UNITED STATES DEPARTMENT OF THE INTERIOR

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ANALYTICAL RESULTS OF VARIOUS TYPES OF SAMPLES TAKEN IN THE WEST CHICHAGOF-YAKOBI WILDERNESS STUDY AREA, SITKA QUADRANGLE, SOUTHEASTERN ALASKA

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Introduction

A geochemical sampling program was completed during the 1978-79 field season in the West Chichagof-Yakobi Wilderness Study Area, Sitka quadrangle, southeastern Alaska. For this study 439 sites were visited, and, when practical, minus 80-mesh stream-sediment, heavy-mineral concentrate, stream and (or) lake water, and rock samples were collected. More specifically, the types and number of sites of the various media are as follows: minus 80-mesh stream sediments, 296; heavy-mineral concentrates, 287; filtered (treated) water, 359; untreated water, 358; and rocks, 94. The sampling was completed with the aid of a helicopter and a power-rubber raft.

Methods of Collection and Preparation

The minus 80-mesh stream-sediment samples were collected from active stream channels; a composite sample was taken from across the width of the stream wherever possible and then sieved through a 2-mm mesh screen and the fine fraction filled a 5 1/2" x 10 1/2" clean cloth bag. The sample was then air dried and sieved to minus-80-mesh.

Nonmagnetic heavy-mineral concentrate samples were collected in the active stream channels and from the same area as the stream-sediment samples. The sample was panned at the site to remove most of the low density minerals. At the laboratory, the panned fraction was air dried and sieved through a minus 20-mesh screen. The sample was further separated with bromoform (specific gravity, 2.86) to remove the remaining low-density minerals. Magnetite and other strongly magnetic heavy minerals were removed from this fraction employing a Frantz isodynamic separator[1/]. A nonmagnetic fraction was obtained by using a setting of 0.6 amperes. A split of this fraction was pulverized to minus 200-mesh and the balance made available for mineralogical study.

[1/] The use of brand names is for descriptive purposes only and does not constitute endorsement by the U.S. Geological Survey.

From the streams and lakes, two types of water samples were collected and placed in polyethylene bottles. A filtered (treated) sample was collected in a pre-acid rinsed 2 oz (60 mL) bottle by passing the liquid through a 0.45 micron Millipore filter paper, and acidifying the filtrate to a pH of <2 with metal-free concentrated nitric acid. A second sample (untreated) was collected in an 8 oz (250 mL) bottle. The bottle was first rinsed with the resident water, then filled and submitted for analysis.

Rock samples were collected primarily at or near the tops of the various ridges. Few were collected in the proximity of the mouths of streams. Quite often the rocks exhibited evidence of mineralization and (or) alteration. The samples were visually examined, described, sacked, and submitted to the laboratory where they were crushed and ground to a minus 200-mesh and submitted for analysis. The primary purpose of collecting rocks is to establish a background of data as to the chemistry of the rocks supplying the stream sediment to the basins below at lesser elevations.

Methods of Analysis

The rock, stream-sediment, and nonmagnetic heavy-mineral concentrate samples were analyzed by a six-step DC arc, semiquantitative emission spectrographic method described by Grimes and Marranzino (1968).

In addition, the rock and stream-sediment samples were given additional analyses for gold, copper, lead, and zinc by atomic-absorption methods developed by Ward and others (1969). Arsenic was determined by a colorimetric method developed by Ward and others (1963). Mercury was determined by a mercury-vapor detector developed by Vaughn and McCarthy (1964). Uranium was analyzed by fluorimetry developed by Ward and Bondar (1979).

Equivalent uranium results were by instrumental gamma analysis using the Ortec multi-channel analyzer.

The unfiltered water samples were analyzed for sulfate and fluoride using the ion chromatography method (Fishman and Pyen, 1979).

The filtered water samples were analyzed by graphite furnace atomic absorption spectroscopy for the elements copper, zinc, molybdenum (Miller, W. R., and Ficklin, W. H., 1976), and arsenic (Aruscavage, Philip, 1977). Uranium was determined by laser induced fluorometry (Ward and Bondar, 1977).

General Explanation of Data

All sample site numbers (tables 1-5) are prefixed with either the letters MF, indicating the 1:250,000-scale Mount Fairweather quadrangle, or SI, indicating the 1:250,000-scale Sitka quadrangle.

The next two spaces indicate the 1:63,360-scale quadrangle, within the 1:250,000-scale quadrangle mentioned above. The sample site number is then listed, followed by a letter indicating the specific medium as follows: T, filtered water; W, unfiltered water; R, rock; S, stream sediment; and C, nonmagnetic heavy-mineral concentrate.

The analytical results for treated (filtered) water are given in parts per billion, and for untreated water, in parts per million. The analytical results for all additional media are given in parts per million with the exception of Fe, Mg, Ca, and Ti which are reported in percent.

A data qualifier code is used with some reported values. This is as follows: N, not detected at the level of detection or at the value shown; and L, detected, but below limit of determination, or below value shown.

Those people responsible for providing the analytical data are George L. Crenshaw, James D. Hoffman, Elmo F. Cooley, and John C. Negri. Field personnel were Michael Maslowski and Wayne Everman. The data were entered into the U.S.G.S. computer data storage system entitled RASS (Rock Analysis Storage System) and retrieved by Wendy S. Speckman for this publication.

References

Aruscavage, Philip, 1977, Determination of arsenic, antimony, and selenium in coal by atomic absorption spectrometry with a graphite tube atomizer: U.S. Geological Survey Journal of Research, v. 5, no. 4, p. 405-408.

Fishman, M. J., and Pyen, G., 1979, Determination of selected anions in water by ion chromatography: U.S. Geological Survey Water Resources Investigations Report 79-101.

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

Miller, W. R., and Ficklin, W. H., 1976, Molybdenum mineralization in the White River National Forest, Colorado: U.S. Geological Survey Open-File Report 76-711, 29 p.

Vaughn, W. W., and McCarthy, J. H., Jr., 1964, An instrumental technique for the determination of submicrogram concentrations of mercury in soils, rocks, and gas: U.S. Geological Survey Professional Paper 501-D, p. 123-127.

Ward, F. N., and Bondar, W. F., Analytical methodology in the search for metallic ores; in Geophysics and Geochemistry in the Search for Metallic Ores: Peter J. Hood, editor; Geological Survey of Canada, Economic Geology Report 31, p. 365-383, 1979.

Ward, F. N., Lakin, H. W., Canney, F. C., and others, 1963, Analytical methods used in geochemical exploration by the U.S. Geological Survey: U.S. Geological Survey Bulletin 1152, 100 pages.

Ward, F. N., Nakagawa, H. M., Harms, T. F., and Van Sickle, G. H., 1969, Atomic absorption methods of analysis useful in geochemical exploration: U.S. Geological Survey Bulletin 1289, 45 p.

TABLE 1.--*Analytical results for treated water samples.*

sample	LATITUDE	LONGITUD	AA-AS	AA-CU	INST-U	AA-MO	AA-ZN
MFA2006T	58 1 50	136 22 16	.4	3.2	<.1	.3	8.4
MFA2007T	58 2 36	136 23 46	1.6	N	<.1	.7	6.9
MFA2008T	58 3 21	136 25 57	1.1	2.2	<.1	.4	6.0
MFA2009T	58 1 25	136 28 58	.8	.8	.1	.4	10.4
MFA2010T	58 0 17	136 29 21	.9	1.0	.1	.3	4.2
MFA2011T	58 1 43	136 26 44	1.3	.2	<.1	.5	4.9
MFA2012T	58 0 33	136 21 10	.4	1.1	.1	.2	3.0
MFA2013T	58 0 12	136 22 16	.5	.3	<.1	.3	3.0
MFA2014T	58 3 59	136 26 38	.9	2.8	<.1	.4	3.9
MFA2015T	58 5 19	136 30 9	1.0	10.0	<.1	.3	17.8
MFA2016T	58 3 31	136 31 6	.3	5.1	<.1	.3	4.2
MFA2017T	58 4 9	136 32 42	.4	1.8	.1	.4	2.6
MFA2018T	58 4 19	136 32 52	.6	.8	<.1	.9	3.0
MFA2019T	58 1 15	136 31 51	.4	.1	<.1	.2	4.0
MFA2020T	58 1 56	136 33 6	.4	N	<.1	.3	4.1
MFA2030T	58 0 16	136 25 30	.1	6.7	<.1	.2	8.4
SIB5300T	57 24 43	135 39 49	.2	6.2	.3	.1	10.1
SIB5301T	57 24 41	135 38 26	<.1	2.1	.1	.2	10.0
SIB5302T	57 25 23	135 37 0	<.1	2.8	.1	.4	10.4
SIB5303T	57 26 37	135 38 0	<.1	2.6	.2	.6	10.0
SIB5304T	57 27 7	135 37 57	.1	2.5	.8	1.1	10.4
SIB5305T	57 27 46	135 39 47	.2	1.9	.5	1.1	9.5
SIB5311T	57 27 27	135 39 23	.9	2.6	.5	.1	9.7
SIB5313T	57 26 36	135 32 10	1.1	7.4	.2	.2	10.2
SIB5314T	57 26 51	135 35 35	1.4	4.7	.1	1.8	10.6
SIB5315T	57 27 19	135 34 2	<.1	3.0	.2	.9	10.3
SIB5316T	57 27 40	135 33 11	<.1	4.0	.2	.5	10.2
SIB5317T	57 29 49	135 33 42	<.1	3.7	.2	.4	10.4
SIB5318T	57 29 14	135 33 0	<.1	4.1	.2	.2	10.1
SIB5319T	57 29 16	135 35 54	1.3	4.5	.2	.8	10.7
SIB6198T	57 28 57	135 58 7	<.1	2.8	.1	.2	7.9
SIB6199T	57 28 21	135 57 36	<.1	.1	.1	.7	2.2
SIB6200T	57 27 26	135 55 12	<.1	.1	.1	.1	4.0
SIB6201T	57 26 38	135 53 43	.2	.6	.1	N	1.1
SIB6202T	57 25 52	135 52 48	.2	.2	<.1	.1	4.7
SIB6203T	57 25 57	135 51 7	.4	1.5	.1	N	3.9
SIB6204T	57 24 30	135 49 20	<.1	.9	.2	.1	5.5
SIB6205T	57 25 20	135 51 13	<.1	N	.2	.1	2.7
SIB6206T	57 23 27	135 47 17	2.4	.2	.1	.1	10.8
SIB6207T	57 23 59	135 45 39	3.1	.7	.1	.1	8.8
SIB6208T	57 23 6	135 44 56	<.1	2.1	.2	.1	2.2
SIB6209T	57 22 52	135 43 39	<.1	1.2	.1	.1	2.2
SIB6210T	57 22 34	135 41 44	<.1	.8	.2	.1	2.3
SIB6211T	57 23 11	135 41 14	.1	4.3	.2	N	2.5
SIB6212T	57 23 24	135 40 33	.3	1.2	.1	.1	7.0

Treated water samples--continued

sample	LATITUDE	LONGITUD	AA-AS	AA-CU	INST-U	AA-MO	AA-ZN
SIB62131	57 24 39	135 40 52	<.1	.5	.1	.1	.8
SIB62141	57 24 53	135 41 20	<.1	.1	.2	.1	2.0
SIB62151	57 25 13	135 42 59	<.1	2.9	.1	2.5	15.0
SIB62161	57 25 49	135 42 25	.1	3.7	.2	.8	11.7
SIB62171	57 26 38	135 43 46	<.1	1.1	.2	.8	13.5
SIB62181	57 26 28	135 44 4	<.1	.5	.2	.7	8.7
SIB62191	57 23 47	135 44 22	.1	4.1	.2	.5	16.2
SIB62201	57 25 29	135 46 41	<.1	2.4	.2	.6	7.0
SIB62211	57 24 39	135 45 35	<.1	.7	.1	.6	3.3
SIB62221	57 26 38	135 48 35	<.1	4.7	.2	.5	5.7
SIB62231	57 27 36	135 50 36	<.1	.1	.1	.5	3.9
SIB62241	57 28 16	135 52 21	<.1	.6	.2	.5	5.4
SIB62251	57 27 23	135 48 37	.1	2.7	.2	1.2	3.9
SIB62261	57 27 59	135 46 40	<.1	3.3	.2	1.2	8.1
SIB62271	57 28 9	135 48 52	.2	1.1	.2	.8	5.2
SIB62281	57 28 59	135 48 42	<.1	1.5	.1	1.0	7.4
SIB62291	57 29 28	135 48 27	.2	3.0	.2	.9	9.4
SIB62301	57 29 38	135 48 57	<.1	2.4	.2	.4	6.8
SIB62311	57 28 29	135 49 35	.1	.9	.2	.5	3.8
SIB62321	57 29 11	135 51 34	<.1	.2	.2	.7	4.2
SIB62331	57 29 25	135 50 52	<.1	.1	.2	.7	5.4
SIB62341	57 29 33	135 51 9	<.1	.8	.2	.7	5.9
SIB62351	57 29 17	135 52 1	<.1	.3	.2	.6	5.6
SIB62371	57 29 46	135 55 21	1.8	6.4	.3	2.3	16.6
SIB63061	57 28 16	135 40 29	.1	2.4	.5	2.6	9.8
SIB63071	57 28 7	135 40 37	.2	4.4	.7	4.4	10.4
SIB63081	57 29 16	135 41 40	.4	3.1	.2	.1	10.1
SIB63091	57 29 8	135 41 59	.6	2.1	.2	.1	10.0
SIB63101	57 29 12	135 43 13	.8	5.0	.2	1.5	10.1
SIB63201	57 26 14	135 40 7	.2	5.3	.2	1.1	1.5
SIB63211	57 28 27	135 44 22	<.1	.1	.2	.5	.4
SIC51681	57 40 40	135 37 59	3.3	6.9	.1	N	41.0
SIC51891	57 40 21	135 37 24	<.1	2.1	.1	N	1.8
SIC51901	57 38 56	135 36 46	<.1	3.4	.1	.1	5.9
SIC51971	57 37 13	135 38 32	<.1	1.8	.1	N	5.9
SIC53221	57 30 9	135 37 24	.4	1.5	.3	1.4	.8
SIC53251	57 31 8	135 35 55	<.1	3.0	.2	.8	4.0
SIC53241	57 30 59	135 35 47	<.1	1.5	.2	.7	.3
SIC53251	57 30 58	135 35 7	<.1	.1	.2	.1	10.2
SIC53541	57 33 8	135 39 23	.2	3.1	.2	.2	2.9
SIC53351	57 34 32	135 38 14	1.1	2.7	.2	.2	5.1
SIC53361	57 34 48	135 37 17	<.1	3.1	.2	N	2.4
SIC53371	57 33 11	135 34 45	<.1	1.5	.2	.1	1.9
SIC53381	57 35 47	135 34 22	<.1	2.7	.2	N	3.5
SIC53391	57 36 27	135 36 24	<.1	2.7	.2	.1	3.4

Treated water samples--continued

sample	LATITUDE	LONGITUD	AA-AS	AA-CU	INST-U	AA-MO	AA-ZN
SIC5340T	57 36 35	135 36 45	<.1	2.4	.2	.1	3.1
SIC5342T	57 32 3	135 34 16	<.1	1.1	.2	N	2.0
SIC5343T	57 31 29	135 34 52	<.1	2.6	.2	N	14.5
SIC6104T	57 43 52	135 47 34	.2	1.3	<.1	3.0	.4
SIC6105T	57 43 44	135 47 14	.2	.3	<.1	3.0	.2
SIC6106T	57 44 22	135 49 30	.3	.1	<.1	3.0	.4
SIC6107T	57 44 17	135 51 30	.2	.3	<.1	3.0	.3
SIC6108T	57 44 6	135 51 23	<.1	.1	<.1	3.0	.2
SIC6109T	57 43 51	135 53 40	.3	N	<.1	3.1	.3
SIC6110T	57 41 50	135 48 2	.2	N	<.1	3.1	.4
SIC6111T	57 41 49	135 47 35	.2	.2	<.1	3.2	.1
SIC6112T	57 42 37	135 50 10	.1	.9	<.1	3.1	.2
SIC6113T	57 42 23	135 50 13	.4	1.3	<.1	3.1	.2
SIC6150T	57 43 22	135 44 22	.2	1.1	.1	.1	2.2
SIC6151T	57 41 17	135 44 48	.2	1.9	.1	.1	.3
SIC6152T	57 40 34	135 45 34	1.5	1.8	.1	.4	5.9
SIC6153T	57 40 6	135 46 18	.3	2.4	.1	.2	2.9
SIC6154T	57 39 28	135 50 13	.3	.7	.1	.2	2.7
SIC6155T	57 38 55	135 50 5	.3	2.1	.2	.2	1.8
SIC6156T	57 38 41	135 47 37	<.1	1.9	.1	.3	4.9
SIC6157T	57 42 32	135 45 41	.1	4.7	.2	N	5.2
SIC6158T	57 42 39	135 48 43	.7	3.0	.1	2.2	8.3
SIC6159T	57 43 11	135 52 15	.4	.6	.1	1.1	5.4
SIC6160B	57 41 39	135 54 11	.1	.2	.2	1.6	.2
SIC6160T	57 41 39	135 54 11	.3	1.2	.2	1.6	4.4
SIC6161T	57 40 52	135 51 59	.1	.6	.2	.5	1.1
SIC6162T	57 40 41	135 52 30	.6	9.3	.1	.1	5.8
SIC6163T	57 39 11	135 49 1	.3	14.9	<.1	.2	70.0
SIC6164T	57 36 36	135 51 19	.4	.3	.1	.1	6.5
SIC6165T	57 36 10	135 49 56	.2	2.0	.1	.5	3.4
SIC6166T	57 35 14	135 48 40	.1	5.8	.1	N	6.5
SIC6175T	57 38 53	135 54 9	.5	.1	.2	.1	3.5
SIC6176T	57 38 33	135 52 43	.6	.3	.2	.1	3.6
SIC6177T	57 38 26	135 52 25	<.1	N	.1	N	1.4
SIC6178T	57 36 49	135 50 32	<.1	1.5	.1	.1	2.9
SIC6179T	57 37 48	135 49 26	<.1	.4	.1	N	2.2
SIC6180T	57 37 58	135 49 7	<.1	4.5	.1	.1	6.6
SIC6181T	57 36 56	135 48 7	<.1	2.2	.2	.2	7.8
SIC6183T	57 39 30	135 43 36	<.1	6.9	.1	N	5.0
SIC6184T	57 38 58	135 41 57	<.1	3.1	.1	1.1	5.5
SIC6186T	57 37 31	135 46 4	.4	2.7	.2	.1	6.0
SIC6187T	57 37 22	135 45 51	<.1	5.2	.1	N	52.0
SIC6191T	57 40 52	135 40 59	<.1	3.4	.1	.5	5.5
SIC6192T	57 37 38	135 41 42	<.1	4.9	.1	N	6.3
SIC6193T	57 35 31	135 43 41	<.1	4.8	.1	N	3.8

Treated water samples--continued

sample	LATITUDE	LONGITUD	AA-AS	AA-CU	INST-U	AA-MO	AA-ZN
SIC6194T	57 36 45	135 42 57	<.1	1.9	.2	.1	5.2
SIC6195T	57 36 35	135 42 41	<.1	1.4	.2	.1	3.6
SIC6196T	57 37 20	135 41 47	<.1	.5	.2	N	4.6
SIC6236T	57 30 5	135 53 47	<.1	.6	.2	.7	5.0
SIC6238T	57 31 41	135 54 40	1.8	2.5	.9	26.2	13.9
SIC6239T	57 30 51	135 57 58	1.7	3.9	.4	2.3	14.3
SIC6240T	57 31 31	135 56 54	1.3	2.3	.2	1.5	14.5
SIC6241T	57 33 4	135 59 13	1.4	27.3	.4	1.1	15.9
SIC6242T	57 33 42	135 58 16	.9	4.2	.4	.9	14.0
SIC6243T	57 33 23	135 53 19	.7	1.4	.5	.8	13.8
SIC6244T	57 33 1	135 53 3	.6	2.7	.4	.8	14.2
SIC6245T	57 33 47	135 54 38	.4	6.0	4.3	.8	17.5
SIC6246T	57 35 19	135 52 22	.3	3.7	.4	.6	15.5
SIC6247T	57 35 27	135 52 0	.1	9.7	2.7	.6	18.1
SIC6248T	57 35 45	135 52 47	.1	5.1	.3	.6	14.8
SIC6249T	57 34 55	135 54 46	.2	4.3	.9	.5	13.7
SIC6250T	57 35 6	135 54 44	.5	4.1	.1	.5	13.6
SIC6251T	57 33 15	135 48 10	.4	7.8	.4	.4	15.3
SIC6252T	57 32 31	135 48 24	.5	17.0	.1	.4	19.4
SIC6253T	57 32 44	135 48 36	.5	4.5	.3	.4	13.7
SIC6254T	57 31 51	135 49 30	.6	5.9	.1	.4	14.2
SIC6255T	57 31 50	135 49 55	1.0	7.5	.3	.4	15.7
SIC6256T	57 30 19	135 48 53	1.3	4.8	1.2	.4	14.6
SIC6257T	57 30 18	135 49 22	.9	4.1	.3	.4	13.2
SIC6258T	57 30 6	135 47 7	1.0	4.6	.3	.3	17.8
SIC6263T	57 36 13	135 59 55	.5	2.8	.4	.1	14.7
SIC6264T	57 35 48	135 58 43	.1	.8	.3	N	13.2
SIC6265T	57 36 17	135 56 39	<.1	2.8	.6	.2	17.5
SIC6266T	57 35 42	135 57 4	.1	1.5	.4	N	14.6
SIC6267T	57 34 39	135 57 58	.1	1.7	.4	N	13.0
SIC6269T	57 34 11	135 58 32	.3	3.6	.5	.1	19.0
SIC6270T	57 37 35	135 54 51	.6	2.4	.4	.2	14.6
SIC6271T	57 37 38	135 58 32	.6	81.0	.6	.1	16.6
SIC6272T	57 38 5	135 59 50	.6	2.0	.4	N	14.5
SIC6273T	57 39 17	135 57 44	.7	5.3	.2	N	13.7
SIC6274T	57 39 53	135 57 56	1.2	3.9	.3	.1	13.9
SIC6275T	57 40 5	135 58 5	1.4	2.1	.5	.1	13.6
SIC6276T	57 39 6	135 58 44	1.4	1.7	.4	.7	13.3
SIC6290T	57 43 38	135 59 45	.6	2.6	<.1	N	12.2
SIC6291T	57 43 52	135 59 37	.9	2.2	<.1	.7	13.0
SIC6292T	57 44 38	135 56 57	1.0	1.8	<.1	.1	12.7
SIC6293T	57 44 50	135 57 10	1.1	2.1	<.1	.1	12.5
SIC6294T	57 44 3	135 55 54	1.2	3.9	<.1	2.6	10.4
SIC6297T	57 42 14	135 59 1	1.8	8.4	<.1	.7	10.9
SIC6298T	57 42 24	135 57 3	.9	8.0	<.1	.2	9.1

Treated water samples--continued

sample	LATITUDE	LONGITUD	AA-AS	AA-CU	INST-U	AA-MO	AA-ZN
SIC6299T	57 42 37	135 57 16	.5	5.7	.1	.1	9.6
SIC6326T	57 33 16	135 44 55	<.1	.4	.2	N	.5
SIC6327T	57 33 13	135 43 1	<.1	2.5	.2	N	.3
SIC6328T	57 33 8	135 41 12	<.1	4.8	.2	.1	6.0
SIC6329T	57 30 42	135 42 55	<.1	1.6	.2	N	2.3
SIC6330T	57 30 37	135 42 37	<.1	2.2	.2	.2	3.1
SIC6331T	57 31 46	135 41 36	.2	4.9	.2	N	3.1
SIC6332T	57 32 51	135 41 2	.5	4.8	.3	.1	3.8
SIC6333T	57 33 29	135 40 48	.4	7.4	.2	.2	4.1
SIC6341T	57 37 39	135 40 8	<.1	5.6	.2	.4	3.1
SIC7167T	57 44 59	136 11 31	.1	1.1	.1	N	3.5
SIC7168T	57 44 35	136 8 58	.4	.2	.2	N	.2
SIC7169T	57 44 19	136 4 5	.4	7.6	.1	N	12.2
SIC7170T	57 43 29	136 4 38	.7	1.2	.2	N	1.8
SIC7171T	57 42 47	136 6 58	1.0	2.0	.2	N	4.0
SIC7172T	57 43 2	136 7 3	.9	.9	.1	N	1.9
SIC7173T	57 42 19	136 5 36	.9	.5	.1	N	2.4
SIC7174T	57 43 9	136 9 53	.8	1.2	.1	.1	3.8
SIC7259T	57 31 18	136 0 34	1.2	3.7	.2	.3	16.8
SIC7260T	57 33 21	136 0 27	1.2	1.5	.6	1.4	15.3
SIC7261T	57 33 40	136 1 29	.8	4.2	.4	.3	15.1
SIC7262T	57 35 21	136 0 23	.9	2.7	.4	.3	14.8
SIC7277T	57 38 35	136 0 38	1.2	1.7	.4	.1	13.3
SIC7278T	57 39 25	136 2 27	.7	4.9	.5	.1	15.6
SIC7279T	57 39 38	136 3 28	.3	3.2	.1	.5	13.6
SIC7280T	57 39 34	136 3 46	.1	1.5	<.1	.5	12.9
SIC7281T	57 40 9	136 4 42	<.1	3.4	<.1	N	14.7
SIC7282T	57 39 19	136 6 21	<.1	14.7	<.1	.1	17.8
SIC7283T	57 40 49	136 7 12	.7	1.4	<.1	.4	13.4
SIC7284T	57 41 31	136 10 5	.4	1.8	<.1	.1	14.1
SIC7285T	57 42 23	136 3 48	<.1	2.1	<.1	N	12.7
SIC7286T	57 42 43	136 1 45	.1	1.3	<.1	.4	12.1
SIC7287T	57 43 0	136 1 44	.3	1.2	.1	.4	12.3
SIC7288T	57 43 46	136 0 43	.4	1.5	<.1	N	14.1
SIC7289T	57 43 46	136 1 11	.6	2.9	<.1	.3	12.8
SIC7295T	57 41 9	136 1 12	1.2	5.5	<.1	1.2	10.2
SIC7296T	57 41 31	136 0 31	1.3	2.6	<.1	.6	9.9
SIC7312T	57 41 10	136 6 13	2.9	2.9	.1	.1	10.3
SID6090T	57 49 49	135 59 39	.2	N	<.1	7.4	2.1
SID6091T	57 50 8	135 59 19	.2	N	<.1	7.5	4.5
SID6092T	57 48 51	135 56 44	.3	N	<.1	7.6	.2
SID6093T	57 48 17	135 55 9	.2	.7	<.1	7.6	.3
SID6094T	57 47 48	135 54 9	.4	N	<.1	1.8	.3
SID6095T	57 47 42	135 52 56	.2	N	<.1	2.1	.3
SID6096T	57 46 59	135 50 42	.3	2.1	<.1	2.3	.2

