

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Spectrographic Analyses and Statistical Summaries
of Nonmagnetic-heavy-mineral-concentrate Samples
from North-central New Hampshire

By

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Open-File Report 82-886

1982

This report is preliminary and has not been reviewed for
conformity with U.S. Geological Survey editorial standards.

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INTRODUCTION

This report presents a listing of analytical results and statistical percentile rankings from the semiquantitative spectrographic analyses of 569 concentrated stream-sediment samples collected in 1980 in north-central New Hampshire. The samples were collected as one of several multidisciplinary studies associated with the Conterminous United States Mineral Appraisal Program (CUSMAP) conducted in the Sherbrooke and Lewiston 1° x 2° quadrangles, and also in conjunction with mineral appraisal studies of the proposed wilderness areas in the White Mountain National Forest designated by the Forest Service in its Second Roadless Area Review and Evaluation (RARE II) in January 1979. The sampling program was done in cooperation with the Office of the State Geologist of New Hampshire. The samples were collected by Frank Howd, Gary Nowlan, and Patricia Hall-Santala of the U.S. Geological Survey; and Wendy Gerstel, Scott Rose, Russell Payne, Miguel Powers, Rick Charman, Glenn Daukas, Andrew Sprecker, and Leslie Subak, of the Office of the State Geologist, New Hampshire.

SAMPLE COLLECTION

The locations of the samples listed in this report are shown in figure 1 which shows the general distribution and density of the sample pattern. All the sample sites south of latitude 44°0'0" N., which is the southern boundary of the Sherbrooke-Lewiston CUSMAP project, were sampled for the RARE II studies. Between latitudes 44°0'0" N. and 44°30'0" N. sampling was primarily for the Sherbrooke-Lewiston CUSMAP project, but the data from these samples also serve the requirements of the RARE II program. North of latitude 44°30'0" N. only limited coverage is shown; additional sampling was conducted in this area in 1981 in conjunction with the CUSMAP studies; but the analytical data are not yet available.

The samples were collected, whenever possible, from first- and second-order streams. Each sample consisted of approximately 20 lbs (9 kg) of active sediment which was a composite of sediment collected from stream sites favorable for the concentration of heavy minerals.

The nonmagnetic-heavy-mineral-concentrate samples provide information about the metals in a limited number of minerals present in stream sediments derived from the drainage basin upstream from each sample site. The selective concentration of ore-related minerals permits determination of some elements that are not easily detected in unconcentrated sediment samples. The analytical composition of a concentrate may also indicate specific minerals. For example, the tin content in an unconcentrated sediment sample is predominantly the sum of tin in the minerals cassiterite plus tin substituted in such common rock-forming minerals as micas, feldspars, sphene, magnetite, and other less common minerals; whereas the tin in the nonmagnetic concentrate sample is essentially in cassiterite.

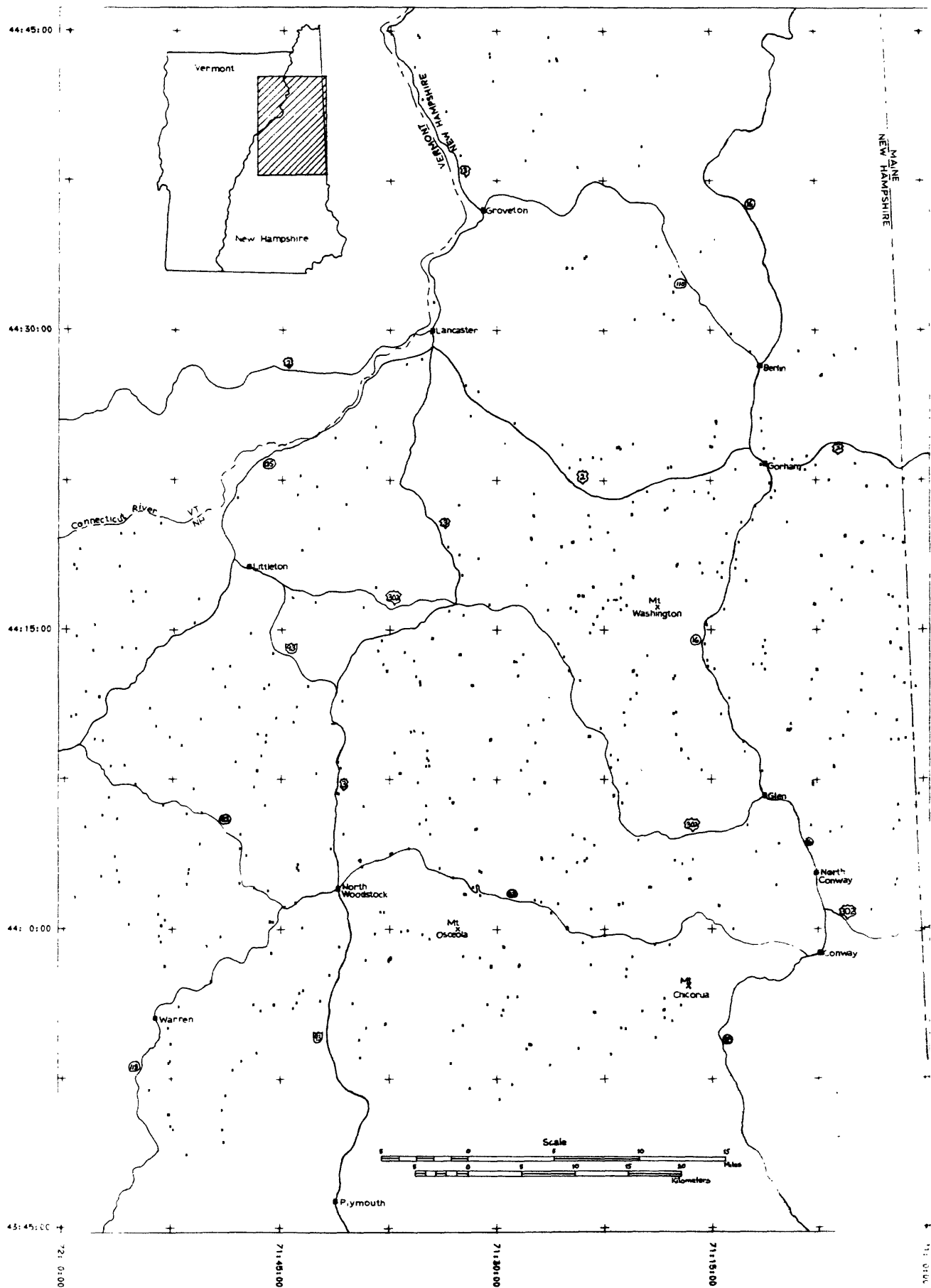


Fig. 1.--Map of north-central New Hampshire showing sites of heavy-mineral concentrates from stream sediments.

SAMPLE PREPARATION

At the sample collection site the sediments were concentrated by panning, removing most of the quartz, feldspar, organic material and clay-sized materials. Subsequently the samples were air dried and sieved to minus 25-mesh (0.71 mm). The coarse material was discarded. The heavy minerals were further concentrated by heavy liquid and magnetic separations. Magnetite was removed with a hand magnet. Minerals lighter than 2.86 s.g., mainly quartz and feldspar, were removed by separation with bromoform. Ferro-magnesian silicates and other slightly magnetic minerals, were removed by separation with a Frantz Isodynamic Separator¹ set at 0.6 amperes with a 15° side and forward slope. The resultant nonmagnetic sample concentrate usually consists of light-colored rock accessory minerals, such as zircon, and primary and secondary ore minerals. Geochemical anomalies in this fraction are generally a reflection of the presence of ore minerals.

Throughout the sample preparation procedure and prior to analysis; the samples were randomized. The purpose of randomizing was to eliminate analytical bias resulting from the sequential handling of similar material and to detect any contaminants introduced during sample preparation.

SEMIQUANTITATIVE SPECTROGRAPHIC ANALYSIS

The samples of the nonmagnetic-heavy-mineral-sediment concentrate were analyzed semiquantitatively for 31 elements using an optical emission spectrograph, according to the method outlined by Grimes and Marranzino (1968). The semiquantitative spectrographic values are reported as the approximate geometric midpoints: 10, 7, 5, 3, 2, 1.5 (or appropriate powers of ten), of ranges whose respective boundaries are: 12, 8.3, 5.6, 3.8, 2.2, 1.8, and 1.2 (or appropriate multiples of ten).

The precision of the spectrographic data is controlled to some degree by the overall composition of the samples. Thus, in surveys covering differing geologic terranes, the precision can vary somewhat in a given data set. In general, however, the precision of the method is plus or minus one reporting interval of the value given 83 percent of the time, and within two reporting intervals 96 percent of the time (Motooka and Grimes, 1976).

The lower limits of determination for the 31 elements determined in the heavy-mineral concentrates are listed in table 1.

¹ The use of trade names in this report is for descriptive purposes only and does not imply endorsement by the U.S. Geological Survey.

Table 1.--Lower limits of determination for semiquantitative spectrographic analysis of nonmagnetic heavy-mineral concentrates¹

Element	Percent	ppm	Element	Percent	ppm
Calcium	0.1	--	Magnesium	0.05	--
Iron	0.1	--	Titanium	0.005	--
Antimony	--	200	Molybdenum	--	10
Arsenic	--	500	Nickel	--	10
Barium	--	50	Niobium	--	50
Beryllium	--	2	Scandium	--	10
Bismuth	--	20	Silver	--	1
Boron	--	20	Strontium	--	200
Cadmium	--	50	Thorium	--	200
Chromium	--	20	Tin	--	20
Cobalt	--	10	Tungsten	--	100
Copper	--	10	Vanadium	--	20
Gold	--	20	Yttrium	--	20
Lanthanum	--	50	Zinc	--	500
Lead	--	20	Zirconium	--	20
Manganese	--	20			

¹The limits of determination are double those listed in Grimes and Marranzino (1968), because the spectrographic procedure was altered to accommodate for spectrographic interferences which commonly occur in samples of heavy minerals.

DESCRIPTION OF TABLES

Tables 2 and 3 list the chemical spectrographic analyses for the nonmagnetic-heavy-mineral-concentrate samples and the percentile ranking of element concentrations, respectively. The data in table 2 are arranged so that column 1 contains the assigned field number, columns 2 and 3 detail the respective latitudes (north) and longitudes (west) for the sample sites in degrees, minutes, and seconds. For reader convenience, the samples are listed in order of increasing latitudes. The remaining columns contain the concentrations for the designated elements. Deleted from table 2 are the elements antimony, cadmium, gold, silver, and zirconium. Cadmium was not detected in any sample. Zirconium, due to the almost ubiquitous presence of zircon in the nonmagnetic concentrate, was most commonly determined to be greater than 2000 ppm, its upper limit of determination. Antimony, gold, and silver were rarely detected; where their presence was determined the respective concentrations are noted in footnotes.

Table 2.--Results of spectrographic analyses of nonmagnetic-heavy-mineral-concentrate samples from north-central New Hampshire. [Symbols used, N, not detected; <, less than, detected but below limit of determination shown; >, determined to be greater than the value shown. Except where noted values are in ppm.]

