	N	500
571	N	N	100	50	>20,000	50	N	<50	50	<20	N	N	N	500
572	N	N	20	50	500	50	N	100	20	<20	N	N	N	500
573	N	N	10	<20	200	50	N	<50	20	<20	N	N	N	700
574	N	N	10	<20	100	50	N	<50	20	<20	N	N	N	500
575	20	N	10	N	100	200	N	<50	200	100	N	N	N	500
576	N	N	150	N	100	50	N	<50	20	200	N	N	N	500
577	<20	N	10	50	50	50	N	<50	20	50	N	N	N	500
578	N	N	10	500	100	50	N	50	20	100	N	N	N	500
579	N	N	50	<20	20	N	N	50	20	50	N	N	N	200
580	N	N	<10	<20	20	N	N	50	20	50	N	N	N	200
581	N	N	<10	<20	20	N	N	<50	10	20	N	N	N	200
582	N	N	10	20	30	N	N	<50	50	20	N	N	N	200
583	N	N	100	<20	300	N	N	<50	150	30	N	N	N	<200
584	N	N	50	<20	100	70	N	<50	100	<20	N	N	N	500
585	N	N	10	<20	70	70	N	<50	50	<20	N	N	N	200
586	N	N	10	20	20	70	N	<50	30	20	N	N	N	200
588	N	N	10	20	50	70	N	<50	70	<20	N	N	N	<200
589	N	N	10	20	10	70	N	50	50	20	N	N	N	500
590	N	N	50	20	500	70	N	100	50	30	N	N	N	500
591	N	N	10	20	30	70	N	<50	10	150	N	N	N	300
592	N	N	10	30	30	70	N	<50	10	<20	N	N	N	300
593	N	N	10	30	20	70	N	<50	20	150	N	N	N	500
594	N	N	10	500	100	70	N	<50	200	<20	N	N	N	300
595	<20	N	50	20	300	70	N	<50	150	100	N	N	N	300
596	N	N	10	20	20	70	N	<50	10	<20	N	N	N	200
597	N	N	10	20	70	70	N	<50	30	<20	N	N	N	N
598	<20	N	10	20	20	70	100	<50	50	<20	N	N	N	3,000
599	N	N	10	20	20	70	N	<50	10	<20	N	N	N	200
600	<20	N	50	20	500	70	N	50	50	30	N	N	N	500
601	<20	N	200	50	1,000	70	N	<50	200	20	N	N	N	N
602	N	N	10	<20	30	70	N	<50	20	50	N	N	N	500
603	N	N	10	100	30	70	N	<50	20	<20	N	N	N	200
604	N	N	<10	20	30	50	N	<50	<10	<20	N	N	N	200
605	N	N	10	20	2,000	50	N	<50	20	20	N	N	N	200
606	N	N	10	50	30	50	N	<50	20	<20	N	N	N	700
607	N	N	10	50	50	50	N	<50	100	50	N	N	N	700
608	N	N	10	50	20	50	N	<50	20	<20	N	N	N	200
609	N	N	20	50	150	50	N	<50	70	500	N	N	N	200
610	N	N	200	50	2,000	200	N	<50	300	200	N	N	N	200
611	N	N	10	100	100	100	N	<50	100	50	N	N	N	300
612	N	N	10	50	50	300	N	<50	20	20	N	N	N	200
613	N	N	10	50	10	200	N	<50	50	20	N	N	N	500
614	N	N	20	20	10	50	N	<50	50	<20	N	N	N	500
615	N	N	10	<20	1,000	<50	N	<50	20	<20	N	N	N	500

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND
 QUADRANGLES, ALASKA.--Continued

Sample	V-ppm		W-ppm		Y-ppm		Zn-ppm		Zr-ppm		Th-ppm	
	S	N	S	N	S	N	S	N	S	N	S	N
570	200	N	N	100	N	>2,000	N	>2,000	N	>2,000	N	>2,000
571	200	N	N	20	N	>2,000	N	>2,000	N	>2,000	N	>2,000
572	200	N	N	150	N	1,000	N	1,000	N	1,000	N	1,000
573	150	N	N	50	N	>2,000	N	>2,000	N	>2,000	N	>2,000
574	150	1,000	N	50	N	>2,000	N	>2,000	N	>2,000	N	>2,000
575	150	300	N	200	N	>2,000	N	>2,000	N	>2,000	N	500
576	150	<100	N	100	N	>2,000	N	>2,000	N	>2,000	N	<200
577	150	100	N	100	N	>2,000	N	>2,000	N	>2,000	N	200
578	150	2,000	N	150	N	>2,000	N	>2,000	N	>2,000	N	200
579	150	500	N	100	N	>2,000	N	>2,000	N	>2,000	N	200
580	150	N	N	100	N	>2,000	N	>2,000	N	>2,000	N	>2,000
581	100	N	N	100	N	>2,000	N	>2,000	N	>2,000	N	>2,000
582	100	N	N	20	N	>2,000	N	>2,000	N	>2,000	N	>2,000
583	100	100	N	20	N	>2,000	N	>2,000	N	>2,000	N	>2,000
584	200	N	N	20	N	1,000	N	1,000	N	1,000	N	1,000
585	100	N	N	20	N	>2,000	N	>2,000	N	>2,000	N	>2,000
586	100	N	N	20	N	>2,000	N	>2,000	N	>2,000	N	>2,000
588	30	N	N	20	N	>2,000	N	>2,000	N	>2,000	N	>2,000
589	200	N	N	150	N	>2,000	N	>2,000	N	>2,000	N	>2,000
590	200	N	N	150	N	>2,000	N	>2,000	N	>2,000	N	>2,000
591	150	2,000	N	30	N	>2,000	N	>2,000	N	>2,000	N	>2,000
592	150	1,000	N	50	N	>2,000	N	>2,000	N	>2,000	N	>2,000
593	150	1,000	N	70	N	>2,000	N	>2,000	N	>2,000	N	>2,000
594	200	2,000	N	100	N	>2,000	N	>2,000	N	>2,000	N	200
595	150	N	N	20	N	>2,000	N	>2,000	N	>2,000	N	>2,000
596	100	N	N	20	N	1,000	N	1,000	N	1,000	N	1,000
597	200	N	N	50	N	>2,000	N	>2,000	N	>2,000	N	>2,000
598	200	N	N	150	N	>2,000	N	>2,000	N	>2,000	N	200
599	200	700	N	70	N	>2,000	N	>2,000	N	>2,000	N	>2,000
600	200	N	N	100	N	>2,000	N	>2,000	N	>2,000	N	<200
601	300	N	N	100	N	700	N	700	N	700	N	700
602	30	N	N	100	N	>2,000	N	>2,000	N	>2,000	N	>2,000
603	150	200	N	20	N	2,000	N	2,000	N	2,000	N	2,000
604	50	N	N	300	N	>2,000	N	>2,000	N	>2,000	N	>2,000
605	50	N	N	100	N	>2,000	N	>2,000	N	>2,000	N	>2,000
606	50	<100	N	150	N	>2,000	N	>2,000	N	>2,000	N	>2,000
607	50	<100	N	200	N	>2,000	N	>2,000	N	>2,000	N	>2,000
608	150	2,000	N	50	N	>2,000	N	>2,000	N	>2,000	N	<200
609	200	N	N	150	N	>2,000	N	>2,000	N	>2,000	N	500
610	150	100	N	100	N	>2,000	N	>2,000	N	>2,000	N	>2,000
611	100	<100	N	300	N	>2,000	N	>2,000	N	>2,000	N	>2,000