Treated water samples--continued

sample	LATITUDE	LONGITUD	AA-AS	AA-CU	INST-U	AA-MO	AA-ZN
SID6097T	57 45 41	135 50 57	.3	.4	<.1	2.4	.3
SID6098T	57 46 14	135 54 29	.2	4.8	<.1	2.6	.2
SID6099T	57 46 33	135 50 0	.3	2.6	<.1	2.7	2.6
SID6100T	57 45 17	135 46 46	<.1	.2	<.1	2.8	.3
SID6100T	57 45 17	135 46 46	<.1	N	<.1	2.7	.1
SID6145T	57 46 27	135 56 39	<.1	4.6	.2	.1	2.4
SID6146T	57 48 29	135 54 50	.1	.4	.1	.6	.2
SID6147T	57 48 47	135 54 58	.2	2.2	.2	.3	2.9
SID6148T	57 50 10	135 54 47	.5	.7	.2	.2	1.6
SID6149T	57 49 39	136 0 3	<.1	9.5	.1	.2	1.9
SID7001T	57 57 3	136 15 2	.1	.2	<.1	.8	7.9
SID7002T	57 57 47	136 16 14	.2	.1	<.1	.6	7.2
SID7003T	57 58 39	136 17 42	2.4	.1	<.1	.9	1.9
SID7004T	57 58 50	136 18 34	.2	13.7	<.1	.6	9.8
SID7005T	57 59 40	136 20 2	.2	5.7	<.1	.4	12.6
SID7048T	57 54 32	136 8 4	.8	1.4	<.1	.8	1.7
SID7049T	57 55 3	136 18 14	.7	1.5	<.1	.7	1.6
SID7050T	57 54 31	136 18 17	.7	23.0	<.1	.8	8.4
SID7051T	57 52 58	136 16 14	.8	17.0	<.1	.6	4.6
SID7052T	57 53 11	136 15 54	.6	3.6	<.1	.7	3.1
SID7053T	57 52 50	136 17 28	.4	14.0	<.1	.7	1.9
SID7054T	57 52 10	136 14 43	.8	2.6	<.1	.7	1.8
SID7055T	57 52 15	136 14 18	<.1	2.5	<.1	.6	2.5
SID7056T	57 52 34	136 11 48	<.1	2.5	<.1	.7	5.2
SID7057T	57 53 56	136 15 55	<.1	1.3	<.1	.6	2.8
SID7058T	57 54 10	136 15 56	.1	3.4	<.1	.6	6.7
SID7059T	57 54 19	136 13 25	.1	12.0	<.1	.6	4.4
SID7069T	57 48 8	136 18 15	<.1	.4	.1	.5	1.5
SID7070T	57 48 23	136 19 16	<.1	1.5	.1	.5	2.6
SID7071T	57 49 44	136 15 51	<.1	1.4	<.1	.7	.9
SID7072T	57 48 34	136 17 51	.1	.9	<.1	.5	1.0
SID7073T	57 51 28	136 16 5	<.1	.3	<.1	.6	.8
SID7075T	57 57 3	136 17 22	6.2	3.8	<.1	.5	4.8
SID7076T	57 56 3	136 13 0	<.1	1.2	<.1	.6	2.9
SID7078T	57 54 32	136 8 4	.4	2.0	<.1	.7	3.9
SID7079T	57 53 34	136 9 13	.2	.7	<.1	.5	2.3
SID7080T	57 52 56	136 8 15	.3	.7	<.1	.5	2.6
SID7081T	57 47 34	136 1 12	.3	2.1	<.1	.6	3.2
SID7082T	57 48 37	136 3 14	.6	1.6	<.1	.7	2.6
SID7083T	57 49 56	136 4 47	.9	1.2	<.1	.7	3.2
SID7084T	57 51 48	136 6 18	1.1	10.0	.1	.6	3.1
SID7085T	57 51 36	136 3 59	1.4	3.3	<.1	.6	2.8
SID7086T	57 52 23	136 2 34	.3	.1	<.1	6.9	.2
SID7087T	57 50 38	136 3 21	.2	N	<.1	7.1	.1
SID7088T	57 50 53	136 1 53	.2	N	<.1	7.1	.2

Treated water samples--continued

sample	LATITUDE	LONGITUD	AA-AS	AA-CU	INST-U	AA-MO	AA-ZN
SID7089T	57 49 46	136 1 0	.1	N	<.1	7.3	.2
SID7101T	57 57 8	136 17 49	116.0	.3	<.1	2.8	.5
SID7102T	57 56 53	136 17 26	34.0	.4	<.1	2.9	.3
SID7114T	57 48 23	136 19 10	.3	.2	<.1	3.2	.5
SID7115T	57 46 46	136 15 36	.3	3.0	<.1	3.2	.4
SID7116T	57 47 37	136 13 10	.1	N	<.1	3.2	1.9
SID7117T	57 48 0	136 13 59	.3	N	<.1	3.2	.2
SID7118T	57 48 59	136 13 24	2.5	N	<.1	3.2	.1
SID7119T	57 48 23	136 11 36	.2	.1	<.1	3.3	.4
SID7120T	57 48 51	136 12 8	.1	1.6	<.1	3.2	.4
SID7121T	57 49 7	136 11 3	<.1	N	<.1	3.3	1.6
SID7122T	57 48 53	136 9 37	<.1	1.4	<.1	3.3	.1
SID7123T	57 49 11	136 7 45	.1	N	<.1	3.5	.3
SID7124T	57 49 12	136 7 4	.4	N	<.1	3.5	.1
SID7125T	57 47 15	136 4 8	.1	1.7	<.1	3.4	.2
SID7126T	57 51 12	136 13 56	14.6	2.6	.2	.1	2.9
SID7127T	57 51 7	136 13 10	28.0	10.7	.2	.7	6.2
SID7128T	57 51 28	136 11 12	9.3	1.6	.2	N	3.9
SID7129T	57 50 50	136 9 8	<.1	2.9	.2	N	3.1
SID7130T	57 46 55	136 11 58	<.1	3.7	.2	.1	1.9
SID7131T	57 47 14	136 12 21	<.1	2.1	.2	N	.4
SID7132T	57 45 54	136 9 22	<.1	1.6	.2	.1	1.6
SID7133T	57 46 6	136 9 35	<.1	.9	.2	N	1.9
SID7134T	57 45 11	136 7 38	.2	.6	.2	N	1.8
SID7135T	57 45 22	136 7 44	<.1	.8	.2	.1	1.3
SID7136T	57 46 57	136 13 50	<.1	3.6	.2	3.1	.4
SID7137T	57 46 24	136 14 39	.7	2.0	.1	.3	3.5
SID7138T	57 46 58	136 7 27	.1	.9	.1	.2	2.3
SID7139T	57 46 20	136 6 28	.1	2.5	.1	N	2.4
SID7140T	57 45 18	136 3 41	3.0	4.9	.1	.3	8.5
SID7141T	57 45 31	136 3 47	.3	1.0	.1	.1	3.8
SID7142T	57 46 14	136 0 46	.3	1.8	.1	.1	3.5
SID7143T	57 46 52	136 1 21	.1	3.7	.1	.1	2.0
SID7144T	57 47 2	136 1 5	.2	3.9	.1	.1	1.8
SID8021T	57 59 30	136 27 22	.5	1.5	<.1	.2	5.3
SID8022T	57 58 56	136 28 0	.5	.1	<.1	.3	3.6
SID8023T	57 58 52	136 29 37	.5	2.1	.1	.6	4.9
SID8024T	57 59 43	136 28 57	.6	.2	<.1	.9	7.2
SID8025A	57 59 8	136 24 38	.3	3.8	<.1	.3	17.2
SID8025T	57 59 8	136 24 38	.3	3.0	<.1	.3	62.0
SID8026T	57 58 58	136 24 36	.3	1.2	<.1	.3	97.0
SID8028T	57 57 48	136 27 0	.1	1.2	<.1	.3	14.7
SID8029T	57 56 22	136 28 35	.1	1.5	<.1	.2	11.0
SID8031T	57 56 26	136 30 35	.2	N	<.1	.5	15.7
SID8032T	57 56 22	136 27 27	<.1	.3	<.1	.3	5.0

Treated water samples--continued

sample	LATITUDE	LONGITUD	AA-AS	AA-CU	INST-U	AA-MO	AA-ZN
SID8033T	57 56 31	136 25 23	<.1	.4	<.1	.2	7.0
SID8034T	57 56 54	136 26 20	<.1	8.0	<.1	.3	115.0
SID8035T	57 53 55	136 26 27	.2	1.8	<.1	.3	10.7
SID8036T	57 53 38	136 27 48	.2	6.9	.1	1.6	3.6
SID8037T	57 52 28	136 26 46	.1	3.4	.1	1.5	7.5
SID8038T	57 52 54	136 25 13	.3	3.5	.1	1.3	5.6
SID8039T	57 53 55	136 24 15	.5	4.2	<.1	1.1	4.2
SID8040T	57 54 25	136 23 51	.6	37.0	<.1	1.0	11.9
SID8041T	57 55 25	136 23 21	.8	1.6	<.1	1.0	2.1
SID8042T	57 57 12	136 23 39	.9	2.6	<.1	.9	2.3
SID8043T	57 59 12	136 22 51	1.1	5.8	<.1	1.0	5.4
SID8044T	57 59 23	136 23 18	1.0	4.1	<.1	.8	3.2
SID8045T	57 58 21	136 22 14	.9	1.9	<.1	.9	2.7
SID8046T	57 56 40	136 21 42	3.5	1.3	<.1	.8	1.8
SID8047T	57 55 6	136 20 25	1.3	3.7	<.1	.7	7.4
SID8060T	57 52 41	136 20 58	.3	2.9	<.1	.6	4.4
SID8061T	57 54 19	136 22 44	.2	4.8	<.1	.7	4.0
SID8062T	57 50 4	136 23 45	.2	.9	.1	.7	7.2
SID8063T	57 50 49	136 22 15	<.1	1.5	.1	.6	1.9
SID8064T	57 50 57	136 22 32	<.1	1.7	<.1	.6	2.6
SID8065T	57 51 42	136 20 37	<.1	.7	<.1	.7	1.2
SID8066T	57 52 9	136 20 27	<.1	2.4	<.1	.6	1.4
SID8067T	57 49 54	136 21 7	<.1	1.0	<.1	.5	1.9
SID8068T	57 48 30	136 20 23	.2	5.1	.1	.6	4.0
SID8074T	57 58 59	136 20 45	<.1	4.8	<.1	.5	4.8
SID8103T	57 58 33	136 25 33	.1	9.3	<.1	2.9	.5

Sample	SI-F	SO4--
MFA2006W	.02	1.3
MFA2007W	--	3.4
MFA2008W	--	.9
MFA2009W	--	1.8
MFA2010W	--	2.8
MFA2011W	--	1.2
MFA2012W	--	1.3
MFA2013W	--	.8
MFA2014W	--	1.6
MFA2015W	--	1.5
MFA2016W	.03	1.1
MFA2017W	.02	2.2
MFA2018W	.03	2.3
MFA2019W	.02	.9
MFA2020W	.02	1.2
MFA2030W	.02	.9
SIB5300W	--	<.5
SIB5301W	--	<.5
SIB5302W	--	.9
SIB5303W	--	.7
SIB5304W	.03	5.5
SIB5305W	.02	1.5
SIB5311W	.02	.9
SIB5313W	.02	1.5
SIB5314W	.02	.8
SIB5315W	.02	.9
SIB5316W	.02	1.1
SIB5317W	.02	2.9
SIB5318W	.02	2.1
SIB5319W	.02	2.7
SIB6198W	.03	4.3
SIB6199W	.02	3.2
SIB6200W	.02	1.7
SIB6201W	.02	1.9
SIB6202W	.02	.9
SIB6203W	.02	2.9
SIB6204W	.02	1.2
SIB6205W	.02	1.4
SIB6206W	.02	2.0
SIB6207W	.02	2.1
SIB6208W	.02	2.0
SIB6209W	.02	1.1
SIB6210W	.02	3.1
SIB6211W	.02	3.5
SIB6212W	.01	<.5

Sample	SI-F	SO4--
SIB6213W	.01	.5
SIB6214W	.01	.6
SIB6215W	.01	.6
SIB6216W	.02	.8
SIB6217W	.02	1.1
SIB6218W	.02	.8
SIB6219W	.02	.6
SIB6220W	.02	<.5
SIB6221W	.02	.8
SIB6222W	.02	.6
SIB6223W	.02	2.3
SIB6224W	.02	2.1
SIB6225W	.02	1.2
SIB6226W	.02	1.0
SIB6227W	.02	1.4
SIB6228W	.03	1.1
SIB6229W	.02	1.0
SIB6230W	.02	1.0
SIB6231W	.02	1.9
SIB6232W	.02	1.5
SIB6233W	.02	3.3
SIB6234W	.02	2.3
SIB6235W	.02	2.4
SIB6237W	.01	.7
SIB6306W	.02	.6
SIB6307W	.02	<.5
SIB6308W	.01	<.5
SIB6309W	.02	.7
SIB6310W	.02	1.0
SIB6320W	.02	.6
SIB6321W	.01	<.5
SIC5188W	.03	2.3
SIC5189W	.03	.8
SIC5190W	.02	1.9
SIC5197W	.02	.8
SIC5322W	.02	2.4
SIC5323W	.02	2.2
SIC5324W	.02	2.3
SIC5325W	.02	1.4
SIC5334W	.01	1.4
SIC5335W	.03	2.0
SIC5336W	.03	1.5
SIC5337W	.02	1.0
SIC5338W	.02	1.4
SIC5339W	.02	7.0

Sample	SI-F	SO4--
SIC5340W	.02	1.4
SIC5342W	.02	.8
SIC5343W	.02	2.1
SIC6104W	.01	3.0
SIC6105W	.01	2.2
SIC6106W	.01	1.1
SIC6107W	.01	1.6
SIC6108W	.01	.8
SIC6109W	.01	1.2
SIC6110W	.01	.7
SIC6111W	.01	1.2
SIC6112W	.01	.7
SIC6113W	.01	1.0
SIC6150W	.02	2.0
SIC6151W	.03	1.0
SIC6152W	.02	1.7
SIC6153W	.02	1.2
SIC6154W	.02	1.1
SIC6155W	.02	1.4
SIC6156W	.02	1.0
SIC6157W	.02	1.4
SIC6158W	.02	2.2
SIC6159W	.02	1.2
SIC6160W	.01	1.9
SIC6161W	.02	1.7
SIC6162W	.01	1.8
SIC6163W	.02	<.5
SIC6164W	.02	1.5
SIC6165W	.02	.8
SIC6165Z	.02	<.5
SIC6166W	.02	.9
SIC6175W	.02	3.1
SIC6176W	.02	1.7
SIC6177W	.02	2.0
SIC6178W	.02	.6
SIC6179W	.02	.6
SIC6180W	.03	1.0
SIC6181W	.03	<.5
SIC6183W	.02	2.3
SIC6184W	.02	1.2
SIC6186W	.02	1.2
SIC6187W	.03	1.3
SIC6191W	.02	2.5
SIC6192W	.02	1.7
SIC6193W	.02	1.4

Sample	SI-F	SO4--
SIC6194W	.02	.8
SIC6195W	.01	1.4
SIC6196W	.02	1.5
SIC6236W	.02	1.2
SIC6238W	.01	2.7
SIC6239W	.01	1.0
SIC6240W	.01	<.5
SIC6241W	.01	<.5
SIC6242W	.01	1.0
SIC6243W	.01	1.2
SIC6244W	.01	2.6
SIC6245W	.02	1.6
SIC6246W	.01	.9
SIC6247W	.01	2.2
SIC6248W	.01	1.3
SIC6249W	.01	1.1
SIC6250W	.01	1.3
SIC6251W	.01	1.3
SIC6252W	.01	1.1
SIC6253W	.01	.8
SIC6254W	.01	.7
SIC6255W	.01	1.2
SIC6256W	.01	1.1
SIC6257W	.01	1.8
SIC6258W	.01	.6
SIC6263W	.01	.9
SIC6264W	.01	1.3
SIC6265W	.01	1.1
SIC6266W	.01	1.1
SIC6267W	.02	.9
SIC6269W	.01	1.2
SIC6270W	.02	1.4
SIC6271W	.02	1.5
SIC6272W	.01	1.0
SIC6273W	.02	.9
SIC6274W	.02	1.3
SIC6275W	.01	1.1
SIC6276W	.01	.9
SIC6290W	.01	.5
SIC6291W	.01	2.9
SIC6292W	.01	.8
SIC6293W	.02	1.9
SIC6294W	.01	1.6
SIC6297W	.01	.5
SIC6298W	.02	1.4

Sample	SI-F	SO4--
SIC6299W	.01	.7
SIC6326W	.02	1.7
SIC6327W	.02	2.1
SIC6328W	.02	2.3
SIC6329W	.02	1.4
SIC6330W	.02	.8
SIC6331W	.02	.8
SIC6332W	.02	1.1
SIC6333W	.02	5.8
SIC6341W	.02	.7
SIC7167W	.02	2.4
SIC7168W	.02	2.2
SIC7169W	.03	1.2
SIC7170W	.02	2.1
SIC7171W	.02	1.5
SIC7172W	.02	2.2
SIC7173W	.03	1.7
SIC7174W	.02	1.8
SIC7259W	.01	1.4
SIC7260W	.01	1.1
SIC7261W	.01	1.5
SIC7262W	.01	1.3
SIC7277W	.01	.8
SIC7278W	.01	1.2
SIC7279W	.01	.9
SIC7280W	.01	1.2
SIC7281W	.01	1.7
SIC7282W	.02	1.0
SIC7283W	.01	2.2
SIC7284W	.01	.6
SIC7285W	.01	1.2
SIC7286W	.01	1.3
SIC7287W	.01	1.7
SIC7288W	.01	1.5
SIC7289W	.01	.9
SIC7295W	.01	1.6
SIC7296W	.01	.8
SIC7312W	.02	2.1
SID6090W	.01	2.2
SID6091W	.01	1.3
SID6092W	.01	.8
SID6093W	.02	.8
SID6094W	.03	.8
SID6095W	.02	2.9
SID6096W	.02	2.4

Sample	SI-F	SO4--
SID6097W	.02	2.2
SID6098W	.02	1.4
SID6099W	.01	.5
SID6100B	.01	1.2
SID6100W	.01	<.5
SID6145W	.02	1.8
SID6146W	.01	1.0
SID6147W	.02	1.9
SID6148W	.02	5.8
SID6149W	.02	.6
SID7001W	.02	<.5
SID7002W	.02	<.5
SID7003W	.02	5.7
SID7004W	.02	1.0
SID7005W	.01	.7
SID7048W	.01	.5
SID7049W	.02	.8
SID7050W	.02	.8
SID7051W	.02	.9
SID7052W	.02	.7
SID7053W	.02	.9
SID7054W	.02	.8
SID7055W	.02	.8
SID7056W	.02	.7
SID7057W	.04	.9
SID7058W	.03	<.5
SID7059W	.02	<.5
SID7069W	.02	1.1
SID7070W	.02	1.3
SID7071W	.01	<.5
SID7072W	.01	<.5
SID7073W	.01	<.5
SID7075W	.01	.7
SID7076W	.01	<.5
SID7078W	.02	1.5
SID7079W	.01	<.5
SID7080W	.01	<.5
SID7081W	.02	.8
SID7082W	.01	.8
SID7083W	.02	1.0
SID7084W	.03	1.0
SID7085W	.02	2.5
SID7086W	.01	1.9
SID7087W	.01	1.5
SID7088W	.01	5.6

Sample	SI-F	SO4--
SID7089W	.01	.8
SID7101W	.01	4.0
SID7102W	.01	1.7
SID7114W	.01	<.5
SID7115W	.01	1.2
SID7116W	.01	.6
SID7117W	.01	.8
SID7118W	.01	.6
SID7119W	.01	.8
SID7120W	.01	<.5
SID7121W	.01	<.5
SID7122W	.01	1.7
SID7123W	.01	<.5
SID7124W	.01	<.5
SID7125W	.01	.9
SID7126W	.02	.9
SID7127W	.01	1.5
SID7128W	.01	1.7
SID7129W	.01	1.3
SID7130W	.03	1.3
SID7131W	.02	1.4
SID7132W	.02	1.9
SID7133W	.02	<.5
SID7134W	.01	1.3
SID7135W	.02	1.6
SID7136W	.02	<.5
SID7137W	.02	1.2
SID7138W	.01	1.7
SID7139W	.02	1.3
SID7140W	.02	1.7
SID7141W	.02	1.0
SID7142W	.02	.9
SID7143W	.03	.8
SID7144W	.02	1.3
SID8021W	.03	1.2
SID8022W	.03	.8
SID8023W	.03	1.0
SID8024W	.03	2.1
SID8025A	.02	1.0
SID8025W	.02	.5
SID8026W	.02	.5
SID8028W	.02	1.0
SID8029W	.02	1.0
SID8031W	.02	.8
SID8032W	.02	1.0

Sample	SI-F	SO4--
SID8033W	.02	.8
SID8034W	.02	1.4
SID8035W	.02	1.5
SID8036W	.02	1.0
SID8037W	.02	.7
SID8038W	.02	.8
SID8039W	.02	.7
SID8040W	.02	1.0
SID8041W	.02	.8
SID8042W	.03	2.1
SID8043W	.01	2.2
SID8044W	.02	1.3
SID8045W	.01	.5
SID8046W	.02	1.4
SID8047W	.02	1.1
SID8060W	.02	.8
SID8061W	.02	.9
SID8062W	.01	1.0
SID8063W	.02	1.0
SID8064W	.02	.9
SID8065W	.02	1.3
SID8066W	.03	.7
SID8067W	.02	1.0
SID8068W	.02	1.6
SID8074W	.02	<.5

TABLE 3.--*Analytical results for rock samples.*

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
MFA2350R	58 2 22	136 28 32	15.00	7.0	5.0	1.00	2,000	N	N	N	10	20	N	N
SIB4323A	57 30 5	135 42 53	10.00	3.0	3.0	1.00	1,000	N	N	N	<10	500	N	N
SIB432RB	57 29 40	135 42 45	10.00	2.0	3.0	.70	1,500	N	N	N	<10	700	N	N
SIB433RA	57 29 10	135 42 30	2.00	.5	2.0	.15	1,000	N	N	N	20	700	N	N
SIB433RB	57 29 10	135 42 30	15.00	7.0	10.0	1.00	2,000	N	N	N	30	500	N	N
SIB5311A	57 26 36	135 32 10	3.00	2.0	15.0	.30	700	N	N	N	30	150	N	N
SIB5426R	57 28 26	135 35 7	5.00	2.0	2.0	.30	1,000	N	N	N	<10	300	N	N
SIB5427R	57 28 44	135 38 1	10.00	3.0	5.0	.50	1,500	N	N	N	10	700	N	N
SIB5428R	57 27 45	135 38 3	3.00	1.0	1.5	.20	700	N	N	N	20	700	N	N
SIB5429R	57 25 56	135 38 12	5.00	2.0	3.0	.30	1,000	N	N	N	30	1,000	N	N
SIB6430R	57 23 57	135 41 30	3.00	2.0	2.0	.20	700	N	N	N	<10	500	N	N
SIB6431R	57 28 38	135 43 46	2.00	.5	1.5	.10	700	N	N	N	<10	700	N	N
SIB6434R	57 29 43	135 40 18	5.00	2.0	3.0	.50	1,500	N	N	N	<10	700	N	N
SIB6435R	57 26 3	135 43 12	3.00	2.0	2.0	.20	700	N	N	N	20	500	N	N
SIB6436R	57 24 46	135 43 17	10.00	7.0	3.0	.70	1,000	N	N	N	10	70	N	N
SIB6437R	57 23 11	135 42 43	3.00	1.0	.2	.20	700	N	N	N	30	1,500	N	N
SIB6438R	57 24 13	135 46 32	5.00	2.0	2.0	.50	1,000	N	N	N	30	1,500	1	N
SIB6439R	57 23 58	135 48 29	3.00	1.0	1.0	.20	200	N	N	N	10	1,000	1	N
SIC377RA	57 41 10	135 58 30	2.00	1.0	1.0	.20	500	N	N	N	10	150	N	N
SIC377RB	57 41 10	135 58 30	.05	.5	10.0	.01	100	N	N	N	N	<20	N	N
SIC377RC	57 41 10	135 58 30	5.00	2.0	2.0	.50	1,000	N	N	N	30	500	N	N
SIC5363R	57 39 30	135 35 37	5.00	2.0	3.0	.70	1,500	N	N	N	10	500	N	N
SIC5364R	57 41 50	135 39 20	15.00	2.0	3.0	.50	1,000	N	N	N	10	500	N	N
SIC5405R	57 40 10	135 39 30	7.00	5.0	2.0	.50	1,500	N	N	N	<10	500	N	N
SIC5411R	57 38 53	135 36 40	7.00	1.0	2.0	.50	500	N	N	N	30	700	1	N
SIC5412R	57 40 10	135 37 0	7.00	2.0	2.0	.50	700	N	N	N	<10	500	N	N
SIC6365R	57 42 25	135 42 0	7.00	2.0	3.0	.30	1,500	N	N	N	15	1,000	N	N
SIC6366R	57 41 44	135 42 16	10.00	2.0	3.0	.50	1,000	N	N	N	<10	700	N	N
SIC6376R	57 40 28	135 58 57	5.00	2.0	1.0	.30	700	N	N	N	10	200	N	N
SIC6378R	57 39 22	135 57 0	5.00	2.0	2.0	.50	700	N	N	N	10	300	N	N
SIC6379R	57 41 30	135 56 50	10.00	3.0	3.0	.70	700	N	N	N	10	50	N	N
SIC6380R	57 41 24	135 56 5	2.00	1.0	1.0	.10	700	N	N	N	<10	1,000	N	N
SIC6381R	57 43 21	135 57 11	10.00	2.0	3.0	1.00	700	N	N	N	<10	20	N	N
SIC6403R	57 39 26	135 47 57	5.00	2.0	3.0	.30	1,000	N	N	N	<10	700	N	N
SIC6404R	57 38 26	135 46 22	7.00	2.0	2.0	.50	700	N	N	N	<10	1,000	N	N
SIC6405R	57 39 0	135 44 48	3.00	1.0	.5	.20	200	N	N	N	<10	3,000	N	N
SIC6406R	57 40 50	135 46 42	2.00	.5	1.0	.10	700	N	N	N	<10	1,500	N	N
SIC6407R	57 41 11	135 43 9	10.00	5.0	10.0	.50	1,000	N	N	N	<10	300	N	N
SIC6408R	57 42 2	135 41 48	3.00	2.0	2.0	.30	1,000	N	N	N	<10	1,000	N	N
SIC6413R	57 37 44	135 51 18	7.00	3.0	3.0	.50	1,000	N	N	N	10	100	N	N
SIC6414R	57 36 42	135 54 5	20.00	7.0	5.0	1.00	5,000	N	N	N	30	300	N	N
SIC6415R	57 36 4	135 51 28	10.00	2.0	3.0	1.00	1,500	N	N	N	30	700	1	N
SIC6416R	57 35 49	135 51 5	7.00	2.0	2.0	.70	700	N	N	N	30	700	N	N
SIC6418R	57 32 8	135 56 34	5.00	2.0	1.0	.50	700	N	N	N	30	1,000	1	N
SIC6419R	57 34 19	135 53 16	5.00	2.0	3.0	.30	1,000	N	N	N	10	1,000	N	N

sample	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V
MFA2350R	N	30	200	70	N	N	N	70	N	N	20	N	100	700
SIB432RA	N	50	70	150	N	N	N	70	<10	N	20	N	300	200
SIB432RB	N	30	50	200	N	N	N	70	<10	N	15	N	100	200
SIB433RA	N	N	N	5	N	N	N	<5	<10	N	5	N	700	10
SIB433RB	N	50	200	200	N	N	N	70	<10	N	30	N	300	300
SIB5313A	N	20	100	150	N	N	N	70	10	N	15	N	1,000	150
SIB5426R	N	20	20	70	N	N	N	10	<10	N	15	N	300	150
SIB5427R	N	30	20	150	N	N	N	15	<10	N	20	N	1,000	200
SIB5428R	N	5	N	15	N	N	N	5	N	N	5	N	300	30
SIB5429R	N	20	20	50	N	N	N	10	<10	N	15	N	700	150
SIB6430R	N	15	10	15	N	N	N	10	<10	N	7	N	500	150
SIB6431R	N	5	N	<5	N	N	N	<5	<10	N	N	N	500	10
SIB6434R	N	15	70	15	20	N	N	30	<10	N	15	N	500	100
SIB6435R	N	15	10	15	N	N	N	10	<10	N	5	N	300	100
SIB6436R	N	30	700	200	N	N	N	200	<10	N	20	N	100	200
SIB6437R	N	5	50	50	N	<5	N	10	<10	N	5	N	N	100
SIB6438R	N	15	150	30	30	N	N	50	15	N	10	N	300	150
SIB6439R	N	5	30	7	20	N	N	10	10	N	5	N	100	50
SIC377RA	N	10	30	15	N	N	N	20	N	N	5	N	150	100
SIC377RB	N	N	N	N	N	N	N	N	N	N	N	N	300	10
SIC377RC	N	15	30	50	N	N	N	30	<10	N	10	N	300	100
SIC5363R	N	10	N	70	N	N	N	5	<10	N	15	N	200	100
SIC5364R	N	30	50	50	N	N	N	20	N	N	15	N	700	300
SIC5409R	N	20	70	15	N	N	N	50	<10	N	15	N	300	200
SIC5411R	N	15	50	15	20	N	N	30	10	N	15	N	100	100
SIC5412R	N	15	20	70	N	5	N	5	10	N	15	N	700	200
SIC6365R	N	15	10	15	N	N	N	5	<10	N	7	N	1,000	150
SIC6366R	N	15	N	20	N	N	N	<5	N	N	7	N	700	200
SIC6376R	N	15	30	20	N	N	N	20	N	N	10	N	150	100
SIC6378R	N	15	100	30	N	N	N	50	<10	N	10	N	300	200
SIC6379R	N	30	300	100	N	N	N	70	N	N	20	N	100	200
SIC6380R	N	5	N	5	N	N	N	<5	N	N	5	N	200	30
SIC6381R	N	30	70	300	N	N	N	50	<10	N	15	N	150	200
SIC6403R	N	15	10	70	N	N	N	10	<10	N	10	N	500	150
SIC6404R	N	15	50	15	N	N	N	15	<10	N	15	N	500	200
SIC6405R	N	5	10	50	N	50	N	15	<10	N	5	N	N	200
SIC6406R	N	5	N	<5	N	N	N	5	10	N	N	N	300	15
SIC6407R	N	20	200	70	N	N	N	50	<10	N	20	N	300	300
SIC6408R	N	10	N	7	N	N	N	5	<10	N	5	N	500	100
SIC6413R	N	30	70	150	N	N	N	20	<10	N	20	N	300	200
SIC6414R	N	50	300	100	N	N	N	70	<10	N	30	N	150	500
SIC6415R	N	20	150	70	N	N	N	50	10	N	15	N	700	300
SIC6416R	N	20	150	70	N	N	N	50	10	N	15	N	300	200
SIC6418R	N	10	70	10	20	N	N	20	10	N	10	N	300	150
SIC6419R	N	15	50	50	N	N	N	15	<10	N	10	N	500	150