Sample	Latitude	Longitude	Fe%	Mg%	Ca%	Ti%	Mn	As	B	Ba	Sr	Co	Ni	Cr
SH03126A	43 48 43	71 51 23	1.50	1.00	10.00	2.0	1,000	N	300	500	300	N	N	150
SH03131A	43 49 21	71 48 52	2.00	.70	5.00	>2.0	700	N	2,000	300	200	N	N	200
SH03132A	43 49 59	71 48 57	2.00	1.00	3.00	1.5	1,000	N	3,000	700	200	15	30	300
SH03124A	43 49 59	71 52 20	3.00	.50	20.00	>2.0	1,500	<500	300	300	200	70	70	100
SH03123A	43 50 8	71 52 31	2.00	1.00	15.00	>2.0	1,000	N	1,000	300	500	N	N	150
SH03122A	43 50 44	71 52 38	20.00	.50	15.00	>2.0	700	1,000	50	100	200	300	100	50
SH03121A	43 50 44	71 52 42	10.00	1.00	15.00	>2.0	1,000	N	1,500	500	500	70	20	150
SH03134A	43 50 58	71 49 0	1.50	.50	10.00	>2.0	1,500	N	2,000	700	200	10	10	200
SH04726A	43 51 30	71 29 49	2.00	5.00	15.00	>2.0	5,000	N	1,500	300	N	15	N	200
SH03139A	43 51 42	71 48 45	3.00	1.00	2.00	2.0	1,000	N	2,000	500	N	15	30	300
SH03118A	43 51 55	71 54 1	1.50	.70	30.00	>2.0	1,000	N	1,000	300	300	10	N	100
SH03150A	43 52 3	71 31 54	1.50	.50	10.00	>2.0	1,000	N	300	300	N	10	N	300
SH04741A	43 52 15	71 28 57	5.00	2.00	5.00	>2.0	10,000	N	3,000	700	N	15	N	200
SH03434A	43 52 58	71 48 16	2.00	.20	15.00	>2.0	1,500	N	150	500	<200	<10	10	150
SH04735A	43 53 13	71 26 18	1.00	.30	7.00	>2.0	1,000	N	1,000	700	200	N	N	300
SH03510A	43 53 16	71 52 42	1.00	.70	30.00	>2.0	1,500	N	500	700	200	N	N	70
SH03156A	43 53 18	71 33 14	3.00	.50	3.00	>2.0	700	N	150	500	N	20	N	200
SH03509A	43 53 23	71 52 35	3.00	1.00	20.00	>2.0	2,000	N	1,500	700	300	N	N	100
SH03435A	43 53 25	71 47 40	1.50	.50	20.00	>2.0	1,000	N	300	300	200	50	15	100
SH03466A	43 53 35	71 39 30	1.50	.50	10.00	>2.0	1,500	N	700	500	200	N	N	200
SH04186A	43 53 45	71 22 3	1.00	.30	10.00	>2.0	1,000	N	150	500	200	10	N	200
SH03438A	43 53 49	71 46 37	3.00	1.00	5.00	2.0	1,000	N	500	700	<200	15	20	300
SH04710A	43 54 1	71 27 56	1.50	.50	2.00	>2.0	1,000	500	100	700	N	70	70	300
SH03177A	43 54 2	71 24 19	1.50	.20	20.00	>2.0	1,500	N	300	500	500	N	N	150
SH04711A	43 54 14	71 27 37	2.00	.70	7.00	2.0	1,500	N	150	700	200	N	N	300
SH03513A	43 54 14	71 52 33	5.00	1.00	15.00	>2.0	1,000	N	1,000	500	200	100	N	100
SH04712A	43 54 15	71 27 45	1.00	.15	20.00	>2.0	1,000	N	70	200	N	10	N	200
SH03514A	43 54 15	71 52 33	1.00	.70	50.00	>2.0	1,500	N	700	700	200	N	N	100
SH03472A	43 54 28	71 39 34	2.00	1.00	10.00	2.0	1,500	N	1,000	700	200	N	N	300
SH04126A	43 54 35	71 18 56	.70	.15	3.00	>2.0	700	N	200	300	N	N	N	100
SH03551A	43 54 56	71 33 4	1.50	.20	7.00	>2.0	1,500	N	200	200	<200	<10	N	300
SH04396A	43 55 2	71 21 2	.70	.05	.50	>2.0	700	N	70	100	N	N	N	N
SH03515A	43 55 2	71 52 45	20.00	1.00	15.00	>2.0	1,500	N	1,000	300	300	150	50	150
SH03470A	43 55 3	71 39 6	1.00	.70	7.00	>2.0	2,000	N	2,000	500	300	N	N	300
SH04397A	43 55 4	71 21 21	1.00	.05	.50	2.0	700	N	N	150	N	N	N	N
SH03550A	43 55 12	71 32 23	.70	.15	1.00	2.0	1,000	N	70	100	N	N	N	100
SH0467A	43 55 15	71 37 47	1.50	.50	10.00	>2.0	1,500	N	300	500	N	N	N	300
SH03468A	43 55 17	71 37 44	1.00	.20	10.00	>2.0	1,000	N	150	500	N	N	N	200
SH04120A	43 55 25	71 17 46	.70	.07	.70	2.0	1,000	N	N	100	N	N	N	50
SH04389A	43 55 34	71 18 19	.50	<.05	1.00	1.5	500	N	N	N	N	N	N	N
SH03203A	43 55 41	71 29 41	1.00	.10	5.00	>2.0	700	N	200	200	N	N	N	100
SH04134A	43 55 50	71 23 9	.50	.05	1.00	>2.0	500	N	N	150	N	N	N	20
SH04135A	43 55 51	71 23 14	.30	.05	1.00	1.5	300	N	N	200	N	N	N	N
SH04393A	43 55 54	71 19 52	1.00	<.05	.30	2.0	700	N	N	200	N	15	N	N
SH03446A	43 55 55	71 46 21	3.00	.70	5.00	2.0	1,000	N	700	700	N	10	20	500

see footnotes at end of table.

Table 2 cont.

Sample	W	Sc	Th	Be	Nb	La	Y	Bi	Cu	Pb	Zn	Mo	Sc	V
SH03126A	<100	N	N	15	N	100	200	N	N	N	N	N	N	300
SH03131A	500	N	N	100	150	150	200	N	<10	20	N	N	N	300
SH03132A	N	N	N	500	N	100	150	N	N	30	N	N	N	300
SH03124A	150	100	N	30	100	150	700	N	15	50	N	N	N	200
SH03123A	300	100	N	15	150	200	200	N	<10	20	N	N	N	150
SH03122A	200	N	N	3	N	100	300	N	50	70	N	N	N	150
SH03121A	N	N	N	20	70	200	200	N	300	30	N	N	N	200
SH03134A	1,000	50	N	10	200	300	300	N	10	100	N	50	N	200
SH04726A	700	2,000	300	20	300	1,000	300	N	N	30	N	N	70	300
SH03139A	N	N	N	15	70	100	150	N	N	30	N	N	N	300
SH03118A	300	20	N	2	100	150	500	N	N	30	N	N	N	200
SH03150A	<100	>2,000	300	150	300	200	300	N	10	50	N	10	N	300
SH04741A	500	1,000	1,000	5	300	>2,000	500	N	50	70	N	N	30	300
SH03434A	200	150	N	15	200	300	500	N	<10	70	N	N	20	300
SH04735A	100	1,500	N	10	200	1,500	300	N	10	50	N	N	N	300
SH03510A	200	70	N	3	100	150	500	N	10	20	N	<10	20	200
SH03156A	N	>2,000	1,000	10	500	300	200	N	20	100	500	30	N	300
SH03509A	500	200	N	5	100	300	500	N	<10	20	N	10	30	300
SH03435A	N	50	N	3	70	100	150	N	70	30	N	N	30	300
SH03466A	N	100	N	200	200	500	300	N	10	50	N	N	N	300
SH04186A	N	>2,000	500	10	200	700	500	N	N	50	N	N	20	200
SH03438A	N	200	N	10	N	100	200	N	30	30	N	N	N	300
SH04710A	700	100	N	100	100	300	150	30	N	70	N	N	N	300
SH03177A	N	300	N	7	150	500	700	N	10	30	N	N	N	300
SH04711A	500	>2,000	<200	10	150	700	300	N	70	70	N	150	N	300
SH03513A	1/1,500	700	N	5	150	200	500	N	700	300	N	50	N	200
SH04712A	300	>2,000	1,000	150	200	1,500	700	N	50	70	N	N	N	200
SH03514A	<100	70	N	7	150	300	700	N	<10	30	N	10	N	200
SH03472A	N	100	N	50	100	300	300	N	15	70	N	N	N	300
SH04126A	N	>2,000	500	100	100	500	1,500	N	150	5,000	N	N	30	200
SH03551A	N	1,000	200	300	200	500	500	N	<10	70	N	N	N	200
SH04396A	N	2,000	1,000	150	150	>2,000	1,000	N	N	70	N	N	N	20
SH03515A	N	50	N	5	100	500	500	N	200	70	N	N	30	300
SH03470A	N	1,000	N	20	200	700	500	N	N	50	N	N	15	300
SH04397A	N	2,000	2,000	10	300	2,000	2,000	N	N	100	N	N	N	20
SH03550A	N	>2,000	200	70	200	200	200	N	N	20	N	N	N	150
SH03467A	N	20	N	700	150	500	300	N	15	50	N	N	N	300
SH03468A	N	50	N	50	150	200	300	N	10	30	N	N	N	500
SH04120A	300	>2,000	1,000	100	300	300	700	N	<10	50	N	N	N	100
SH04389A	N	>2,000	1,000	200	700	1,000	1,000	N	N	100	N	N	N	N
SH03203A	<100	>2,000	500	15	200	500	500	N	N	50	N	15	N	300
SH04134A	N	50	N	2	50	500	1,000	N	N	30	N	N	70	N
SH04135A	N	200	N	5	N	500	1,500	N	N	20	N	N	50	N
SH04393A	N	>2,000	2,000	300	1,000	>2,000	2,000	N	<10	200	N	N	10	100
SH03446A	N	N	N	10	<50	150	200	N	10	20	N	N	10	700

See footnotes at end of table.

Table 2 cont.