612	100	150	N	100	N	>2,000	N	>2,000	N	>2,000	N	>2,000
613	50	N	N	500	N	>2,000	N	>2,000	N	>2,000	N	>2,000
614	50	N	N	150	N	>2,000	N	>2,000	N	>2,000	N	700
615	100	N	N	150	N	>2,000	N	>2,000	N	>2,000	N	200

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	R-ppm S	Ba-ppm S	Re-ppm S
616	60 41 19	144 10 54	.7	.20	5.00	.150	1,000	N	N	N	100	300	<2
617	60 41 28	144 14 10	3.0	.20	10.00	.500	700	N	700	N	2,000	300	2
618	60 41 38	144 19 32	3.0	.20	3.00	.500	700	N	N	N	100	500	3
619	60 39 54	144 20 21	1.5	.30	3.00	.070	700	N	N	N	100	500	2
620	60 39 43	144 13 55	5.0	.30	5.00	.500	1,000	N	N	N	200	700	2
621	60 39 38	144 14 28	1.5	.20	3.00	.300	500	N	N	N	50	300	2
622	60 38 38	144 2 36	2.0	.30	3.00	.300	1,000	N	2,000	N	100	300	2
623	60 37 32	144 34 14	5.0	.30	3.00	>1.000	500	N	1,500	N	100	500	2
624	60 37 25	144 23 14	3.0	.70	10.00	1.000	1,000	N	N	N	700	1,000	3
625	60 36 55	144 20 31	5.0	.70	7.00	.700	1,000	N	N	<20	150	1,000	2
626	60 38 31	144 20 5	3.0	.70	10.00	.700	1,500	N	N	N	200	700	2
627	60 47 4	145 41 20	30.0	.30	5.00	>1.000	500	N	N	N	50	700	N
628	60 46 8	145 42 50	1.5	.50	10.00	.500	500	N	N	N	100	N	N
629	60 48 41	145 41 40	10.0	3.00	10.00	.700	2,000	1.0	N	N	70	700	N
630	60 51 24	145 44 35	7.0	.70	3.00	.700	2,000	N	N	N	150	700	3
631	60 52 30	145 50 0	15.0	2.00	3.00	>1.000	>10,000	N	N	N	100	1,500	<2
632	60 54 25	145 52 6	5.0	.70	10.00	>1.000	2,000	N	N	N	30	700	N
633	60 44 17	145 51 50	3.0	1.00	10.00	.700	1,000	N	N	N	50	1,000	2
634	60 42 46	145 54 33	1.5	.50	15.00	.500	500	N	N	N	100	700	<2
635	60 42 39	145 58 46	1.5	.50	15.00	.700	500	N	N	N	20	300	<2
636	60 41 12	146 7 2	2.0	.20	2.00	>1.000	1,500	N	N	N	50	150	N
637	60 41 34	144 17 2	5.0	.20	7.00	.700	1,000	N	5,000	N	100	300	N
638	60 39 40	144 16 14	1.5	.30	10.00	.500	1,000	N	N	N	100	300	2
639	60 39 23	144 9 54	1.5	.30	10.00	.500	1,000	N	N	N	100	700	2
640	60 39 2	144 7 38	3.0	.50	10.00	.700	1,000	N	N	N	150	700	<2
641	60 38 47	144 3 2	5.0	.70	7.00	.300	1,000	N	N	N	70	700	<2
642	60 37 15	144 33 38	10.0	1.00	15.00	>1.000	2,000	N	N	N	200	1,000	<2
643	60 37 12	144 25 55	1.5	.50	15.00	.500	1,000	N	N	N	500	500	2
644	60 37 40	144 22 59	5.0	1.50	7.00	>1.000	2,000	N	N	N	70	1,000	2
645	60 38 51	144 20 18	3.0	1.00	15.00	.300	3,000	5.0	N	N	150	700	2
646	59 55 44	144 24 56	5.0	1.00	10.00	.500	1,500	N	N	N	150	1,500	2
647	59 57 48	144 17 23	20.0	.30	1.50	.300	1,500	3.0	N	N	50	>10,000	N
648	60 42 58	145 29 22	7.0	7.00	15.00	.500	1,500	N	N	N	150	100	N
649	60 46 27	145 41 15	20.0	.50	3.00	1.000	700	5.0	N	N	150	300	N
650	60 48 23	145 41 41	10.0	3.00	10.00	.700	2,000	N	N	N	50	200	N
651	60 45 51	145 45 50	5.0	2.00	15.00	1.000	1,500	N	N	N	70	70	<2
652	60 52 21	145 47 11	10.0	1.50	3.00	>1.000	>10,000	N	1,500	N	150	700	N
654	60 54 51	145 52 52	10.0	2.00	10.00	>1.000	700	2.0	N	N	70	300	N
655	60 44 22	145 51 59	2.0	.70	15.00	.700	500	N	N	N	50	N	<2
656	60 42 38	145 50 56	5.0	3.00	15.00	>1.000	1,500	N	N	N	70	300	N
657	60 42 36	145 50 39	7.0	5.00	10.00	.700	1,500	N	N	N	50	300	N
658	60 43 57	145 54 27	5.0	1.50	15.00	>1.000	2,000	N	N	N	150	700	N
659	60 43 25	145 56 15	5.0	1.00	15.00	>1.000	1,500	N	N	N	500	700	N
660	60 41 21	146 6 46	3.0	.50	10.00	>1.000	1,000	N	N	N	50	500	N
661	60 53 12	145 54 27	5.0	.50	7.00	>1.000	2,000	5.0	15,000	N	700	500	2

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND HIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sn-ppm	St-ppm
616	20	N	<10	<20	10	<50	N	<50	20	<20	N	N	N	200
617	N	N	100	20	1,500	<50	N	<50	70	<20	N	N	N	500
618	N	N	10	20	<10	50	N	<50	50	<20	N	N	N	500
619	N	N	10	20	10	50	N	<50	20	<20	N	N	N	500
620	200	N	10	20	70	50	N	<50	50	<20	N	N	N	500
621	N	N	10	20	70	50	N	<50	20	<20	N	N	N	200
622	<20	N	15	20	20	50	N	<50	30	100	N	N	N	200
623	<20	N	10	20	100	50	N	50	50	100	N	N	N	200
624	N	N	10	N	70	50	N	N	N	10	N	10	N	500
625	N	N	50	20	100	N	N	N	N	20	N	10	N	700
626	N	N	15	30	50	50	N	N	N	N	N	10	N	1,000
627	N	N	300	200	1,000	N	N	<50	500	200	N	N	N	N
628	N	N	N	70	20	N	N	N	N	N	N	N	N	N
629	N	N	100	200	2,000	N	N	N	150	70	N	N	N	300
630	N	N	150	150	300	50	N	N	70	N	N	N	N	N
631	150	N	30	200	1,500	50	N	N	100	70	N	N	N	N
632	N	N	20	50	50	500	N	150	N	N	N	N	N	300
633	N	N	10	70	700	700	N	N	N	N	N	N	N	N
634	N	N	<10	20	20	50	N	N	N	N	N	N	N	N
635	N	N	<10	N	15	50	N	N	N	N	N	N	N	N
636	N	N	N	N	70	1,500	50	150	N	200	N	N	N	N
637	N	N	500	N	200	300	N	N	300	N	N	100	N	200