Rock samples

sample	S-W	S-Y	S-ZN	S-ZR	S-TH	AA-AU-P	INST-NG	AA-CU-P	AA-PB-P	AA-ZN-P	CM-AS	EQUIV U
MFA2350R	N	30	N	100	N	N	.24	20	10	25	10	<20
SIB432RA	N	30	N	100	N	.40	N	130	10	20	N	<20
SIB432RB	N	30	N	70	N	7.20	N	210	15	35	N	<20
SIB433RA	N	10	N	100	N	N	.02	10	15	40	N	<20
SIB433RB	N	50	N	200	N	N	.02	140	10	30	N	<20
SIB5313A	N	30	N	100	N	--	--	--	--	--	--	--
SIB5426R	N	30	N	70	N	N	N	50	15	10	N	<20
SIB5427R	N	30	N	70	N	N	N	115	10	15	N	<20
SIB5428R	N	10	N	100	N	N	N	20	20	40	N	<20
SIB5429R	N	10	N	70	N	N	N	25	15	50	<10	<20
SIB6430R	N	10	N	20	N	N	N	20	20	20	N	<20
SIB6431R	N	N	N	70	N	N	N	<5	10	40	N	<20
SIB6434R	N	30	N	150	N	N	N	15	15	35	N	<20
SIB6435R	N	N	N	30	N	N	.02	20	15	35	N	<20
SIB6436R	N	30	N	100	N	N	N	185	15	10	N	<20
SIB6437R	N	<10	N	100	N	N	.06	40	10	15	N	<20
SIB6438R	N	30	N	200	N	N	.02	25	20	35	<10	<20
SIB6439R	N	10	N	100	N	N	N	10	20	25	N	<20
SIC377RA	N	N	N	50	N	N	N	25	10	40	N	<20
SIC377RB	N	N	N	N	N	N	N	5	25	5	N	<20
SIC377RC	N	10	N	100	N	N	N	30	10	70	10	<20
SIC5363R	N	30	N	200	N	N	.04	135	10	40	10	<20
SIC5364R	N	30	N	100	N	N	.03	5	10	40	10	<20
SIC5409R	N	20	N	70	N	N	N	10	15	50	N	<20
SIC5411R	N	50	N	200	N	.20	N	10	10	50	N	<20
SIC5412R	N	30	N	200	N	<.05	N	65	15	70	N	<20
SIC6365R	N	20	N	150	N	N	.03	20	10	30	N	<20
SIC6366R	N	15	N	30	N	N	.12	30	15	45	<10	<20
SIC6376R	N	10	N	100	N	N	N	30	10	60	<10	<20
SIC6378R	N	10	N	100	N	N	N	30	10	55	10	<20
SIC6379R	N	30	N	150	N	N	N	140	10	50	N	<20
SIC6380R	N	N	N	70	N	N	N	5	10	25	N	<20
SIC6381R	N	30	N	150	N	N	N	480	10	15	N	<20
SIC6403R	N	15	N	70	N	N	N	75	15	35	<10	<20
SIC6404R	N	20	N	200	N	N	N	10	15	30	N	<20
SIC6405R	N	10	N	70	N	N	.04	45	15	35	N	<20
SIC6406R	N	N	N	70	N	N	N	N	15	20	N	<20
SIC6407R	N	30	N	50	N	N	N	70	15	25	N	<20
SIC6408R	N	20	N	100	N	N	N	10	15	40	N	<20
SIC6413R	N	20	N	70	N	N	N	90	15	35	N	<20
SIC6414R	N	50	N	200	N	N	.06	65	20	80	N	<20
SIC6415R	N	30	N	200	N	N	N	50	20	75	N	<20
SIC6416R	N	30	N	150	N	N	N	45	20	55	N	<20
SIC6418R	N	20	N	200	N	.20	N	5	20	50	N	<20
						--	--	35	15	75	N	<20

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
SIC6420R	57 35 12	135 51 28	3.00	1.0	2.0	.15	700	N	N	N	<10	500	N	N
SIC6421R	57 32 5	135 52 16	5.00	2.0	1.5	.50	700	N	N	N	20	1,000	N	N
SIC6422R	57 31 11	135 52 56	7.00	5.0	3.0	1.00	1,000	N	N	N	30	700	N	N
SIC6423R	57 33 59	135 45 2	5.00	2.0	2.0	.20	1,000	N	N	N	<10	1,000	N	N
SIC6424R	57 34 47	135 42 13	10.00	3.0	3.0	.70	1,000	N	N	N	<10	100	N	N
SIC6425R	57 32 48	135 42 45	5.00	2.0	2.0	.30	1,000	N	N	N	10	500	N	N
SIC7375R	57 40 31	136 6 21	7.00	2.0	.2	.50	700	N	N	N	50	500	1	N
SIC7400R	57 39 42	136 0 25	10.00	3.0	2.0	.50	1,000	N	N	N	30	500	N	N
SIC7401R	57 40 41	136 0 0	10.00	3.0	2.0	.50	1,500	N	N	N	30	700	N	N
SIC7402R	57 42 58	136 0 23	15.00	3.0	3.0	.70	1,500	N	N	N	10	700	N	N
SIC7417R	57 30 20	136 0 35	7.00	2.0	1.0	.50	700	N	N	N	30	700	N	N
SID355RA	57 52 30	136 28 49	15.00	2.0	3.0	.70	2,000	N	N	N	<10	200	N	N
SID355RB	57 52 30	136 28 49	20.00	7.0	10.0	>1.00	5,000	N	N	N	30	70	N	N
SID391RA	57 50 45	135 56 0	10.00	2.0	3.0	.50	1,000	N	N	N	10	200	N	N
SID391RB	57 50 45	135 56 0	10.00	5.0	2.0	.30	1,000	N	N	--	10	100	N	N
SID6392R	57 51 9	135 59 7	5.00	2.0	3.0	.30	700	N	N	--	<10	100	N	N
SID6393R	57 49 29	135 52 2	5.00	2.0	3.0	.50	1,000	N	N	--	<10	200	N	N
SID6394R	57 48 0	135 55 0	5.00	2.0	2.0	.30	1,000	N	N	N	<10	700	N	N
SID6395R	57 46 29	135 52 5	5.00	1.0	2.0	.30	1,000	N	N	N	<10	200	N	N
SID7268R	57 47 35	136 19 11	20.00	3.0	.7	.02	300	N	N	N	30	30	N	N
SID7357R	57 47 10	136 19 30	15.00	5.0	5.0	1.00	2,000	N	N	N	<10	100	N	N
SID7358R	57 45 50	136 17 50	15.00	2.0	2.0	.70	700	N	N	N	20	1,000	2	N
SID7359R	57 54 1	136 10 45	20.00	7.0	20.0	>1.00	2,000	N	N	N	30	70	N	N
SID7360R	57 51 4	136 4 38	15.00	5.0	5.0	.70	1,500	N	N	N	<10	500	N	N
SID7361R	57 50 0	136 3 10	15.00	7.0	10.0	.70	2,000	N	N	N	20	200	N	N
SID7368R	57 53 29	136 17 18	15.00	5.0	10.0	1.00	3,000	N	N	N	30	700	N	N
SID7370R	57 57 29	136 18 38	20.00	7.0	15.0	.70	2,000	N	N	N	<10	100	N	N
SID7371R	57 58 10	136 16 15	2.00	.5	1.0	.10	700	N	N	N	30	500	N	N
SID7372R	57 54 45	136 14 10	15.00	7.0	10.0	.70	3,000	N	N	N	50	500	N	N
SID7373R	57 54 33	136 18 11	15.00	5.0	10.0	.70	1,500	N	N	N	10	200	N	N
SID7382R	57 56 33	136 7 2	3.00	2.0	10.0	.20	500	.5	N	N	20	300	1	N
SID7383R	57 53 24	136 3 52	3.00	2.0	2.0	.20	1,000	N	N	N	<10	700	N	N
SID7384R	57 51 42	136 0 32	5.00	2.0	5.0	.30	700	N	N	N	<10	100	N	N
SID7385R	57 49 29	136 2 34	5.00	2.0	2.0	.50	700	N	N	N	10	200	N	N
SID7386R	57 50 23	136 11 2	5.00	2.0	2.0	.50	700	N	N	N	10	200	N	N
SID7387R	57 52 3	136 12 50	5.00	1.0	2.0	.20	1,000	N	N	N	20	500	N	N
SID7388R	57 51 48	136 13 50	7.00	2.0	3.0	.50	1,000	N	N	N	<10	150	N	N
SID7389R	57 51 24	136 14 37	10.00	2.0	3.0	.70	1,000	N	N	N	<10	500	N	N
SID7390R	57 50 32	136 14 3	10.00	3.0	3.0	.70	1,000	N	N	N	<10	150	N	N
SID7396R	57 52 42	136 8 15	10.00	3.0	3.0	.50	1,000	N	N	N	10	300	N	N
SID7398R	57 51 55	136 17 42	15.00	5.0	3.0	>1.00	2,000	7.0	N	N	10	150	N	N
SID8352R	57 59 5	136 25 52	15.00	10.0	10.0	.30	1,500	N	N	N	10	30	N	N
SID8353R	57 59 2	136 25 5	15.00	3.0	10.0	.50	1,500	N	N	N	30	150	N	N
SID8354R	57 51 11	136 27 31	15.00	7.0	10.0	1.00	1,500	N	N	N	20	500	N	N
SID8356R	57 48 35	136 21 15	15.00	2.0	3.0	.70	700	N	N	N	10	1,000	1	N

Rock samples--continued

sample	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V
SIC6420R	N	10	10	5	N	N	N	5	<10	N	5	N	300	70
SIC6421R	N	15	70	50	N	N	N	20	<10	N	10	N	500	150
SIC6422R	N	20	100	50	N	N	N	30	10	N	20	N	500	300
SIC6423R	N	15	10	20	N	N	N	7	<10	N	7	N	500	150
SIC6424R	N	50	100	200	N	N	N	70	<10	N	20	N	100	300
SIC6425R	N	30	10	70	N	N	N	10	<10	N	15	N	300	150
SIC7375R	N	15	150	50	N	N	N	70	10	N	15	N	200	200
SIC7400R	N	30	50	100	N	N	N	20	<10	N	20	N	500	300
SIC7401R	N	15	100	70	N	N	N	50	10	N	15	N	300	300
SIC7402R	N	30	200	200	N	N	N	50	<10	N	15	N	200	200
SIC7417R	N	15	150	50	N	N	N	50	<10	N	10	N	300	150
SID355RA	N	15	N	50	N	N	N	5	<10	N	10	N	200	100
SID355RB	N	30	700	150	N	N	N	100	<10	N	30	N	500	700
SID391RA	N	50	20	200	N	N	N	20	<10	N	15	N	500	150
SID391RB	N	50	150	50	N	N	N	30	<10	N	15	N	100	200
SID6392R	N	30	100	20	N	N	N	10	<10	N	7	N	500	100
SID6393R	N	15	70	70	N	N	N	10	10	N	15	N	500	150
SID6394R	N	15	10	10	N	N	N	10	<10	N	10	N	700	150
SID6395R	N	10	N	15	N	N	N	5	<10	N	7	N	700	70
SID7268R	N	>2,000	1,500	5,000	N	N	N	>5,000	<10	N	10	N	300	20
SID7357R	N	20	70	200	N	N	N	30	N	N	15	N	500	700
SID7358R	N	15	100	70	20	N	N	30	30	N	15	N	700	300
SID7359R	N	30	10	200	N	N	N	20	<10	N	30	N	1,000	1,000
SID7360R	N	20	20	70	N	N	N	15	<10	N	15	N	500	500
SID7361R	N	30	200	300	N	N	N	30	<10	N	20	N	500	700
SID7368R	N	30	30	70	N	N	N	15	<10	N	15	N	700	500
SID7370R	N	30	30	70	N	N	N	10	<10	N	15	N	700	700
SID7371R	N	5	N	<5	N	N	N	5	15	N	N	N	500	20
SID7372R	N	30	50	30	N	N	N	15	<10	N	15	N	700	700
SID7373R	N	30	150	7	N	N	N	20	<10	N	20	N	300	700
SID7382R	N	15	70	50	20	N	N	30	<10	N	7	N	500	100
SID7383R	N	10	70	20	N	N	N	20	10	N	7	N	200	100
SID7384R	N	30	50	20	N	N	N	15	<10	N	15	N	300	200
SID7385R	N	30	70	100	N	N	N	20	<10	N	15	N	300	150
SID7386R	N	30	N	30	N	N	N	5	<10	N	10	N	300	150
SID7387R	N	10	10	7	N	N	N	5	<10	N	10	N	300	100
SID7388R	N	30	150	100	N	N	N	70	N	N	15	N	300	200
SID7389R	N	30	50	100	N	N	N	50	<10	N	15	N	100	300
SID7390R	N	30	200	200	N	N	N	50	<10	N	15	N	200	200
SID7396R	N	30	N	100	N	N	N	10	<10	N	15	N	500	200
SID7398R	N	50	150	200	N	N	N	50	<10	N	30	N	100	700
SID8352R	N	30	1,000	100	N	N	N	200	N	N	20	N	100	500
SID8353R	N	20	20	70	N	N	N	20	N	N	20	N	500	700
SID8354R	N	30	150	100	N	N	N	100	10	N	20	N	200	700
SID8356R	N	20	100	70	20	N	N	30	50	N	15	N	700	300

Rock samples--continued

sample	S-W	S-Y	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	AA-CU-P	AA-PB-P	AA-ZN-P	CM-AS	EQUIV U
SIC6420R	N	<10	N	70	N	N	N	5	15	30	10	<20
SIC6421R	N	10	N	70	N	N	N	25	15	60	10	<20
SIC6422R	N	30	N	200	N	.20	N	25	15	50	N	<20
SIC6423R	N	<10	N	100	N	N	N	15	10	40	10	<20
SIC6424R	N	30	N	100	N	N	N	200	10	35	N	<20
SIC6425R	N	15	N	150	N	N	N	45	10	35	N	<20
SIC7375R	N	30	N	150	N	N	.02	40	15	100	20	<20
SIC7400R	N	30	N	70	N	N	.02	185	15	75	N	<20
SIC7401R	N	30	N	200	N	N	.08	65	15	85	N	<20
SIC7402R	N	30	N	200	N	N	.02	175	15	50	N	<20
SIC7417R	N	30	N	150	N	N	.02	30	20	90	N	<20
SID355RA	N	50	N	150	N	N	N	40	10	55	10	<20
SID355RB	N	30	N	100	N	.40	.06	60	10	60	<10	<20
SID391RA	N	30	N	30	N	.40	.04	140	10	40	10	<20
SID391RB	N	N	N	N	N	N	.02	40	10	50	N	<20
SID6392R	N	10	N	30	N	N	.04	20	20	30	N	<20
SID6393R	N	30	N	150	N	N	.02	60	10	40	N	<20
SID6394R	N	20	N	20	N	N	N	5	15	40	N	<20
SID6395R	N	20	N	70	N	.10	N	15	5	30	N	<20
SID7268R	N	<10	200	N	N	<.05	--	10,500	20	40	--	--
SID7357R	N	N	N	N	N	N	.04	35	15	70	10	<20
SID7358R	N	30	N	200	N	N	.02	90	10	22	N	<20
SID7359R	N	20	N	N	N	N	.04	55	15	55	10	<20
SID7360R	N	30	N	50	N	N	.02	60	20	40	<10	<20
SID7361R	N	30	N	70	N	N	.14	5	10	55	N	<20
SID7368R	N	30	N	100	N	.25	N	40	10	35	N	<20
SID7370R	N	<10	N	N	N	N	N	50	10	60	N	<20
SID7371R	N	<10	N	70	N	N	.04	N	15	25	N	<20
SID7372R	N	30	N	70	N	N	.02	15	10	45	N	<20
SID7373R	N	20	N	50	N	N	N	5	10	40	N	<20
SID7382R	N	20	N	100	N	N	.04	65	20	40	<10	<20
SID7383R	N	20	N	70	N	N	.02	30	10	25	80	<20
SID7384R	N	10	N	20	N	N	N	25	10	20	<10	<20
SID7385R	N	30	N	200	N	N	.04	135	15	40	N	<20
SID7386R	N	10	N	70	N	N	N	30	15	35	N	<20
SID7387R	N	15	N	150	N	N	N	5	10	50	<10	<20
SID7388R	N	20	N	100	N	N	N	130	10	60	10	<20
SID7389R	N	30	N	150	N	N	N	125	10	40	N	<20
SID7390R	N	30	N	100	N	N	N	160	10	50	N	<20
SID7396R	N	10	N	N	N	N	N	70	10	50	N	<20
SID7398R	N	50	N	200	N	N	N	130	15	25	N	<20
SID8352R	N	15	N	20	N	N	.50	65	10	10	20	<20
SID8353R	N	10	N	10	N	N	.14	35	10	45	<10	<20
SID8354R	N	30	N	200	N	N	.06	55	10	30	<10	<20

Rock samples--continued

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
SID8367R	57 53 53	136 20 47	20.00	7.0	10.0	>1.00	3,000	N	N	N	15	150	N	N
SID8369R	57 56 17	136 20 41	15.00	5.0	5.0	.50	1,500	N	N	N	<10	150	N	N
SID8374R	57 55 10	136 20 12	5.00	2.0	2.0	.20	1,000	N	N	N	10	300	N	N
SID8397R	57 58 57	136 20 45	15.00	5.0	3.0	.50	1,500	N	N	N	30	70	N	N

Rock samples--continued

sample	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V
S108367R	N	30	300	300	N	N	N	100	<10	N	30	N	200	1,000
S108369R	N	30	20	70	N	N	N	10	N	N	15	N	200	500
S108374R	N	15	10	20	N	N	N	5	N	N	10	N	500	100
S108397R	N	30	30	70	N	N	N	20	<10	N	20	N	300	500

Rock samples--continued

sample	S-W	S-Y	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	AA-CU-P	AA-PB-P	AA-ZN-P	CM-AS	EQUIV U
SID8367R	N	50	N	200	N	N	N	190	10	30	N	<20
SID8369R	N	20	N	30	N	N	.02	40	10	70	20	<20
SID8374R	N	15	N	70	N	N	N	25	5	30	N	<20
SID8397R	N	10	N	N	N	N	.02	65	15	85	N	<20

TABLE 4.--*Analytical results for -80-mesh stream-sediment samples.*

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE
MFA2006S	58 1 50	136 22 16	5	2.0	5.0	.5	1,500	N	N	N	50	200	N
MFA2007S	58 2 36	136 23 46	5	2.0	5.0	.5	1,000	N	N	N	50	200	N
MFA2008S	58 3 21	136 25 57	5	2.0	5.0	.7	1,000	N	N	N	50	200	N
MFA2009S	58 1 25	136 28 58	5	2.0	5.0	.5	1,500	N	N	N	20	100	N
MFA2010S	58 0 17	136 29 21	5	2.0	7.0	.5	1,000	N	N	N	20	100	N
MFA2011S	58 1 43	136 26 44	5	2.0	7.0	.7	1,000	N	N	N	30	100	N
MFA2012S	58 0 33	136 21 10	5	2.0	7.0	.5	1,000	N	N	N	70	100	N
MFA2013S	58 0 12	136 22 16	5	2.0	7.0	.5	1,000	N	N	N	50	150	N
MFA2015S	58 5 19	136 30 9	5	3.0	5.0	.5	1,000	N	N	N	20	50	N
MFA2016S	58 3 31	136 31 6	5	2.0	5.0	.7	1,000	N	N	N	20	100	N
MFA2017S	58 4 9	136 32 42	5	2.0	5.0	.7	3,000	N	N	N	30	300	N
MFA2018S	58 4 19	136 32 52	5	2.0	5.0	.5	3,000	N	N	N	30	300	N
MFA2020S	58 1 56	136 33 6	5	2.0	3.0	.5	1,000	N	N	N	20	500	N
MFA2030S	58 0 16	136 25 30	5	3.0	5.0	.5	2,000	N	N	N	30	300	N
MFA2351S	58 1 12	136 28 32	7	3.0	3.0	.5	1,000	N	N	N	15	200	N
SIB5300S	57 24 43	135 39 49	3	1.5	5.0	.3	1,000	N	N	N	30	300	N
SIB5301S	57 24 41	135 38 26	3	1.5	5.0	.3	1,500	N	N	N	30	200	N
SIB5303S	57 26 37	135 38 0	3	1.0	5.0	.5	1,500	N	N	N	30	500	<1
SIB5304S	57 27 7	135 37 57	5	1.5	2.0	.5	1,500	N	N	N	30	300	<1
SIB5305S	57 27 46	135 39 47	3	1.0	5.0	.5	1,500	N	N	N	50	700	N
SIB5311S	57 27 27	135 39 23	2	1.0	2.0	.3	1,500	N	N	N	30	700	<1
SIB5313B	57 26 36	135 32 10	5	3.0	7.0	.5	1,500	N	N	N	20	200	N
SIB5313S	57 26 36	135 32 10	5	3.0	7.0	.7	1,500	N	N	N	20	300	N
SIB5314S	57 26 51	135 35 35	5	2.0	7.0	.5	1,500	N	N	N	30	700	N
SIB5315S	57 27 19	135 34 2	7	3.0	7.0	.7	2,000	N	N	N	10	500	N
SIB5316S	57 27 40	135 33 11	5	2.0	7.0	.5	1,500	N	N	N	15	500	N
SIB5317S	57 29 49	135 33 42	5	2.0	5.0	.5	1,500	N	N	N	15	500	N
SIB5318S	57 29 14	135 33 0	5	2.0	7.0	.5	1,500	N	N	N	15	300	N
SIB5319S	57 29 16	135 35 34	5	2.0	7.0	.5	1,500	N	N	N	15	500	N
SIB6198S	57 28 57	135 58 7	5	2.0	3.0	.5	>5,000	N	N	N	20	700	N
SIB6199S	57 28 21	135 57 36	5	.7	1.0	.3	700	N	N	N	15	150	<1
SIB6200S	57 27 26	135 55 12	5	2.0	3.0	.7	2,000	N	N	N	50	300	N
SIB6201S	57 26 38	135 53 43	5	1.5	1.5	.7	3,000	N	N	N	70	300	<1
SIB6205S	57 25 20	135 51 13	3	1.0	1.5	.7	1,000	N	N	N	30	700	<1
SIB6207S	57 23 59	135 45 39	3	1.0	1.0	.5	1,000	N	N	N	100	700	<1
SIB6208S	57 23 6	135 44 56	7	2.0	2.0	.7	2,000	N	N	N	70	500	N
SIB6210S	57 22 34	135 41 44	5	1.5	5.0	.7	1,500	N	N	N	70	200	<1
SIB6211S	57 23 11	135 41 14	5	1.5	3.0	.5	2,000	N	N	N	50	300	<1
SIB6212S	57 23 24	135 40 33	3	1.0	3.0	.5	1,500	N	N	N	50	300	N
SIB6213S	57 24 39	135 40 52	3	1.0	1.0	.5	1,000	N	N	N	100	700	<1
SIB6215S	57 25 13	135 42 59	5	1.5	7.0	.5	1,500	N	N	N	50	500	N
SIB6216S	57 25 49	135 42 25	7	2.0	7.0	1.0	1,500	N	N	N	50	300	N
SIB6217S	57 26 38	135 43 46	7	2.0	7.0	1.0	1,500	N	N	N	30	500	N
SIB6218S	57 26 28	135 44 4	5	2.0	5.0	.7	1,500	N	N	N	50	200	N
SIB6219S	57 23 47	135 44 22	5	2.0	2.0	.7	1,500	N	N	N	100	500	N

Stream-sediment samples

sample	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN
MFA2006S	N	N	30	70	50	<20	N	N	20	15	N	20	N
MFA2007S	N	N	30	50	100	<20	N	N	30	15	N	20	N
MFA2008S	N	N	30	100	50	<20	N	N	30	10	N	30	N
MFA2009S	N	N	30	150	150	<20	N	N	30	10	N	30	N
MFA2010S	N	N	30	100	70	<20	N	N	30	10	N	20	N
MFA2011S	N	N	30	70	50	<20	N	N	30	10	N	30	N
MFA2012S	N	N	30	70	100	<20	N	N	30	<10	N	20	N
MFA2013S	N	N	30	70	100	<20	N	N	30	10	N	30	N
MFA2015S	N	N	30	200	70	<20	N	N	50	<10	N	30	N
MFA2016S	N	N	30	200	150	N	N	N	70	<10	N	30	N
MFA2017S	N	N	20	150	30	20	N	N	30	10	N	50	N
MFA2018S	N	N	30	100	30	20	N	N	30	15	N	20	N
MFA2020S	N	N	20	100	50	<20	N	N	30	10	N	20	N
MFA2030S	N	N	70	70	150	<20	N	N	30	15	N	20	N
MFA2351S	N	N	30	300	70	N	N	N	70	20	N	20	N
SIB5300S	N	N	15	30	20	20	N	N	7	10	N	10	N
SIB5301S	N	N	15	50	30	20	N	N	10	10	N	10	N
SIB5303S	N	N	15	70	50	20	N	N	20	10	N	10	N
SIB5304S	N	N	15	200	50	<20	15	N	50	N	N	15	N
SIB5305S	N	N	10	50	50	20	N	N	20	10	N	10	N
SIB5311S	N	N	5	50	20	50	N	N	7	10	N	7	N
SIB5313B	N	N	30	200	70	<20	N	N	50	N	N	30	N
SIB5313S	N	N	30	150	70	<20	N	N	50	<10	N	30	N
SIB5314S	N	N	30	200	70	<20	N	N	50	15	N	20	N
SIB5315S	N	N	30	300	70	<20	N	N	50	N	N	30	N
SIB5316S	N	N	20	100	70	<20	N	N	30	<10	N	20	N
SIB5317S	N	N	20	100	50	20	N	N	30	10	N	20	N
SIB5318S	N	N	20	100	70	<20	N	N	30	<10	N	20	N
SIB5319S	N	N	20	70	70	<20	N	N	30	10	N	20	N
SIB6198S	N	N	50	500	150	<20	10	N	200	<10	N	20	N
SIB6199S	N	N	20	50	30	<20	N	N	20	10	N	7	N
SIB6200S	N	N	50	150	70	20	N	N	50	<10	N	15	N
SIB6201S	N	N	30	70	50	20	N	N	30	15	N	10	N
SIB6205S	N	N	15	50	20	30	N	N	20	20	N	15	N
SIB6207S	N	N	20	70	70	30	N	N	30	20	N	10	N
SIB6208S	N	N	50	150	100	<20	N	N	70	10	N	20	N
SIB6210S	N	N	20	50	50	<20	N	N	30	N	N	20	N
SIB6211S	N	N	30	70	50	20	N	N	30	N	N	20	N
SIB6212S	N	N	15	50	30	20	N	N	15	10	N	15	N
SIB6213S	N	N	20	100	50	20	N	N	30	15	N	15	N
SIB6215S	N	N	20	20	70	20	N	N	20	10	N	15	N
SIB6216S	N	N	30	150	100	<20	N	N	70	10	N	30	N
SIB6217S	N	N	30	100	150	<20	N	N	70	10	N	30	N
SIB6218S	N	N	30	200	150	20	N	N	100	10	N	20	N
SIB6219S	N	N	20	150	70	20	N	N	50	10	N	20	N