Sample	Latitude	Longitude	Fe%	Mg%	Ca%	Ti%	Mn	As	B	Ba	Sr	Co	Ni	Cr
SH04382A	43 55 57	71 18 23	.70	.05	.30	1.5	700	N	150	70	N	10	N	N
SH03202A	43 55 57	71 29 34	2.00	.50	5.00	>2.0	1,500	N	100	300	N	10	N	100
SH04381A	43 55 58	71 18 18	.50	.05	.50	1.5	500	N	N	70	N	N	N	20
SH03452A	43 56 3	71 44 8	2.00	1.00	3.00	2.0	1,000	N	2,000	500	N	N	N	200
SH03517A	43 56 6	71 52 0	1.50	.50	30.00	>2.0	1,500	N	700	500	200	N	N	100
SH04123A	43 56 12	71 17 10	1.00	.07	.50	1.0	700	N	150	50	N	N	N	N
SH03449A	43 56 12	71 45 29	1.00	.50	2.00	1.0	700	N	2,000	300	N	N	10	300
SH03548A	43 56 14	71 30 40	2.00	.30	10.00	>2.0	2,000	N	100	200	N	10	N	200
SH03450A	43 56 14	71 45 26	1.00	2.00	3.00	1.5	1,000	N	200	200	N	N	N	200
SH03444A	43 56 14	71 46 51	1.50	.20	20.00	>2.0	1,000	N	200	200	N	10	N	200
SH03473A	43 56 18	71 40 2	2.00	1.00	15.00	>2.0	3,000	N	2,000	300	500	N	N	300
SH03453A	43 56 19	71 43 54	2.00	.20	3.00	>2.0	1,000	N	1,000	500	N	N	N	200
SH03458A	43 56 24	71 42 16	2.00	.30	10.00	1.5	1,000	N	200	500	N	20	70	200
SH04384A	43 56 32	71 18 18	.50	<.05	.20	.7	500	N	N	N	N	N	N	N
SH03211A	43 56 36	71 29 14	.70	1.00	3.00	>2.0	1,000	N	50	200	<200	N	N	150
SH03208A	43 56 37	71 28 34	2.00	.15	15.00	>2.0	1,000	N	100	300	500	15	N	100
SH03456A	43 56 48	71 43 43	1.50	.50	10.00	>2.0	1,500	N	1,000	700	N	N	N	200
SH03457A	43 56 57	71 43 26	.70	3.00	30.00	>2.0	2,000	N	70	200	200	N	N	100
SH03519A	43 57 22	71 49 48	1.50	.70	10.00	>2.0	1,000	N	1,000	700	N	<10	N	200
SH03518A	43 57 24	71 49 47	3.00	1.00	15.00	>2.0	2,000	N	1,000	700	<200	10	15	200
SH04810A	43 57 39	71 21 0	.50	.10	.50	2.0	700	N	N	100	N	N	N	100
SH03462A	43 57 43	71 41 38	2.00	.50	15.00	>2.0	3,000	N	1,000	300	200	<10	N	150
SH04812A	43 58 2	71 20 57	2.00	.20	2.00	>2.0	1,500	N	N	500	N	N	N	150
SH03546A	43 58 7	71 30 24	1.00	.50	50.00	>2.0	2,000	N	50	150	300	N	N	50
SH03504A	43 58 8	71 52 58	.70	.30	15.00	>2.0	2,000	N	300	700	N	10	N	70
SH03503A	43 58 8	71 53 0	2.00	1.50	15.00	>2.0	1,500	N	700	1,000	300	N	N	150
SH03192A	43 58 10	71 23 29	.50	.15	30.00	1.0	1,000	N	N	200	700	N	N	N
SH03170A	43 58 14	71 23 27	1.00	.07	2.00	1.0	1,000	N	N	150	N	N	N	N
SH03187A	43 58 15	71 28 26	1.00	.50	20.00	>2.0	1,000	N	N	300	500	N	N	N
SH03480A	43 58 28	71 39 7	1.50	1.00	5.00	1.5	2,000	N	1,000	700	N	<10	15	300
SH03543A	43 58 35	71 31 11	.70	.10	10.00	>2.0	2,000	N	100	300	N	N	N	70
SH04815A	43 58 39	71 20 33	1.00	.05	2.00	1.5	700	N	50	150	N	N	N	N
SH03541A	43 58 40	71 32 22	2.00	.10	1.00	>2.0	1,500	N	100	150	N	20	N	150
SH03527A	43 58 49	71 45 40	1.00	.50	15.00	>2.0	1,000	N	2,000	700	200	N	N	150
SH03528A	43 58 51	71 45 38	2.00	.70	5.00	>2.0	1,000	N	300	700	N	N	15	200
SH03198A	43 59 7	71 29 30	2.00	.15	3.00	>2.0	2,000	N	700	300	<200	N	N	100
SH03491A	43 59 8	71 40 58	1.50	.70	15.00	>2.0	2,000	N	1,500	500	500	N	N	200
SH03197A	43 59 9	71 29 34	1.00	.20	7.00	2.0	700	N	100	500	N	N	N	100
SH03751A	43 59 10	71 50 6	3.00	1.50	5.00	>2.0	1,500	500	>5,000	300	N	100	30	200
SH04108A	43 59 15	71 17 56	.30	N	.20	1.5	300	N	N	N	N	N	N	N
SH03599A	43 59 16	71 18 58	1.00	.10	2.00	1.5	700	N	N	70	N	N	N	N
SH03567A	43 59 21	71 24 0	.70	.15	30.00	2.0	1,500	N	N	70	200	N	N	20
SH03501A	43 59 22	71 53 15	1.50	1.00	20.00	>2.0	1,500	N	700	1,000	500	N	N	100
SH03540A	43 59 33	71 34 42	1.50	.20	5.00	>2.0	2,000	N	700	500	N	N	N	200
SH03757A	43 59 39	71 49 8	.70	.30	1.00	1.0	500	N	1,500	300	N	N	N	150

See footnotes at end of table.

Table 2 cont.

Sample	W	Sn	Th	Be	Vb	La	Y	Bi	Cu	Pb	Zn	Mo	Sc	V
SH04382A	N	>2,000	1,000	50	700	1,000	1,000	N	N	150	N	N	N	N
SH03202A	N	>2,000	2,000	1,500	500	700	700	N	10	50	1,000	N	N	150
SH04381A	N	>2,000	1,000	20	300	500	500	N	10	70	N	N	20	N
SH03452A	N	100	N	20	50	300	150	N	N	50	N	N	N	300
SH03517A	100	100	N	2	200	300	500	N	10	20	N	N	N	300
SH04123A	N	>2,000	700	70	500	2,000	300	N	N	70	N	N	N	N
SH03449A	N	200	N	15	N	70	500	N	N	70	N	N	N	300
SH03548A	N	>2,000	2,000	15	500	>2,000	1,000	N	10	200	N	10	N	150
SH03450A	N	200	N	15	N	N	300	N	N	N	N	N	N	200
SH03444A	N	20	N	10	<50	100	200	N	<10	N	N	N	N	300
SH03473A	N	150	N	70	200	700	500	N	10	70	N	N	15	300
SH03453A	N	200	N	7	50	50	300	N	30	20	N	N	N	300
SH03458A	N	300	N	15	N	70	200	N	1,000	N	N	N	N	300
SH04384A	N	>2,000	1,500	100	300	100	1,000	N	<10	70	N	N	N	N
SH03211A	N	>2,000	2,000	50	70	300	1,000	N	N	500	N	200	15	200
SH03208A	N	>2,000	1,000	200	200	1,000	700	1,000	10	200	N	N	N	100
SH03456A	N	500	N	>2,000	100	100	200	N	10	30	N	N	N	200
SH03457A	100	2,000	N	500	100	200	500	N	N	3,000	N	N	N	200
SH03519A	N	200	300	15	100	150	200	N	10	30	N	N	20	300
SH03518A	N	>2,000	N	150	150	500	500	N	20	200	<500	N	30	300
SH04810A	100	2,000	700	200	150	2,000	300	N	10	30	N	N	N	N
SH03462A	N	100	N	50	150	300	500	N	70	50	N	N	N	200
SH04812A	N	50	500	150	200	2,000	1,000	N	10	70	N	10	30	100
SH03546A	N	200	N	7	150	2,000	1,000	N	N	50	N	N	N	100
SH03504A	1,000	200	N	2	200	200	500	N	N	50	N	30	N	200
SH03503A	300	N	N	10	150	100	500	N	10	50	N	N	N	500
SH03192A	N	500	N	20	N	1,500	1,000	N	N	20	N	N	N	30
SH03170A	N	200	1,000	<2	100	>2,000	2,000	N	N	30	N	N	N	50
SH03187A	N	>2,000	N	7	100	1,000	700	200	N	100	N	N	N	70
SH03480A	N	150	N	20	200	200	300	N	50	30	N	N	N	500
SH03543A	N	1,500	500	150	300	2,000	1,000	N	N	100	N	N	N	100
SH04815A	N	>2,000	200	150	200	500	500	N	N	30	N	N	N	N
SH03541A	N	2,000	200	70	150	500	1,500	N	<10	200	N	20	N	100
SH03527A	N	1,000	N	20	150	300	1,000	N	<10	20	N	N	N	200
SH03528A	N	50	N	10	70	100	150	N	20	500	N	N	N	300
SH03198A	N	>2,000	2,000	10	300	>2,000	2,000	N	<10	100	N	N	N	70
SH03491A	N	500	N	200	150	300	500	N	700	70	N	N	N	300
SH03197A	N	>2,000	1,000	200	200	1,500	1,500	20	<10	100	N	N	N	100
SH03751A	200	700	N	10	150	500	300	N	20	30	1,500	N	N	300
SH04108A	150	>2,000	1,000	3	500	500	300	N	N	N	N	N	N	N
SH03599A	N	>2,000	700	50	200	500	1,000	N	N	50	N	N	N	30
SH03567A	N	500	200	150	70	2,000	1,000	N	N	50	N	N	N	N
SH03501A	N	N	N	7	100	300	500	N	<10	30	N	N	N	300
SH03540A	N	150	N	30	300	200	700	N	N	50	N	N	N	300
SH03757A	100	20	N	15	N	70	50	30	20	20	N	N	N	100

See footnotes at end of table.

Table 2 cont.