638	N	N	10	N	30	100	N	N	N	N	N	10	N	500
639	30	N	<10	N	30	50	N	N	N	N	N	10	N	500
640	30	N	<10	N	50	50	N	N	N	N	N	10	N	700
641	N	N	10	N	70	N	N	N	N	20	N	<10	N	700
642	N	N	20	100	500	150	N	70	50	70	N	10	N	700
643	N	N	15	20	200	700	N	N	N	N	N	30	N	200
644	N	N	20	150	70	200	N	50	N	N	N	15	N	500
645	N	N	15	50	50	150	N	N	N	N	N	15	N	700
646	N	N	20	70	70	50	N	N	50	20	N	15	N	500
647	N	N	50	100	500	N	100	N	300	100	N	N	N	7,000
648	N	N	70	1,500	100	N	N	N	200	100	N	N	N	N
649	N	N	150	100	700	200	N	N	200	150	N	N	N	300
650	N	N	30	300	100	N	N	N	150	70	N	N	N	300
651	N	N	10	150	50	1,000	N	N	N	N	N	N	N	N
652	N	N	200	150	300	500	N	N	100	N	N	N	N	N
654	N	N	150	150	1,000	300	N	70	100	N	N	N	N	300
655	N	N	N	100	20	50	N	N	N	N	N	N	N	N
656	N	N	20	200	50	500	N	<50	150	N	N	N	100	700
657	N	N	30	500	70	50	N	N	200	N	N	N	N	500
658	N	N	20	50	200	700	N	N	50	N	N	N	N	N
659	N	N	20	50	300	1,500	N	N	50	N	N	N	N	N
660	300	N	10	<20	10	2,000	N	150	150	150	N	N	>2,000	N
661	100	N	200	70	100	N	N	<50	200	500	N	20	N	<200

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	V-ppm S	N-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
616	50	1,500	50	N	>2,000	<200
617	100	N	200	N	>2,000	1,000
618	100	N	200	N	>2,000	N
619	100	<100	20	N	>2,000	N
620	150	N	200	N	>2,000	500
621	50	N	100	N	>2,000	<200
622	150	2,000	50	N	>2,000	N
623	150	N	150	N	>2,000	N
624	300	700	70	N	>2,000	N
625	300	2,000	50	N	>2,000	N
626	200	100	50	N	>2,000	N
627	200	N	150	N	>2,000	200
628	500	N	50	N	>2,000	N
629	500	N	70	N	1,500	N
630	500	N	70	1,500	2,000	N
631	500	1,000	300	N	2,000	N
632	500	100	300	N	>2,000	200
633	500	N	50	N	>2,000	N
634	300	N	100	N	>2,000	300
635	300	100	100	N	>2,000	N
636	100	700	2,000	N	>2,000	>5,000
637	150	500	500	N	>2,000	N
638	150	700	70	N	>2,000	1,000
639	150	1,500	100	N	>2,000	N
640	200	700	150	N	>2,000	N
641	200	1,000	50	N	>2,000	N
642	500	2,000	100	N	>2,000	N
643	300	N	200	N	>2,000	N
644	300	1,500	100	N	>2,000	2,000
645	200	N	50	N	>2,000	N
646	300	N	70	N	>2,000	N
647	100	N	20	7,000	>2,000	N
648	500	<100	50	N	>2,000	200
649	200	N	100	N	>2,000	N
650	700	N	70	N	1,000	N
651	700	N	150	N	>2,000	200
652	300	700	300	N	>2,000	N
654	500	500	200	N	>2,000	N
655	700	N	50	N	>2,000	N
656	500	N	150	N	>2,000	300
657	700	N	50	N	>2,000	N
658	300	N	500	N	>2,000	N
659	300	N	500	N	>2,000	500
660	300	1,000	700	N	>2,000	2,000
661	150	700	200	N	>2,000	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ba-ppm S	Be-ppm S
662	60 53 12	145 55 56	7.0	.20	7.00	>1.000	500	100.0	15,000	200	200	200	2
663	60 53 14	145 56 2	2.0	.20	7.00	>1.000	700	1.0	5,000	N	100	150	2
664	60 54 12	145 58 3	1.5	.20	5.00	>1.000	500	20.0	1,000	100	100	100	2
665	60 54 13	145 57 54	2.0	.20	7.00	>1.000	300	N	3,000	N	50	700	2
666	60 53 9	145 59 47	1.5	.30	7.00	1.000	500	N	2,000	N	70	200	3
667	60 51 23	145 53 48	1.0	.20	5.00	.700	500	N	N	N	50	150	<2
668	60 51 27	145 53 41	1.0	.20	5.00	1.000	500	N	2,000	N	200	150	2
669	60 52 13	145 57 47	1.5	.20	3.00	.500	500	N	N	N	50	150	<2
670	60 51 28	146 0 2	1.0	.20	7.00	>1.000	700	20.0	1,500	700	700	200	2
671	60 48 52	146 3 7	1.0	.20	.30	.200	700	N	1,000	N	100	150	<2
672	60 48 53	146 5 35	.7	.15	5.00	.200	700	20.0	N	N	70	100	7
673	60 55 27	146 12 0	3.0	.20	1.00	.700	300	3.0	1,500	N	500	150	N
674	60 55 18	146 6 3	5.0	.15	1.50	1.000	200	5.0	20,000	<20	<20	150	<2
675	60 57 26	146 12 14	3.0	.15	3.00	>1.000	500	2.0	20,000	N	20	150	<2
677	60 53 47	146 4 23	2.0	.10	5.00	.700	500	1.5	20,000	N	20	150	<2
678	60 39 52	146 5 49	1.5	.20	5.00	.500	500	N	3,000	N	50	500	3
679	60 39 30	146 8 49	1.0	.50	7.00	.150	500	N	<500	N	1,500	<50	<2
680	60 38 47	146 10 33	1.5	.20	2.00	.500	300	10.0	7,000	N	150	500	N
681	60 37 34	145 58 22	3.0	.20	3.00	>1.000	500	N	5,000	N	300	200	<2
682	60 38 39	145 55 47	2.0	<.05	1.00	>1.000	500	N	N	N	100	>10,000	N
685	60 40 43	146 0 15	1.0	.15	3.00	.300	500	N	N	N	500	70	2
687	60 39 18	146 15 11	1.5	.70	.30	.700	200	N	N	N	50	500	<2
689	60 41 49	146 9 16	.5	.10	.10	.200	100	N	1,000	N	30	500	<2
690	60 42 37	146 5 4	.5	.15	.70	.300	150	N	N	N	20	700	<2
691	60 42 33	146 4 6	1.5	.15	1.00	>1.000	300	1.0	10,000	N	30	1,000	<2
692	60 44 9	146 3 5	.7	.20	1.00	.300	500	N	N	N	30	700	<2
693	60 44 38	145 59 3	1.0	.30	2.00	.500	500	N	N	N	50	700	<2
694	60 45 24	146 2 11	1.0	.20	1.50	.500	700	N	N	N	30	500	<2
695	60 48 2	146 1 52	1.5	.30	1.00	.300	200	N	500	N	30	700	<2