Stream-sediment samples

sample	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	U-INST	EQUIV U
MFA2006S	300	200	N	15	N	50	--	--	.26	--	--
MFA2007S	300	200	N	20	N	70	--	--	.14	--	--
MFA2008S	300	200	N	20	N	100	--	N	.06	--	--
MFA2009S	200	200	N	20	N	70	--	N	.30	--	--
MFA2010S	200	200	N	20	N	100	--	N	.06	--	--
MFA2011S	300	200	N	20	N	50	--	N	.14	--	<20
MFA2012S	300	200	N	20	N	50	--	N	.12	--	--
MFA2013S	300	200	N	20	N	50	--	N	.08	--	--
MFA2015S	200	200	N	30	N	70	--	N	.04	--	--
MFA2016S	200	200	N	30	N	70	--	N	.06	--	--
MFA2017S	200	200	N	100	N	100	--	N	.06	--	--
MFA2018S	300	200	N	50	N	70	--	N	.04	--	<20
MFA2020S	300	200	N	15	N	70	--	N	.04	--	<20
MFA2030S	200	200	N	20	N	50	--	N	.35	--	--
MFA2351S	300	200	N	30	N	100	N	N	.02	1.00	--
SIB5300S	500	100	N	10	N	70	--	N	.06	--	--
SIB5301S	300	150	N	15	N	70	--	--	.14	--	--
SIB5303S	300	100	N	20	N	70	--	N	.10	--	--
SIB5304S	100	150	N	20	N	70	--	N	.20	--	--
SIB5305S	300	100	N	15	N	70	--	N	.08	--	--
SIB5311S	300	100	N	15	N	50	--	N	N	--	<20
SIB5313B	300	300	N	20	N	50	--	N	.04	--	<20
SIB5313S	300	300	N	20	N	50	--	N	.06	--	<20
SIB5314S	300	200	N	20	N	70	--	N	.04	--	--
SIB5315S	300	300	N	30	N	50	--	N	.04	--	--
SIB5316S	300	200	N	20	N	70	--	N	.08	--	--
SIB5317S	200	200	N	20	N	50	--	N	.04	--	<20
SIB5318S	300	200	N	20	N	70	--	N	.02	--	--
SIB5319S	300	200	N	20	N	50	--	N	.02	--	--
SIB6198S	100	150	N	20	N	70	--	N	.12	--	--
SIB6199S	100	150	N	10	N	50	--	N	.10	--	--
SIB6200S	200	200	N	20	N	70	--	N	.08	--	--
SIB6201S	150	150	N	15	N	70	--	N	.10	--	--
SIB6205S	200	150	N	15	N	70	--	N	.06	--	--
SIB6207S	100	150	N	20	N	70	--	N	.08	--	--
SIB6208S	200	200	N	20	N	70	--	N	.08	--	--
SIB6210S	200	200	N	20	N	70	--	N	.06	--	--
SIB6211S	200	200	N	20	N	70	--	N	.10	--	--
SIB6212S	200	200	N	15	N	70	--	N	.04	--	--
SIB6213S	100	200	N	20	N	70	--	N	.08	--	<20
SIB6215S	500	200	N	15	N	70	--	N	.04	--	<20
SIB6216S	500	300	N	30	N	100	--	N	.06	--	--
SIB6217S	500	300	N	20	N	70	--	N	.04	--	--
SIB6218S	200	200	N	20	N	70	--	N	.22	--	--
SIB6219S	200	200	N	20	N	70	--	N	.06	--	<20

Stream-sediment samples--continued

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE
SIB6220S	57 25 29	135 46 41	7	2.0	7.0	1.0	1,500	N	N	N	50	200	N
SIB6221S	57 24 39	135 45 35	5	2.0	5.0	1.0	1,500	N	N	N	70	500	N
SIB6222S	57 26 38	135 48 35	7	1.5	1.5	.7	1,000	N	N	N	100	700	N
SIB6223S	57 27 36	135 50 36	5	1.5	1.5	.7	1,500	N	N	N	100	700	N
SIB6224S	57 28 16	135 52 21	5	1.5	1.5	.5	1,000	N	N	N	70	700	N
SIB6225S	57 27 28	135 48 37	5	2.0	5.0	1.0	1,500	N	N	N	50	700	N
SIB6226S	57 27 39	135 46 40	5	2.0	3.0	.7	1,500	<.5	N	N	70	500	N
SIB6227S	57 28 9	135 48 52	5	2.0	7.0	1.0	1,000	N	N	N	20	200	N
SIB6228S	57 28 59	135 48 42	5	2.0	7.0	1.0	1,000	N	N	N	30	200	N
SIB6229S	57 29 28	135 48 27	7	3.0	7.0	1.0	1,500	N	N	N	20	300	N
SIB6230S	57 29 38	135 48 57	5	2.0	7.0	1.0	1,500	N	N	N	30	300	N
SIB6231S	57 28 29	135 49 35	5	2.0	2.0	.7	1,500	N	N	N	100	700	N
SIB6232S	57 29 11	135 51 34	5	2.0	2.0	.7	1,500	N	N	N	70	500	N
SIB6233S	57 29 25	135 50 52	5	2.0	2.0	.7	2,000	N	N	N	70	500	N
SIB6234S	57 29 33	135 51 9	3	1.5	1.5	.5	1,500	N	N	N	70	500	N
SIB6235S	57 29 17	135 52 1	3	1.5	1.0	.5	1,500	2.0	N	N	50	700	N
SIB6237S	57 29 46	135 55 21	5	1.5	1.5	.7	1,500	N	N	N	50	500	N
SIB6306S	57 28 16	135 40 29	3	1.5	5.0	.7	1,500	N	N	N	30	700	N
SIB6307S	57 28 7	135 40 37	1	.3	3.0	.1	1,500	N	N	N	30	700	<1
SIB6308S	57 29 16	135 41 40	5	2.0	7.0	.7	1,500	N	N	N	50	700	N
SIB6309S	57 29 8	135 41 59	5	2.0	7.0	.7	1,500	N	N	N	50	500	N
SIB6310S	57 29 12	135 43 13	5	1.5	5.0	1.0	1,000	N	N	N	50	500	N
SIB6320S	57 26 14	135 40 7	5	1.0	5.0	.7	1,500	N	N	N	30	500	N
SIB6321S	57 28 27	135 44 22	2	.7	3.0	.2	1,000	N	N	N	30	700	<1
SIB6433S	57 29 16	135 42 36	3	.7	1.0	.2	700	N	N	N	15	500	N
SIC5188S	57 40 40	135 37 59	5	2.0	7.0	.7	2,000	N	N	N	50	500	N
SIC5189S	57 40 21	135 37 24	5	2.0	5.0	.5	1,500	N	N	N	10	500	N
SIC5190S	57 38 56	135 36 46	5	2.0	5.0	.5	1,500	N	N	N	30	500	N
SIC5322S	57 30 9	135 37 24	3	1.0	7.0	.5	1,500	N	N	N	30	500	N
SIC5323S	57 31 8	135 35 55	3	1.5	5.0	.5	1,500	N	N	N	50	500	N
SIC5324S	57 30 59	135 35 47	5	1.5	7.0	.5	1,500	N	N	N	50	500	N
SIC5334S	57 33 8	135 39 23	5	2.0	7.0	.7	1,000	N	N	N	15	150	N
SIC5335S	57 34 32	135 38 14	5	2.0	7.0	.5	1,000	<.5	N	N	10	300	N
SIC5336S	57 34 48	135 37 17	5	2.0	5.0	.5	1,000	N	N	N	15	500	N
SIC5337S	57 33 11	135 34 45	5	2.0	7.0	.7	1,500	N	N	N	15	300	N
SIC5338S	57 35 47	135 34 22	3	1.5	2.0	.5	1,000	N	N	N	30	300	N
SIC5339S	57 36 27	135 36 24	5	1.5	3.0	.5	1,500	N	N	N	30	200	N
SIC5340S	57 36 35	135 36 45	3	1.5	3.0	.5	1,500	N	N	N	20	200	N
SIC5342S	57 32 3	135 34 16	3	1.5	3.0	.5	1,000	N	N	N	20	150	N
SIC5343S	57 31 29	135 34 52	5	2.0	5.0	.5	1,500	N	N	N	20	100	N
SIC5364S	57 41 50	135 39 20	7	3.0	3.0	.5	2,000	N	N	N	30	700	N
SIC6104S	57 43 52	135 47 34	7	3.0	7.0	.7	1,500	N	N	N	30	300	N
SIC6105S	57 43 44	135 47 14	5	2.0	7.0	.5	1,500	N	N	N	30	300	N
SIC6106S	57 44 22	135 49 30	5	1.5	5.0	.7	1,000	N	N	N	30	200	N
SIC6107S	57 44 17	135 51 30	5	2.0	5.0	.5	1,000	N	N	N	15	150	N

Stream-sediment samples--continued

sample	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN
SIB6220S	N	N	50	200	100	<20	N	N	100	N	N	30	N
SIB6221S	N	N	30	200	70	20	N	N	70	15	N	20	N
SIB6222S	N	N	30	150	70	20	N	N	70	10	N	20	N
SIB6223S	N	N	30	100	100	20	N	N	50	20	N	15	N
SIB6224S	N	N	30	200	70	20	N	N	70	10	N	15	N
SIB6225S	N	N	30	300	100	<20	N	N	100	10	N	20	N
SIB6226S	N	N	30	150	150	<20	5	N	70	10	N	20	N
SIB6227S	N	N	30	200	150	<20	N	N	70	<10	N	30	N
SIB6228S	N	N	30	300	150	<20	N	N	100	N	N	30	N
SIB6229S	N	N	50	700	150	<20	N	N	200	N	N	30	N
SIB6230S	N	N	30	300	150	<20	N	N	100	N	N	30	N
SIB6231S	N	N	30	200	100	<20	N	N	70	15	N	20	N
SIB6232S	N	N	30	150	70	<20	N	N	70	15	N	20	N
SIB6233S	N	N	30	100	70	<20	N	N	50	10	N	15	N
SIB6234S	N	N	20	100	70	20	N	N	50	15	N	15	N
SIB6235S	N	N	20	150	70	20	N	N	50	15	N	15	N
SIB6237S	N	N	30	200	70	<20	N	N	50	10	N	15	N
SIB6306S	N	N	10	70	50	30	N	N	30	10	N	10	N
SIB6307S	N	N	<5	<10	5	<20	N	N	<5	15	N	5	N
SIB6308S	N	N	20	200	50	<20	N	N	30	N	N	20	N
SIB6309S	N	N	30	150	50	<20	N	N	50	10	N	20	N
SIB6310S	N	N	10	70	70	<20	N	N	30	<10	N	15	N
SIB6320S	N	N	15	70	50	20	N	N	15	10	N	15	N
SIB6321S	N	N	5	20	20	30	N	N	7	15	N	7	N
SIB6433S	N	N	10	20	20	N	N	N	10	<10	N	5	N
SIC5188S	N	N	30	70	150	<20	N	N	30	20	N	30	N
SIC5189S	N	N	30	70	150	<20	N	N	30	<10	N	30	N
SIC5190S	N	N	30	70	150	<20	N	N	30	<10	N	30	N
SIC5322S	N	N	15	150	50	<20	N	N	30	10	N	15	N
SIC5323S	N	N	15	150	50	<20	N	N	30	10	N	15	N
SIC5324S	N	N	20	200	50	<20	N	N	50	<10	N	20	N
SIC5334S	N	N	20	50	100	<20	N	N	30	N	N	20	N
SIC5335S	N	N	30	200	100	<20	N	N	70	N	N	30	N
SIC5336S	N	N	20	50	70	<20	N	N	30	10	N	20	N
SIC5337S	N	N	30	70	70	<20	N	N	30	N	N	20	N
SIC5338S	N	N	15	30	50	20	N	N	20	10	N	15	N
SIC5339S	N	N	20	20	100	<20	N	N	20	<10	N	20	N
SIC5340S	N	N	15	20	70	<20	N	N	20	10	N	20	N
SIC5342S	N	N	20	20	70	<20	N	N	30	<10	N	20	N
SIC5343S	N	N	20	100	100	<20	N	N	70	<10	N	20	N
SIC5364S	N	N	30	70	70	N	N	N	20	<10	N	15	N
SIC6104S	N	N	30	150	70	N	N	N	50	N	N	30	N
SIC6105S	N	N	20	50	70	<20	N	N	15	<10	N	20	N
SIC6106S	N	N	15	100	50	<20	N	N	30	N	N	20	N
SIC6107S	N	N	20	150	50	<20	N	N	30	<10	N	20	N

Stream-sediment samples--continued

sample	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	U-INST	EQUIV U
SIB6220S	200	300	N	30	N	70	--	N	.02	--	<20
SIB6221S	200	200	N	20	N	70	--	N	.06	--	--
SIB6222S	200	200	N	20	N	70	--	N	.08	--	--
SIB6223S	300	200	N	20	N	70	--	--	.28	--	--
SIB6224S	300	200	N	20	N	70	--	N	.04	--	--
SIB6225S	300	200	N	30	N	70	--	N	.04	--	--
SIB6226S	300	200	N	20	N	70	--	--	.10	--	--
SIB6227S	300	200	N	30	N	70	--	N	.02	--	<20
SIB6228S	200	300	N	30	N	70	--	N	.02	--	<20
SIB6229S	200	200	N	30	N	70	--	N	.08	--	--
SIB6230S	300	300	N	30	N	70	--	N	.02	--	<20
SIB6231S	200	200	N	30	N	70	--	N	.10	--	--
SIB6232S	200	200	N	30	N	70	--	N	.06	--	<20
SIB6233S	200	200	N	20	N	70	--	--	.14	--	--
SIB6234S	200	200	N	20	N	70	--	N	.08	--	<20
SIB6235S	200	200	N	20	N	70	--	.45	.18	--	--
SIB6237S	200	200	N	20	N	70	--	N	.20	--	--
SIB6306S	200	150	N	20	N	70	--	N	.08	--	--
SIB6307S	300	20	N	15	N	70	--	N	.02	--	<20
SIB6308S	300	200	N	30	N	70	--	N	.02	--	--
SIB6309S	300	200	N	30	N	70	--	N	.06	--	--
SIB6310S	300	200	N	20	N	50	--	N	.04	--	<20
SIB6320S	300	200	N	20	N	70	--	N	.06	--	--
SIB6321S	300	70	N	15	N	70	--	N	.06	--	--
SIE6433S	300	50	N	10	N	70	N	N	.04	.45	--
SIC5188S	200	300	N	20	N	50	--	N	.50	--	--
SIC5189S	200	300	N	20	N	50	--	N	.10	--	--
SIC5190S	300	300	N	20	N	70	--	N	.10	--	--
SIC5322S	300	200	N	20	N	70	--	N	.06	--	<20
SIC5323S	300	200	N	20	N	70	--	N	.06	--	--
SIC5324S	300	200	N	30	N	50	--	N	.09	--	--
SIC5334S	200	200	N	20	N	20	--	N	.02	--	<20
SIC5335S	300	200	N	20	N	50	--	N	.02	--	--
SIC5336S	200	200	N	20	N	70	--	N	.06	--	--
SIC5337S	300	200	N	20	N	50	--	N	.06	--	<20
SIC5338S	200	200	N	15	N	70	--	N	.04	--	<20
SIC5339S	200	200	N	20	N	100	--	N	.02	--	<20
SIC5340S	200	200	N	20	N	70	--	N	.16	--	--
SIC5342S	200	200	N	15	N	70	--	N	.06	--	--
SIC5343S	200	200	N	20	N	70	--	N	.06	--	<20
SIC5364S	500	300	N	30	N	100	N	N	1.65	.45	--
SIC6104S	200	500	N	30	N	70	--	N	.06	--	<20
SIC6105S	200	300	N	30	N	70	--	N	.35	--	<20
SIC6106S	300	200	N	20	N	70	--	N	.08	--	<20
SIC6107S	200	200	N	15	N	50	--	N	.04	--	<20

Stream-sediment samples--continued

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE
SIC6108S	57 44 6	135 51 23	5	2.0	5.0	.5	1,000	N	N	N	15	300	N
SIC6109S	57 43 51	135 53 40	5	2.0	5.0	.5	1,000	N	N	N	10	300	N
SIC6110S	57 41 50	135 48 2	5	3.0	7.0	.5	150	N	N	N	15	200	N
SIC6111S	57 41 49	135 47 35	5	3.0	7.0	.5	1,500	N	N	N	10	300	N
SIC6112S	57 42 37	135 50 10	5	3.0	7.0	.5	1,000	N	N	N	15	200	N
SIC6113S	57 42 23	135 50 13	5	3.0	7.0	.5	1,000	N	N	N	10	100	N
SIC6150S	57 43 22	135 44 22	5	2.0	2.0	.5	2,000	N	N	N	50	300	N
SIC6151S	57 41 17	135 44 48	5	2.0	5.0	.5	1,000	N	N	N	30	300	N
SIC6152S	57 40 34	135 45 34	5	2.0	7.0	.5	1,500	N	N	N	30	300	N
SIC6153S	57 40 6	135 46 18	7	3.0	7.0	.5	1,500	N	N	N	70	200	N
SIC6154S	57 39 28	135 50 13	3	2.0	7.0	.5	1,000	N	N	N	20	300	N
SIC6155S	57 38 55	135 50 5	3	2.0	7.0	.5	1,000	N	N	N	50	300	N
SIC6156S	57 38 41	135 47 37	3	2.0	7.0	.5	1,000	N	N	N	30	300	N
SIC6157S	57 42 32	135 45 41	5	2.0	7.0	.5	1,500	N	N	N	15	200	N
SIC6158S	57 42 39	135 48 43	5	1.5	5.0	.5	1,000	N	N	N	15	300	N
SIC6159S	57 43 11	135 52 15	5	2.0	7.0	.5	1,000	N	N	N	30	300	N
SIC6160B	57 41 39	135 54 11	2	1.0	3.0	.2	1,000	N	N	N	15	500	<1
SIC6160S	57 41 39	135 54 11	2	1.0	5.0	.3	1,000	N	N	N	15	500	<1
SIC6161S	57 40 52	135 51 59	3	2.0	5.0	.5	1,000	N	N	N	15	300	N
SIC6162S	57 40 41	135 52 30	5	2.0	7.0	.7	1,500	N	N	N	20	200	N
SIC6163S	57 39 11	135 49 1	5	2.0	7.0	.5	1,500	N	N	N	10	300	N
SIC6164S	57 36 36	135 51 19	5	2.0	5.0	1.0	1,500	N	N	N	50	300	N
SIC6165S	57 36 10	135 49 56	5	2.0	7.0	1.0	1,000	N	N	N	20	200	N
SIC6166S	57 35 14	135 48 40	5	2.0	7.0	.7	1,000	N	N	N	20	200	N
SIC6175S	57 38 53	135 54 9	5	1.5	5.0	.7	1,000	N	N	N	100	300	N
SIC6176S	57 38 33	135 52 43	5	1.5	7.0	1.0	1,000	N	N	N	50	300	N
SIC6177S	57 38 26	135 52 25	5	1.5	5.0	.7	1,000	N	N	N	50	300	N
SIC6179S	57 37 48	135 49 26	5	2.0	7.0	.7	1,500	N	N	N	20	200	N
SIC6180S	57 37 58	135 49 7	7	2.0	7.0	.7	1,500	N	N	N	30	300	N
SIC6181S	57 36 56	135 48 7	5	2.0	5.0	.5	1,000	N	N	N	30	300	N
SIC6182S	57 39 16	135 46 12	5	2.0	7.0	.5	1,000	N	N	N	30	300	N
SIC6183S	57 39 30	135 43 36	5	1.5	5.0	.7	1,000	N	N	N	30	500	N
SIC6184S	57 38 58	135 41 57	5	2.0	7.0	.7	1,500	N	N	N	30	500	N
SIC6185S	57 39 13	135 41 48	5	2.0	7.0	1.0	1,000	N	N	N	20	500	N
SIC6186S	57 37 31	135 46 4	5	2.0	7.0	1.0	1,500	N	N	N	30	300	N
SIC6187S	57 37 22	135 45 51	5	2.0	7.0	>1.0	1,500	N	N	N	10	300	N
SIC6191S	57 40 52	135 40 59	5	2.0	5.0	.5	2,000	N	N	N	50	500	N
SIC6192S	57 37 38	135 41 42	5	2.0	7.0	1.0	1,000	N	N	N	10	200	N
SIC6193S	57 35 31	135 43 41	5	2.0	5.0	1.0	1,000	N	N	N	10	200	N
SIC6194S	57 36 45	135 42 57	5	2.0	7.0	1.0	1,500	N	N	N	10	300	N
SIC6195S	57 36 35	135 42 41	5	2.0	7.0	1.0	1,000	N	N	N	10	200	N
SIC6196S	57 37 20	135 41 47	5	2.0	5.0	1.0	1,000	N	N	N	10	200	N
SIC6238S	57 31 41	135 54 40	7	2.0	1.5	1.0	2,000	N	N	N	30	700	N
SIC6240S	57 31 31	135 56 54	5	1.5	1.0	.7	2,000	N	N	N	30	700	<1
SIC6242S	57 33 42	135 58 16	5	1.5	2.0	1.0	3,000	N	N	N	20	500	N

Stream-sediment samples--continued

sample	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN
SIC6108S	N	N	20	100	70	<20	N	N	30	N	N	20	N
SIC6109S	N	N	20	100	70	<20	N	N	30	<10	N	20	N
SIC6110S	N	N	30	150	150	<20	N	N	50	N	N	20	N
SIC6111S	N	N	20	150	70	<20	N	N	30	N	N	20	N
SIC6112S	N	N	30	100	70	<20	N	N	50	N	N	30	N
SIC6113S	N	N	30	200	70	<20	N	N	50	N	N	30	N
SIC6150S	N	N	20	50	70	<20	N	N	10	<10	N	15	N
SIC6151S	N	N	20	100	70	<20	N	N	30	<10	N	20	N
SIC6152S	N	N	15	70	70	<20	N	N	30	<10	N	20	N
SIC6153S	N	N	30	200	70	N	N	N	50	N	N	30	N
SIC6154S	N	N	20	70	50	<20	N	N	30	10	N	15	N
SIC6155S	N	N	20	70	70	<20	N	N	30	10	N	20	N
SIC6156S	N	N	20	100	70	<20	N	N	30	10	N	20	N
SIC6157S	N	N	30	150	50	<20	N	N	50	N	N	20	N
SIC6158S	N	N	15	30	50	<20	N	N	15	<10	N	15	N
SIC6159S	N	N	20	100	70	<20	N	N	50	<10	N	15	N
SIC6160B	N	N	10	20	20	30	N	N	7	<10	N	7	N
SIC6160S	N	N	10	20	30	50	N	N	7	<10	N	7	N
SIC6161S	N	N	15	100	50	20	N	N	30	<10	N	15	N
SIC6162S	N	N	30	150	150	<20	N	N	50	<10	N	20	N
SIC6163S	N	N	20	150	50	<20	N	N	30	N	N	20	N
SIC6164S	N	N	30	300	200	N	N	N	70	10	N	30	N
SIC6165S	N	N	30	100	100	N	N	N	30	N	N	20	N
SIC6166S	N	N	30	100	100	N	N	N	30	<10	N	20	N
SIC6175S	N	N	20	150	100	20	N	N	50	<10	N	20	N
SIC6176S	N	N	20	150	100	<20	N	N	50	<10	N	20	N
SIC6177S	N	N	20	50	100	20	N	N	20	<10	N	20	N
SIC6179S	N	N	20	30	70	<20	N	N	10	<10	N	20	N
SIC6180S	N	N	20	70	70	<20	N	N	10	<10	N	30	N
SIC6181S	N	N	20	30	70	<20	N	N	10	<10	N	20	N
SIC6182S	N	N	20	70	70	<20	N	N	20	<10	N	20	N
SIC6183S	N	N	20	100	70	<20	N	N	30	<10	N	20	N
SIC6184S	N	N	30	100	150	<20	N	N	30	N	N	20	N
SIC6185S	N	N	30	100	150	<20	N	N	30	N	N	30	N
SIC6186S	N	N	30	150	200	<20	N	N	50	N	N	30	N
SIC6187S	N	N	30	150	300	<20	N	N	50	N	N	20	N
SIC6191S	N	N	30	70	100	<20	N	N	50	20	N	20	N
SIC6192S	N	N	30	150	150	<20	N	N	50	N	N	20	N
SIC6193S	N	N	30	150	200	<20	N	N	70	N	N	20	N
SIC6194S	N	N	30	150	150	<20	N	N	50	N	N	20	N
SIC6195S	N	N	30	200	200	<20	N	N	70	N	N	20	N
SIC6196S	N	N	30	150	150	<20	N	N	50	N	N	20	N
SIC6238S	N	N	30	300	70	<20	N	N	70	10	N	20	N
SIC6240S	N	N	30	200	50	<20	N	N	30	10	N	15	N
SIC6242S	N	N	50	100	30	<20	N	N	30	15	N	15	N

Stream-sediment samples--continued

sample	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	U-INST	EQUIV U
SIC6108S	300	200	N	15	N	50	--	N	.04	--	<20
SIC6109S	300	200	N	15	N	70	--	N	.14	--	<20
SIC6110S	300	200	N	15	N	70	--	N	.08	--	<20
SIC6111S	300	200	N	15	N	70	--	N	.10	--	<20
SIC6112S	300	200	N	20	N	70	--	N	.16	--	<20
SIC6113S	300	200	N	15	N	15	--	N	.10	--	<20
SIC6150S	300	200	N	20	N	70	--	N	.90	--	--
SIC6151S	200	200	N	20	N	50	--	N	.13	--	--
SIC6152S	300	200	N	20	N	50	--	N	.06	--	--
SIC6153S	300	300	N	20	N	50	--	N	.02	--	<20
SIC6154S	300	200	N	20	N	100	--	N	.06	--	--
SIC6155S	500	200	N	15	N	70	--	N	.16	--	--
SIC6156S	300	200	N	20	N	50	--	N	.18	--	--
SIC6157S	300	200	N	20	N	100	--	N	.06	--	--
SIC6158S	200	200	N	15	N	70	--	N	.08	--	<20
SIC6159S	300	200	N	15	N	70	--	N	.08	--	<20
SIC6160S	300	100	N	15	N	70	--	N	.08	--	--
SIC6160S	300	100	N	15	N	70	--	N	.04	--	--
SIC6161S	300	150	N	15	N	30	--	N	.02	--	<20
SIC6162S	300	200	N	20	N	70	--	N	.10	--	--
SIC6163S	500	200	N	20	N	70	--	N	.02	--	<20
SIC6164S	200	200	N	20	N	50	--	N	.24	--	--
SIC6165S	200	200	N	20	N	70	--	N	.08	--	<20
SIC6166S	300	200	N	15	N	70	--	N	.08	--	--
SIC6175S	300	200	N	15	N	70	--	--	.18	--	--
SIC6176S	300	200	N	15	N	70	--	N	.14	--	--
SIC6177S	200	200	N	15	N	50	--	N	.04	--	<20
SIC6179S	300	300	N	15	N	70	--	N	.08	--	<20
SIC6180S	300	300	N	20	N	100	--	N	.02	--	<20
SIC6181S	200	200	N	15	N	70	--	N	.02	--	--
SIC6182S	300	200	N	20	N	70	--	N	.04	--	--
SIC6183S	200	200	N	15	N	50	--	N	.08	--	--
SIC6184S	300	200	N	20	N	70	--	N	.28	--	--
SIC6185S	200	200	N	30	N	70	--	N	.04	--	--
SIC6186S	200	300	N	20	N	70	--	N	.16	--	--
SIC6187S	200	200	N	30	N	70	--	N	.08	--	<20
SIC6191S	200	200	N	20	N	50	--	N	.35	--	--
SIC6192S	200	300	N	30	N	100	--	N	.04	--	<20
SIC6193S	200	200	N	30	N	100	--	N	.02	--	<20
SIC6194S	300	200	N	20	N	70	--	N	.04	--	--
SIC6195S	200	200	N	20	N	70	--	N	.02	--	<20
SIC6196S	200	200	N	20	N	70	--	N	.02	--	<20
SIC6238S	200	300	N	20	N	70	--	N	.06	--	--
SIC6240S	200	200	N	20	N	70	--	N	.10	--	--
SIC6242S	200	200	N	20	N	70	--	N	.12	--	--