Sample	Latitude	Longitude	Fe%	Mg%	Ca%	Ti%	Mn	As	B	Ba	Sr	Co	Ni	Cr
SH03500A	43 59 40	71 53 24	7.00	1.50	15.00	>2.0	2,000	N	2,000	500	500	100	30	150
SH03175A	43 59 42	71 22 29	.70	.10	.70	1.0	700	N	N	150	N	N	N	50
SH03539A	43 59 45	71 35 12	1.00	.20	2.00	>2.0	700	N	150	500	N	N	N	300
SH03534A	43 59 47	71 38 29	2.00	.50	2.00	>2.0	1,000	N	700	500	N	<10	N	500
SH03536A	43 59 54	71 36 41	3.00	.70	3.00	>2.0	1,500	N	700	500	200	<10	10	300
SH03537A	43 59 57	71 36 13	1.50	.50	2.00	>2.0	1,000	N	200	500	N	N	N	500
SH03853A	44 0 2	71 13 30	2.00	.20	.70	>2.0	1,000	N	300	500	N	<10	N	150
SH03561A	44 0 3	71 25 4	2.00	.15	3.00	>2.0	1,000	N	N	200	N	N	N	100
SH03560A	44 0 4	71 25 8	2.00	.30	15.00	>2.0	1,000	N	100	150	200	N	20	20
SH03311A	44 0 6	71 43 31	.70	.15	2.00	>2.0	700	N	200	200	N	N	N	100
SH03559A	44 0 8	71 25 6	1.00	.50	7.00	>2.0	1,500	N	N	200	N	N	N	150
SH03425A	44 0 11	71 53 13	1.00	.70	7.00	>2.0	700	N	200	500	300	<10	N	150
SH03426A	44 0 11	71 53 16	1.50	.05	20.00	>2.0	1,500	N	500	1,000	N	N	N	150
SH04166A	44 0 15	71 55 28	1.00	.30	15.00	>2.0	1,500	N	150	100	N	10	N	200
SH03532A	44 0 23	71 45 33	2.00	7.00	30.00	>2.0	1,500	N	300	200	700	15	200	200
SH03530A	44 0 23	71 45 45	2.00	.70	15.00	>2.0	2,000	N	700	700	200	10	20	150
SH03531A	44 0 25	71 45 46	3.00	2.00	20.00	2.0	2,000	N	1,000	700	300	15	70	200
SH03423A	44 0 28	71 53 0	2.00	1.00	20.00	>2.0	2,000	N	300	700	500	100	N	150
SH03422A	44 0 46	71 53 27	20.00	.50	10.00	>2.0	1,500	N	5,000	700	<200	50	N	100
SH03558A	44 0 50	71 26 13	2.00	.50	1.00	>2.0	1,000	N	500	300	N	<10	N	100
SH03343A	44 0 53	71 37 52	.70	.20	2.00	2.0	1,000	N	150	200	N	N	N	200
SH03341A	44 0 54	71 38 7	.30	.10	2.00	>2.0	700	N	150	150	N	N	N	300
SH03836A	44 0 58	71 3 42	2.00	.50	3.00	1.5	1,000	N	1,000	300	N	N	N	150
SH04821A	44 1 3	71 23 26	3.00	.50	3.00	>2.0	1,500	N	150	100	N	N	N	20
SH03308A	44 1 8	71 44 44	1.00	.70	15.00	>2.0	2,000	N	700	300	<200	N	N	100
SH03867A	44 1 11	71 14 27	.70	.05	2.00	>2.0	300	N	N	150	N	N	N	50
SH03868A	44 1 13	71 14 31	.70	.07	.50	1.5	700	N	N	150	N	N	N	50
SH03581A	44 1 16	71 21 28	3.00	1.00	15.00	>2.0	2,000	N	500	150	200	10	N	150
SH03580A	44 1 16	71 21 30	1.00	.50	10.00	>2.0	1,500	N	200	200	300	N	N	150
SH03590A	44 1 19	71 25 44	.50	.10	.20	.2	700	N	N	50	N	N	N	<20
SH03582A	44 1 20	71 21 12	1.00	.70	5.00	>2.0	1,500	N	200	300	N	N	N	150
SH03305A	44 1 21	71 43 59	50.00	.10	20.00	2.0	500	N	50	150	N	150	50	70
SH03589A	44 1 25	71 26 55	3.00	.10	2.00	>2.0	1,000	N	70	500	N	15	N	70
SH03587A	44 1 30	71 27 22	3.00	.20	5.00	>2.0	2,000	N	300	700	200	N	30	70
SH04161A	44 1 35	71 59 14	2.00	.50	15.00	>2.0	2,000	N	300	700	700	20	N	150
SH03418A	44 1 40	71 53 26	3.00	1.50	15.00	>2.0	1,500	N	2,000	700	500	20	15	100
SH03357A	44 1 44	71 31 10	.50	.05	1.50	1.5	700	N	N	70	N	N	N	20
SH03616A	44 1 47	71 32 12	.50	.05	2.00	2.0	300	N	50	150	N	N	N	N
SH03615A	44 1 48	71 32 18	.70	.05	.30	>2.0	5,000	N	50	200	N	N	N	50
SH03730A	44 1 58	71 45 52	3.00	1.00	15.00	>2.0	2,000	N	1,500	300	200	10	15	200
SH03733A	44 2 7	71 46 50	3.00	.20	15.00	>2.0	1,000	N	200	200	200	15	50	100
SH03573A	44 2 8	71 19 13	.70	.10	2.00	>2.0	500	N	N	500	N	N	N	30
SH03574A	44 2 8	71 19 21	1.00	.07	.50	>2.0	500	N	100	300	N	N	N	70
SH03610A	44 2 8	71 31 40	.15	<.05	.20	2.0	700	N	N	N	N	N	N	N
SH03833A	44 2 13	71 2 1	1.50	.15	1.00	>2.0	700	N	500	300	N	N	N	100

See footnotes at end of table.

Table 2 cont.

Sample	W	Sn	Th	Re	Nb	La	Y	Bi	Cu	Pb	Zn	Mo	Sc	V
SH03500A	150	50	N	10	70	100	200	N	20	50	N	N	N	300
SH03175A	N	>2,000	700	5	150	2,000	2,000	N	10	70	N	N	N	N
SH03539A	N	300	N	200	500	100	200	N	<10	30	N	N	N	500
SH03534A	N	700	N	50	150	100	200	N	N	20	N	N	N	300
SH03536A	N	150	500	20	1,000	700	700	N	15	50	N	N	N	500
SH03537A	N	150	N	100	200	300	200	N	N	50	N	N	N	300
SH03853A	N	1,500	300	150	200	1,000	1,000	N	N	70	N	N	N	100
SH03561A	N	>2,000	1,500	200	100	>2,000	1,500	N	N	50	N	N	20	100
SH03560A	N	>2,000	3,000	300	200	2,000	2,000	N	10	50	N	N	N	N
SH03311A	200	100	N	10	150	100	200	N	<10	50	N	N	N	300
SH03559A	N	1,000	2,000	2	150	>2,000	2,000	N	N	70	N	N	50	100
SH03425A	200	100	N	300	70	100	150	N	70	N	N	N	N	200
SH03426A	1,000	30	500	3	70	70	200	N	20	30	N	N	N	300
SH04166A	1,000	150	N	<2	200	1,000	700	N	<10	70	N	200	N	300
SH03532A	N	300	N	7	100	300	300	N	<10	70	N	N	N	200
SH03530A	N	2,000	N	20	150	300	300	N	15	300	N	N	30	200
SH03531A	200	>2,000	N	50	70	300	500	N	30	70	N	500	N	200
SH03423A	500	N	N	15	100	200	500	N	300	30	N	<10	N	500
SH03422A	2,000	N	N	<2	N	100	500	N	10	50	N	150	N	300
SH03558A	N	>2,000	1,500	30	200	>2,000	2,000	N	N	70	N	N	N	100
SH03343A	N	200	N	30	150	70	200	N	N	50	N	N	N	500
SH03341A	N	500	N	150	500	N	200	N	N	N	N	N	N	500
SH03836A	N	500	500	2	500	1,000	1,500	N	N	50	N	N	N	200
SH04821A	N	2,000	1,000	15	200	1,000	2,000	N	<10	50	N	10	N	70
SH03308A	<100	200	N	100	70	100	200	N	N	20	N	N	N	150
SH03867A	N	>2,000	500	50	100	300	1,500	100	N	50	N	N	N	100
SH03868A	N	>2,000	700	3	100	700	1,500	N	N	20	N	N	30	N
SH03581A	N	1,500	1,500	20	200	2,000	700	N	N	70	N	N	N	150
SH03580A	N	1,500	500	200	200	1,000	1,000	N	N	70	N	N	N	100
SH03590A	N	1,500	N	1,000	300	200	150	N	N	N	N	N	50	300
SH03582A	N	1,000	1,000	10	150	2,000	1,500	N	N	100	N	N	20	100
SH03305A	N	N	N	7	N	N	500	N	100	30	N	N	N	70
SH03589A	N	>2,000	2,000	>2,000	500	>2,000	1,500	N	10	200	N	N	10	100
SH03587A	<100	>2,000	1,000	50	700	>2,000	1,000	N	10	150	N	<10	N	200
SH04161A	1,500	100	N	2	70	1,000	500	N	10	100	700	100	N	200
SH03418A	500	300	N	20	150	500	300	N	10	50	N	N	30	500
SH03357A	N	>2,000	700	1,000	150	700	500	N	N	30	N	N	N	N
SH03616A	N	>2,000	700	100	500	500	3,000	N	<10	70	N	N	N	N
SH03615A	N	>2,000	1,000	500	200	700	2,000	N	100	100	N	N	70	N
SH03730A	N	20	N	5	150	700	700	N	N	30	N	N	70	300
SH03733A	300	>2,000	200	200	100	300	300	N	20	100	N	N	15	150
SH03573A	N	1,500	1,000	10	300	1,000	5,000	N	N	100	N	N	N	150
SH03574A	N	1,000	2,000	10	500	1,000	>5,000	N	<10	70	N	10	15	100
SH03610A	N	>2,000	500	3	200	100	100	N	N	20	N	N	N	N
SH03833A	N	>2,000	2,000	200	200	1,500	1,500	N	N	70	N	N	N	150

See footnotes at end of table.

Table 2 cont.

Sample	Latitude	Longitude	Fe%	Mg%	Ca%	Ti%	Mn	As	B	Ba	Sr	Co	Ni	Cr
SH03858A	44 2 15	71 10 27	2.00	.50	1.00	>2.0	1,000	N	300	200	N	<10	N	150
SH03142A	44 2 16	71 51 30	1.50	.20	30.00	>2.0	1,000	N	200	200	200	N	N	100
SH03733A	44 2 19	71 47 51	.50	.30	3.00	>2.0	700	N	N	200	N	N	N	200
SH03164A	44 2 21	71 56 9	2.00	.50	7.00	>2.0	1,000	N	150	200	N	N	N	200
SH03832A	44 2 29	71 1 53	1.50	.50	1.50	>2.0	1,000	N	1,500	300	N	N	N	200
SH04843A	44 2 31	71 16 34	.70	.20	2.00	>2.0	500	N	N	300	N	N	N	20
SH04842A	44 2 33	71 16 27	2.00	.70	1.50	>2.0	1,000	N	1,000	300	N	15	N	70
SH03612A	44 2 37	71 33 5	1.00	.15	5.00	>2.0	1,000	N	300	300	N	N	N	100
SH03159A	44 2 38	71 57 25	1.50	1.00	20.00	>2.0	1,000	N	700	300	300	10	N	150
SH03144A	44 2 49	71 51 25	5.00	1.50	2.00	>2.0	1,500	N	5,000	2,000	200	20	70	300
SH03840A	44 2 50	71 6 37	1.00	.20	2.00	>2.0	1,000	N	200	200	N	N	N	150
SH03349A	44 2 54	71 31 4	.20	<.05	.15	.5	1,000	N	N	N	N	N	N	<20
SH04873A	44 2 55	71 25 9	.50	.15	.50	1.5	500	N	N	50	N	N	N	N
SH03163A	44 2 57	71 56 20	3.00	.70	7.00	>2.0	1,000	N	300	300	500	10	30	150
SH03350A	44 2 58	71 31 13	.50	<.05	.50	.5	1,500	N	N	N	N	N	N	20
SH03387A	44 3 0	71 43 47	1.00	1.00	20.00	>2.0	2,000	N	300	200	300	N	N	70
SH03145A	44 3 1	71 51 22	3.00	1.00	20.00	>2.0	1,500	N	500	500	500	20	N	200
SH03607A	44 3 6	71 34 1	1.50	.70	3.00	>2.0	1,500	N	1,000	300	N	N	20	150
SH03386A	44 3 7	71 43 54	1.00	.70	15.00	>2.0	1,000	N	1,500	300	300	10	N	70
SH03331A	44 3 9	71 39 23	1.00	.30	10.00	>2.0	1,500	N	200	150	200	N	N	70
SH03384A	44 3 17	71 43 49	.70	.70	20.00	>2.0	2,000	N	200	300	500	N	N	200
SH04845A	44 3 18	71 17 2	2.00	.30	2.00	>2.0	1,000	N	N	500	N	N	N	100
SH03894A	44 3 22	71 24 24	3.00	.20	3.00	>2.0	1,000	N	70	300	N	10	N	70
SH04884A	44 3 27	71 23 53	1.00	.20	3.00	>2.0	1,000	N	500	500	N	N	N	150
SH04847A	44 3 29	71 17 33	1.00	.15	2.00	2.0	700	N	500	500	N	N	N	50
SH04839A	44 3 31	71 16 18	1.50	.30	3.00	>2.0	1,000	N	300	500	N	N	N	50
SH04867A	44 3 32	71 26 52	.70	<.05	.20	.7	500	N	N	N	N	N	N	N
SH04885A	44 3 35	71 23 43	.70	.10	2.00	>2.0	700	N	100	200	N	N	N	150
SH04869A	44 3 35	71 26 5	3.00	.50	2.00	2.0	700	<500	50	200	N	N	N	50
SH04868A	44 3 37	71 26 54	1.00	<.05	.30	1.0	700	N	N	N	N	N	N	N
SH04164A	44 3 38	71 56 28	1.50	.30	7.00	>2.0	1,000	N	300	3,000	500	70	N	300
SH03739A	44 3 44	71 47 22	3.00	1.50	10.00	>2.0	2,000	N	2,000	200	200	30	20	200
SH03413A	44 3 47	71 37 26	1.00	.20	5.00	2.0	1,500	N	200	150	N	N	30	50
SH03601A	44 3 50	71 37 19	.50	.10	2.00	2.0	700	N	70	200	N	N	N	50
SH03869A	44 3 54	71 11 52	.70	.20	2.00	1.5	700	N	200	300	200	N	N	100
SH03339A	44 4 4	71 41 33	1.00	.70	15.00	>2.0	1,500	N	150	300	500	N	N	100
SH03743A	44 4 4	71 47 50	3.00	1.50	15.00	>2.0	2,000	N	>5,000	700	<200	10	50	300
SH03604A	44 4 5	71 36 9	.50	.05	1.00	2.0	300	N	50	200	N	N	N	30
SH04882A	44 4 15	71 23 12	2.00	1.00	10.00	>2.0	1,500	N	5,000	300	N	<10	20	150
SH03148A	44 4 16	71 50 37	3.00	1.00	10.00	>2.0	1,500	N	1,500	700	200	50	N	100
SH03872A	44 4 18	71 10 16	1.00	.15	3.00	>2.0	700	N	150	300	N	N	N	150
SH04880A	44 4 33	71 23 53	3.00	1.00	15.00	>2.0	1,500	N	1,500	700	200	15	30	150
SH04879A	44 4 46	71 24 42	2.00	.50	3.00	>2.0	1,000	N	50	300	N	N	N	100
SH03706A	44 4 47	71 47 47	3.00	1.00	15.00	>2.0	2,000	N	1,000	700	500	50	N	150
SH03698A	44 4 48	71 34 39	.70	.10	2.00	>2.0	500	N	N	100	N	10	70	50