696	60 45 37	146 5 28	1.0	.20	.30	.300	200	N	<500	N	50	300	<2
697	60 44 44	146 8 6	1.0	.20	.20	.300	200	N	700	N	50	300	N
698	60 43 53	146 13 40	1.5	.30	2.00	.500	200	<1.0	N	N	500	1,000	<2
699	60 43 2	146 14 33	1.0	.20	.50	.700	200	N	N	N	50	1,000	<2
700	60 45 44	146 17 30	1.0	.30	3.00	.500	200	50.0	2,000	50	500	700	<2
701	60 46 46	146 16 5	1.5	.50	3.00	.300	300	N	5,000	N	50	700	<2
702	60 46 4	146 18 50	2.0	1.50	2.00	.500	500	N	N	N	20	500	N
703	60 45 28	146 19 41	5.0	.70	2.00	1.000	300	5.0	N	<20	700	500	N
704	60 43 34	146 41 6	1.5	.30	.50	.500	500	N	N	N	20	500	N
705	60 41 28	146 39 2	1.5	.20	.50	.500	700	N	N	N	30	500	N
706	60 42 48	146 30 52	.7	.20	.20	>1.000	200	N	N	N	20	300	N
707	60 41 46	146 29 23	1.0	.20	.20	.700	500	N	N	N	30	300	N
708	60 46 42	145 54 42	1.0	.30	5.00	.300	500	N	700	N	150	500	<2
709	60 47 17	145 54 17	1.0	.20	5.00	.300	700	N	500	N	300	500	3
710	60 51 32	146 31 41	3.0	1.00	3.00	.200	1,000	5.0	700	N	20	200	N
711	60 51 1	146 31 7	2.0	1.00	3.00	.300	1,500	N	700	N	200	500	<2

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sn-ppm	Si-ppm
662	100	N	200	50	150	100	N	50	150	100	N	20	20	<200
663	N	N	100	70	15	100	N	70	100	<20	N	20	20	<200
664	N	N	70	20	<50	<50	N	50	N	20	N	30	N	<200
665	N	N	100	20	10	N	N	50	50	20	N	30	N	<200
666	20	N	15	30	50	N	N	<50	N	20	N	20	N	<200
667	N	N	15	50	10	N	N	<50	N	20	N	<10	N	N
668	70	N	70	50	10	N	N	<50	20	20	N	10	N	N
669	N	N	20	50	15	N	N	N	20	20	N	10	N	N
670	N	N	20	30	10	N	20	70	N	<20	N	15	N	N
671	N	N	N	70	<10	N	N	N	N	<20	N	N	N	N
672	N	N	N	<20	10	N	N	N	N	<20	N	N	N	<200
673	N	N	100	20	150	N	N	N	30	200	N	15	N	<200
674	<20	N	500	100	20	<50	N	50	500	300	N	20	N	<200
675	N	N	20	20	<10	200	<10	150	N	200	N	15	N	<200
677	70	N	150	<20	10	N	N	N	150	100	N	20	N	N
678	N	N	50	<20	50	N	N	N	N	N	N	N	N	N
679	N	N	<10	50	15	N	N	N	20	N	N	<10	N	N
680	<20	N	150	20	<10	N	N	N	50	1,000	N	20	70	<200
681	N	N	30	30	30	N	N	100	30	150	N	20	300	<200
682	N	N	N	50	<10	N	N	<50	N	200	N	N	N	1,500
685	N	N	N	20	<10	N	N	N	N	N	N	15	N	N
687	N	N	15	200	10	N	N	<50	20	<20	N	15	<20	<200
689	N	N	N	20	<10	100	N	<50	N	100	N	N	700	N
690	N	N	N	50	<10	150	N	<50	N	50	N	N	30	200
691	N	N	30	20	20	300	N	50	20	300	N	15	30	200
692	N	N	15	50	20	N	N	N	10	30	N	<10	<20	200
693	N	N	<10	30	<10	100	N	N	15	30	N	10	20	200
694	N	N	<10	50	10	N	<10	<50	50	700	N	<20	<20	300
695	N	N	<10	20	15	N	N	N	15	50	N	N	70	200
696	N	N	N	150	<10	N	N	N	10	30	N	N	N	<200
697	N	N	<10	100	<10	N	N	N	N	N	N	20	N	<200
698	N	N	10	50	15	100	N	<50	20	50	N	N	<20	200
699	N	N	<10	20	<10	70	N	<50	<10	30	N	N	N	300
700	<20	N	<10	300	10	N	N	N	15	2,000	N	N	50	200
701	N	N	<10	150	10	200	N	N	15	30	N	10	N	200
702	N	N	20	150	20	N	N	N	30	50	N	15	N	200
703	N	N	70	150	30	N	N	<50	70	200	N	15	N	<200
704	N	N	10	150	70	N	N	N	15	150	N	N	200	<200
705	N	N	20	50	10	N	N	N	20	N	N	10	20	<200
706	N	N	N	50	N	70	N	<50	N	50	N	20	N	<200
707	N	N	<10	70	<10	N	N	N	N	20	N	10	N	<200
708	N	N	N	100	<10	200	N	N	20	<20	N	20	20	<200
709	N	N	N	30	10	N	N	N	N	<20	N	N	N	<200
710	N	N	50	100	7,000	N	N	N	70	700	N	20	1,500	200
711	N	N	20	50	300	N	N	N	30	<20	N	10	30	200

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
662	150	700	200	N	>2,000	<200
663	150	500	300	N	>2,000	N
664	200	500	500	N	>2,000	N
665	150	500	500	N	>2,000	<200
666	150	500	300	N	>2,000	<200
667	150	500	200	N	>2,000	N
668	100	1,000	200	N	>2,000	200
669	100	500	200	N	>2,000	N
670	150	300	300	N	>2,000	N
671	100	700	50	N	2,000	N
672	100	150	20	N	2,000	N
673	100	<100	150	N	>2,000	N
674	100	1,000	300	N	>2,000	200
675	150	200	200	N	>2,000	300
677	100	700	200	N	>2,000	200
678	100	200	70	N	>2,000	N
679	100	300	20	N	1,000	N
680	100	200	200	N	>2,000	<200
681	150	N	150	N	>2,000	N
682	200	300	200	N	>2,000	N
685	150	N	150	N	>2,000	<200
687	100	N	50	N	>2,000	<200
689	20	200	150	N	>2,000	500
690	20	200	100	N	>2,000	300
691	30	200	150	N	>2,000	700
692	50	N	50	N	>2,000	N
693	50	N	50	N	>2,000	<200
694	50	N	50	N	>2,000	N
695	50	N	20	N	1,500	N
696	70	N	20	N	>2,000	N
697	70	200	30	N	>2,000	N
698	70	N	30	N	>2,000	N
699	50	N	50	N	>2,000	N
700	50	N	30	N	2,000	N
701	70	150	30	N	1,000	N
702	100	N	30	N	1,000	N
703	70	N	70	N	>2,000	200
704	50	N	30	N	>2,000	N
705	70	N	20	N	2,000	N
706	50	N	100	N	>2,000	N
707	70	N	50	N	>2,000	N
708	150	N	70	N	>2,000	200
709	100	200	50	N	2,000	N
710	150	N	50	N	200	N