Stream-sediment samples--continued

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE
SIC6244S	57 33 1	135 53 3	5	2.0	2.0	1.0	2,000	N	N	N	30	500	N
SIC6245S	57 33 47	135 54 38	5	2.0	2.0	1.0	3,000	N	N	N	50	700	N
SIC6246S	57 35 19	135 52 22	5	2.0	5.0	1.0	1,500	N	N	N	20	300	N
SIC6247S	57 35 27	135 52 0	5	2.0	7.0	1.0	1,500	N	N	N	30	300	N
SIC6248S	57 35 45	135 52 47	5	2.0	1.0	.7	2,000	N	N	N	70	700	N
SIC6249S	57 34 55	135 54 46	7	2.0	1.5	1.0	2,000	N	N	N	70	1,000	N
SIC6250S	57 35 6	135 54 44	5	2.0	2.0	1.0	2,000	N	N	N	50	1,000	N
SIC6251S	57 33 15	135 48 10	5	3.0	7.0	.7	1,500	N	N	N	30	300	N
SIC6252S	57 32 31	135 48 24	5	2.0	5.0	1.0	1,000	N	N	N	50	150	N
SIC6253S	57 32 44	135 48 36	5	3.0	7.0	1.0	1,500	N	N	N	30	200	N
SIC6254S	57 31 51	135 49 30	5	2.0	7.0	1.0	1,500	N	N	N	50	200	N
SIC6255S	57 31 50	135 49 55	5	2.0	7.0	1.0	1,500	N	N	N	20	200	N
SIC6256S	57 30 19	135 48 53	5	3.0	7.0	1.0	1,500	N	N	N	20	200	N
SIC6257S	57 30 18	135 49 22	5	1.5	5.0	1.0	1,500	N	N	N	20	300	N
SIC6263S	57 36 13	135 59 55	3	1.5	2.0	.7	3,000	N	N	N	30	500	N
SIC6264S	57 35 48	135 58 43	3	1.0	1.5	.7	1,000	N	N	N	20	300	N
SIC6265S	57 36 17	135 56 39	5	1.5	1.5	.7	1,500	N	N	N	50	700	N
SIC6266S	57 35 42	135 57 4	5	2.0	1.5	.7	2,000	N	N	N	70	700	N
SIC6270S	57 37 35	135 54 51	5	2.0	1.5	.7	1,000	N	N	N	100	700	N
SIC6271S	57 37 38	135 58 32	7	2.0	2.0	1.0	1,500	N	N	N	70	700	N
SIC6272S	57 38 5	135 59 50	5	2.0	3.0	1.0	1,500	N	N	N	70	700	N
SIC6273S	57 39 17	135 57 44	7	2.0	5.0	>1.0	1,500	N	N	N	20	500	N
SIC6274S	57 39 53	135 57 56	5	2.0	7.0	1.0	1,500	N	N	N	20	300	N
SIC6275S	57 40 5	135 58 5	5	1.5	3.0	.7	1,500	N	N	N	30	700	N
SIC6290S	57 43 38	135 59 45	3	1.0	5.0	.5	1,000	N	N	N	20	700	N
SIC6291S	57 43 52	135 59 37	5	2.0	7.0	.7	1,000	N	N	N	30	200	N
SIC6292S	57 44 38	135 56 57	5	2.0	7.0	.5	1,500	N	N	N	20	200	N
SIC6293S	57 44 50	135 57 10	5	2.0	7.0	.5	1,000	N	N	N	20	150	N
SIC6294S	57 44 3	135 55 54	7	2.0	5.0	.7	1,500	N	N	N	20	300	N
SIC6297S	57 42 14	135 59 1	5	1.0	3.0	.5	1,000	N	N	N	15	300	N
SIC6298S	57 42 24	135 57 3	7	1.5	5.0	.7	1,500	N	N	N	20	700	N
SIC6299S	57 42 37	135 57 16	5	1.5	7.0	.7	1,000	N	N	N	20	300	N
SIC6326S	57 33 16	135 44 55	7	2.0	7.0	1.0	1,500	N	N	N	30	500	N
SIC6327S	57 33 13	135 43 1	5	2.0	7.0	1.0	1,500	N	N	N	30	300	N
SIC6328S	57 33 8	135 41 12	5	2.0	7.0	1.0	1,000	<.5	N	N	20	300	N
SIC6329S	57 30 42	135 42 55	5	2.0	5.0	.7	1,000	N	N	N	20	500	N
SIC6330S	57 30 37	135 42 37	3	1.5	5.0	.7	1,000	N	N	N	30	500	<1
SIC6331S	57 31 46	135 41 36	5	1.5	7.0	.5	1,000	N	N	N	30	500	<1
SIC6332S	57 32 51	135 41 2	3	1.5	5.0	.5	1,000	N	N	N	30	500	N
SIC6333S	57 33 29	135 40 48	5	2.0	7.0	1.0	1,000	N	N	N	10	500	N
SIC6341S	57 37 39	135 40 8	5	2.0	5.0	.5	1,000	N	N	N	20	300	N
SIC7168S	57 44 35	136 8 58	5	2.0	1.0	.7	1,000	N	N	N	50	500	<1
SIC7169S	57 44 19	136 4 5	7	2.0	7.0	1.0	1,000	N	N	N	30	70	N
SIC7170S	57 43 29	136 4 38	7	2.0	5.0	.7	1,000	N	N	N	70	500	N
SIC7171S	57 42 47	136 6 58	5	2.0	5.0	.7	1,000	N	N	N	70	300	N

Stream-sediment samples--continued

sample	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN
SIC6244S	N	N	30	200	100	<20	N	N	50	10	N	20	N
SIC6245S	N	N	30	200	70	<20	N	N	50	10	N	20	N
SIC6246S	N	N	30	150	150	<20	N	N	50	10	N	20	N
SIC6247S	N	N	30	200	70	<20	N	N	70	<10	N	30	N
SIC6248S	N	N	30	150	100	<20	N	N	50	10	N	20	N
SIC6249S	N	N	30	200	70	<20	N	N	70	<10	N	15	N
SIC6250S	N	N	30	150	150	<20	N	N	70	10	N	20	N
SIC6251S	N	N	30	500	200	<20	N	N	150	15	N	20	N
SIC6252S	N	N	30	200	200	<20	N	N	70	15	N	20	N
SIC6253S	N	N	30	200	200	<20	N	N	70	N	N	30	N
SIC6254S	N	N	20	200	150	<20	N	N	70	10	N	20	N
SIC6255S	N	N	30	200	150	<20	N	N	70	N	N	20	N
SIC6256S	N	N	30	700	150	<20	N	N	150	<10	N	20	N
SIC6257S	N	N	30	200	200	20	N	N	70	N	N	20	N
SIC6263S	N	N	30	150	50	20	N	N	30	<10	N	15	N
SIC6264S	N	N	15	70	30	20	N	N	30	N	N	15	N
SIC6265S	N	N	20	200	50	20	N	N	50	<10	N	15	N
SIC6266S	N	N	30	150	70	20	N	N	50	<10	N	15	N
SIC6270S	N	N	20	150	70	<20	N	N	50	30	N	20	N
SIC6271S	N	N	30	300	70	<20	N	N	100	N	N	20	N
SIC6272S	N	N	20	200	70	<20	N	N	50	10	N	30	N
SIC6273S	N	N	30	300	200	<20	N	N	150	N	N	30	N
SIC6274S	N	N	30	300	200	<20	N	N	70	N	N	30	N
SIC6275S	N	N	30	200	100	20	N	N	70	20	N	20	N
SIC6290S	N	N	10	10	30	20	N	N	5	N	N	7	N
SIC6291S	N	N	30	150	70	<20	N	N	50	N	N	20	N
SIC6292S	N	N	30	200	70	<20	N	N	50	N	N	20	N
SIC6293S	N	N	20	100	70	20	N	N	30	N	N	20	N
SIC6294S	N	N	30	150	70	<20	N	N	30	<10	N	20	N
SIC6297S	N	N	15	70	70	20	N	N	30	<10	N	10	N
SIC6298S	N	N	30	150	100	<20	N	N	30	N	N	15	N
SIC6299S	N	N	30	100	150	<20	N	N	30	<10	N	15	N
SIC6326S	N	N	30	200	200	<20	N	N	50	<10	N	30	N
SIC6327S	N	N	30	150	200	<20	N	N	50	N	N	30	N
SIC6328S	N	N	30	150	150	<20	N	N	30	N	N	30	N
SIC6329S	N	N	30	200	100	<20	N	N	70	N	N	20	N
SIC6330S	N	N	15	70	70	20	N	N	30	10	N	15	N
SIC6331S	N	N	15	100	70	20	N	N	30	10	N	15	N
SIC6332S	N	N	15	70	50	20	N	N	30	10	N	15	N
SIC6333S	N	N	30	150	200	<20	N	N	50	N	N	30	N
SIC6341S	N	N	20	50	70	<20	N	N	30	N	N	20	N
SIC7168S	N	N	30	500	70	N	N	N	70	<10	N	20	N
SIC7169S	N	N	30	200	200	N	N	N	70	<10	N	30	N
SIC7170S	N	N	30	300	100	N	N	N	100	10	N	30	N
SIC7171S	N	N	30	300	70	<20	N	N	70	10	N	30	N

Stream-sediment samples--continued

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE
SIC7172S	57 43 2	136 7 3	5	3.0	5.0	1.0	1,500	N	N	N	70	700	N
SIC7173S	57 42 19	136 5 36	5	1.5	5.0	1.0	1,000	N	N	N	30	300	N
SIC7174S	57 43 9	136 9 53	5	2.0	5.0	.7	2,000	N	N	N	70	700	N
SIC7277S	57 38 35	136 0 38	5	1.5	2.0	.7	3,000	N	N	N	50	500	N
SIC7278S	57 39 25	136 2 27	3	1.5	2.0	.5	1,000	N	N	N	70	500	N
SIC7281S	57 40 9	136 4 42	5	1.5	1.5	1.0	3,000	N	N	N	70	700	N
SIC7282S	57 39 19	136 6 21	5	.7	.7	.3	>5,000	N	N	N	50	500	<1
SIC7283S	57 40 49	136 7 12	3	1.5	1.5	.7	5,000	N	N	N	50	700	<1
SIC7285S	57 42 23	136 3 48	3	2.0	5.0	.7	1,000	N	N	N	20	300	N
SIC7286S	57 42 43	136 1 45	5	2.0	5.0	1.0	1,000	N	N	N	70	500	N
SIC7287S	57 43 0	136 1 44	5	2.0	7.0	.7	1,500	N	N	N	20	300	N
SIC7288S	57 43 46	136 0 43	5	2.0	7.0	.7	1,500	N	N	N	20	300	N
SIC7289S	57 43 46	136 1 11	3	2.0	7.0	.7	1,000	N	N	N	30	300	N
SIC7295S	57 41 9	136 1 12	5	1.5	5.0	.7	1,500	N	N	N	50	700	<1
SIC7296S	57 41 31	136 0 31	5	3.0	7.0	.7	1,500	N	N	N	100	700	N
SIC7312S	57 41 10	136 6 13	5	1.5	1.5	.7	1,000	.7	N	N	70	1,000	<1
SID6090S	57 49 49	135 59 39	3	1.5	5.0	.5	1,000	N	N	N	30	500	N
SID6091S	57 50 8	135 59 19	5	2.0	7.0	.7	1,500	N	N	N	20	200	N
SID6092S	57 48 51	135 56 44	3	1.5	5.0	.3	1,000	N	N	N	30	500	N
SID6093S	57 48 17	135 55 9	5	1.5	5.0	.5	1,500	N	N	N	30	500	N
SID6094S	57 47 48	135 54 9	3	1.5	5.0	.5	1,000	N	N	N	20	500	N
SID6096S	57 46 59	135 50 42	5	2.0	5.0	.7	1,000	N	N	N	50	300	N
SID6097S	57 45 41	135 50 57	5	2.0	5.0	.7	1,500	N	N	N	20	200	N
SID6098S	57 46 14	135 54 29	7	2.0	5.0	.5	1,500	N	N	N	15	200	N
SID6099S	57 46 33	135 50 0	5	2.0	5.0	.7	1,000	N	N	N	20	150	N
SID6100B	57 45 17	135 46 46	5	3.0	7.0	.5	1,500	N	N	N	20	100	N
SID6100S	57 45 17	135 46 46	7	3.0	7.0	.7	1,500	N	N	N	15	150	N
SID6145S	57 46 27	135 56 39	3	2.0	3.0	.7	1,500	N	N	N	20	300	N
SID6146S	57 48 29	135 54 50	3	1.5	3.0	.5	1,500	N	N	N	20	700	N
SID6147S	57 48 47	135 54 58	3	2.0	3.0	.5	1,000	N	N	N	70	700	N
SID6149S	57 49 39	136 0 3	7	2.0	7.0	.5	1,500	N	N	N	50	300	N
SID7001S	57 57 3	136 15 2	5	2.0	5.0	.7	1,000	N	N	N	20	200	N
SID7002S	57 57 47	136 16 14	5	2.0	5.0	.7	1,000	.5	N	N	30	100	N
SID7003S	57 58 39	136 17 42	3	2.0	5.0	.5	1,000	N	N	N	30	300	N
SID7004S	57 58 50	136 18 34	5	2.0	7.0	.5	1,000	N	N	N	20	70	N
SID7005S	57 59 40	136 20 2	5	2.0	7.0	.5	1,500	N	N	N	30	70	N
SID7048S	57 55 16	136 17 13	5	2.0	5.0	1.0	1,500	N	N	N	20	150	N
SID7049S	57 55 3	136 18 14	5	2.0	5.0	.7	1,500	N	N	N	20	200	N
SID7051S	57 52 58	136 16 14	5	3.0	5.0	1.0	1,500	N	N	N	50	300	N
SID7052S	57 53 11	136 15 54	5	2.0	5.0	.7	1,000	N	N	N	50	500	N
SID7053S	57 52 50	136 17 28	3	2.0	5.0	.7	1,000	N	N	N	20	300	N
SID7054S	57 52 10	136 14 43	3	2.0	5.0	.5	1,000	N	N	N	20	300	N
SID7055S	57 52 15	136 14 18	5	2.0	5.0	.5	1,000	N	N	N	30	300	N
SID7056S	57 52 34	136 11 48	5	2.0	5.0	.7	1,000	N	N	N	20	300	N
SID7057S	57 53 56	136 15 55	5	3.0	5.0	.7	1,500	N	N	N	20	300	N

Stream-sediment samples--continued

sample	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN
SIC7172S	N	N	30	500	70	N	10	N	70	10	N	30	N
SIC7173S	N	N	20	150	70	20	N	N	30	N	N	20	N
SIC7174S	N	N	50	500	70	<20	N	N	100	N	N	30	N
SIC7277S	N	N	50	150	100	20	5	N	50	<10	N	15	N
SIC7278S	N	N	20	150	70	20	N	N	70	10	N	20	N
SIC7281S	N	N	30	150	50	<20	<5	N	30	70	N	15	N
SIC7282S	N	N	50	50	30	<20	N	N	30	15	N	10	N
SIC7283S	N	N	30	70	50	20	N	N	30	20	N	15	N
SIC7285S	N	N	15	150	50	<20	N	N	30	<10	N	15	N
SIC7286S	N	N	30	200	100	20	N	N	70	N	N	20	N
SIC7287S	N	N	20	150	70	<20	N	N	50	N	N	20	N
SIC7288S	N	N	20	200	70	<20	N	N	30	N	N	20	N
SIC7289S	N	N	20	100	70	<20	N	N	30	N	N	20	N
SIC7295S	N	N	30	200	70	<20	N	N	50	<10	N	20	N
SIC7296S	N	N	30	300	100	<20	N	N	100	10	N	30	N
SIC7312S	N	N	20	100	70	20	N	N	30	70	N	15	N
SID6090S	N	N	15	15	30	20	N	N	10	10	N	15	N
SID6091S	N	N	20	15	30	<20	N	N	7	<10	N	20	N
SID6092S	N	N	15	10	30	20	N	N	7	15	N	10	N
SID6093S	N	N	15	30	30	20	N	N	10	10	N	15	N
SID6094S	N	N	10	20	70	50	N	N	10	20	N	10	N
SID6096S	N	N	30	70	50	<20	N	N	30	10	N	20	N
SID6097S	N	N	20	70	70	<20	N	N	30	N	N	20	N
SID6098S	N	N	30	70	100	N	N	N	30	N	N	30	N
SID6099S	N	N	20	20	30	N	N	N	10	<10	N	15	N
SID6100B	N	N	20	70	50	N	N	N	20	<10	N	15	N
SID6100S	N	N	30	70	50	N	N	N	30	N	N	20	N
SID6145S	N	N	20	70	100	<20	N	N	30	10	N	15	N
SID6146S	N	N	15	30	30	20	N	N	10	10	N	15	N
SID6147S	N	N	20	50	70	20	5	N	15	20	N	10	N
SID6149S	N	N	30	100	150	<20	N	N	50	<10	N	30	N
SID7001S	N	N	30	20	100	N	N	N	10	N	N	30	N
SID7002S	N	N	30	50	70	N	N	N	20	20	N	20	N
SID7003S	N	N	20	30	30	20	N	N	10	20	N	15	N
SID7004S	N	N	30	70	70	<20	N	N	30	10	N	30	N
SID7005S	N	N	30	50	70	<20	N	N	30	10	N	30	N
SID7048S	N	N	30	20	70	N	N	N	20	10	N	30	N
SID7049S	N	N	30	30	70	N	N	N	20	<10	N	30	N
SID7051S	N	N	30	150	100	<20	N	N	30	N	N	30	N
SID7052S	N	N	20	50	70	20	N	N	20	10	N	30	N
SID7053S	N	N	20	70	100	20	N	N	30	15	N	20	N
SID7054S	N	N	20	70	100	<20	N	N	30	20	N	20	N
SID7055S	N	N	20	50	70	<20	N	N	20	10	N	20	N
SID7056S	N	N	20	70	70	<20	N	N	30	<10	N	30	N
SID7057S	N	N	20	50	70	N	N	N	30	N	N	30	N

Stream-sediment samples--continued

sample	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	U-INST	EQUIV U
SIC7172S	200	200	N	30	N	70	--	N	.10	--	--
SIC7173S	300	200	N	20	N	70	--	N	.02	--	<20
SIC7174S	200	200	N	20	N	70	--	N	.10	--	--
SIC7277S	150	150	N	20	N	70	--	N	.10	--	--
SIC7278S	200	200	N	20	N	70	--	N	.14	--	--
SIC7281S	150	200	N	15	N	70	--	N	.28	--	--
SIC7282S	100	150	N	15	N	70	--	N	.14	--	--
SIC7283S	150	150	N	20	N	70	--	N	.06	--	--
SIC7285S	200	150	N	15	N	70	--	N	.04	--	--
SIC7286S	200	200	N	30	N	70	--	N	.02	--	<20
SIC7287S	200	200	N	20	N	70	--	N	N	--	<20
SIC7288S	200	200	N	20	N	70	--	N	N	--	<20
SIC7289S	200	200	N	15	N	70	--	N	.04	--	<20
SIC7295S	200	200	N	30	N	70	--	N	.12	--	--
SIC7296S	300	300	N	30	N	70	--	N	.10	--	--
SIC7312S	200	200	N	20	N	70	--	3.00	.40	--	--
SID6090S	500	200	N	15	N	70	--	N	.04	--	<20
SID6091S	500	200	N	20	N	50	--	N	.10	--	<20
SID6092S	500	150	N	15	N	50	--	N	.08	--	<20
SID6093S	500	200	N	20	N	70	--	N	.10	--	<20
SID6094S	500	150	N	15	N	70	--	N	.04	--	<20
SID6096S	500	200	N	20	N	70	--	.20	.20	--	<20
SID6097S	300	500	N	30	N	70	--	N	.10	--	<20
SID6098S	200	500	N	30	N	70	--	N	.08	--	<20
SID6099S	500	300	N	20	N	70	--	N	.06	--	<20
SID6100B	500	200	N	20	N	70	--	N	.08	--	<20
SID6100S	500	300	N	20	N	70	--	N	.08	--	<20
SID6145S	200	200	N	15	N	70	--	N	.14	--	--
SID6146S	200	150	N	20	N	50	--	N	.04	--	<20
SID6147S	500	200	N	15	N	70	--	N	.04	--	--
SID6149S	500	300	N	20	N	70	--	N	.08	--	--
SID7001S	300	300	N	20	N	50	--	N	.08	--	<20
SID7002S	300	300	N	15	N	15	--	1.00	.35	--	--
SID7003S	300	150	N	15	N	50	--	N	.26	--	--
SID7004S	300	300	N	15	N	30	--	N	.22	--	--
SID7005S	500	300	N	15	N	15	--	--	.50	--	--
SID7048S	300	200	N	20	N	30	--	N	.45	--	--
SID7049S	300	200	N	20	N	50	--	N	.06	--	<20
SID7051S	300	300	N	20	N	70	--	N	.14	--	--
SID7052S	300	200	N	20	N	70	--	N	.04	--	<20
SID7053S	150	200	N	20	N	70	--	N	.08	--	<20
SID7054S	150	200	N	20	N	70	--	N	.26	--	--
SID7055S	300	200	N	20	N	50	--	N	.16	--	<20
SID7056S	300	200	N	30	N	70	--	N	.10	--	<20
SID7057S	300	300	N	30	N	70	--	N	.10	--	<20

Stream-sediment samples--continued

sample	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	U-INST	EQUIV U
SIC6244S	200	200	N	30	N	70	--	N	.06	--	<20
SIC6245S	200	200	N	20	N	70	--	N	.08	--	--
SIC6246S	200	200	N	20	N	70	--	.40	.06	--	--
SIC6247S	200	300	N	30	N	70	--	N	.06	--	--
SIC6248S	200	200	N	30	N	70	--	N	.04	--	<20
SIC6249S	200	200	N	20	N	70	--	N	.04	--	<20
SIC6250S	200	200	N	20	N	70	--	N	.18	--	--
SIC6251S	200	200	N	20	N	70	--	--	.10	--	--
SIC6252S	200	200	N	20	N	70	--	--	.18	--	--
SIC6253S	200	200	N	30	N	70	--	N	.14	--	--
SIC6254S	200	200	N	20	N	70	--	N	.28	--	--
SIC6255S	200	200	N	20	N	70	--	N	.06	--	--
SIC6256S	200	200	N	20	N	70	--	N	N	--	<20
SIC6257S	200	200	N	20	N	70	--	N	.04	--	--
SIC6263S	200	150	N	15	N	70	--	N	.04	--	--
SIC6264S	100	200	N	15	N	70	--	N	.12	--	--
SIC6265S	150	200	N	15	N	70	--	N	.04	--	<20
SIC6266S	100	200	N	20	N	70	--	N	.04	--	--
SIC6270S	100	200	N	20	N	70	--	--	.01	--	--
SIC6271S	200	200	N	20	N	70	--	N	.04	--	--
SIC6272S	150	200	N	30	N	70	--	N	.02	--	--
SIC6273S	200	300	N	30	N	70	--	N	.06	--	--
SIC6274S	200	300	N	30	N	70	--	N	.16	--	--
SIC6275S	200	200	N	20	N	70	--	N	.06	--	--
SIC6290S	300	150	N	15	N	70	--	N	.04	--	--
SIC6291S	300	200	N	20	N	30	--	N	.08	--	--
SIC6292S	500	200	N	20	N	30	--	N	.02	--	<20
SIC6293S	300	200	N	15	N	30	--	N	.06	--	--
SIC6294S	300	200	N	30	N	70	--	N	.03	--	--
SIC6297S	200	200	N	20	N	50	--	N	.35	--	--
SIC6298S	200	200	N	20	N	100	--	N	.10	--	<20
SIC6299S	200	200	N	20	N	70	--	N	.35	--	--
SIC6326S	200	300	N	30	N	70	--	N	.06	--	--
SIC6327S	200	300	N	30	N	70	--	N	.06	--	<20
SIC6328S	150	300	N	30	N	70	--	N	.10	--	--
SIC6329S	200	200	N	30	N	100	--	N	.02	--	--
SIC6330S	200	200	N	20	N	70	--	N	.04	--	--
SIC6331S	200	150	N	30	N	70	--	N	.04	--	--
SIC6332S	200	150	N	15	N	50	--	N	.08	--	--
SIC6333S	200	300	N	30	N	70	--	N	.06	--	<20
SIC6341S	300	300	N	20	N	100	--	N	.04	--	<20
SIC7168S	200	200	N	30	N	70	--	N	.02	--	--
SIC7169S	200	300	N	20	N	70	--	N	.16	--	--
SIC7170S	200	200	N	30	N	70	--	N	.06	--	--
SIC7171S	200	200	N	30	N	70	--	N	.14	--	--

Stream-sediment samples--continued

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE
SID70585	57 54 10	136 15 56	5	2.0	5.0	1.0	1,500	N	N	N	10	150	N
SID70595	57 54 19	136 13 25	5	2.0	7.0	.7	1,500	N	N	N	20	150	N
SID70695	57 48 8	136 18 15	5	2.0	5.0	.7	1,000	N	N	N	20	300	N
SID70705	57 48 23	136 19 16	3	2.0	5.0	.7	1,000	N	N	N	30	300	N
SID70715	57 49 44	136 15 51	3	2.0	3.0	.5	1,000	N	N	N	30	300	N
SID70725	57 48 34	136 17 51	5	2.0	5.0	1.0	1,500	N	N	N	15	70	N
SID70735	57 51 28	136 16 5	5	2.0	5.0	.5	1,000	N	N	N	50	500	N
SID70755	57 57 3	136 17 22	3	2.0	5.0	.5	1,000	N	N	N	20	70	N
SID70775	57 54 21	136 10 23	5	2.0	5.0	.5	1,000	N	N	N	50	70	N
SID70785	57 54 32	136 8 4	5	2.0	5.0	.5	1,500	N	N	N	30	500	N
SID70815	57 47 34	136 1 12	5	2.0	5.0	.7	1,500	N	N	N	20	300	N
SID70825	57 48 37	136 3 14	5	2.0	7.0	.5	1,500	N	N	N	30	300	N
SID70835	57 49 56	136 4 47	5	1.5	3.0	.5	1,000	N	N	N	100	200	N
SID70845	57 51 48	136 6 18	5	2.0	3.0	.5	1,000	N	N	N	70	200	N
SID70855	57 51 36	136 3 59	5	2.0	5.0	.5	700	N	N	N	100	300	N
SID70865	57 52 23	136 2 34	7	2.0	7.0	1.0	1,500	N	N	N	70	200	N
SID70875	57 50 38	136 3 21	3	1.0	5.0	.5	1,000	N	N	N	20	300	N
SID70885	57 50 53	136 1 53	5	3.0	5.0	.7	1,500	N	N	N	30	300	N
SID70895	57 49 46	136 1 0	5	3.0	7.0	.7	1,500	N	N	N	30	200	N
SID71155	57 46 46	136 15 36	5	2.0	5.0	.5	1,500	N	N	N	50	300	N
SID71175	57 48 0	136 13 59	5	2.0	5.0	.5	1,000	N	N	N	30	300	N
SID71185	57 48 59	136 13 24	5	2.0	5.0	.7	1,500	N	N	N	30	300	N
SID71205	57 48 51	136 12 8	5	2.0	5.0	.5	1,500	N	N	N	30	150	N
SID71225	57 48 53	136 9 37	5	3.0	5.0	.7	1,500	N	N	N	30	700	N
SID71235	57 49 11	136 7 45	5	2.0	5.0	.5	1,000	N	N	N	30	300	N
SID71245	57 49 12	136 7 4	5	1.5	3.0	.5	1,000	N	N	N	30	100	N
SID71255	57 47 15	136 4 8	5	1.5	3.0	.5	1,000	N	N	N	30	300	N
SID71265	57 51 12	136 13 56	5	1.5	2.0	.7	1,500	N	N	N	70	300	N
SID71275	57 51 7	136 13 10	5	1.5	3.0	.7	1,500	N	N	N	70	300	N
SID71295	57 50 50	136 9 8	5	2.0	5.0	.7	1,500	N	N	N	70	300	N
SID71305	57 46 55	136 11 58	5	1.5	1.5	.7	5,000	N	N	N	70	500	<1
SID71315	57 47 14	136 12 21	5	2.0	5.0	.7	2,000	N	N	N	15	150	N
SID71325	57 45 54	136 9 22	3	1.5	3.0	.7	1,500	N	N	N	20	300	N
SID71335	57 46 6	136 9 35	5	3.0	3.0	.7	1,500	N	N	N	30	300	N
SID71345	57 45 11	136 7 38	5	3.0	3.0	.7	1,500	N	N	N	50	300	N
SID71355	57 45 22	136 7 44	5	1.5	3.0	.7	1,500	N	N	N	20	300	N
SID71365	57 46 57	136 13 50	5	1.5	1.5	.7	1,500	N	N	N	30	700	N
SID71375	57 46 24	136 14 39	7	2.0	2.0	.7	5,000	N	N	N	30	500	N
SID71405	57 45 18	136 3 41	5	1.5	2.0	.7	1,500	N	N	N	30	700	N
SID71415	57 45 31	136 3 47	5	2.0	3.0	.7	1,500	N	N	N	30	300	N
SID71425	57 46 14	136 0 46	7	3.0	3.0	.7	1,500	N	N	N	30	300	N
SID71445	57 47 2	136 1 5	5	2.0	3.0	.5	1,500	N	N	N	50	200	N
SID73705	57 57 29	136 18 38	10	10.0	5.0	.7	1,500	1.5	N	N	30	100	N
SID80215	57 59 30	136 27 22	5	2.0	5.0	.7	1,500	N	N	N	20	100	N
SID80225	57 58 56	136 28 0	5	3.0	5.0	.7	1,500	N	N	N	20	200	N