See footnotes at end of table.

Table 2 cont.

Sample	W	Sn	Th	Re	Nb	La	Y	Bi	Cu	Pb	Zn	Mo	Sc	V
SH03858A	N	>2,000	1,500	30	200	>2,000	2,000	N	50	70	N	N	N	150
SH03142A	1,000	100	N	50	100	150	700	N	<10	20	N	10	N	150
SH03735A	2,000	2,000	N	500	150	100	150	2,000	<10	N	N	N	N	100
SH03164A	700	100	N	2	70	100	200	N	N	30	N	15	N	200
SH03832A	N	500	1,000	<2	300	1,000	2,000	N	N	70	N	N	N	100
SH04843A	N	300	1,000	50	500	2,000	2,000	N	N	100	N	N	20	150
SH04842A	N	2,000	700	10	200	>2,000	2,000	N	N	70	N	N	N	100
SH03612A	100	>2,000	2,000	7	200	>2,000	1,500	N	50	70	N	N	50	100
SH03159A	500	100	300	2	300	500	500	N	N	50	N	10	N	300
SH03144A	N	50	N	10	150	100	150	N	15	30	N	N	N	200
SH03840A	N	150	700	20	150	150	1,000	N	20	50	N	N	N	300
SH03349A	300	>2,000	N	200	150	N	50	N	N	30	N	N	N	N
SH04873A	200	>2,000	500	5	500	1,000	500	N	N	50	N	N	N	N
SH03163A	300	N	N	5	100	100	150	N	<10	N	N	N	N	200
SH03350A	N	>2,000	200	2	70	300	300	100	10	70	N	N	N	N
SH03387A	1,000	100	200	5	150	200	200	N	70	70	N	N	N	200
SH03145A	700	30	N	7	100	200	300	N	15	30	N	N	N	200
SH03607A	N	>2,000	1,000	5	200	500	700	1,000	<10	70	N	N	N	150
SH03386A	300	50	N	7	200	200	200	N	N	20	N	N	N	200
SH03331A	100	2,000	200	20	200	1,000	300	N	N	50	N	N	N	200
SH03384A	N	70	N	5	100	300	500	20	10	70	N	N	N	200
SH04845A	N	20	500	10	500	2,000	700	N	N	100	N	N	10	100
SH03894A	200	>2,000	2,000	200	200	>2,000	1,500	N	10	100	N	<10	N	100
SH04884A	N	1,000	300	100	200	2,000	1,500	N	N	100	N	N	N	150
SH04847A	N	1,000	1,000	100	300	1,000	3,000	N	N	150	N	N	15	100
SH04839A	N	2,000	200	10	200	500	1,000	N	N	50	N	N	N	150
SH04867A	<100	2,000	700	20	300	100	100	N	N	70	N	N	N	N
SH04885A	N	>2,000	700	200	150	1,000	1,000	N	N	70	N	N	N	50
SH04869A	N	>2,000	2,000	20	300	2,000	3,000	N	50	150	20,000	N	N	100
SH04868A	N	>2,000	N	200	500	700	200	N	N	70	N	N	N	N
SH04164A	700	500	N	5	150	200	300	N	100	100	N	N	N	200
SH03739A	150	150	<200	5	150	700	500	N	<10	50	1,000	<10	20	300
SH03413A	N	700	700	10	200	1,000	1,000	N	<10	150	N	N	N	150
SH03601A	N	>2,000	300	2	70	300	1,500	N	N	30	N	N	N	50
SH03869A	N	>2,000	300	10	100	500	700	N	N	30	N	N	N	100
SH03339A	N	150	N	15	200	500	200	2,000	<10	100	N	N	N	300
SH03743A	700	300	N	200	100	700	300	N	20	70	N	N	N	300
SH03604A	N	2,000	500	5	50	200	2,000	N	N	30	N	N	N	N
SH04882A	N	2,000	700	200	200	2,000	1,000	N	10	200	N	50	N	200
SH03148A	1,000	2,000	500	300	150	700	300	2,000	15	150	1,500	N	N	150
SH03872A	N	>2,000	300	50	150	300	1,000	N	N	70	N	N	N	200
SH04880A	N	500	500	30	300	2,000	700	N	30	300	1,000	10	N	150
SH04879A	100	>2,000	500	50	150	2,000	1,500	N	N	70	N	N	30	100
SH03706A	200	300	N	7	150	700	500	100	30	700	500	<10	N	300
SH03698A	500	>2,000	2,000	2	200	>2,000	700	N	10	70	N	N	N	100

See footnotes at end of table.

Table 2 cont.

Sample	Latitude	Longitude	Fe%	Mg%	Ca%	Ti%	Mn	As	B	Ba	Sr	Co	Ni	Cr
SH03327A	44 4 48	71 40 40	.70	.20	10.00	>2.0	1,000	N	100	150	200	N	N	70
SH03844A	44 4 53	71 6 35	1.50	.50	.70	1.5	1,000	N	300	500	N	N	N	200
SH03824A	44 5 0	71 2 6	1.50	.20	2.00	>2.0	2,000	N	200	500	N	N	N	150
SH03373A	44 5 4	71 31 23	.50	.20	2.00	>2.0	2,000	N	N	500	N	N	N	100
SH03632A	44 5 6	71 58 32	1.00	.70	15.00	>2.0	1,000	N	200	300	700	10	N	100
SH03846A	44 5 7	71 5 46	1.50	.20	2.00	>2.0	1,000	N	700	300	N	N	N	150
SH04831A	44 5 13	71 7 58	1.50	.30	3.00	>2.0	1,000	N	700	700	N	N	N	150
SH03807A	44 5 14	71 12 29	1.00	.15	2.00	1.5	1,500	N	50	500	N	N	N	100
SH03411A	44 5 19	71 35 25	1.00	.20	7.00	2.0	1,500	N	700	200	N	N	N	100
SH03821A	44 5 24	71 1 42	1.50	.15	3.00	>2.0	1,500	N	300	200	N	N	N	100
SH03647A	44 5 30	71 56 21	1.00	.50	15.00	>2.0	1,000	N	150	300	N	N	N	150
SH03412A	44 5 31	71 34 57	.70	.10	3.00	>2.0	1,000	N	1,000	200	N	N	N	100
SH03652A ^{4/}	44 5 41	71 57 22	1.00	.70	15.00	>2.0	1,000	N	500	300	200	10	N	150
SH03662A ^{5/}	44 5 46	71 51 32	2.00	.50	15.00	>2.0	1,000	N	100	300	700	N	N	70
SH03700A ^{6/}	44 5 50	71 50 29	1.00	.20	15.00	>2.0	1,000	1,500	200	700	200	100	100	N
SH03316A	44 6 11	71 39 16	.70	.20	10.00	>2.0	1,000	N	150	300	200	N	N	100
SH03827A	44 6 12	71 1 47	1.00	.15	2.00	>2.0	1,000	N	300	300	N	N	N	150
SH03639A ^{7/}	44 6 12	71 53 9	3.00	.70	15.00	>2.0	3,000	N	300	300	700	20	N	100
SH03745A	44 6 13	71 46 6	20.00	.20	15.00	>2.0	700	N	100	200	300	100	15	100
SH03407A	44 6 14	71 34 57	1.00	.10	1.50	1.5	1,000	N	1,000	200	N	N	N	70
SH04892A	44 6 21	71 21 14	1.50	.50	5.00	>2.0	1,500	N	1,500	700	<200	<10	N	300
SH03379A	44 6 21	71 33 6	.30	.05	1.00	.5	500	N	N	100	N	N	N	50
SH03378A	44 6 22	71 33 3	.30	<.05	.50	>2.0	500	N	N	N	N	N	N	50
SH03367A	44 6 35	71 33 18	.70	.15	2.00	>2.0	700	N	50	200	N	N	50	N
SH03626A	44 6 35	71 56 54	1.00	.50	15.00	>2.0	1,500	N	300	300	300	N	N	100
SH04893A	44 6 41	71 21 52	2.00	.20	3.00	>2.0	1,500	N	100	500	N	N	N	150
SH03819A	44 6 44	71 0 20	1.00	.30	3.00	>2.0	1,000	N	700	300	N	N	N	150
SH04894A	44 6 44	71 21 49	3.00	.20	3.00	>2.0	2,000	N	500	700	N	<10	N	150
SH03098A	44 6 47	71 27 44	.50	.20	1.00	1.5	300	N	50	100	500	N	N	N
SH03325A	44 6 48	71 41 0	.70	.70	15.00	>2.0	3,000	N	300	300	500	N	N	100
SH03324A	44 6 50	71 41 9	.70	.20	5.00	>2.0	1,000	N	100	150	200	N	N	100
SH03149A	44 7 2	71 51 4	1.50	.70	15.00	>2.0	1,500	N	200	200	300	N	N	200
SH03747A	44 7 8	71 46 53	2.00	.15	5.00	>2.0	700	N	150	200	200	50	N	200
SH04827A	44 7 14	71 7 48	2.00	.50	3.00	2.0	1,000	N	1,000	500	N	N	N	150
SH03642A	44 7 15	71 55 4	3.00	.70	15.00	>2.0	1,500	N	30	300	500	N	N	150
SH04899A	44 7 19	71 20 54	2.00	.70	5.00	>2.0	1,500	N	200	700	300	10	N	200
SH03095A	44 7 21	71 26 38	2.00	.10	1.00	>2.0	1,000	N	150	200	N	N	20	70
SH03392A	44 7 22	71 35 31	1.00	.70	5.00	>2.0	1,500	N	200	500	300	N	50	150
SH04826A	44 7 23	71 7 48	2.00	.70	3.00	2.0	1,000	N	1,500	700	N	N	N	200
SH03094A	44 7 23	71 26 40	.50	.05	1.00	1.0	500	N	30	200	N	N	N	N
SH03368A	44 7 33	71 31 35	1.00	.20	15.00	>2.0	1,000	N	200	200	300	15	N	150
SH04167A	44 7 49	71 42 34	2.00	.70	15.00	>2.0	1,000	N	1,000	500	700	50	N	200
SH03397A	44 7 50	71 36 43	1.00	.20	15.00	>2.0	2,000	N	150	300	200	N	N	100
SH03986A	44 7 55	71 11 26	1.00	.70	1.50	>2.0	500	N	1,000	700	N	N	N	200
SH03712A	44 7 56	71 46 40	3.00	.70	10.00	>2.0	1,500	N	300	300	500	50	10	150

See footnotes at end of table.