711	100	N	50	N	700	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND HIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-pptm S	Ag-pptm S	As-pptm S	Au-pptm S	B-pptm S	Ba-pptm S	Be-pptm S
712	60 50 47	146 31 57	2.0	.70	3.00	.200	700	1.5	N	N	20	200	N
713	60 42 59	146 37 21	1.0	.20	.15	.300	500	N	N	N	30	500	<2
714	60 43 38	146 33 25	1.0	.30	.15	1.000	500	N	N	N	30	500	<2
715	60 43 52	146 31 12	1.5	.30	.20	1.000	500	N	N	N	20	500	N
716	60 44 13	146 29 24	1.0	.20	.10	.500	500	N	N	N	30	500	N
717	60 46 14	146 27 55	2.0	.70	2.00	.500	700	N	N	N	30	200	<2
718	60 47 8	146 21 15	3.0	.30	.50	.200	500	<1.0	N	N	20	500	N
719	60 47 31	146 19 13	2.0	.70	2.00	.700	500	N	N	N	30	300	N
720	60 48 36	146 15 25	5.0	.30	1.00	.200	200	1.0	N	N	200	500	<2
721	60 50 48	146 11 42	1.0	.30	.70	1.000	300	N	N	N	20	200	<2
722	60 53 42	146 17 28	1.5	.20	1.50	>1.000	300	7.0	700	20	20	300	N
723	60 54 32	146 15 19	2.0	.50	1.00	.700	500	30.0	2,000	50	20	500	<2
724	60 53 30	146 15 25	.7	.20	1.50	>1.000	300	N	N	N	30	200	<2
725	60 53 34	146 13 58	1.0	.50	.50	.500	300	N	N	N	20	500	<2
726	60 51 18	146 16 18	1.5	.30	.70	>1.000	500	5.0	700	N	20	200	N
727	60 52 6	146 10 25	3.0	1.00	1.50	>1.000	300	N	N	N	20	200	N
728	60 50 0	146 18 41	2.0	.50	1.00	.500	200	N	1,000	N	50	500	<2
729	60 54 47	146 24 18	2.0	.50	1.00	>1.000	200	2.0	2,000	N	30	200	N
730	60 50 16	146 24 25	2.0	.70	.50	.500	200	N	1,000	N	30	200	N
731	60 53 59	146 25 59	2.0	.30	1.00	>1.000	1,000	100.0	7,000	70	200	150	N
732	60 48 54	146 29 41	2.0	.20	.70	>1.000	200	N	1,500	N	50	100	N
733	60 49 57	146 33 12	1.5	.30	1.00	1.000	200	1.0	N	N	50	700	N
734	60 53 42	146 26 5	.7	.20	.70	.500	150	N	N	N	20	200	<2
735	60 53 1	146 21 24	.7	.20	2.00	1.000	200	N	N	N	20	300	<2
736	60 56 26	146 18 5	1.5	.20	1.50	>1.000	200	200.0	1,500	200	30	500	N
737	60 54 44	146 19 6	1.0	.20	1.50	>1.000	200	5.0	700	N	20	500	N
738	60 56 28	145 55 25	7.0	.10	1.50	>1.000	150	50.0	>20,000	N	20	70	N
739	60 57 19	146 4 57	30.0	.10	.20	.300	50	15.0	20,000	N	N	70	N
740	60 57 17	146 4 38	7.0	.10	.50	1.000	100	50.0	>20,000	<20	20	100	N
741	60 58 2	146 4 22	10.0	.20	7.00	1.000	150	10.0	7,000	N	20	70	N
742	60 56 43	146 12 52	2.0	.20	1.00	>1.000	200	N	3,000	N	30	500	N
743	60 56 39	146 55 57	2.0	.70	.50	1.000	200	N	700	N	30	500	N
744	60 57 2	145 8 29	1.0	.30	1.00	.700	150	N	N	N	200	500	N
745	60 57 2	145 8 47	1.5	.50	2.00	>1.000	200	7.0	N	N	200	700	N
746	60 57 2	145 8 18	1.0	.50	2.00	1.000	300	N	N	N	200	1,000	<2
747	60 54 10	145 0 20	10.0	.20	2.00	>1.000	150	2.0	1,000	N	50	300	N
748	60 54 31	145 8 20	1.5	.50	1.50	.700	150	N	N	N	200	200	N
749	60 54 59	145 5 37	2.0	.30	2.00	1.000	300	N	N	N	30	300	<2
751	60 53 48	145 6 25	10.0	.30	2.00	>1.000	150	15.0	N	<20	200	200	N
752	60 51 35	145 12 42	1.5	.70	1.50	1.000	300	N	1,000	N	70	1,000	N
753	60 51 35	145 12 57	5.0	1.00	.70	1.000	500	N	N	N	50	300	N
754	60 58 47	145 20 26	2.0	.70	5.00	>1.000	300	1.0	N	N	500	700	N
755	60 55 54	145 27 10	1.5	.70	7.00	.150	200	N	N	N	1,500	<50	N
756	60 57 15	145 16 51	7.0	.30	5.00	>1.000	300	<1.0	N	N	70	700	<2
757	60 56 45	145 16 50	2.0	.70	3.00	>1.000	200	2.0	N	N	70	1,500	<2

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Ba-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sn-ppm	Si-ppm
712	N	N	20	150	1,500	N	N	N	30	<20	N	15	20	200
713	N	N	<10	300	10	N	N	<50	<10	300	N	N	N	<200
714	N	N	<10	70	10	N	N	<50	N	20	N	<10	N	200
715	N	N	10	70	10	N	N	<50	15	20	N	10	200	200
716	N	N	<10	100	<10	N	N	N	10	500	N	<10	N	200
717	N	N	30	100	10	N	N	N	50	20	N	10	N	200
718	N	N	70	500	300	N	N	N	70	500	N	N	<20	200
719	N	N	70	150	200	N	N	<50	30	200	N	15	30	200
720	N	N	20	20	50	N	N	<20	30	<20	N	N	N	200
721	N	N	10	200	<10	N	N	<50	<10	<20	N	<10	N	200
722	<20	N	15	300	30	150	<10	70	15	200	N	10	30	200
723	N	N	30	2,000	30	N	N	N	50	1,000	N	10	N	200
724	N	N	10	300	<10	200	10	70	N	<20	N	10	50	200
725	N	N	<10	500	30	N	N	N	15	N	N	N	N	200
726	20	N	20	700	20	50	N	50	30	300	N	<10	20	200
727	N	N	50	10,000	<10	200	N	50	100	N	N	10	20	200
728	N	N	70	3,000	20	<50	N	<50	30	20	N	N	20	200
729	<20	N	70	7,000	15	N	N	<50	50	300	N	10	<20	200
730	N	N	50	10,000	10	N	N	<50	100	N	N	N	N	200
731	20	N	50	2,000	15	N	N	<50	20	300	N	10	20	200
732	N	N	10	200	15	N	N	<50	20	200	N	<10	500	<200
733	N	N	15	100	200	N	N	<50	20	70	N	<10	<20	200
734	N	N	N	20	70	N	<10	N	N	30	N	N	N	200
735	N	N	<10	20	200	100	N	50	N	100	N	<10	70	300