Stream-sediment samples--continued

sample	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN
SID7058S	N	N	20	30	70	N	N	N	20	N	N	20	N
SID7059S	N	N	30	20	70	N	N	N	15	10	N	20	N
SID7069S	N	N	20	150	70	<20	N	N	50	15	N	30	N
SID7070S	N	N	15	150	50	<20	N	N	30	30	N	20	N
SID7071S	N	N	20	150	50	<20	N	N	30	10	N	20	N
SID7072S	N	N	30	100	70	<20	N	N	30	10	N	30	N
SID7073S	N	N	20	50	100	<20	N	N	30	20	N	20	N
SID7075S	N	N	20	50	70	<20	N	N	20	15	N	20	N
SID7077S	N	N	30	<10	70	<20	N	N	10	10	N	20	N
SID7078S	N	N	15	50	50	<20	N	N	20	15	N	15	N
SID7081S	N	N	20	100	100	<20	N	N	30	10	N	30	N
SID7082S	N	N	20	50	70	<20	N	N	20	10	N	20	N
SID7083S	N	N	15	100	70	20	N	N	30	<10	N	20	N
SID7084S	N	N	20	70	50	20	N	N	30	<10	N	20	N
SID7085S	N	N	15	70	30	20	N	N	30	10	N	15	N
SID7086S	N	N	30	70	50	N	N	N	30	N	N	30	N
SID7087S	N	N	15	<10	70	20	N	N	7	10	N	10	N
SID7088S	N	N	20	150	50	<20	N	N	30	10	N	20	N
SID7089S	N	N	30	70	150	<20	N	N	20	N	N	30	N
SID7115S	N	N	30	200	100	<20	N	N	50	<10	N	30	N
SID7117S	N	N	20	150	70	<20	N	N	50	<10	N	20	N
SID7118S	N	N	20	70	70	<20	N	N	30	<10	N	20	N
SID7120S	N	N	30	100	150	<20	N	N	50	30	N	20	N
SID7122S	N	N	30	150	150	<20	N	N	50	15	N	20	N
SID7123S	N	N	15	30	70	<20	N	N	20	<10	N	20	N
SID7124S	N	N	20	20	50	<20	N	N	10	<10	N	15	N
SID7125S	N	N	15	50	50	<20	N	N	20	10	N	15	N
SID7126S	N	N	20	70	150	<20	N	N	30	10	N	15	N
SID7127S	N	N	15	50	30	<20	N	N	20	15	N	20	N
SID7129S	N	N	20	70	150	<20	N	N	20	<10	N	20	N
SID7130S	N	N	30	150	150	<20	N	N	50	15	N	15	N
SID7131S	N	N	30	150	100	<20	N	N	50	N	N	30	N
SID7132S	N	N	20	150	100	<20	N	N	50	<10	N	20	N
SID7133S	N	N	30	300	150	<20	N	N	100	N	N	30	N
SID7134S	N	N	30	300	100	<20	N	N	100	N	N	20	N
SID7135S	N	N	20	70	100	<20	N	N	30	N	N	15	N
SID7136S	N	N	30	100	100	<20	N	N	30	<10	N	20	N
SID7137S	N	N	70	150	300	<20	N	N	100	30	N	20	N
SID7140S	N	N	20	50	100	<20	N	N	30	N	N	15	N
SID7141S	N	N	20	100	100	<20	N	N	30	<10	N	20	N
SID7142S	N	N	30	70	70	<20	N	N	30	N	N	20	N
SID7144S	N	N	20	150	70	<20	N	N	30	15	N	20	N
SID7370S	N	N	30	300	150	N	N	N	100	30	N	30	15
SID8021S	N	N	30	150	100	<20	N	N	30	10	N	20	N
SID8022S	N	N	30	200	150	<20	N	N	50	<10	N	30	N

Stream-sediment samples--continued

sample	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	U-INST	EQUIV U
SID7058S	300	300	N	20	N	50	--	N	.18	--	<20
SID7059S	300	300	N	20	N	50	--	--	.70	--	--
SID7069S	300	200	N	30	N	70	--	N	.02	--	<20
SID7070S	300	200	<50	20	N	70	--	N	.24	--	--
SID7071S	300	200	N	20	N	70	--	N	.04	--	<20
SID7072S	200	200	N	20	N	70	--	N	.06	--	<20
SID7073S	200	200	N	30	N	70	--	--	<.02	--	--
SID7075S	300	200	<50	15	N	10	--	.20	.10	--	<20
SID7077S	300	200	N	15	N	15	--	N	.08	--	<20
SID7078S	300	200	N	20	N	70	--	N	.12	--	<20
SID7081S	300	200	N	20	N	100	--	N	.22	--	--
SID7082S	300	200	N	20	N	70	--	N	.26	--	--
SID7083S	200	150	N	20	N	70	--	N	.26	--	--
SID7084S	200	200	N	20	N	70	--	N	.18	--	<20
SID7085S	300	150	N	20	N	70	--	N	1.50	--	--
SID7086S	500	200	N	20	N	70	--	N	.28	--	<20
SID7087S	500	100	N	10	N	70	--	N	.35	--	<20
SID7088S	500	150	N	20	N	100	--	--	.20	--	<20
SID7089S	500	200	N	20	N	70	--	N	.08	--	<20
SID7115S	300	200	N	30	N	70	--	N	.04	--	<20
SID7117S	300	200	N	20	N	70	--	N	.04	--	<20
SID7118S	300	200	N	20	N	70	--	--	.26	--	<20
SID7120S	200	200	N	20	N	70	--	--	.30	--	<20
SID7122S	200	200	N	20	N	70	--	--	.35	--	<20
SID7123S	300	200	N	20	N	50	--	N	.04	--	<20
SID7124S	300	200	N	15	N	50	--	--	.10	--	<20
SID7125S	300	200	N	15	N	50	--	N	.06	--	<20
SID7126S	200	200	N	20	N	50	--	N	.50	--	--
SID7127S	200	200	N	20	N	70	--	N	.14	--	--
SID7129S	300	200	N	20	N	50	--	N	.30	--	--
SID7130S	200	200	N	20	N	70	--	N	.35	--	--
SID7131S	200	300	N	30	N	70	--	N	.28	--	--
SID7132S	300	200	N	20	N	70	--	N	.08	--	<20
SID7133S	200	200	N	20	<200	70	--	N	.16	--	--
SID7134S	200	200	N	30	N	70	--	--	.16	--	--
SID7135S	200	200	N	20	N	70	--	N	.10	--	--
SID7136S	200	200	N	20	N	70	--	N	.10	--	--
SID7137S	100	200	N	20	N	50	--	N	.14	--	--
SID7140S	500	200	N	20	N	50	--	N	.06	--	<20
SID7141S	300	200	N	20	N	70	--	N	.06	--	--
SID7142S	200	200	N	20	N	30	--	N	.08	--	--
SID7144S	200	200	N	15	N	70	--	N	.26	--	--
SID7370S	300	500	200	10	<200	100	N	3.00	.30	.10	--
SID8021S	200	200	N	20	N	70	--	N	.12	--	--
SID8022S	200	200	N	30	N	100	--	N	.08	--	<20

Stream-sediment samples--continued

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE
SID8023S	57 58 52	136 29 37	5	2.0	5.0	1.0	1,500	N	N	N	10	200	N
SID8024S	57 59 43	136 28 57	5	2.0	5.0	.7	1,000	N	N	N	10	100	N
SID8025B	57 59 8	136 24 38	5	3.0	7.0	1.0	1,500	N	N	N	15	100	N
SID8025S	57 59 8	136 24 38	5	3.0	7.0	.7	1,500	N	N	N	15	100	N
SID8026S	57 58 58	136 24 36	5	3.0	5.0	.5	1,500	N	N	N	15	300	N
SID8028S	57 57 48	136 27 0	5	2.0	5.0	.7	1,500	N	N	N	20	300	N
SID8029S	57 56 22	136 28 35	3	2.0	5.0	.5	1,000	N	N	N	15	500	N
SID8031S	57 56 26	136 30 35	3	1.5	5.0	.3	1,000	N	N	N	15	300	N
SID8032S	57 56 22	136 27 27	5	3.0	7.0	1.0	1,500	N	N	N	10	100	N
SID8033S	57 56 31	136 25 23	3	2.0	5.0	.7	1,000	N	N	N	20	500	N
SID8035S	57 53 55	136 26 27	5	3.0	5.0	>1.0	1,500	N	N	N	30	300	N
SID8036S	57 53 38	136 27 48	3	2.0	5.0	.7	1,000	N	N	N	15	500	N
SID8041S	57 55 25	136 23 21	3	1.5	3.0	.5	1,000	N	N	N	30	300	N
SID8042S	57 57 12	136 23 39	3	2.0	3.0	.7	1,000	N	N	N	50	300	N
SID8044S	57 59 23	136 23 18	5	2.0	5.0	.7	1,000	N	N	N	15	150	N
SID8045S	57 58 21	136 22 14	5	3.0	7.0	.7	1,000	N	N	N	10	70	N
SID8046S	57 56 40	136 21 42	5	2.0	7.0	1.0	1,000	N	N	N	15	200	N
SID8047S	57 55 6	136 20 25	5	3.0	5.0	1.0	1,000	N	N	N	15	300	N
SID8060S	57 52 41	136 20 58	5	1.5	5.0	.7	1,500	N	N	N	30	300	N
SID8061S	57 54 19	136 22 44	5	2.0	5.0	1.0	1,000	N	N	N	50	500	N
SID8062S	57 50 4	136 23 45	5	2.0	3.0	.7	1,500	N	N	N	30	500	<1
SID8063S	57 50 49	136 22 15	3	2.0	5.0	.7	1,500	N	N	N	15	500	<1
SID8064S	57 50 57	136 22 32	3	2.0	5.0	.7	1,000	N	N	N	15	300	<1
SID8065S	57 51 42	136 20 37	5	2.0	5.0	.7	1,000	N	N	N	20	500	<1
SID8067S	57 49 54	136 21 7	5	2.0	5.0	.7	1,500	N	N	N	10	300	<1
SID8068S	57 48 30	136 20 23	5	2.0	3.0	.7	1,500	N	N	N	20	500	N

Stream-sediment samples--continued

sample	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN
SID80235	N	N	20	100	50	20	N	N	30	10	N	20	N
SID80245	N	N	20	100	30	<20	N	N	30	<10	N	20	N
SID80258	N	N	30	150	70	<20	N	N	50	<10	N	30	N
SID80255	N	N	30	150	100	<20	N	N	50	<10	N	20	N
SID80265	N	N	30	300	150	<20	N	N	150	<10	N	30	N
SID80285	N	N	30	100	70	<20	N	N	50	10	N	20	N
SID80295	N	N	30	150	50	<20	N	N	50	<10	N	15	N
SID80315	N	N	15	20	50	20	N	N	30	10	N	10	N
SID80325	N	N	30	100	50	<20	N	N	70	<10	N	20	N
SID80335	N	N	20	70	30	<20	N	N	30	15	N	15	N
SID80355	N	N	30	150	30	<20	N	N	70	<10	N	30	N
SID80365	N	N	15	70	20	20	N	N	30	20	N	15	N
SID80415	N	N	15	50	30	20	N	N	20	10	N	15	N
SID80425	N	N	20	100	70	<20	N	N	30	10	N	30	N
SID80445	N	N	30	200	70	N	N	N	50	N	N	30	N
SID80455	N	N	30	70	70	<20	N	N	30	N	N	30	N
SID80465	N	N	20	30	70	<20	N	N	15	N	N	30	N
SID80475	N	N	30	70	100	N	N	N	30	N	N	30	N
SID80605	N	N	30	100	70	N	N	N	50	<10	N	20	N
SID80615	N	N	30	200	150	<20	N	N	50	<10	N	30	N
SID80625	N	N	20	150	30	<20	N	N	30	20	N	20	N
SID80635	N	N	20	150	100	<20	N	N	30	15	N	20	N
SID80645	N	N	15	70	70	<20	N	N	30	15	N	15	N
SID80655	N	N	20	100	100	<20	N	N	30	30	N	15	N
SID80675	N	N	20	70	50	<20	N	N	30	20	N	20	N
SID80685	N	N	15	100	20	<20	N	N	30	15	N	20	N

Stream-sediment samples--continued

sample	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	U-INST	EQUIV U
SID8023S	300	150	N	20	N	150	--	N	.04	--	<20
SID8024S	200	100	N	15	N	50	--	N	.04	--	<20
SID8025B	200	200	N	30	N	70	--	N	.04	--	<20
SID8025S	200	200	N	20	N	50	--	N	.08	--	--
SID8026S	200	200	N	30	N	70	--	N	.35	--	<20
SID8028S	200	200	N	30	N	70	--	N	.02	--	<20
SID8029S	200	100	N	20	N	100	--	N	.04	--	--
SID8031S	200	100	N	15	N	100	--	N	.10	--	--
SID8032S	200	150	N	20	N	150	--	N	.08	--	--
SID8033S	300	150	N	20	N	70	--	N	.04	--	<20
SID8035S	200	150	N	30	N	100	--	N	.04	--	<20
SID8036S	300	150	N	20	N	100	--	N	.06	--	--
SID8041S	300	150	N	15	N	70	--	N	.04	--	<20
SID8042S	200	200	N	20	N	70	--	N	.06	--	<20
SID8044S	150	200	N	20	N	50	--	N	.14	--	--
SID8045S	300	300	N	20	N	50	--	N	.16	--	--
SID8046S	300	200	N	30	N	100	--	2.50	.06	--	--
SID8047S	300	200	N	30	N	50	--	N	.02	--	<20
SID8060S	300	200	N	20	N	70	--	N	.12	--	--
SID8061S	300	200	N	30	N	70	--	N	.06	--	<20
SID8062S	300	200	N	30	N	70	--	N	.14	--	--
SID8063S	300	200	N	20	N	70	--	N	.04	--	<20
SID8064S	300	200	N	20	N	70	--	N	.06	--	--
SID8065S	200	150	N	20	N	70	--	N	.06	--	<20
SID8067S	200	150	N	20	N	70	--	N	.02	--	<20
SID8068S	200	200	<50	30	N	70	--	N	.06	--	--

TABLE 5.--*Analytical results for nonmagnetic heavy-mineral concentrate samples*

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
MFA2006C	58 1 50	136 22 16	3	.7	20	.20	1,000	N	N	N	15	200
MFA2007C	58 2 36	136 23 46	3	1.0	20	.20	1,000	N	N	N	15	200
MFA2008C	58 3 21	136 25 57	3	3.0	15	.50	1,000	N	N	N	10	100
MFA2009C	58 1 25	136 28 58	3	1.0	10	.50	1,000	N	N	N	20	200
MFA2010C	58 0 17	136 29 21	2	.7	20	.50	1,000	N	N	N	20	100
MFA2011C	58 1 43	136 26 44	2	.7	10	.15	700	N	N	N	15	200
MFA2012C	58 0 33	136 21 10	3	2.0	10	.20	1,000	N	N	N	15	200
MFA2013C	58 0 12	136 22 16	3	1.0	10	.30	1,000	N	N	N	15	200
MFA2014C	58 3 59	136 26 38	3	1.0	10	.30	1,000	N	N	N	10	200
MFA2015C	58 5 19	136 30 9	3	2.0	10	1.00	700	N	N	N	10	200
MFA2016C	58 3 31	136 31 6	5	3.0	10	1.00	1,000	N	N	N	20	100
MFA2017C	58 4 9	136 32 42	3	.7	10	.70	700	N	N	N	30	700
MFA2018C	58 4 19	136 32 52	3	1.0	10	1.00	700	N	N	N	10	500
MFA2019C	58 1 15	136 31 51	3	1.0	10	.30	700	N	N	N	20	300
MFA2020C	58 1 56	136 33 6	3	1.0	10	.70	700	N	N	N	30	300
MFA2030C	58 0 16	136 25 30	5	1.0	10	.50	1,000	N	N	N	20	150
MFA2351C	58 1 12	136 28 32	7	2.0	>20	.50	1,500	N	N	N	30	500
SIB5300C	57 24 43	135 39 49	3	.7	15	>1.00	1,000	N	N	N	15	200
SIB5301C	57 24 41	135 38 26	3	.7	20	.70	1,000	N	N	N	15	70
SIB5302C	57 25 23	135 37 0	3	.7	20	.50	1,000	N	N	N	20	150
SIB5303C	57 26 37	135 38 0	2	.7	20	.30	1,000	N	N	N	20	150
SIB5304C	57 27 7	135 37 57	3	3.0	20	.50	1,000	N	N	N	15	150
SIB5305C	57 27 46	135 39 47	3	1.0	10	.30	1,500	N	N	N	20	500
SIB5311C	57 27 27	135 39 23	3	1.0	20	.50	1,500	N	N	N	30	300
SIB5313A	57 26 36	135 32 10	2	1.0	10	.15	500	.5	N	N	15	150
SIB5314C	57 26 51	135 35 35	3	2.0	15	.50	1,000	N	N	N	200	1,000
SIB5315C	57 27 19	135 34 2	3	2.0	15	.50	1,000	N	N	N	20	200
SIB5316C	57 27 40	135 33 11	3	.7	10	.30	700	N	N	N	20	150
SIB5317C	57 29 49	135 33 42	3	1.0	10	.70	700	N	N	N	30	150
SIB5318C	57 29 14	135 33 0	3	.7	15	.50	700	N	N	N	10	150
SIB5319C	57 29 16	135 35 34	3	1.0	15	.50	1,000	N	N	N	100	150
SIB6198C	57 28 57	135 58 7	3	5.0	10	.70	1,500	N	N	N	20	300
SIB6199C	57 28 21	135 57 36	5	1.0	15	>1.00	1,000	N	N	N	100	300
SIB6200C	57 27 26	135 55 12	3	3.0	15	.70	1,500	N	N	N	15	200
SIB6201C	57 26 38	135 53 43	2	1.5	10	1.50	1,500	N	N	N	50	1,500
SIB6204C	57 24 30	135 49 20	2	.7	1	.30	500	N	N	N	15	1,000
SIB6210C	57 22 34	135 41 44	3	1.0	15	.50	700	N	N	N	15	200
SIB6211C	57 23 11	135 41 14	3	.7	15	1.00	700	N	N	N	100	150
SIB6215C	57 25 13	135 42 59	3	.5	15	1.00	1,000	N	N	N	15	200
SIB6216C	57 25 49	135 42 25	3	.5	15	.50	700	2.0	N	N	20	100
SIB6217C	57 26 38	135 43 46	3	.5	20	.50	700	N	N	N	15	150
SIB6218C	57 26 28	135 44 4	3	1.0	20	.20	700	N	N	N	30	100
SIB6219C	57 23 47	135 44 22	3	3.0	15	1.00	1,500	N	N	N	30	500
SIB6220C	57 25 29	135 46 41	3	2.0	15	1.00	1,000	N	N	N	100	300
SIB6221C	57 24 39	135 45 35	3	3.0	10	.70	1,000	N	N	N	20	300

Heavy-mineral panned-concentrate samples

sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
MFA2006C	N	N	N	15	50	15	N	N	N	10	<10	N
MFA2007C	N	N	N	15	30	15	N	N	N	10	<10	N
MFA2008C	N	N	N	20	200	15	N	N	N	30	<10	N
MFA2009C	N	N	N	30	50	70	N	N	N	15	<10	N
MFA2010C	N	N	N	15	50	20	N	N	N	10	<10	N
MFA2011C	N	N	N	10	20	7	N	N	N	5	<10	N
MFA2012C	N	N	N	15	20	20	N	N	N	15	<10	N
MFA2013C	N	N	N	20	30	20	N	N	N	10	<10	N
MFA2014C	N	N	N	20	50	20	N	N	N	10	10	N
MFA2015C	N	N	N	20	200	70	N	N	N	50	<10	N
MFA2016C	N	N	N	30	200	50	N	N	N	70	N	N
MFA2017C	1	N	N	10	100	15	N	N	N	15	<10	N
MFA2018C	N	N	N	15	100	5	N	N	N	15	<10	N
MFA2019C	N	N	N	15	100	15	N	N	N	30	<10	N
MFA2020C	N	N	N	10	70	7	N	N	N	10	10	N
MFA2030C	N	N	N	30	30	50	N	N	N	7	10	N
MFA2351C	N	N	N	15	100	50	N	N	N	15	<10	N
SIB5300C	N	N	N	15	100	50	N	N	<20	5	10	N
SIB5301C	1	N	N	15	30	10	N	N	N	5	10	N
SIB5302C	2	N	N	15	30	20	N	N	N	5	10	N
SIB5303C	5	N	N	15	70	50	20	N	N	20	10	N
SIB5304C	3	N	N	30	300	30	20	N	<20	100	10	N
SIB5305C	5	N	N	15	70	50	100	N	N	30	10	N
SIB5311C	2	N	N	15	100	70	500	N	N	20	15	N
SIB5313A	N	N	N	15	70	50	N	N	N	30	<10	N
SIB5314C	2	N	N	30	100	70	20	N	N	30	10	N
SIB5315C	1	N	N	20	150	70	20	N	N	50	10	N
SIB5316C	1	N	N	30	100	30	20	N	N	30	10	N
SIB5317C	1	N	N	20	70	70	50	N	N	30	10	N
SIB5318C	1	N	N	20	50	500	20	N	N	20	10	N
SIB5319C	1	N	N	30	70	70	20	N	N	30	10	N
SIB6198C	N	N	N	30	700	50	20	N	N	150	<10	N
SIB6199C	1	N	N	15	500	30	50	N	N	30	20	N
SIB6200C	1	N	N	20	300	70	20	N	N	70	10	N
SIB6201C	2	N	N	20	200	10	N	N	N	20	<20	N
SIB6204C	2	N	N	15	50	15	20	N	N	20	20	N
SIB6210C	1	N	N	15	150	15	20	N	N	50	10	N
SIB6211C	1	N	N	30	100	20	20	N	20	20	10	N
SIB6215C	N	N	N	10	20	15	50	N	N	5	10	N
SIB6216C	3	N	N	10	70	50	20	N	N	20	10	N
SIB6217C	5	N	N	10	20	50	70	N	N	15	10	N
SIB6218C	2	N	N	15	200	100	20	N	N	70	10	N
SIB6219C	1	N	N	20	700	30	N	N	N	100	10	N
SIB6220C	N	N	N	20	500	70	N	N	N	70	10	N
SIB6221C	N	N	N	15	500	30	N	N	N	150	10	N

Heavy-mineral panned-concentrate samples

sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
MFA2006C	15	N	700	150	N	20	N	200	N
MFA2007C	15	N	1,000	150	N	15	N	100	N
MFA2008C	30	N	700	200	N	50	N	50	N
MFA2009C	20	N	1,000	150	N	20	N	50	N
MFA2010C	15	N	1,000	150	N	10	N	100	N
MFA2011C	15	N	1,000	100	N	10	N	30	N
MFA2012C	10	N	1,000	150	N	15	N	30	N
MFA2013C	15	N	1,000	150	N	20	N	100	N
MFA2014C	15	N	1,000	200	N	20	N	200	N
MFA2015C	30	N	500	200	N	30	N	70	N
MFA2016C	50	N	500	300	N	50	N	70	N
MFA2017C	15	N	1,000	150	N	30	N	500	N
MFA2018C	15	N	700	200	N	30	N	200	N
MFA2019C	15	N	700	150	N	30	N	1,000	N
MFA2020C	15	N	700	150	N	50	N	500	N
MFA2030C	20	N	1,000	200	N	30	N	100	N
MFA2351C	20	70	3,000	300	100	30	N	100	N
SIB5300C	20	N	1,500	300	N	100	N	>1,000	N
SIB5301C	15	N	1,000	300	N	20	N	1,000	N
SIB5302C	15	N	1,000	200	N	30	N	1,000	N
SIB5303C	15	N	700	100	N	70	N	500	N
SIB5304C	30	N	700	100	N	100	N	500	N
SIB5305C	15	N	700	200	N	70	N	70	N
SIB5311C	20	N	1,000	150	N	150	N	500	N
SIB5313A	10	N	500	70	N	15	N	100	N
SIB5314C	15	N	1,500	150	N	70	N	500	N
SIB5315C	20	N	1,000	200	N	70	N	100	N
SIB5316C	15	N	700	200	N	50	N	500	N
SIB5317C	20	N	700	200	N	50	N	300	N
SIB5318C	15	N	700	200	N	50	N	200	N
SIB5319C	20	N	500	200	N	30	N	100	N
SIB6198C	30	N	300	300	N	50	N	700	N
SIB6199C	50	N	1,000	500	N	100	N	>1,000	N
SIB6200C	30	N	500	300	N	50	N	200	N
SIB6201C	20	N	500	300	N	100	N	500	N
SIB6204C	10	N	500	100	N	20	N	150	N
SIB6210C	20	N	700	200	N	30	N	700	N
SIB6211C	15	N	700	200	N	100	N	>1,000	N
SIB6215C	15	N	2,000	200	N	30	N	>1,000	N
SIB6216C	15	N	700	200	N	20	N	500	N
SIB6217C	15	N	500	200	N	20	N	200	N
SIB6218C	15	N	300	200	N	20	N	70	N
SIB6219C	30	N	500	300	N	50	N	1,000	N
SIB6220C	30	N	500	300	300	50	N	1,000	N
SIB6221C	30	N	300	200	50	30	N	200	N

Heavy-mineral panned-concentrate samples--continued

sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
SID8035C	30	N	1,000	200	N	200	N	>1,000	N
SID8036C	50	N	700	300	N	50	N	>1,000	N
SID8041C	30	N	1,000	300	N	50	N	1,000	N
SID8042C	50	N	1,000	300	N	50	N	150	N
SID8043C	30	N	1,000	200	N	30	N	50	N
SID8044C	20	N	1,000	200	N	30	N	100	N
SID8045C	15	N	1,500	200	N	10	N	10	N
SID8046C	20	N	700	200	N	30	N	500	N
SID8047C	20	N	1,000	200	N	50	N	200	N
SID8060C	30	N	1,500	150	N	70	N	700	N
SID8061C	30	N	1,500	200	N	50	N	200	N
SID8062C	10	N	700	100	N	20	N	150	N
SID8063C	20	N	1,000	150	200	50	N	300	N
SID8064C	20	N	1,000	150	N	30	N	700	N
SID8065C	15	20	700	200	N	70	N	100	N
SID8066C	30	N	1,000	300	N	50	N	100	N
SID8068C	15	N	1,000	150	N	30	N	200	N