Table 2 cont.

Sample	W	Sn	Th	Re	Nb	La	Y	Bi	Cu	Pb	Zn	Mo	Sc	V
SH03327A	N	30	N	3	200	1,000	300	N	<10	50	N	N	N	70
SH03844A	N	700	200	150	200	100	200	N	50	50	N	N	N	200
SH03824A	N	>2,000	500	10	300	150	700	N	N	50	N	N	N	150
SH03373A	N	300	N	2	150	N	200	N	N	50	N	N	N	100
SH03632A	700	150	N	3	200	300	500	N	<10	70	N	N	N	150
SH03846A	N	>2,000	500	150	100	200	1,000	N	10	20	N	N	N	300
SH04831A	N	500	N	50	200	200	500	N	N	50	N	N	N	200
SH03807A	N	>2,000	500	5	200	200	500	N	N	30	N	N	N	100
SH03411A	N	20	500	7	100	700	1,500	N	N	70	N	N	N	150
SH03821A	N	200	2,000	200	150	700	3,000	N	10	70	N	<10	20	200
SH03647A	500	500	N	5	150	200	300	N	<10	50	N	N	N	150
SH03412A	4/ 3,000	2,000	1,000	7	200	500	5,000	N	N	100	N	N	20	70
SH03652A	5/ 1,500	200	N	3	100	200	300	N	<10	20	N	N	N	200
SH03662A	6/ 1,500	50	N	7	70	700	500	>2,000	10,000	700	1,500	N	N	200
SH03700A	6/ 1,500	>2,000	N	10	70	150	300	1,500	<10	200	N	N	N	150
SH03316A	500	>2,000	N	7	150	200	300	N	<10	50	N	N	N	200
SH03827A	N	200	1,000	7	150	200	2,000	N	<10	70	N	N	10	200
SH03639A	7/ 1,500	>2,000	N	5	<50	100	200	>2,000	50	5,000	N	10	N	150
SH03745A	500	200	200	2	200	1,000	500	100	70	100	N	30	N	300
SH03407A	N	N	1,000	3	100	500	2,000	N	N	100	N	N	N	100
SH04892A	N	>2,000	200	7	500	1,000	1,000	N	N	100	N	N	N	200
SH03379A	N	2,000	200	200	150	700	500	N	N	20	N	N	N	20
SH03378A	N	>2,000	700	150	200	100	150	N	N	20	N	N	N	<20
SH03367A	N	>2,000	1,500	2	150	2,000	1,000	N	<10	70	N	N	N	100
SH03626A	700	N	N	5	100	100	500	N	10	20	N	N	N	150
SH04893A	N	2,000	1,000	5	200	1,500	2,000	N	<10	500	N	10	30	100
SH03819A	N	200	200	20	100	100	1,000	N	N	50	N	N	N	200
SH04894A	N	>2,000	700	10	300	1,500	1,500	N	200	200	N	N	N	100
SH03098A	N	>2,000	1,500	2	200	1,000	2,000	N	N	50	N	N	N	20
SH03325A	N	500	500	7	150	1,500	700	N	<10	70	N	N	N	200
SH03324A	<100	500	200	50	150	1,000	700	N	N	30	N	10	N	150
SH03149A	500	50	N	2	100	100	300	N	N	30	N	10	N	300
SH03747A	500	200	500	3	200	700	1,000	N	<10	20	N	15	50	300
SH04827A	N	70	N	200	100	100	300	N	N	20	N	N	N	200
SH03642A	3,000	100	N	7	100	70	200	N	<10	50	N	N	N	100
SH04899A	N	>2,000	500	300	200	1,500	1,500	N	N	70	N	N	N	150
SH03095A	<100	>2,000	1,500	50	500	>2,000	>5,000	N	N	100	N	N	70	100
SH03392A	N	500	1,500	20	300	700	200	N	N	50	N	N	N	200
SH04826A	N	100	700	15	150	100	500	N	<10	50	N	N	N	300
SH03094A	N	2,000	700	5	150	1,000	1,500	N	N	100	N	N	30	70
SH03368A	N	100	N	5	200	300	500	70	<10	30	N	N	N	300
SH04167A	N	100	300	50	200	2,000	700	N	15	70	N	30	N	300
SH03397A	<100	20	N	20	150	300	500	N	10	30	N	N	50	300
SH03986A	N	1,000	N	20	500	N	200	N	N	30	N	N	N	500
SH03712A	700	1,000	200	3	300	2,000	700	300	10	50	N	30	N	300

See footnotes at end of table.

Table 2 cont.

Sample	Latitude	Longitude	FeX	MgX	CaX	TiX	Mn	As	B	Ba	Sr	Co	Ni	Cr
SH03713A	44 7 58	71 46 40	1.50	.70	15.00	>2.0	2,000	N	300	300	300	10	N	150
SH03102A	44 7 59	71 28 19	2.00	.20	3.00	>2.0	1,000	N	100	300	N	N	N	100
SH03891A	44 8 1	71 15 41	1.50	.20	5.00	>2.0	1,500	N	700	700	200	10	N	200
SH04142A	44 8 5	71 40 53	2.00	1.00	15.00	>2.0	1,500	N	200	300	300	N	N	150
SH03792A	44 8 6	71 6 17	2.00	.70	5.00	>2.0	1,000	N	1,000	700	N	N	N	150
SH04897A	44 8 7	71 22 2	2.00	.15	2.00	2.0	1,500	N	20	200	N	N	N	70
SH03250A	44 8 10	71 56 48	3.00	1.50	15.00	>2.0	1,000	N	700	700	700	20	30	150
SH03791A2/	44 8 11	71 6 18	1.00	.07	.50	2.0	500	N	150	150	N	N	N	N
SH03691A	44 8 11	71 34 58	1.00	.30	10.00	>2.0	2,000	N	700	300	300	N	N	200
SH03690A	44 8 12	71 34 44	2.00	.70	2.00	>2.0	1,500	N	1,000	300	200	15	<10	200
SH03251A	44 8 12	71 55 50	1.50	1.00	10.00	>2.0	1,000	N	1,500	500	700	10	N	300
SH04141A	44 8 23	71 41 4	1.50	.50	10.00	>2.0	2,000	N	150	700	300	N	N	200
SH03291A	44 8 24	71 48 9	2.00	.50	20.00	>2.0	1,500	N	700	300	700	<10	N	200
SH03091A	44 8 27	71 27 53	3.00	.70	3.00	>2.0	2,000	N	200	200	N	10	N	150
SH03685A	44 8 29	71 34 47	.70	.50	7.00	>2.0	700	N	500	150	N	N	N	150
SH04903A	44 8 30	71 21 32	1.50	.30	15.00	>2.0	1,000	N	100	300	N	N	N	100
SH04438A	44 8 34	71 16 35	.70	.15	7.00	>2.0	1,500	N	700	500	N	N	N	100
SH03686A	44 8 35	71 34 54	1.00	.20	2.00	>2.0	1,000	N	150	500	200	N	N	150
SH03715A	44 8 42	71 46 22	2.00	1.50	10.00	>2.0	2,000	N	300	300	700	15	N	200
SH04902A	44 8 45	71 22 2	5.00	.50	2.00	>2.0	3,000	N	300	300	N	N	N	70
SH03400A	44 8 52	71 37 10	1.00	1.00	7.00	>2.0	3,000	N	1,000	500	200	10	N	150
SH04292A	44 8 55	71 12 38	1.50	.50	5.00	>2.0	1,500	N	1,500	700	N	N	10	300
SH04436A	44 8 59	71 17 6	1.00	.20	3.00	>2.0	3,000	N	1,000	700	<200	10	N	70
SH03406A	44 8 59	71 34 52	1.00	.50	3.00	>2.0	1,500	N	300	300	200	N	N	150
SH04437A	44 9 3	71 17 4	.70	.15	7.00	>2.0	700	N	150	500	N	N	N	150
SH04179A	44 9 13	71 51 53	2.00	.50	5.00	>2.0	1,500	N	300	700	500	N	N	100
SH03088A	44 9 23	71 27 18	1.00	.10	15.00	>2.0	700	N	N	150	N	N	N	70
SH03716A	44 9 24	71 46 5	1.00	.70	15.00	>2.0	2,000	N	200	300	200	10	N	200
SH04294A	44 9 25	71 12 45	.70	.30	2.00	>2.0	1,000	N	300	500	N	N	N	300
SH03254A	44 9 26	71 57 21	1.50	1.50	10.00	>2.0	1,000	N	500	500	700	<10	N	150
SH04285A	44 9 29	71 1 44	1.00	.20	5.00	2.0	1,500	N	200	300	N	N	N	100
SH04286A	44 9 29	71 2 15	2.00	.50	10.00	>2.0	7,000	N	1,000	700	N	N	N	150
SH03268A	44 9 30	71 57 56	2.00	1.00	15.00	>2.0	1,500	N	500	500	1,000	20	N	200
SH03790A	44 9 33	71 6 34	.70	.50	7.00	>2.0	3,000	N	5,000	700	N	N	N	150
SH04283A	44 9 34	71 1 14	1.50	.50	5.00	>2.0	2,000	N	500	500	N	N	N	150
SH04178A	44 9 37	71 52 44	2.00	1.00	10.00	>2.0	1,000	N	500	500	500	N	N	200
SH04906A	44 9 41	71 23 30	2.00	.70	15.00	>2.0	1,500	N	150	700	500	10	N	150
SH04905A	44 9 41	71 23 35	3.00	.50	2.00	2.0	1,000	N	300	300	200	N	10	100
SH03991A	44 9 42	71 5 38	1.50	.50	3.00	>2.0	2,000	N	1,500	700	N	N	N	200
SH03722A	44 9 45	71 46 3	2.00	1.50	10.00	>2.0	1,500	N	300	200	500	10	30	300
SH04434A	44 9 47	71 17 26	1.00	.20	10.00	>2.0	2,000	N	1,000	700	200	N	N	150
SH03292A	44 9 48	71 46 38	1.00	.70	15.00	>2.0	1,000	N	200	200	300	N	N	200
SH03682A	44 9 52	71 35 11	2.00	.70	3.00	>2.0	2,000	N	200	500	200	50	N	150
SH03401A	44 9 56	71 36 2	1.00	.50	10.00	>2.0	2,000	N	200	300	200	N	N	150
SH03972A	44 9 58	71 9 29	1.00	.50	5.00	>2.0	1,000	N	500	700	200	N	20	200

See footnotes at end of table

Table 2 cont.