736	<20	N	<10	100	20	100	N	<50	N	700	N	30	50	200
737	20	N	50	20	10	150	N	50	15	500	N	15	20	300
738	70	N	200	30	20	200	N	50	100	2,000	N	10	<20	<200
739	N	N	700	<20	300	N	N	N	200	700	N	N	N	N
740	100	N	200	20	30	N	N	<50	100	1,500	N	10	N	<200
741	<20	N	500	50	500	50	N	50	100	700	N	N	N	<200
742	N	N	15	100	10	N	N	50	15	50	N	15	200	200
743	N	N	15	150	15	N	N	<50	30	20	N	<10	<20	<200
744	<20	N	10	150	100	N	N	N	N	20	N	<10	N	300
745	N	N	15	70	15	<50	N	50	N	200	N	15	20	200
746	<20	N	15	100	50	70	N	<50	20	30	N	20	20	500
747	N	N	300	30	200	N	N	<50	100	150	N	10	N	<200
748	N	N	50	70	150	N	N	<50	20	20	N	15	N	200
749	N	N	50	50	20	N	N	<50	15	100	N	10	N	200
751	N	N	300	70	100	70	N	50	100	200	N	20	<20	200
752	N	N	50	100	150	50	N	<50	30	70	N	20	<20	500
753	N	N	70	150	30	N	N	<50	30	20	N	20	N	200
754	N	N	70	150	500	70	N	70	30	100	N	20	50	300
755	N	N	20	50	150	N	N	N	20	<20	N	15	N	N
756	N	N	300	100	1,000	<50	10	50	100	50	N	20	<20	200
757	<20	N	20	100	1,500	100	N	50	20	200	N	20	20	500

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
712	150	N	30	N	1,000	N
713	70	N	20	N	1,000	<200
714	100	N	70	N	>2,000	<200
715	100	N	50	N	>2,000	N
716	70	N	30	N	>2,000	N
717	100	100	30	N	>2,000	N
718	70	N	30	N	2,000	N
719	150	<100	70	N	>2,000	N
720	70	<100	30	N	>2,000	N
721	100	N	50	N	>2,000	N
722	100	100	150	N	>2,000	<200
723	100	100	100	N	>2,000	<200
724	100	300	200	N	>2,000	200
725	70	100	50	N	>2,000	N
726	70	N	150	N	>2,000	<200
727	150	150	150	N	>2,000	<200
728	100	300	70	N	>2,000	<200
729	100	<100	100	N	>2,000	<200
730	100	150	50	N	>2,000	<200
731	70	300	200	N	>2,000	<200
732	70	200	100	N	>2,000	<200
733	70	N	50	N	>2,000	N
734	50	N	30	N	>2,000	N
735	100	300	150	N	>2,000	N
736	100	N	300	N	>2,000	N
737	70	<100	200	N	>2,000	<200
738	70	100	300	N	>2,000	300
739	20	N	70	N	>2,000	N
740	30	<100	150	N	>2,000	200
741	70	200	200	1,000	>2,000	<200
742	70	N	200	N	>2,000	<200
743	100	N	70	N	>2,000	N
744	100	N	70	N	>2,000	N
745	100	N	100	N	>2,000	N
746	100	N	100	N	>2,000	N
747	70	N	150	N	>2,000	N
748	100	N	70	N	>2,000	N
749	100	N	100	N	>2,000	N
751	70	N	200	N	>2,000	<200
752	100	N	100	N	>2,000	N
753	200	N	50	N	>2,000	N
754	100	N	200	N	700	N
755	100	N	<20	N	30	N
756	70	150	200	N	>2,000	N
757	100	N	100	N	>2,000	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	R-ppm S	Ba-ppm S	Be-ppm S
758	60 56 26	145 16 52	2.0	.70	1.50	1.000	300	2.0	N	N	70	1,000	N
759	60 55 54	145 16 36	3.0	.30	3.00	>1.000	300	1.0	N	N	150	200	N
760	60 54 46	145 16 17	1.5	.30	5.00	>1.000	200	7.0	N	20	70	700	N
761	60 54 23	145 17 36	5.0	.70	2.00	.300	200	<1.0	N	N	150	<50	N
762	60 55 10	145 18 9	15.0	1.50	1.50	.300	500	<1.0	N	N	50	N	N
763	60 56 41	145 18 37	2.0	.50	5.00	1.000	300	N	N	N	300	200	N
764	60 56 7	145 18 33	3.0	1.50	7.00	.200	300	<1.0	N	N	300	<50	N
765	60 59 52	145 21 39	1.0	.50	3.00	>1.000	200	N	N	N	50	300	N
766	60 57 28	145 25 46	1.0	.30	2.00	1.000	200	N	N	N	70	500	N
767	60 58 47	145 25 27	2.0	.30	1.50	.700	200	N	N	N	150	500	N
768	60 58 11	145 27 14	2.0	.30	2.00	>1.000	200	N	N	N	100	500	N
769	60 57 59	145 27 9	10.0	.30	2.00	>1.000	200	100.0	N	200	300	200	N
770	60 56 24	145 28 54	5.0	2.00	5.00	1.000	500	N	N	N	200	300	N
771	60 56 32	145 29 1	2.0	1.00	5.00	>1.000	500	2.0	N	N	20	3,000	N
772	60 57 26	145 24 10	20.0	.15	.50	.500	70	2.0	N	N	<20	<50	N
773	60 57 14	145 24 43	2.0	.70	3.00	.500	200	N	N	N	1,000	150	N
774	60 57 56	145 23 27	2.0	.70	5.00	>1.000	300	1.5	N	N	70	1,500	N
775	60 49 3	144 58 56	10.0	.70	2.00	>2.000	500	5.0	500	N	500	200	N
776	60 49 33	145 1 11	1.0	.50	7.00	1.500	500	N	N	N	>5,000	50	N
777	60 46 59	144 57 4	50.0	.50	2.00	.200	300	N	N	N	1,000	<50	N
778	60 51 33	144 51 1	10.0	.20	7.00	2.000	1,000	N	N	N	>5,000	200	2
779	60 51 29	144 50 33	30.0	.30	2.00	.500	300	1.0	N	N	200	<50	N
781	60 54 55	145 43 41	10.0	.10	2.00	>2.000	500	15.0	15,000	20	50	200	N
782	60 54 47	145 46 26	1.0	.30	5.00	>2.000	1,000	N	N	N	50	100	N
783	60 49 33	146 2 51	2.0	.30	.10	1.000	1,500	N	N	N	150	100	N
785	60 48 38	145 59 43	1.5	.20	7.00	2.000	1,000	N	N	N	>5,000	50	2
786	60 50 19	145 56 23	1.0	.50	2.00	1.000	1,000	N	N	N	500	700	<1
787	60 45 51	145 53 36	.5	.30	5.00	.700	1,000	N	N	N	150	50	<1
791	60 48 10	146 9 27	2.0	.20	7.00	2.000	2,000	N	N	N	1,500	100	2
794	60 52 14	146 36 58	5.0	.50	5.00	2.000	500	N	1,000	N	50	100	N
795	60 54 56	146 37 57	1.5	.50	5.00	.700	1,000	N	N	N	100	70	N