Heavy-mineral panned-concentrate samples--continued

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
SIB6222C	57 26 38	135 48 35	5	3.0	10	.70	1,000	N	N	N	300	500
SIB6224C	57 28 16	135 52 21	5	3.0	10	1.00	1,000	N	N	N	500	200
SIB6225C	57 27 28	135 48 37	5	5.0	15	.70	1,000	N	N	N	150	300
SIB6226C	57 27 39	135 46 40	3	3.0	15	.50	1,000	N	N	N	50	200
SIB6227C	57 28 9	135 48 52	3	2.0	15	1.00	1,000	N	N	N	15	200
SIB6228C	57 28 59	135 48 42	3	2.0	15	>1.00	700	N	N	N	70	150
SIB6229C	57 29 28	135 48 27	3	3.0	10	1.00	700	N	N	N	10	150
SIB6230C	57 29 38	135 48 57	3	2.0	15	1.00	700	N	N	N	100	150
SIB6231C	57 28 29	135 49 35	3	2.0	10	1.00	1,500	N	N	N	30	1,000
SIB6232C	57 29 11	135 51 34	3	2.0	15	.70	1,000	N	N	N	70	300
SIB6233C	57 29 25	135 50 52	5	3.0	5	1.00	1,500	N	N	N	50	200
SIB6234C	57 29 33	135 51 9	3	2.0	10	1.00	1,500	N	N	N	70	700
SIB6235C	57 29 17	135 52 1	5	2.0	5	1.00	1,000	N	500	N	30	700
SIB6237C	57 29 46	135 55 21	2	1.0	10	.50	1,000	N	N	N	20	200
SIB6306C	57 28 16	135 40 29	2	1.0	15	.70	1,000	N	N	N	20	200
SIB6307C	57 28 7	135 40 37	2	.5	15	.20	1,500	N	N	N	20	200
SIB6308C	57 29 16	135 41 40	2	2.0	15	.70	1,000	N	N	N	50	150
SIB6309C	57 29 8	135 41 59	3	2.0	15	.70	1,000	N	N	N	50	100
SIB6310C	57 29 12	135 43 13	3	.7	20	.30	700	N	N	N	200	300
SIB6320C	57 26 14	135 40 7	3	1.0	20	.70	1,000	N	N	N	20	200
SIB6433C	57 29 16	135 42 36	3	1.0	3	.70	700	.5	N	10	15	300
SIC5188C	57 40 40	135 37 59	10	.7	15	.70	700	.5	N	N	2,000	300
SIC5189C	57 40 21	135 37 24	3	.7	15	1.00	700	N	N	N	1,500	200
SIC5190C	57 38 56	135 36 46	5	1.0	15	.50	1,000	N	N	N	1,500	300
SIC5197C	57 37 13	135 38 32	3	1.0	20	1.00	1,000	N	N	N	300	200
SIC5322C	57 30 9	135 37 24	5	1.0	10	.50	1,000	N	N	N	70	100
SIC5323C	57 31 8	135 35 55	3	1.0	15	.50	1,000	N	N	N	50	200
SIC5324C	57 30 59	135 35 47	5	1.0	20	.30	1,000	N	N	N	15	200
SIC5325C	57 30 58	135 35 7	5	1.0	20	1.00	1,000	N	N	N	20	500
SIC5334C	57 33 8	135 39 23	3	1.0	20	.20	700	7.0	N	N	50	150
SIC5335C	57 34 32	135 38 14	3	1.0	20	.50	1,000	N	N	N	200	200
SIC5336C	57 34 48	135 37 17	3	1.0	20	.50	700	3.0	N	N	100	200
SIC5337C	57 33 11	135 34 45	3	3.0	20	.50	700	N	N	N	100	150
SIC5338C	57 35 47	135 34 22	3	1.0	20	1.00	1,000	N	N	N	30	300
SIC5339C	57 36 27	135 36 24	5	1.0	20	.70	1,000	N	N	N	15	300
SIC5340C	57 36 35	135 36 45	5	.7	20	.50	1,000	N	N	N	10	200
SIC5343C	57 31 29	135 34 52	5	2.0	20	>1.00	1,000	N	N	N	100	150
SIC5364C	57 41 50	135 39 20	5	2.0	10	.30	1,000	N	N	N	300	200
SIC6104C	57 43 52	135 47 34	3	1.0	20	1.00	700	N	N	N	500	200
SIC6105C	57 43 44	135 47 14	5	.5	10	1.00	700	N	N	N	1,000	150
SIC6106C	57 44 22	135 49 30	3	1.0	10	.30	700	N	N	N	500	150
SIC6107C	57 44 17	135 51 30	3	1.0	10	.50	700	N	N	N	1,000	500
SIC6108C	57 44 6	135 51 23	3	.7	10	.50	700	N	N	N	200	200
SIC6109C	57 43 51	135 53 40	5	.7	10	.50	700	N	N	N	200	200
SIC6110C	57 41 50	135 48 2	3	.7	10	.30	700	N	N	N	50	100

Heavy-mineral panned-concentrate samples--continued

sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
SIB6222C	N	N	N	15	300	50	N	N	N	70	10	N
SIB6224C	N	N	N	30	300	70	N	N	N	100	10	N
SIB6225C	N	N	N	30	700	70	N	N	N	150	N	N
SIB6226C	1	N	N	15	200	30	N	N	N	100	10	N
SIB6227C	N	N	N	15	200	100	N	N	N	150	10	N
SIB6228C	N	N	N	15	300	70	N	N	N	100	10	N
SIB6229C	N	N	N	20	700	200	N	N	N	200	<10	N
SIB6230C	N	N	N	15	200	70	70	N	N	100	<10	N
SIB6231C	1	N	N	15	300	50	50	N	N	70	10	N
SIB6232C	N	N	N	15	150	50	N	N	N	50	10	N
SIB6233C	N	N	N	30	200	50	N	N	N	70	<10	N
SIB6234C	N	N	N	20	150	30	50	N	N	50	10	N
SIB6235C	2	N	N	20	200	50	50	N	<20	50	20	N
SIB6237C	N	N	N	15	100	30	70	N	N	50	15	N
SIB6306C	2	N	N	15	100	50	200	N	N	30	10	N
SIB6307C	3	N	N	5	30	7	1,000	N	N	5	15	N
SIB6308C	1	N	N	15	100	70	150	N	N	50	10	N
SIB6309C	1	N	N	15	150	50	30	N	N	50	10	N
SIB6310C	2	N	N	30	70	200	20	N	N	30	10	N
SIB6320C	N	N	N	15	70	30	50	N	N	20	15	N
SIB6433C	1	N	N	10	70	30	100	N	N	30	15	N
SIC5188C	1	N	N	50	30	2,000	20	N	N	20	15	N
SIC5189C	N	N	N	30	100	500	20	N	N	20	10	N
SIC5190C	N	N	N	30	70	100	20	N	N	20	10	N
SIC5197C	N	N	N	15	70	10	50	N	<20	10	10	N
SIC5322C	1	N	N	15	70	30	20	20	<20	30	15	N
SIC5323C	1	N	N	15	70	50	100	N	N	30	30	N
SIC5324C	1	N	N	15	100	70	30	N	N	30	10	N
SIC5325C	N	N	N	15	70	20	20	N	N	15	10	N
SIC5334C	1	N	N	15	50	30	20	N	N	20	10	N
SIC5335C	2	N	N	15	70	50	20	N	N	20	10	N
SIC5336C	2	N	N	15	30	200	20	N	N	15	15	N
SIC5337C	1	N	N	15	30	70	20	N	N	15	10	N
SIC5338C	1	N	N	15	50	50	50	N	<20	10	10	N
SIC5339C	1	N	N	15	50	50	100	N	N	15	15	N
SIC5340C	2	N	N	10	20	20	30	N	N	10	15	N
SIC5343C	N	N	N	50	150	70	50	N	N	70	10	N
SIC5364C	N	N	N	20	50	30	N	N	N	15	<10	N
SIC6104C	N	N	N	30	70	70	20	N	N	15	<10	N
SIC6105C	N	N	N	100	20	70	50	N	N	20	10	N
SIC6106C	1	N	N	15	70	30	N	N	N	20	10	N
SIC6107C	<1	N	N	30	70	300	N	N	N	30	10	N
SIC6108C	<1	N	N	20	100	70	N	N	N	15	10	N
SIC6109C	<1	N	N	30	100	150	150	N	N	30	<10	N
SIC6110C	N	N	N	30	50	70	N	30	N	20	10	N

Heavy-mineral panned-concentrate samples--continued

sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
SIB6222C	20	N	300	200	N	30	N	200	N
SIB6224C	30	N	300	300	N	30	N	700	N
SIB6225C	30	N	300	300	N	30	N	70	N
SIB6226C	20	N	500	200	N	20	N	70	N
SIB6227C	15	N	500	200	N	30	N	500	N
SIB6228C	20	N	500	300	N	30	N	>1,000	N
SIB6229C	20	N	300	300	N	30	N	150	N
SIB6230C	20	N	500	300	N	30	N	700	N
SIB6231C	30	N	500	300	N	50	N	500	N
SIB6232C	20	N	500	300	N	50	N	1,000	N
SIB6233C	50	N	500	300	N	50	N	70	N
SIB6234C	30	N	300	300	N	70	N	>1,000	N
SIB6235C	30	N	500	200	N	70	N	500	N
SIB6237C	30	N	1,000	200	N	50	N	150	N
SIB6306C	20	N	700	200	N	70	N	200	N
SIB6307C	20	N	1,500	50	N	300	N	>1,000	N
SIB6308C	20	N	500	200	N	50	N	200	N
SIB6309C	20	N	500	200	N	50	N	50	N
SIB6310C	15	N	500	150	N	20	N	300	N
SIB6320C	20	N	700	150	N	50	N	>1,000	N
SIB6433C	15	>1,000	300	150	N	70	N	1,000	N
SIC5188C	15	N	300	200	N	50	500	500	N
SIC5189C	20	N	500	300	N	50	500	700	N
SIC5190C	30	N	700	300	N	30	N	150	N
SIC5197C	15	N	1,000	100	N	100	N	>1,000	N
SIC5322C	20	N	700	150	N	70	N	200	N
SIC5323C	15	N	700	150	N	50	N	100	N
SIC5324C	20	N	700	200	N	50	N	700	N
SIC5325C	20	N	1,000	200	N	70	N	1,000	N
SIC5334C	15	N	700	200	N	30	N	1,000	N
SIC5335C	15	N	700	200	N	30	N	700	N
SIC5336C	15	N	1,000	200	N	50	N	150	N
SIC5337C	15	N	500	150	N	30	N	1,000	N
SIC5338C	20	N	1,500	300	N	100	N	>1,000	N
SIC5339C	20	N	1,500	200	N	150	N	>1,000	N
SIC5340C	15	N	1,000	200	N	100	N	700	N
SIC5343C	20	N	1,000	150	N	100	N	>1,000	N
SIC5364C	10	200	300	150	100	30	N	200	N
SIC6104C	20	N	300	200	N	100	N	>1,000	N
SIC6105C	15	N	200	100	N	200	N	>1,000	150
SIC6106C	15	N	500	150	N	50	N	700	N
SIC6107C	15	N	500	100	N	70	N	1,000	N
SIC6108C	15	N	500	100	N	50	N	300	N
SIC6109C	15	N	300	100	N	70	N	700	N
SIC6110C	15	20	500	100	N	30	N	>1,000	N

Heavy-mineral panned-concentrate samples--continued

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
SIC6111C	57 41 49	135 47 35	3	1.0	10	.50	700	N	N	N	50	150
SIC6112C	57 42 37	135 50 10	3	1.0	10	.30	700	N	N	N	150	100
SIC6113C	57 42 23	135 50 13	3	1.0	10	.30	700	N	N	N	70	100
SIC6150C	57 43 22	135 44 22	5	1.0	10	1.00	1,500	N	N	N	2,000	200
SIC6151C	57 41 17	135 44 48	5	1.0	10	.70	1,500	N	N	N	300	200
SIC6152C	57 40 34	135 45 34	5	2.0	10	1.00	1,000	N	N	N	300	200
SIC6153C	57 40 6	135 46 18	3	1.0	10	.50	700	N	N	N	300	700
SIC6154C	57 39 28	135 50 13	3	.7	10	.15	1,000	N	N	N	200	150
SIC6155C	57 38 55	135 50 5	3	1.0	10	.20	700	N	N	N	70	100
SIC6156C	57 38 41	135 47 37	3	1.0	10	.20	700	N	N	N	10	2,000
SIC6157C	57 42 32	135 45 41	3	1.0	10	.30	700	N	N	N	70	150
SIC6158C	57 42 39	135 48 43	3	1.0	10	.50	1,000	N	N	N	70	200
SIC6159C	57 43 11	135 52 15	3	1.0	15	.30	700	N	N	N	100	150
SIC6160B	57 41 39	135 54 11	5	.5	15	.30	1,000	N	N	N	<10	700
SIC6160C	57 41 39	135 54 11	5	.7	15	.30	1,000	N	N	N	<10	500
SIC6161C	57 40 52	135 51 59	5	1.0	15	.20	700	N	N	N	100	200
SIC6162C	57 40 41	135 52 30	5	1.0	15	.20	700	N	N	N	150	100
SIC6163C	57 39 11	135 49 1	3	.7	15	.30	700	N	N	N	70	150
SIC6164C	57 36 36	135 51 19	3	1.0	10	.50	700	N	N	N	30	200
SIC6165C	57 36 10	135 49 56	3	.7	15	.30	700	N	N	N	15	150
SIC6166C	57 35 14	135 48 40	5	.7	15	.30	700	N	N	N	10	70
SIC6175C	57 38 53	135 54 9	3	2.0	10	.30	700	N	N	N	2,000	500
SIC6176C	57 38 33	135 52 43	3	2.0	10	.50	700	N	N	N	300	200
SIC6177C	57 38 26	135 52 25	5	1.0	15	.70	700	N	N	N	70	150
SIC6179C	57 37 48	135 49 26	3	.7	15	.20	700	N	N	N	70	70
SIC6180C	57 37 58	135 49 7	3	.7	15	.30	500	N	N	N	100	70
SIC6181C	57 36 56	135 48 7	3	.7	15	.20	500	N	N	N	100	50
SIC6182C	57 39 16	135 46 12	3	.7	15	.70	500	N	N	N	2,000	2,000
SIC6183C	57 39 30	135 43 36	3	.7	15	1.00	1,000	N	N	N	70	200
SIC6184C	57 38 58	135 41 57	3	.7	15	.70	700	N	N	N	200	200
SIC6185C	57 39 13	135 41 48	3	.7	15	.70	700	N	N	N	200	500
SIC6186C	57 37 31	135 46 4	5	.7	15	.70	700	N	N	N	500	500
SIC6187C	57 37 22	135 45 51	3	.7	15	.70	700	N	N	N	200	2,000
SIC6191C	57 40 52	135 40 59	5	.7	20	>1.00	1,000	N	N	N	1,000	300
SIC6192C	57 37 38	135 41 42	3	.7	15	.70	700	N	N	N	100	100
SIC6193C	57 35 31	135 43 41	3	.7	15	.30	700	N	N	N	200	100
SIC6194C	57 36 45	135 42 57	3	.7	15	.30	700	N	N	N	150	150
SIC6195C	57 36 35	135 42 41	3	.7	15	.50	700	N	N	N	100	150
SIC6196C	57 37 20	135 41 47	3	.7	15	.50	700	N	N	N	100	100
SIC6236C	57 30 5	135 53 47	5	1.5	10	1.50	1,500	N	N	N	30	200
SIC6238C	57 31 41	135 54 40	3	1.0	7	.50	1,000	N	N	N	20	500
SIC6239C	57 30 51	135 57 58	3	2.0	10	1.00	1,000	N	N	N	20	500
SIC6244C	57 33 1	135 53 3	3	1.0	7	1.00	1,000	N	N	N	500	1,000
SIC6246C	57 35 19	135 52 22	3	1.0	10	.30	500	N	N	N	20	150
SIC6247C	57 35 27	135 52 0	3	2.0	10	.30	700	N	N	N	200	200

Heavy-mineral panned-concentrate samples--continued

sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
SIC6111C	<1	N	N	20	100	50	N	N	N	20	<10	N
SIC6112C	1	N	N	20	50	50	N	N	N	20	10	N
SIC6113C	N	N	N	50	100	70	N	N	N	30	<10	N
SIC6150C	1	N	N	30	100	70	70	N	N	20	10	N
SIC6151C	N	N	N	15	70	100	50	N	N	15	15	N
SIC6152C	N	N	N	20	100	50	50	N	N	30	10	N
SIC6153C	N	N	N	30	150	100	20	N	N	50	<10	N
SIC6154C	1	N	N	10	50	30	20	N	N	20	<10	N
SIC6155C	2	N	N	10	100	50	20	N	N	20	10	N
SIC6156C	1	N	N	15	100	50	20	N	N	30	10	N
SIC6157C	1	N	N	15	100	30	20	N	N	30	<10	N
SIC6158C	<1	N	N	30	70	70	N	N	N	20	10	N
SIC6159C	<1	N	N	50	70	70	N	N	N	30	10	N
SIC6160B	2	N	N	15	20	150	150	N	N	5	20	N
SIC6160C	2	N	N	15	30	150	50	N	N	20	20	N
SIC6161C	N	N	N	20	70	100	N	N	N	20	<10	N
SIC6162C	N	N	N	20	100	70	N	N	N	20	<10	N
SIC6163C	N	N	N	15	50	70	20	N	N	20	<10	N
SIC6164C	N	N	N	20	150	150	N	N	N	100	<10	N
SIC6165C	N	N	N	15	70	70	20	N	N	50	<10	N
SIC6166C	N	N	N	15	70	70	N	N	N	30	<10	N
SIC6175C	2	N	N	15	150	30	20	N	N	70	10	N
SIC6176C	1	N	N	30	200	200	30	N	N	50	10	N
SIC6177C	1	N	N	20	150	70	20	N	N	20	10	N
SIC6179C	1	N	N	10	10	200	70	N	N	5	10	N
SIC6180C	1	N	N	30	10	300	30	N	N	5	10	N
SIC6181C	1	N	N	20	20	300	20	N	N	5	10	N
SIC6182C	1	N	N	30	30	100	N	N	N	20	N	N
SIC6183C	1	N	N	15	100	50	20	N	N	20	10	N
SIC6184C	1	N	N	15	70	50	20	N	N	30	10	N
SIC6185C	1	N	N	15	70	50	20	N	N	20	10	N
SIC6186C	1	N	N	30	70	700	20	N	N	30	10	N
SIC6187C	2	N	N	15	70	100	20	N	N	20	<10	N
SIC6191C	1	N	N	30	30	50	20	N	N	15	15	N
SIC6192C	1	N	N	15	70	100	20	N	N	30	<10	N
SIC6193C	2	N	N	15	100	300	20	N	N	20	10	N
SIC6194C	2	N	N	15	50	70	20	N	N	20	10	N
SIC6195C	1	N	N	15	70	70	20	N	N	20	10	N
SIC6196C	1	N	N	15	70	100	50	N	N	20	10	N
SIC6236C	2	N	N	30	100	30	N	N	N	50	<20	N
SIC6238C	1	N	N	15	150	50	30	N	N	50	10	N
SIC6239C	N	N	N	20	300	70	30	N	N	100	10	N
SIC6244C	1	N	N	15	150	70	30	N	N	50	10	N
SIC6246C	1	N	N	15	70	50	N	N	N	20	10	N
SIC6247C	1	N	N	30	200	100	N	N	N	100	<10	N

Heavy-mineral panned-concentrate samples--continued

sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
SIC6111C	15	N	500	150	N	30	N	1,000	N
SIC6112C	10	N	500	150	N	20	N	500	N
SIC6113C	15	N	500	150	N	20	N	200	N
SIC6150C	20	N	700	200	N	70	N	500	N
SIC6151C	30	N	700	300	N	70	N	1,000	N
SIC6152C	20	N	700	300	N	70	N	1,000	N
SIC6153C	20	N	500	200	N	30	N	>1,000	N
SIC6154C	15	N	700	200	N	20	N	70	N
SIC6155C	15	N	300	200	N	20	N	100	N
SIC6156C	15	N	500	200	N	30	N	700	N
SIC6157C	15	N	300	200	N	30	N	1,000	N
SIC6158C	20	N	500	300	N	50	N	1,000	N
SIC6159C	15	N	500	300	N	30	N	1,000	N
SIC6160B	15	N	1,500	200	N	100	N	700	N
SIC6160C	15	N	1,500	200	N	50	N	300	N
SIC6161C	15	N	700	200	N	30	N	700	N
SIC6162C	15	N	700	200	N	15	N	30	N
SIC6163C	15	N	700	200	N	50	N	>1,000	N
SIC6164C	20	N	500	300	N	20	N	200	N
SIC6165C	15	N	500	200	N	30	N	>1,000	N
SIC6166C	15	N	500	200	N	20	N	200	N
SIC6175C	15	N	500	200	N	20	N	50	N
SIC6176C	15	N	500	200	N	30	N	500	N
SIC6177C	15	N	500	200	N	70	N	1,000	N
SIC6179C	15	N	500	150	N	30	N	>1,000	N
SIC6180C	15	N	300	300	N	70	N	>1,000	N
SIC6181C	15	N	300	300	N	20	N	700	N
SIC6182C	15	N	500	200	N	70	N	>1,000	N
SIC6183C	20	N	300	300	N	70	N	150	N
SIC6184C	15	N	500	300	N	50	N	200	N
SIC6185C	15	N	300	300	N	50	N	700	N
SIC6186C	15	N	300	300	N	50	N	1,000	N
SIC6187C	15	N	300	300	N	50	N	700	N
SIC6191C	20	N	700	300	N	100	N	500	N
SIC6192C	15	N	500	300	N	70	N	>1,000	N
SIC6193C	10	N	300	300	N	30	N	1,000	N
SIC6194C	15	N	300	300	N	30	N	70	N
SIC6195C	15	N	200	200	N	30	N	1,000	N
SIC6196C	15	N	300	200	N	30	N	500	N
SIC6236C	30	N	500	500	N	70	N	1,000	N
SIC6238C	20	N	500	200	N	50	N	1,000	N
SIC6239C	30	N	500	300	N	70	N	500	N
SIC6244C	30	N	500	200	70	50	N	700	N
SIC6246C	15	N	300	200	N	30	N	700	N
SIC6247C	30	N	300	200	N	30	N	200	N

Heavy-mineral panned-concentrate samples--continued

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
SIC6248C	57 35 45	135 52 47	5	.7	10	>1.00	1,000	.5	700	N	200	>5,000
SIC6250C	57 35 6	135 54 44	3	1.0	10	.20	1,000	N	N	N	200	2,000
SIC6251C	57 33 15	135 48 10	3	3.0	15	.30	700	N	N	N	20	150
SIC6252C	57 32 31	135 48 24	3	3.0	15	.70	700	N	N	N	15	100
SIC6253C	57 32 44	135 48 36	3	3.0	15	.30	700	N	N	N	1,500	100
SIC6254C	57 31 51	135 49 30	3	3.0	15	.30	700	N	N	N	70	150
SIC6255C	57 31 50	135 49 55	3	2.0	10	.50	700	N	N	N	50	150
SIC6256C	57 30 19	135 48 53	3	3.0	10	1.00	700	N	N	N	10	150
SIC6257C	57 30 18	135 49 22	3	2.0	20	.70	700	N	N	N	70	200
SIC6263C	57 36 13	135 59 55	3	1.0	20	>1.00	1,000	N	N	N	50	300
SIC6264C	57 35 48	135 58 43	3	1.0	20	>1.00	1,000	N	N	N	50	300
SIC6271C	57 37 38	135 58 32	3	5.0	7	.70	1,000	N	N	N	100	500
SIC6272C	57 38 5	135 59 50	3	3.0	10	1.00	1,500	N	N	N	200	700
SIC6273C	57 39 17	135 57 44	3	3.0	10	.50	700	N	N	N	100	200
SIC6274C	57 39 53	135 57 56	3	2.0	15	.50	700	N	N	N	200	300
SIC6275C	57 40 5	135 58 5	2	5.0	5	.30	1,000	N	N	N	50	500
SIC6290C	57 43 38	135 59 45	3	.5	10	.15	1,000	N	N	N	10	300
SIC6291C	57 43 52	135 59 37	3	1.0	15	.15	700	N	N	N	70	150
SIC6292C	57 44 38	135 56 57	2	1.0	15	.20	500	N	N	N	50	150
SIC6293C	57 44 50	135 57 10	3	1.0	15	.10	700	N	N	N	200	100
SIC6294C	57 44 3	135 55 54	3	1.0	15	.20	700	N	N	N	100	150
SIC6297C	57 42 14	135 59 1	3	.7	10	.20	1,000	N	N	N	50	300
SIC6298C	57 42 24	135 57 3	5	.7	15	.30	1,000	N	N	N	50	300
SIC6299C	57 42 37	135 57 16	3	.7	15	.20	1,000	N	N	N	70	300
SIC6326C	57 33 16	135 44 55	3	2.0	20	.50	700	N	N	N	15	150
SIC6327C	57 33 13	135 43 1	3	1.0	20	.70	700	N	N	N	15	150
SIC6328C	57 33 8	135 41 12	3	1.0	20	.50	700	N	N	N	15	150
SIC6329C	57 30 42	135 42 55	3	2.0	20	1.00	1,000	N	N	N	50	150
SIC6330C	57 30 37	135 42 37	3	2.0	20	>1.00	1,500	N	N	N	20	200
SIC6331C	57 31 46	135 41 36	3	2.0	20	1.00	1,000	N	N	N	15	200
SIC6332C	57 32 51	135 41 2	3	2.0	20	1.00	1,000	N	N	N	15	150
SIC6333C	57 33 29	135 40 48	3	2.0	20	1.00	1,000	N	N	N	200	1,000
SIC6341C	57 37 39	135 40 8	3	.7	20	.50	700	N	N	N	1,000	300
SIC7168C	57 44 35	136 8 58	5	1.0	10	>1.00	700	N	N	N	200	1,000
SIC7169C	57 44 19	136 4 5	5	1.0	10	.30	700	N	N	N	200	70
SIC7170C	57 43 29	136 4 38	5	3.0	10	.70	1,000	N	N	N	150	500
SIC7171C	57 42 47	136 6 58	5	5.0	10	.70	1,000	N	N	N	100	300
SIC7172C	57 43 2	136 7 3	3	3.0	7	.50	1,000	N	N	N	15	700
SIC7173C	57 42 19	136 5 36	3	1.0	15	.50	1,000	N	N	N	200	300
SIC7174C	57 43 9	136 9 53	5	3.0	5	.70	1,000	N	N	N	30	500
SIC7278C	57 39 25	136 2 27	3	2.0	10	.70	1,000	N	N	N	2,000	150
SIC7282C	57 39 19	136 6 21	5	2.0	10	.50	1,000	3.0	500	<10	100	200
SIC7285C	57 42 23	136 3 48	3	1.0	10	.20	700	N	N	N	100	200
SIC7286C	57 42 43	136 1 45	3	2.0	10	.50	700	N	N	N	1,000	300
SIC7287C	57 43 0	136 1 44	3	1.0	10	.20	700	N	N	N	500	150

Heavy-mineral panned-concentrate samples--continued

sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
SIC6248C	N	N	N	30	200	1,500	70	N	20	50	30	N
SIC6250C	1	N	N	15	100	500	N	N	N	20	10	N
SIC6251C	N	N	N	30	200	200	N	N	N	200	N	N
SIC6252C	N	N	N	20	200	100	N	N	N	100	N	N
SIC6253C	N	N	N	30	150	70	N	N	N	150	N	N
SIC6254C	N	N	N	20	200	300	N	N	N	100	<10	N
SIC6255C	N	N	N	15	100	70	N	N	N	100	N	N
SIC6256C	N	N	N	20	700	70	N	N	N	100	N	N
SIC6257C	N	N	N	30	150	100	N	N	N	100	<10	N
SIC6263C	N	N	N	50	200	50	30	N	N	50	10	N
SIC6264C	N	N	N	20	200	50	50	N	<20	20	10	N
SIC6271C	2	N	N	15	500	30	N	N	N	150	<10	N
SIC6272C	N	N	N	20	500	70	N	N	N	100	<10	N
SIC6273C	1	N	N	15	300	70	N	N	N	100	<10	N
SIC6274C	2	N	N	15	150	150	N	N	N	100	<10	N
SIC6275C	1	N	N	15	500	50	N	N	N	200	<10	N
SIC6290C	2	N	N	15	10	15	N	N	N	10	10	N
SIC6291C	1	N	N	15	50	30	N	N	N	20	10	N
SIC6292C	1	N	N	20	100	100	N	N	N	30	<10	N
SIC6293C	1	N	N	10	70	150	N	N	N	20	10	N
SIC6294C	1	N	N	50	70	150	N	N	N	30	10	N
SIC6297C	2	N	N	15	30	150	70	N	N	10	15	N
SIC6298C	1	N	N	30	30	100	50	N	N	20	15	N
SIC6299C	2	N	N	15	50	300	N	N	N	10	10	N
SIC6326C	1	N	N	15	70	70	20	N	N	20	10	N
SIC6327C	1	N	N	20	100	70	N	N	N	30	10	N
SIC6328C	1	N	N	15	70	70	20	N	N	30	10	N
SIC6329C	1	N	N	15	150	70	30	N	N	70	10	N
SIC6330C	2	N	N	15	100	50	50	N	N	50	15	N
SIC6331C	1	N	N	20	100	50	50	N	20	70	15	N
SIC6332C	1	N	N	15	150	50	20	N	N	70	15	N
SIC6333C	2	N	N	15	70	100	20	N	N	20	10	N
SIC6341C	N	N	N	15	70	70	50	N	N	10	10	N
SIC7168C	N	N	N	20	200	70	150	N	N	50	10	N
SIC7169C	N	N	N	30	200	300	N	N	N	70	<10	N
SIC7170C	N	N	N	30	500	70	20	N	N	150	10	N
SIC7171C	N	N	N	20	500	20	N	N	N	150	<10	N
SIC7172C	N	N	N	15	700	50	N	N	N	70	10	N
SIC7173C	1	N	N	15	150	100	20	N	N	30	10	N
SIC7174C	N	N	N	30	700	30	N	N	N	100	10	N
SIC7278C	2	N	N	15	200	200	N	N	N	70	<10	N
SIC7282C	N	N	N	15	300	1,500	20	N	N	70	<10	N
SIC7285C	2	N	N	15	50	70	N	N	N	20	10	N
SIC7286C	1	N	N	20	200	100	30	N	N	70	10	N
SIC7287C	2	N	N	15	50	30	N	N	N	10	10	N