Sample	W	Sn	Th	Be	Nb	La	Y	Bi	Cu	Pb	Zn	Mo	Sc	V
SH03713A	100	150	700	5	200	2,000	700	N	10	20	N	15	30	300
SH03102A	N	>2,000	2,000	50	300	>2,000	1,500	N	<10	70	N	N	50	100
SH03891A	<100	>2,000	N	10	150	150	500	N	10	50	N	N	10	300
SH04142A	N	150	N	150	100	700	700	500	10	30	N	N	N	200
SH03792A	N	200	1,500	15	200	700	5,000	N	N	100	N	N	N	150
SH04897A	N	>2,000	1,500	500	200	2,000	3,000	N	N	700	N	N	20	70
SH03250A	<100	150	N	10	100	150	200	N	50	70	N	N	N	300
SH03791A ^{2/}	N	1,000	5,000	20	500	700	>5,000	N	10	200	N	N	N	100
SH03691A	700	50	<200	100	200	1,000	500	2,000	<10	70	N	30	N	200
SH03690A	N	20	N	7	100	500	300	N	<10	20	N	N	N	200
SH03251A	2,000	200	N	2	200	500	300	N	<10	30	N	N	N	500
SH04141A	N	500	N	500	150	500	500	N	<10	70	N	N	N	200
SH03291A	N	50	N	5	100	300	700	N	N	30	N	N	N	200
SH03091A	N	>2,000	1,500	3	300	>2,000	2,000	N	<10	70	N	N	50	150
SH03685A	150	70	N	7	200	700	300	N	N	30	N	N	N	200
SH04903A	N	>2,000	700	50	150	1,500	1,000	N	N	150	N	N	N	150
SH04438A	<100	>2,000	500	15	50	300	1,000	N	10	50	N	N	N	200
SH03686A	500	200	N	150	150	700	200	20	<10	30	N	N	N	200
SH03715A	N	100	500	10	200	1,000	500	N	<10	30	700	10	20	300
SH04902A	N	>2,000	1,000	50	700	>2,000	>5,000	N	N	100	N	<10	30	100
SH03403A	N	70	N	5	100	200	700	20	<10	70	N	N	N	100
SH04292A	N	150	N	150	500	300	200	N	<10	30	N	N	N	700
SH04436A	N	>2,000	300	10	100	200	500	N	10	100	N	N	N	500
SH03406A	700	1,000	N	10	200	100	150	N	10	30	N	N	N	150
SH04437A	300	>2,000	300	3	200	500	700	N	10	20	N	N	N	500
SH04179A	500	100	N	7	150	150	100	N	N	30	N	10	N	300
SH03088A	N	>2,000	700	100	300	2,000	1,500	N	50	100	700	10	20	100
SH03716A	500	700	500	300	300	1,000	500	N	<10	100	N	20	100	300
SH04294A	N	2,000	N	20	700	50	200	N	N	N	N	N	N	500
SH03254A	<100	200	N	10	100	500	300	N	N	30	N	N	N	500
SH04285A	N	>2,000	200	150	N	200	700	N	N	N	N	N	N	150
SH04286A	N	>2,000	1,000	70	50	150	2,000	N	N	70	N	N	20	200
SH03268A	N	70	N	15	150	700	500	N	10	50	N	N	N	300
SH03790A	N	500	1,500	200	200	700	2,000	N	N	200	N	N	N	150
SH04283A	N	>2,000	200	7	70	2,000	700	N	100	1,500	N	N	N	200
SH04178A	300	50	N	7	150	300	200	2,000	10	70	N	10	N	300
SH04906A	N	100	N	5	150	1,000	500	N	<10	50	N	N	N	300
SH04905A	N	300	500	20	500	1,000	500	N	N	50	N	N	N	150
SH03991A	N	N	2,000	70	150	500	>5,000	N	<10	100	N	N	30	300
SH03722A	300	100	700	5	500	1,000	500	N	10	50	N	15	20	200
SH04434A	300	>2,000	300	2	200	500	500	N	15	30	N	N	N	500
SH03292A	N	1,500	N	5	150	1,000	500	N	N	300	N	N	30	200
SH03682A	100	N	N	10	150	150	100	N	15	30	N	N	N	200
SH03401A	500	70	N	10	150	700	300	N	10	20	N	N	N	150
SH03972A	200	150	N	100	150	200	200	N	10	50	N	N	10	300

See footnotes at end of table.

Table 2 cont.

Sample	Latitude	Longitude	FeX	MgX	CaX	TiX	Mn	As	B	Ba	Sr	Co	Ni	Cr
SH03403A	44 9 58	71 35 47	1.00	.50	5.00	>2.0	1,500	N	700	500	300	N	N	200
SH03971A	44 10 0	71 9 36	2.00	.50	5.00	>2.0	1,500	N	2,000	1,000	500	N	N	300
SH03973A	44 10 2	71 9 21	1.50	.70	3.00	>2.0	1,000	N	500	1,000	<200	N	N	200
SH04904A	44 10 5	71 22 43	5.00	.70	7.00	>2.0	2,000	N	1,500	700	200	10	N	200
SH03217A	44 10 10	71 53 40	1.50	1.00	15.00	>2.0	1,000	N	300	500	500	N	N	100
SH05246A	44 10 16	71 21 2	5.00	2.00	10.00	>2.0	5,000	N	1,500	700	1,500	20	70	200
SH03083A	44 10 16	71 27 48	.50	.50	2.00	>2.0	500	N	100	200	N	N	100	100
SH03970A	44 10 18	71 9 21	2.00	.30	3.00	>2.0	1,500	3,000	1,000	700	200	150	200	300
SH04177A	44 10 24	71 44 9	1.50	.50	10.00	>2.0	1,000	N	150	700	500	30	N	200
SH03810A	44 10 27	71 1 50	2.00	.50	3.00	1.5	1,000	N	1,500	500	<200	10	N	100
SH03087A	44 10 32	71 26 45	.70	.15	3.00	>2.0	700	N	100	200	200	N	N	100
SH03221A	44 10 32	71 50 34	5.00	.30	2.00	2.0	1,000	N	200	500	N	50	N	50
SH03724A	44 10 36	71 45 22	1.00	.20	10.00	>2.0	700	2,000	150	700	300	100	N	150
SH03257A	44 10 38	71 59 35	1.50	.70	3.00	>2.0	700	N	500	1,500	300	70	20	100
SH03258A	44 10 43	71 59 15	1.00	1.00	7.00	>2.0	1,000	N	300	500	500	10	N	100
SH03811A	44 10 46	71 3 19	.70	.20	2.00	1.0	1,500	N	300	200	N	N	N	70
SH04104A	44 10 48	71 14 18	1.50	.50	1.00	>2.0	1,000	N	2,000	700	200	N	N	200
SH04432A	44 10 50	71 17 37	1.50	.20	15.00	>2.0	2,000	N	2,000	700	200	30	15	150
SH03993A	44 10 52	71 5 17	.70	.07	1.50	1.5	700	N	70	200	N	N	N	70
SH05244A	44 10 53	71 21 6	15.00	1.50	10.00	>2.0	3,000	N	>5,000	700	500	10	N	200
SH04433A	44 10 54	71 17 26	30.00	.15	15.00	>2.0	1,000	3,000	300	700	200	100	100	70
SH03284A	44 11 4	71 54 6	1.50	1.00	10.00	>2.0	1,000	N	300	500	700	N	N	150
SH03244A	44 11 9	71 47 55	2.00	.50	15.00	>2.0	1,000	N	150	700	500	70	N	100
SH04156A	44 11 10	71 43 57	2.00	.50	10.00	>2.0	1,000	N	150	700	700	10	N	300
SH04145A	44 11 29	71 40 45	1.50	.70	10.00	>2.0	1,000	N	500	500	500	50	N	150
SH04288A	44 11 33	71 7 57	2.00	1.00	3.00	>2.0	1,500	N	3,000	1,000	N	N	N	300
SH05242A	44 11 33	71 20 38	5.00	2.00	15.00	>2.0	7,000	N	5,000	500	1,000	20	N	200
SH03779A	44 11 36	71 13 43	1.00	.70	7.00	>2.0	2,000	N	3,000	700	200	N	N	300
SH03263A	44 11 37	71 57 37	2.00	1.00	10.00	>2.0	1,000	1,500	300	7,000	700	30	N	200
SH03264A	44 11 37	71 57 38	20.00	1.00	10.00	>2.0	700	N	200	7,000	700	100	100	100
SH05240A	44 11 51	71 20 12	5.00	2.00	15.00	>2.0	5,000	N	5,000	700	1,000	50	100	200
SH03262A	44 11 54	71 58 34	3.00	1.50	10.00	>2.0	1,000	N	150	500	700	20	20	200
SH03787A	44 11 58	71 4 18	.50	.15	5.00	1.0	1,500	N	100	300	N	20	N	300
SH03247A	44 12 5	71 46 12	1.50	.50	15.00	>2.0	1,500	N	200	300	700	N	N	200
SH03814A	44 12 10	71 0 30	2.00	.20	15.00	>2.0	1,500	N	200	700	200	70	50	200
SH03243A	44 12 10	71 48 54	2.00	1.50	10.00	>2.0	1,000	N	300	700	500	N	N	200
SH04154A	44 12 12	71 43 10	1.00	.70	15.00	>2.0	1,000	N	200	700	700	10	N	200
SH04095A	44 12 15	71 31 41	3.00	.70	10.00	>2.0	1,000	N	150	1,500	300	20	20	150
SH04094A	44 12 16	71 31 45	2.00	1.50	2.00	>2.0	700	N	300	500	500	50	20	150
SH03726A	44 12 17	71 35 22	10.00	2.00	7.00	2.0	5,000	N	200	300	700	70	100	300
SH03246A	44 12 17	71 45 52	1.00	.30	15.00	>2.0	1,000	N	300	500	500	N	N	200
SH03813A	44 12 20	71 1 17	1.00	.70	7.00	>2.0	1,000	N	2,000	700	200	15	N	300
SH03728A	44 12 27	71 35 24	2.00	.70	3.00	>2.0	1,500	N	200	700	<200	N	N	200
SH03112A	44 12 30	71 24 11	1.50	.50	20.00	>2.0	5,000	N	150	500	500	15	N	100
SH04291A	44 12 32	71 7 51	1.50	1.00	3.00	>2.0	1,500	N	3,000	700	<200	N	N	300

See footnotes at end of table.

Table 2 cont.