796	60 55 4	146 37 17	10.0	.50	10.00	1.000	1,500	N	N	N	>5,000	10,000	N
798	60 54 52	146 29 38	1.5	.20	5.00	>2.000	1,000	N	N	N	200	200	2
801	60 55 53	146 19 57	1.0	.10	1.50	>2.000	500	N	2,000	N	200	200	2
802	60 56 19	145 58 4	1.0	.50	5.00	>2.000	1,500	5.0	N	N	50	500	N
803	60 56 10	145 58 10	30.0	.10	1.00	1.000	200	5.0	15,000	N	<20	50	N
804	60 56 13	145 57 36	20.0	.20	1.00	1.000	300	20.0	20,000	N	<20	50	N
805	60 59 10	145 49 41	10.0	.50	1.50	1.500	300	5.0	2,000	N	20	700	N
806	60 57 23	145 48 23	3.0	1.50	1.50	1.500	700	1.0	N	N	50	1,500	N
807	60 57 9	145 49 13	3.0	2.00	1.50	1.500	700	<1.0	N	N	50	2,000	N
808	60 55 9	145 51 14	2.0	.70	1.50	2.000	500	N	N	N	70	500	N
809	60 56 22	145 55 29	10.0	.10	1.00	2.000	200	70.0	>20,000	200	<20	150	N
810	60 56 39	145 57 48	15.0	.50	1.00	1.000	300	5.0	20,000	N	20	1,000	N
811	60 56 4	145 56 56	1.5	.50	2.00	>2.000	700	10.0	700	N	50	1,000	N
812	60 56 26	145 46 13	3.0	1.50	2.00	>2.000	700	10.0	700	100	30	700	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sn-ppm	Sr-ppm
758	N	N	20	100	700	<50	N	<50	20	200	N	15	N	200
759	N	N	70	50	200	70	N	50	30	200	N	15	N	200
760	<20	N	30	70	70	100	N	100	20	200	N	20	30	200
761	N	N	300	70	700	N	N	N	50	N	N	15	N	<200
762	N	N	500	70	1,500	N	N	N	70	<20	N	30	N	<200
763	N	N	50	100	1,000	N	N	N	30	20	N	30	N	300
764	N	N	70	200	300	N	N	N	50	30	N	50	N	<200
765	N	N	20	100	20	150	N	50	15	20	N	20	20	300
766	N	N	<10	70	20	150	N	<50	N	20	N	15	<20	300
767	N	N	100	30	50	70	N	N	30	20	N	10	N	300
768	N	N	50	70	20	150	N	50	30	100	N	20	20	300
769	N	N	200	20	70	150	N	50	100	300	N	10	N	200
770	N	N	100	300	200	N	N	N	100	50	N	30	N	200
771	N	N	30	100	5,000	100	N	<50	N	N	N	50	<20	700
772	N	N	500	<20	150	N	N	N	200	100	N	N	N	<200
773	N	N	50	50	150	N	N	N	20	<20	N	15	N	200
774	N	N	50	150	200	50	N	70	20	50	N	30	30	200
775	N	N	1,000	50	500	100	N	50	100	1,000	N	<10	<20	N
776	N	N	20	50	100	N	N	N	N	<20	N	<10	N	N
777	N	N	1,500	20	1,000	N	N	N	500	100	N	N	N	N
778	N	N	20	70	<10	N	N	N	N	70	N	20	N	N
779	N	N	1,500	20	700	N	N	N	500	100	N	N	N	N
781	20	N	200	30	200	200	<10	100	30	1,000	N	<10	<20	N
782	N	N	<10	20	N	50	N	50	N	200	N	20	N	N
783	N	N	20	200	100	N	N	N	N	N	N	<10	>2,000	N
785	N	N	10	50	<10	N	N	<50	N	150	N	10	N	N
786	<20	<50	10	200	20	N	<10	N	<10	200	N	70	<20	N
787	N	<50	<10	100	<10	N	N	N	N	<20	N	100	N	N
791	N	N	20	150	10	N	N	<50	N	100	N	10	N	N
794	N	N	20	30	N	N	N	N	N	200	N	10	N	N
795	N	N	20	50	50	N	N	N	N	20	N	<10	N	N
796	N	N	30	70	300	N	N	N	20	200	N	<10	N	200
798	N	N	30	70	N	50	N	100	N	<20	N	<10	20	N
801	N	<50	30	20	N	50	N	50	N	30	N	20	<20	N
802	<20	N	<10	150	N	500	10	50	N	1,000	N	50	70	N
803	N	N	300	<20	200	N	N	N	200	1,000	N	N	N	N
804	<20	N	200	<20	150	N	N	N	200	3,000	N	N	N	N
805	N	<50	200	30	300	100	N	50	150	500	N	20	N	200
806	N	N	50	150	200	150	<10	<50	70	200	N	30	N	300
807	N	N	30	200	200	100	N	<50	50	150	N	50	<20	300
808	N	N	30	70	200	150	10	50	20	50	N	30	20	200
809	30	N	200	20	300	150	<10	50	150	1,500	N	<10	N	<200
810	N	N	100	20	200	70	10	<50	200	200	N	<10	20	200
811	<20	N	30	70	200	200	10	50	20	300	N	20	20	300
812	N	N	70	100	500	100	N	50	30	50	N	50	<20	500

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
758	100	N	70	N	>2,000	N
759	100	N	150	N	>2,000	N
760	100	N	200	N	>2,000	N
761	100	N	30	N	300	N
762	150	N	30	N	100	N
763	150	N	70	N	1,500	N
764	100	N	50	N	70	N
765	100	N	200	N	>2,000	N
766	70	N	150	N	>2,000	N
767	70	150	100	N	>2,000	N
768	100	<100	200	N	>2,000	N
769	70	N	200	N	>2,000	N
770	150	150	70	N	>2,000	N
771	150	<100	100	N	>2,000	N
772	30	N	70	N	>2,000	N
773	100	<100	70	N	300	N
774	150	N	150	N	500	N
775	100	<100	500	N	>2,000	<200
776	300	2,000	70	N	>2,000	N
777	150	N	<20	<500	200	N
778	200	N	300	N	>2,000	N
779	100	300	50	N	1,500	N
781	200	N	500	N	>2,000	500
782	100	200	50	N	>2,000	N
783	200	<100	70	N	>2,000	N
785	150	N	150	N	>2,000	N
786	300	200	1,000	N	>2,000	1,000
787	300	N	1,500	N	>2,000	<200
791	200	200	200	N	>2,000	N
794	500	N	50	N	>2,000	N
795	200	N	50	N	>2,000	N
796	100	<100	70	N	>2,000	N
798	100	2,000	300	N	>2,000	N
801	100	200	500	N	>2,000	N
802	300	N	1,500	N	>2,000	500
803	50	N	100	N	>2,000	200
804	50	N	50	N	>2,000	N
805	100	N	150	<500	>2,000	<200
806	200	N	100	N	200	N
807	200	N	100	N	2,000	N
808	100	N	200	N	>2,000	<200
809	70	150	150	N	>2,000	200
810	70	N	100	N	>2,000	N
811	150	100	200	N	>2,000	<200