Heavy-mineral panned-concentrate samples--continued

sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
SIC6248C	50	N	300	200	300	150	N	>1,000	N
SIC6250C	15	N	300	100	N	20	N	200	N
SIC6251C	15	N	300	200	N	15	N	200	N
SIC6252C	15	N	500	200	N	15	N	50	N
SIC6253C	15	N	300	200	N	15	N	200	N
SIC6254C	15	N	300	200	N	20	N	50	N
SIC6255C	15	N	300	200	N	20	N	200	N
SIC6256C	20	N	300	200	N	30	N	70	N
SIC6257C	20	N	500	200	N	20	N	500	N
SIC6263C	30	N	700	300	N	70	N	>1,000	N
SIC6264C	30	N	700	300	N	100	N	>1,000	N
SIC6271C	30	N	500	200	N	50	N	200	N
SIC6272C	30	N	300	300	N	50	N	200	N
SIC6273C	15	N	500	150	N	30	N	700	N
SIC6274C	15	N	500	300	N	20	N	700	N
SIC6275C	15	N	300	150	N	20	N	100	N
SIC6290C	10	N	1,000	150	N	30	N	150	N
SIC6291C	10	N	500	200	N	20	N	100	N
SIC6292C	15	N	300	150	N	30	N	>1,000	N
SIC6293C	10	N	500	150	N	15	N	100	N
SIC6294C	10	N	500	200	N	20	N	500	N
SIC6297C	10	N	700	150	N	30	N	200	N
SIC6298C	15	N	700	150	N	70	N	1,000	N
SIC6299C	15	N	1,000	300	N	50	N	200	N
SIC6326C	15	N	300	200	N	30	N	50	N
SIC6327C	15	N	300	300	N	20	N	150	N
SIC6328C	15	N	200	300	N	30	N	100	N
SIC6329C	15	N	300	300	N	50	N	70	N
SIC6330C	20	N	700	300	N	50	N	500	N
SIC6331C	20	N	700	300	N	50	N	200	N
SIC6332C	20	N	500	200	N	30	N	100	N
SIC6333C	20	N	300	200	N	50	N	1,000	N
SIC6341C	15	N	1,000	200	N	50	N	>1,000	100
SIC7168C	50	N	1,000	200	N	200	N	500	N
SIC7169C	20	N	300	300	N	20	N	100	N
SIC7170C	30	N	500	300	N	70	N	70	N
SIC7171C	30	N	500	300	N	70	N	300	N
SIC7172C	30	N	500	200	N	50	N	500	N
SIC7173C	20	N	1,000	200	N	100	N	>1,000	N
SIC7174C	50	N	500	300	N	50	N	100	N
SIC7278C	20	N	300	200	N	30	N	700	N
SIC7282C	30	N	500	200	N	50	N	500	N
SIC7285C	10	N	500	200	N	30	N	700	N
SIC7286C	15	N	500	200	N	70	N	1,000	N
SIC7287C	15	N	700	200	N	30	N	1,000	N

Heavy-mineral panned-concentrate samples--continued

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
SIC7288C	57 43 46	136 0 43	3	1.0	15	.30	700	N	N	N	200	150
SIC7289C	57 43 46	136 1 11	3	.7	15	.20	700	N	N	N	100	200
SIC7295C	57 41 9	136 1 12	3	3.0	10	>1.00	1,000	N	N	N	100	700
SIC7296C	57 41 31	136 0 31	5	5.0	7	.50	1,000	N	N	N	1,500	1,000
SIC7312C	57 41 10	136 6 13	20	.2	1	.30	200	50.0	10,000	100	70	200
SID6090C	57 49 49	135 59 39	3	2.0	20	.30	1,000	N	N	N	70	200
SID6091C	57 50 8	135 59 19	3	1.0	20	.30	700	N	N	N	100	150
SID6092C	57 48 51	135 56 44	3	.7	20	.15	700	N	N	N	20	700
SID6093C	57 48 17	135 55 9	3	1.0	20	.50	1,000	N	N	N	20	300
SID6094C	57 47 48	135 54 9	3	1.0	20	.70	1,000	N	N	N	70	300
SID6096C	57 46 59	135 50 42	3	2.0	20	.30	700	N	N	N	500	300
SID6097C	57 45 41	135 50 57	3	1.0	10	.20	700	N	N	N	100	150
SID6098C	57 46 14	135 54 29	3	1.0	20	.20	700	N	N	N	100	100
SID6099C	57 46 33	135 50 0	3	1.0	20	.50	700	N	N	N	50	70
SID6100B	57 45 17	135 46 46	3	1.0	20	.15	700	N	N	N	50	150
SID6100C	57 45 17	135 46 46	3	1.0	20	.50	700	N	N	N	50	500
SID6145C	57 46 27	135 56 39	3	1.0	15	.70	1,000	N	N	N	200	150
SID6146C	57 48 29	135 54 50	3	2.0	10	1.00	1,000	N	N	N	70	500
SID6147C	57 48 47	135 54 58	10	3.0	10	.70	1,000	1.0	N	N	300	>5,000
SID6149C	57 49 39	136 0 3	3	1.0	10	.15	1,000	N	N	N	10	200
SID7001C	57 57 3	136 15 2	3	.7	20	1.00	1,000	N	N	N	10	300
SID7002C	57 57 47	136 16 14	3	.7	20	>1.00	1,000	3.0	700	N	50	70
SID7003C	57 58 39	136 17 42	3	.7	20	1.00	1,000	N	N	N	20	300
SID7004C	57 58 50	136 18 34	3	1.0	20	.30	1,000	N	N	N	15	200
SID7005C	57 59 40	136 20 2	3	1.0	20	.50	1,000	N	N	N	15	50
SID7048C	57 55 16	136 17 13	5	.7	15	.70	1,000	N	N	N	20	70
SID7049C	57 55 3	136 18 14	5	.7	10	.50	1,000	N	N	N	15	200
SID7050C	57 54 31	136 18 17	5	1.0	10	.30	1,000	N	N	N	15	300
SID7051C	57 52 58	136 16 14	3	1.0	20	.50	1,000	N	N	N	10	300
SID7052C	57 53 11	136 15 54	3	.7	10	.70	700	N	N	N	20	300
SID7053C	57 52 50	136 17 28	3	1.0	5	.20	1,000	N	N	N	<10	300
SID7054C	57 52 10	136 14 43	3	.5	5	.50	1,000	N	N	N	20	700
SID7055C	57 52 15	136 14 18	3	.7	5	.70	1,000	N	N	N	15	200
SID7056C	57 52 34	136 11 48	2	.7	10	.70	700	N	N	N	20	100
SID7057C	57 53 56	136 15 55	3	.7	10	.70	700	N	N	N	20	500
SID7058C	57 54 10	136 15 56	3	.7	10	.70	700	N	N	N	15	100
SID7059C	57 54 19	136 13 25	3	.7	10	.20	1,000	N	N	N	15	20
SID7069C	57 48 8	136 18 15	3	2.0	10	1.00	1,000	N	N	N	20	500
SID7070C	57 48 23	136 19 16	3	1.0	10	.70	1,000	N	N	N	30	300
SID7071C	57 49 44	136 15 51	3	.7	10	>1.00	700	N	N	N	30	200
SID7072C	57 48 34	136 17 51	3	1.0	7	1.00	700	N	N	N	30	700
SID7073C	57 51 28	136 16 5	3	1.0	10	.70	1,000	N	N	N	70	200
SID7075C	57 57 3	136 17 22	3	.7	10	>1.00	700	N	N	N	15	70
SID7077C	57 54 21	136 10 23	3	1.0	10	.30	1,000	N	N	N	150	70
SID7078C	57 54 32	136 8 4	3	2.0	20	.30	700	N	N	N	150	300

Heavy-mineral panned-concentrate samples--continued

sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
SIC7288C	1	N	N	20	30	100	20	N	N	10	10	N
SIC7289C	1	N	N	15	20	50	N	N	N	10	10	N
SIC7295C	N	N	N	20	300	70	N	N	20	70	<10	N
SIC7296C	N	N	N	30	300	100	N	N	N	100	20	N
SIC7312C	N	N	N	50	70	700	200	N	N	200	200	N
SID6090C	1	N	N	15	70	20	20	N	N	15	<10	N
SID6091C	1	N	N	15	20	10	20	N	N	5	<10	N
SID6092C	1	N	N	10	10	50	100	N	N	5	10	N
SID6093C	1	N	N	10	20	50	50	N	N	5	15	N
SID6094C	1	N	N	10	30	15	70	N	N	5	15	N
SID6096C	1	N	N	15	70	20	20	N	N	20	<10	N
SID6097C	<1	N	N	15	70	30	50	N	N	5	10	N
SID6098C	1	N	N	15	70	50	N	N	N	20	10	N
SID6099C	<1	N	N	15	20	20	30	N	N	5	<10	N
SID6100B	<1	N	N	15	30	10	20	N	N	15	<10	N
SID6100C	<1	N	N	15	30	30	30	N	N	15	<10	N
SID6145C	1	N	N	15	100	50	20	N	N	30	10	N
SID6146C	1	N	N	10	50	50	70	N	<20	15	15	N
SID6147C	1	N	N	30	100	300	70	15	<20	30	15	N
SID6149C	1	N	N	10	10	30	N	N	N	15	<10	N
SID7001C	N	N	N	15	10	30	N	N	N	N	10	N
SID7002C	N	N	N	15	20	300	N	N	N	N	30	N
SID7003C	N	N	N	10	30	10	N	N	N	N	20	N
SID7004C	N	N	N	15	50	15	20	N	N	N	<10	N
SID7005C	N	N	N	15	30	20	N	N	N	10	<10	N
SID7048C	N	N	N	15	15	20	N	N	N	7	10	N
SID7049C	N	N	N	15	30	20	N	N	N	10	10	N
SID7050C	N	N	N	15	20	500	N	N	N	10	20	N
SID7051C	N	N	N	15	30	20	N	N	N	15	<10	N
SID7052C	N	N	N	15	30	30	N	N	N	15	10	N
SID7053C	1	N	N	15	30	30	N	N	N	15	<10	N
SID7054C	1	N	N	15	30	70	20	N	N	10	10	N
SID7055C	N	N	N	15	30	20	N	N	N	10	10	N
SID7056C	N	N	N	15	30	20	N	N	N	5	10	N
SID7057C	N	N	N	15	30	50	N	N	N	5	<10	N
SID7058C	N	N	N	15	20	20	N	N	N	5	10	N
SID7059C	N	N	N	15	10	30	N	N	N	<5	<10	N
SID7069C	N	N	N	15	200	30	20	N	20	30	15	N
SID7070C	N	N	N	15	150	15	200	N	N	20	10	N
SID7071C	N	N	N	15	70	70	N	N	N	10	10	N
SID7072C	N	N	N	15	200	50	70	N	20	50	15	N
SID7073C	N	N	N	15	50	30	20	N	N	15	10	N
SID7075C	N	N	N	15	30	70	20	N	N	10	15	N
SID7077C	N	N	N	15	10	50	N	N	N	5	<10	N
SID7078C	1	N	N	15	100	50	20	N	N	30	<10	N

Heavy-mineral panned-concentrate samples--continued

sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
SIC7288C	15	N	700	200	N	50	N	1,000	N
SIC7289C	15	N	1,000	100	N	30	N	1,000	N
SIC7295C	30	N	200	200	N	100	N	150	N
SIC7296C	20	N	200	150	N	30	N	100	N
SIC7312C	10	N	200	50	N	20	1,000	200	N
SID6090C	15	N	1,000	200	N	50	N	500	N
SID6091C	15	N	1,000	300	N	30	N	100	N
SID6092C	15	N	1,500	150	N	50	N	200	N
SID6093C	15	N	700	150	N	100	N	500	N
SID6094C	20	N	1,000	200	N	100	N	1,000	N
SID6096C	15	N	1,000	150	100	50	N	1,000	N
SID6097C	15	N	700	300	N	30	N	1,000	N
SID6098C	15	N	500	300	N	20	N	1,000	N
SID6099C	20	N	1,000	200	N	50	N	>1,000	N
SID6100B	15	N	700	150	N	15	N	500	N
SID6100C	20	N	700	300	N	30	N	>1,000	N
SID6145C	15	N	500	300	N	50	N	700	N
SID6146C	15	N	700	300	N	100	N	>1,000	N
SID6147C	15	N	1,000	150	N	30	N	1,000	N
SID6149C	15	N	1,000	200	N	20	N	500	N
SID7001C	20	N	700	200	N	30	N	500	N
SID7002C	20	200	700	200	100	15	N	700	N
SID7003C	20	N	1,000	200	N	30	N	700	N
SID7004C	15	N	1,000	100	N	20	N	700	N
SID7005C	15	N	700	200	N	15	N	10	N
SID7048C	20	N	1,000	300	N	20	N	200	N
SID7049C	30	N	700	200	N	50	N	200	N
SID7050C	20	N	500	200	N	50	N	70	N
SID7051C	20	N	700	100	N	30	N	300	N
SID7052C	20	N	1,000	200	N	50	N	1,000	N
SID7053C	15	N	500	100	N	30	N	70	N
SID7054C	15	N	500	100	N	50	N	200	N
SID7055C	20	N	1,000	200	N	30	N	1,000	N
SID7056C	20	N	700	100	N	30	N	700	N
SID7057C	20	N	1,000	200	N	30	N	700	N
SID7058C	20	N	1,000	200	N	30	N	150	N
SID7059C	15	N	1,500	200	N	10	N	500	N
SID7069C	50	N	1,000	300	N	70	N	500	N
SID7070C	30	N	1,000	200	N	70	N	1,000	N
SID7071C	30	N	1,000	200	N	30	N	1,000	N
SID7072C	50	N	700	200	N	70	N	500	N
SID7073C	20	N	300	100	N	50	N	100	N
SID7075C	20	20	700	200	200	15	N	200	N
SID7077C	20	N	700	300	N	10	N	10	N
SID7078C	20	N	500	300	N	50	N	>1,000	N

Heavy-mineral panned-concentrate samples--continued

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
SID7081C	57 47 34	136 1 12	3	1.0	20	.30	700	N	N	N	30	150
SID7082C	57 48 37	136 3 14	3	1.0	20	.50	700	N	N	N	200	100
SID7083C	57 49 56	136 4 47	3	.7	20	.30	1,000	N	N	N	200	150
SID7084C	57 51 48	136 6 18	3	.7	20	.50	1,000	N	N	N	150	150
SID7085C	57 51 36	136 3 59	3	2.0	20	.30	700	3.0	N	N	500	200
SID7086C	57 52 23	136 2 34	3	2.0	20	.30	700	N	N	N	500	200
SID7087C	57 50 38	136 3 21	3	.7	20	.70	700	N	N	N	20	2,000
SID7088C	57 50 53	136 1 53	3	3.0	20	.30	1,000	N	N	N	150	500
SID7089C	57 49 46	136 1 0	3	.7	20	.30	700	N	N	N	70	300
SID7115C	57 46 46	136 15 36	3	2.0	5	.70	1,000	N	N	N	20	200
SID7117C	57 48 0	136 13 59	3	.7	7	.30	1,000	N	N	N	20	200
SID7118C	57 48 59	136 13 24	3	.7	10	.50	1,000	N	N	N	50	200
SID7120C	57 48 51	136 12 8	3	.7	10	.70	1,000	N	N	N	20	150
SID7123C	57 49 11	136 7 45	3	.7	10	.50	1,000	N	N	N	500	100
SID7124C	57 49 12	136 7 4	3	.7	10	1.00	1,000	N	N	N	30	150
SID7125C	57 47 15	136 4 8	3	1.0	10	.50	1,000	N	N	N	500	700
SID7126C	57 51 12	136 13 56	3	.5	10	.70	700	.5	700	N	50	200
SID7127C	57 51 7	136 13 10	3	.7	10	.30	700	N	N	N	20	200
SID7129C	57 50 50	136 9 8	5	.7	10	.50	700	N	N	N	300	200
SID7130C	57 46 55	136 11 58	3	2.0	10	.70	1,500	N	N	N	100	700
SID7131C	57 47 14	136 12 21	3	1.0	10	.70	1,000	N	N	N	20	100
SID7132C	57 45 54	136 9 22	3	2.0	10	.70	1,000	N	N	N	50	300
SID7133C	57 46 6	136 9 35	15	2.0	3	1.00	500	N	N	N	100	500
SID7134C	57 45 11	136 7 38	10	3.0	10	1.00	1,000	N	N	N	300	1,000
SID7135C	57 45 22	136 7 44	5	.7	10	.70	1,000	N	N	N	200	300
SID7136C	57 46 57	136 13 50	5	1.0	10	1.00	1,000	N	N	N	20	500
SID7137C	57 46 24	136 14 39	5	.7	10	.70	1,500	N	N	N	50	200
SID7140C	57 45 18	136 3 41	5	.7	10	.30	700	N	N	N	10	200
SID7141C	57 45 31	136 3 47	5	1.0	10	>1.00	700	N	N	N	15	500
SID7142C	57 46 14	136 0 46	5	1.0	10	1.00	1,000	N	N	N	15	150
SID7143C	57 46 52	136 1 21	7	3.0	10	.50	1,500	N	N	N	100	150
SID7144C	57 47 2	136 1 5	7	2.0	10	.30	1,500	N	N	N	300	150
SID7370C	57 57 29	136 18 38	3	2.0	5	.70	700	7.0	300	50	70	100
SID8021C	57 59 30	136 27 22	3	1.0	10	.70	700	N	N	N	10	200
SID8022C	57 58 56	136 28 0	3	5.0	15	.20	700	N	N	N	10	50
SID8023C	57 58 52	136 29 37	3	2.0	10	.50	700	N	N	N	10	150
SID8024C	57 59 43	136 28 57	3	2.0	10	>1.00	700	N	N	N	30	150
SID8025B	57 59 8	136 24 38	3	1.0	15	.30	1,000	N	N	N	30	150
SID8025C	57 59 8	136 24 38	3	1.0	10	.50	1,000	N	N	N	30	150
SID8026C	57 58 58	136 24 36	3	2.0	10	.30	1,000	N	N	N	15	150
SID8028C	57 57 48	136 27 0	3	2.0	10	.50	1,000	N	N	N	10	150
SID8029C	57 56 22	136 28 35	3	2.0	10	1.00	1,000	N	N	N	<10	100
SID8031C	57 56 26	136 30 35	3	1.0	10	.20	700	N	N	N	<10	150
SID8032C	57 56 22	136 27 27	3	5.0	10	.50	1,000	N	N	N	30	100
SID8033C	57 56 31	136 25 23	3	2.0	10	.70	1,000	N	N	N	50	150

Heavy-mineral panned-concentrate samples--continued

sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
SID7081C	1	N	N	10	50	30	20	N	N	20	<10	N
SID7082C	<1	N	N	15	30	100	20	N	N	15	<10	N
SID7083C	<1	N	N	15	50	30	20	N	N	15	<10	N
SID7084C	1	N	N	10	50	50	20	N	N	7	10	N
SID7085C	1	N	N	20	100	30	20	N	N	30	<10	N
SID7086C	1	N	N	30	100	50	20	N	N	30	10	N
SID7087C	1	N	N	10	10	30	70	N	N	5	10	N
SID7088C	1	N	N	15	100	30	20	N	N	20	<10	N
SID7089C	<1	N	N	15	10	70	20	N	N	5	<10	N
SID7115C	N	N	N	15	300	50	N	N	N	30	10	N
SID7117C	N	N	N	15	150	20	N	N	N	20	10	N
SID7118C	N	N	N	10	20	20	N	N	N	20	10	N
SID7120C	N	N	N	15	50	30	N	N	N	20	20	N
SID7123C	1	N	N	15	20	30	N	N	N	15	10	N
SID7124C	N	N	N	10	30	20	70	N	N	10	10	N
SID7125C	N	N	N	15	70	50	20	N	N	20	10	N
SID7126C	N	N	N	10	30	50	20	N	N	20	10	N
SID7127C	N	N	N	10	30	10	20	N	N	20	20	N
SID7129C	1	N	N	30	20	70	20	N	N	15	10	N
SID7130C	N	N	N	20	200	50	20	N	N	50	10	N
SID7131C	N	N	N	20	70	30	20	N	N	20	<10	N
SID7132C	N	N	N	15	150	50	30	N	N	50	10	N
SID7133C	N	N	N	50	300	300	20	N	N	150	10	N
SID7134C	N	N	N	30	500	70	20	N	N	100	10	N
SID7135C	N	N	N	15	100	50	20	N	N	20	10	N
SID7136C	N	N	N	15	200	50	70	N	N	30	20	N
SID7137C	N	N	N	20	300	50	50	N	N	50	20	N
SID7140C	1	N	N	10	20	30	20	N	N	7	10	N
SID7141C	N	N	N	50	70	70	20	N	N	30	10	N
SID7142C	N	N	N	20	100	100	20	N	N	20	10	N
SID7143C	N	N	N	30	500	70	N	N	N	100	10	N
SID7144C	1	N	N	30	200	70	N	N	N	50	10	N
SID7370C	N	N	N	15	70	100	N	N	N	10	15	N
SID8021C	N	N	N	30	70	50	N	N	N	20	<10	N
SID8022C	N	N	N	30	2,000	50	70	N	N	100	<10	N
SID8023C	N	N	N	15	500	5	20	N	N	30	<10	N
SID8024C	N	N	N	15	200	15	N	N	N	20	10	N
SID8025B	N	N	N	15	100	20	N	N	N	20	10	N
SID8025C	N	N	N	15	100	20	N	N	N	20	10	N
SID8026C	N	N	N	20	700	30	N	N	N	100	10	N
SID8028C	N	N	N	15	300	30	N	N	N	70	10	N
SID8029C	N	N	N	15	500	30	30	N	N	70	10	N
SID8031C	N	N	N	15	150	15	N	N	N	20	10	N
SID8032C	N	N	N	20	500	20	50	N	N	100	<10	N
SID8033C	N	N	N	15	500	50	50	N	N	30	<10	N

Heavy-mineral panned-concentrate samples--continued

sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
SID7081C	20	N	700	300	N	30	N	1,000	N
SID7082C	20	N	500	300	N	50	N	>1,000	N
SID7083C	15	N	500	300	N	20	N	100	N
SID7084C	20	N	700	300	N	30	N	200	N
SID7085C	20	N	500	300	<50	30	N	70	N
SID7086C	20	N	500	200	N	30	N	150	N
SID7087C	15	N	1,500	200	N	20	N	500	N
SID7088C	20	N	1,500	200	N	30	N	200	N
SID7089C	20	N	1,500	300	N	20	N	700	N
SID7115C	50	N	500	200	N	70	N	100	N
SID7117C	30	N	700	300	N	70	N	200	N
SID7118C	15	N	700	200	70	50	N	700	N
SID7120C	15	N	700	200	N	50	N	150	N
SID7123C	15	N	700	200	N	50	N	200	N
SID7124C	15	N	1,500	200	N	50	N	>1,000	N
SID7125C	15	N	700	150	N	30	N	500	N
SID7126C	15	30	700	150	50	50	N	1,000	N
SID7127C	15	N	1,000	150	N	50	N	700	N
SID7129C	15	N	700	150	N	50	N	500	N
SID7130C	30	N	700	200	N	50	N	700	N
SID7131C	20	N	700	200	N	30	N	200	N
SID7132C	20	N	1,000	100	N	50	N	700	N
SID7133C	30	N	300	150	N	30	N	200	N
SID7134C	30	N	300	300	N	50	N	200	N
SID7135C	15	N	1,500	300	N	50	N	>1,000	N
SID7136C	70	N	1,000	700	N	70	N	500	N
SID7137C	70	N	700	500	N	100	N	200	N
SID7140C	10	N	1,000	150	N	50	N	500	N
SID7141C	20	N	500	300	N	70	200	1,000	N
SID7142C	30	N	700	300	N	70	N	>1,000	N
SID7143C	30	N	500	300	N	20	N	100	N
SID7144C	30	N	300	300	N	30	N	100	N
SID7370C	20	100	700	200	>10,000	30	N	700	N
SID8021C	20	N	1,000	150	N	30	N	100	N
SID8022C	70	N	200	300	N	50	N	200	N
SID8023C	20	N	700	150	N	50	N	>1,000	N
SID8024C	30	N	1,000	300	N	100	N	>1,000	N
SID8025B	20	N	700	200	N	30	N	100	N
SID8025C	20	N	700	300	N	30	N	200	N
SID8026C	30	N	700	200	N	50	N	500	N
SID8028C	20	N	1,000	200	N	50	N	500	N
SID8029C	30	N	1,000	200	N	70	N	1,000	N
SID8031C	15	N	1,000	100	N	20	N	200	N
SID8032C	50	N	700	200	N	50	N	1,000	N
SID8033C	30	N	1,000	300	N	50	N	>1,000	N

Heavy-mineral panned-concentrate samples--continued

sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
SID8035C	57 53 55	136 26 27	3	2.0	10	.70	1,000	N	N	N	70	200
SID8036C	57 53 38	136 27 48	3	5.0	10	.50	1,000	N	N	N	15	150
SID8041C	57 55 25	136 23 21	3	1.0	10	1.00	1,000	N	N	N	30	200
SID8042C	57 57 12	136 23 39	5	2.0	10	.70	1,000	N	N	N	50	200
SID8043C	57 59 12	136 22 51	5	2.0	15	.70	1,000	N	N	N	10	150
SID8044C	57 59 23	136 23 18	3	2.0	15	.30	1,000	N	N	N	10	150
SID8045C	57 58 21	136 22 14	3	1.0	10	.30	1,000	N	N	N	20	150
SID8046C	57 56 40	136 21 42	3	.7	10	.50	1,000	N	N	N	15	150
SID8047C	57 55 6	136 20 25	5	1.0	10	.50	1,000	N	N	N	15	500
SID8060C	57 52 41	136 20 58	3	1.0	7	.70	1,000	N	N	N	50	300
SID8061C	57 54 19	136 22 44	3	.7	7	.50	1,000	N	N	N	30	300
SID8062C	57 50 4	136 23 45	2	1.0	5	.15	700	N	N	N	30	500
SID8063C	57 50 49	136 22 15	3	2.0	10	.30	1,000	N	N	N	20	200
SID8064C	57 50 57	136 22 32	2	1.0	10	.30	700	N	N	N	10	200
SID8065C	57 51 42	136 20 37	3	3.0	10	.30	1,000	N	N	N	10	200
SID8066C	57 52 9	136 20 27	3	3.0	10	.70	1,000	N	N	N	15	150
SID8068C	57 48 30	136 20 23	2	.7	5	.50	700	N	N	N	20	700

Heavy-mineral panned-concentrate samples--continued

sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
SID8035C	N	N	N	15	500	20	50	N	N	50	N	N
SID8036C	N	N	N	20	500	15	50	N	N	70	10	N
SID8041C	N	N	N	15	100	15	100	N	N	10	10	N
SID8042C	N	N	N	15	200	100	50	N	N	50	10	N
SID8043C	N	N	N	15	500	50	20	N	N	70	10	N
SID8044C	N	N	N	15	300	30	N	N	N	50	10	N
SID8045C	N	N	N	15	30	30	N	N	N	10	<10	N
SID8046C	N	N	N	15	10	20	N	N	N	10	10	N
SID8047C	N	N	N	15	50	50	50	N	N	10	10	N
SID8060C	N	N	N	15	150	30	30	N	N	30	10	N
SID8061C	N	N	N	15	100	30	20	N	N	30	10	N
SID8062C	1	N	N	15	100	10	N	N	N	20	10	N
SID8063C	1	N	N	30	200	30	N	N	N	70	10	N
SID8064C	N	N	N	15	100	15	N	N	N	30	10	N
SID8065C	15	N	N	20	100	200	200	N	N	30	10	N
SID8066C	N	N	N	20	300	70	N	N	N	70	<10	N
SID8068C	1	N	N	15	100	5	N	N	N	15	10	N