812	150	<100	150	N	>2,000	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Re-ppm S	Re-ppm S
813	60 56 41	145 40 50	2.0	1.50	1.50	1.000	1,000	<1.0	N	N	70	3,000	N
814	60 57 0	145 39 53	15.0	.20	1.00	1.500	150	<1.0	N	N	<20	2,000	N
815	60 58 17	145 41 51	20.0	.30	1.00	1.500	200	7.0	N	20	<20	1,000	N
816	60 55 36	144 57 25	2.0	1.00	7.00	.300	500	N	N	N	200	50	N
817	60 54 42	144 56 43	2.0	1.00	5.00	.300	700	N	N	N	50	<50	N
818	60 53 12	144 55 3	2.0	1.00	2.00	1.500	700	N	N	N	70	3,000	<1
819	60 51 50	144 49 13	1.5	1.00	2.00	1.000	1,000	N	N	N	70	3,000	<1
820	60 53 16	144 48 38	2.0	.70	3.00	1.500	700	1.5	N	<20	300	500	N
821	60 53 27	144 48 50	5.0	1.00	3.00	.500	500	N	N	N	100	150	<1
822	60 57 6	144 52 18	1.5	.70	1.50	2.000	1,000	1.5	N	N	200	700	<1
823	60 58 44	144 53 24	2.0	.30	<.10	.300	700	<1.0	<500	N	<20	700	<1
824	60 57 51	144 54 45	1.0	.50	2.00	.700	500	N	N	N	100	500	<1
825	60 57 45	144 54 56	2.0	.50	1.00	>2.000	1,000	N	N	N	100	1,000	N
826	60 58 29	144 56 44	1.5	.70	2.00	1.000	1,000	N	500	N	100	500	N
827	60 58 38	144 59 7	2.0	.50	1.50	>2.000	1,500	3.0	500	N	200	700	N
828	60 57 46	146 25 56	1.5	.30	3.00	2.000	1,000	20.0	3,000	50	100	700	<1
829	60 57 24	146 22 21	1.0	.20	5.00	2.000	700	N	500	N	50	150	<1
831	60 49 48	145 0 19	2.0	.20	10.00	>2.000	15,000	50.0	5,000	200	2,000	70	2
833	60 37 22	144 13 59	1.0	.30	3.00	.700	1,500	N	N	N	50	100	<1
834	60 37 7	144 9 47	1.0	.30	5.00	.700	2,000	N	N	N	50	150	2
835	60 37 9	144 7 58	1.0	.30	5.00	2.000	2,000	N	N	N	150	500	1
836	60 31 57	144 42 55	1.0	.50	2.00	>2.000	1,000	N	N	N	70	500	<1
837	60 33 16	144 43 1	1.0	.20	5.00	.700	150	N	N	N	100	500	2
838	60 48 49	144 18 39	.5	.20	.20	.700	1,000	N	N	N	200	300	1
839	60 51 10	144 23 54	1.0	.50	2.00	.500	1,500	N	N	N	150	700	2
840	60 46 29	144 12 57	1.5	.70	10.00	2.000	2,000	N	N	N	50	700	<1
841	60 50 43	144 17 32	1.0	.50	3.00	.500	2,000	N	N	N	150	700	2
842	60 46 9	144 15 1	1.0	.20	2.00	.700	1,500	N	N	N	150	700	1
844	60 46 47	144 50 32	1.0	.30	10.00	.700	2,000	1.0	N	N	100	300	3

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sn-ppm	Si-ppm
813	N	N	30	200	200	100	N	<50	30	70	N	30	N	300
814	N	N	200	20	500	100	<10	<50	150	70	N	10	N	<200
815	N	N	500	20	700	70	N	<50	150	70	N	15	N	<200
816	N	N	15	50	70	N	N	N	20	20	N	20	N	<200
817	N	N	15	50	70	N	N	N	20	20	N	15	N	<200
818	N	N	30	70	20	100	N	<50	30	50	N	30	<20	300
819	N	N	15	150	70	100	12	<50	20	30	N	30	<20	200
820	N	N	30	70	500	100	N	<50	30	30	N	30	N	300
821	N	N	150	70	300	N	N	N	50	20	N	20	N	200
822	N	N	15	200	50	200	N	<50	15	150	N	20	<20	500
823	N	N	15	100	50	N	<10	N	20	50	N	30	N	500
824	N	N	10	50	150	200	N	N	15	50	N	30	N	500
825	N	N	20	200	150	300	N	<50	15	200	N	50	<20	700
826	N	N	20	150	150	100	N	<50	20	20	N	50	N	500
827	N	N	50	150	500	300	N	50	15	300	N	30	<20	700
828	N	N	30	70	100	200	N	50	15	200	N	30	<20	700
829	N	N	20	50	1,500	150	N	50	50	20	N	20	<20	200
831	20	N	20	50	50	N	N	50	N	3,000	N	10	20	N
833	N	N	<10	50	10	N	N	N	<10	30	N	20	N	200
834	N	N	<10	50	20	N	N	N	N	<20	N	20	N	500
835	N	N	20	50	10	N	N	N	N	50	N	20	N	1,000
836	N	N	<10	70	N	100	<10	100	N	70	N	10	<20	1,000
837	N	N	<10	20	10	N	N	N	N	50	N	10	N	N
838	N	N	<10	50	<10	<50	N	N	N	20	N	10	N	<200
839	N	N	<10	100	10	200	N	N	N	50	N	10	N	500
840	N	N	10	70	10	100	N	N	<10	70	N	10	N	700
841	N	N	10	150	10	N	N	N	N	<20	N	10	N	200
842	N	N	10	100	20	200	<10	N	N	20	N	30	N	200
844	N	N	20	20	10	N	N	N	N	200	N	10	N	N

TABLE 4. CHEMICAL DATA FOR NONMAGNETIC HEAVY-MINERAL CONCENTRATE SAMPLES, CORDOVA AND MIDDLETON ISLAND QUADRANGLES, ALASKA.--Continued

Sample	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
813	200	N	100	N	2,000	N
814	70	N	100	N	>2,000	N
815	70	N	100	N	>2,000	N
816	200	N	30	N	300	N
817	200	N	30	N	70	N
818	200	<100	100	N	2,000	N
819	200	N	100	N	2,000	N
820	150	N	100	N	>2,000	N
821	100	<100	50	N	2,000	N
822	100	N	150	N	>2,000	N
823	200	N	70	N	>2,000	N
824	150	N	100	N	>2,000	N
825	150	N	200	N	>2,000	N
826	200	N	100	N	>2,000	N
827	100	N	200	N	>2,000	N
828	150	<100	150	N	>2,000	N
829	100	200	150	N	>2,000	N
831	500	100	500	N	>2,000	500
833	100	100	200	N	>2,000	N
834	200	N	50	N	>2,000	N
835	100	1,000	200	N	>2,000	N
836	100	N	300	N	>2,000	N
837	300	200	100	N	>2,000	200
838	50	150	300	N	>2,000	N
839	100	N	200	N	>2,000	N
840	100	N	1,000	N	>2,000	N
841	100	N	500	N	>2,000	N
842	100	100	500	N	>2,000	N
844	200	<100	70	N	>2,000	N