Sample	W	Sn	Th	Re	Nb	La	Y	Bi	Cu	Pb	Zn	Mo	Sc	V
SH03403A	N	70	N	7	150	500	200	N	N	30	N	N	N	200
SH03971A	N	N	N	20	200	200	300	N	N	50	N	N	N	500
SH03973A	N	20	N	50	150	150	200	N	<10	70	N	N	N	300
SH04904A	N	70	1,000	200	200	2,000	700	N	50	70	N	N	N	300
SH03217A	2,000	500	N	7	150	200	200	N	10	2,000	N	N	N	300
SH05246A	N	>2,000	N	5	300	300	200	N	30	70	N	N	30	300
SH03083A	700	>2,000	1,000	5	200	1,000	300	1,500	N	70	N	N	N	100
SH03970A	500	>2,000	N	15	300	100	300	N	<10	70	N	N	10	500
SH04177A	<100	70	300	15	500	1,000	500	N	<10	50	N	70	N	300
SH03810A	N	>2,000	300	2	50	2,000	1,000	N	N	30	N	N	N	100
SH03087A	N	>2,000	1,000	10	300	1,500	1,000	150	<10	70	N	<10	10	200
SH03221A	1,000	500	N	2	70	100	200	N	70	70	3,000	10	N	150
SH03724A	3,000	500	N	3	200	700	200	N	2,000	N	N	10	N	200
SH03257A	100	N	N	2	150	150	300	N	20	200	N	N	N	500
SH03258A	N	N	N	3	100	300	300	N	N	30	N	N	N	500
SH03811A	N	1,500	500	3	100	>2,000	2,000	N	N	50	N	N	N	100
SH04104A	700	20	N	10	700	300	200	N	10	20	N	N	N	100
SH04432A	100	>2,000	N	10	150	700	300	N	200	70	N	N	N	500
SH03993A	N	>2,000	1,000	2	100	2,000	1,000	N	N	30	N	N	N	70
SH05244A	<100	>2,000	200	3	500	1,000	300	N	10	70	N	N	70	500
SH04433A	500	500	N	200	300	300	500	N	200	70	N	N	N	500
SH03284A	300	N	N	7	100	500	200	N	N	20	N	N	N	300
SH03244A	1,000	200	N	10	150	500	500	200	<10	50	N	N	N	300
SH04156A	100	300	300	5	100	2,000	700	N	100	70	N	50	N	300
SH04145A	N	70	N	20	500	1,000	500	N	<10	70	N	N	N	300
SH04288A	N	N	N	10	150	300	200	N	10	50	N	N	10	500
SH05242A	N	>2,000	N	5	300	1,000	500	30	70	200	N	N	30	300
SH03779A	200	30	N	150	300	200	200	N	<10	50	N	N	N	500
SH03263A	<100	50	N	2	100	700	200	N	20	70	N	N	N	300
SH03264A	N	50	N	3	150	500	300	N	150	300	N	N	N	200
SH05240A	200	1,000	N	3	500	1,500	300	N	15	70	N	N	100	300
SH03262A	N	N	N	7	150	300	200	N	15	70	N	N	N	300
SH03787A	N	1,500	N	200	N	300	700	N	10	30	N	N	N	100
SH03247A	N	100	N	2	200	1,500	700	150	N	100	N	30	N	300
SH03814A	N	200	N	50	200	700	700	N	70	70	N	N	N	300
SH03243A	<100	50	N	5	200	300	200	N	N	30	N	N	N	300
SH04154A	N	300	500	5	300	1,500	500	N	N	70	N	50	N	200
SH04095A	N	2,000	N	3	300	700	500	N	20	70	N	10	N	200
SH04094A	N	>2,000	200	20	200	1,000	700	N	30	200	N	<10	N	200
SH03726A	N	N	<200	50	200	700	200	N	20	50	1,000	N	20	300
SH03246A	1,000	150	700	<2	300	1,500	500	N	N	70	N	100	N	300
SH03813A	N	>2,000	200	100	200	300	500	N	700	500	N	N	N	300
SH03728A	300	500	N	10	500	500	300	N	30	30	N	N	N	300
SH03112A	N	>2,000	N	2	100	1,000	1,000	N	100	30	N	N	15	200
SH04291A	N	700	N	5	500	300	200	N	N	20	N	N	N	500

See footnotes at end of table.

Table 2 cont.

Sample	Latitude	Longitude	Fe%	Mg%	Ca%	Ti%	Mn	As	B	Ba	Sr	Co	Ni	Cr
SH04426A	44 12 35	71 17 38	.70	.15	2.00	>2.0	1,000	N	300	1,000	N	N	N	150
SH03808A	44 12 38	71 1 59	1.50	.70	5.00	>2.0	2,000	N	3,000	500	N	<10	N	200
SH03727A	44 12 43	71 35 39	5.00	1.00	3.00	>2.0	1,500	N	200	500	500	70	30	200
SH04427A	44 12 44	71 17 30	1.00	.20	1.00	>2.0	700	N	700	700	N	10	N	200
SH04305A	44 12 44	71 28 31	2.00	1.00	5.00	>2.0	1,500	N	150	700	500	15	30	200
SH05239A	44 12 46	71 20 10	10.00	2.00	15.00	>2.0	7,000	N	3,000	500	1,000	15	30	200
SH03785A	44 12 48	71 4 15	1.50	.70	7.00	>2.0	3,000	N	1,500	1,000	200	N	N	200
SH05238A	44 12 57	71 20 28	15.00	3.00	10.00	>2.0	5,000	N	>5,000	700	1,000	20	70	200
SH04174A	44 12 58	71 37 39	1.00	.70	10.00	>2.0	1,000	N	100	700	200	10	N	200
SH04173A	44 12 58	71 37 42	2.00	.70	5.00	>2.0	1,000	N	300	500	300	N	N	200
SH03797A	44 13 0	71 7 26	2.00	.50	15.00	>2.0	2,000	N	300	1,000	200	N	N	200
SH05237A	44 13 0	71 20 25	5.00	2.00	10.00	>2.0	3,000	N	>5,000	700	1,500	20	N	200
SH03109A	44 13 0	71 24 57	3.00	.15	2.00	2.0	1,000	3,000	700	700	700	N	20	150
SH03800A	44 13 2	71 7 29	1.50	.70	5.00	>2.0	2,000	N	3,000	700	N	N	N	300
SH04523A	44 13 2	71 11 12	1.00	.70	3.00	>2.0	1,000	N	5,000	500	N	N	N	150
SH03777A	44 13 4	71 14 45	2.00	.70	3.00	>2.0	1,500	N	1,500	700	200	<10	15	150
SH03239A	44 13 4	71 49 44	3.00	1.50	15.00	>2.0	1,000	N	300	500	700	15	20	150
SH03775A	44 13 12	71 15 12	2.00	.50	2.00	>2.0	2,000	N	1,500	1,500	N	10	15	300
SH03241A	44 13 12	71 48 33	1.00	2.00	15.00	>2.0	1,000	N	500	700	700	10	N	200
SH03966A	44 13 18	71 12 1	.70	.20	5.00	>2.0	2,000	N	1,000	500	N	N	N	100
SH03969A	44 13 19	71 11 25	1.00	.30	5.00	>2.0	2,000	3,000	2,000	500	N	30	N	200
SH04171A	44 13 19	71 37 56	1.50	1.00	10.00	>2.0	1,000	N	200	200	300	20	N	200
SH04306A	44 13 28	71 28 48	2.00	.50	5.00	>2.0	1,500	N	200	700	200	N	N	200
SH03677A	44 13 29	71 35 48	3.00	.20	3.00	>2.0	700	N	100	300	200	70	N	150
SH03774A	44 13 30	71 15 16	3.00	.50	3.00	>2.0	1,500	N	5,000	700	N	15	20	200
SH04907A	44 13 42	71 25 19	1.50	.50	10.00	>2.0	1,000	N	100	700	500	N	N	100
SH05236A	44 13 45	71 19 28	5.00	3.00	5.00	>2.0	5,000	N	>5,000	700	N	20	70	100
SH04379A	44 13 48	71 28 10	2.00	.20	3.00	>2.0	1,000	N	20	700	200	N	N	70
SH04089A	44 13 48	71 32 37	1.50	.70	3.00	>2.0	700	N	150	700	300	<10	N	200
SH04090A	44 13 49	71 32 32	5.00	.50	5.00	>2.0	700	N	150	300	200	100	20	200
SH04533A	44 13 50	71 11 11	1.50	1.00	3.00	>2.0	1,500	N	3,000	700	N	N	N	150
SH03249A	44 13 51	71 45 36	1.00	1.50	30.00	>2.0	2,000	N	300	700	700	10	N	500
SH03675A	44 13 55	71 36 28	.70	.30	3.00	>2.0	700	N	100	200	200	N	N	150
SH03276A	44 13 57	71 58 4	7.00	1.00	7.00	>2.0	1,000	N	300	700	500	70	50	150
SH04169A	44 13 59	71 38 18	1.00	.50	15.00	>2.0	2,000	N	150	300	300	<10	N	200
SH04275A	44 14 1	71 1 29	1.50	.50	5.00	1.5	1,000	N	700	700	N	N	N	200
SH04274A	44 14 4	71 1 32	.50	.30	10.00	>2.0	2,000	N	300	1,000	N	N	N	200
SH04703A	44 14 4	71 55 4	3.00	1.00	10.00	>2.0	1,000	N	150	700	300	20	N	150
SH04183A	44 14 6	71 56 3	5.00	.70	7.00	>2.0	1,000	N	500	1,500	700	50	20	150
SH04530A	44 14 10	71 11 19	.70	.50	5.00	>2.0	3,000	N	2,000	300	N	N	N	300
SH04271A	44 14 20	71 2 14	.70	.50	15.00	>2.0	2,000	N	1,000	700	N	N	N	200
SH03771A	44 14 20	71 15 26	2.00	.50	.70	>2.0	700	N	700	700	N	<10	30	200
SH04909A	44 14 20	71 25 42	7.00	2.00	15.00	>2.0	2,000	N	300	1,000	1,500	15	50	150
SH04272A	44 14 23	71 2 14	1.00	.30	15.00	>2.0	2,000	N	500	700	<200	20	N	200
SH04529A	44 14 29	71 11 12	1.00	.70	20.00	>2.0	5,000	N	5,000	500	200	N	N	100

See footnotes at end of table.

Table 2 cont.

Sample	W	Sn	Th	Be	U	La	Y	Bi	Cu	Pb	Zn	Mo	Sc	V
SH04426A	<100	200	N	7	500	200	200	N	N	50	N	N	N	700
SH03808A	N	>2,000	300	15	200	1,000	500	N	<10	50	N	N	N	200
SH03727A	1,000	150	N	10	200	700	300	N	10	20	N	20	N	200
SH04427A	<100	500	N	2	1,000	300	100	N	10	20	N	N	N	1,000
SH04305A	500	>2,000	300	7	700	700	500	N	20	70	N	10	N	200
SH05239A	N	50	N	3	300	1,500	500	N	150	70	N	<10	30	300
SH03785A	N	150	N	300	200	300	300	N	N	50	N	N	N	300
SH05238A	N	30	N	10	200	300	200	N	70	50	N	N	30	500
SH04174A	N	150	N	7	300	1,500	700	N	N	50	N	30	N	300
SH04173A	N	50	N	7	300	1,000	500	N	70	70	N	10	N	300
SH03797A	N	20	500	10	200	500	300	20	20	70	N	N	20	500
SH05237A	N	N	N	7	200	700	150	N	70	100	N	N	30	300
SH03109A	N	>2,000	500	200	300	500	500	500	20	100	N	N	N	200
SH03800A	N	N	N	100	500	300	200	N	N	50	N	<10	20	500
SH04523A	2,000	50	N	300	700	100	100	N	N	30	N	N	N	500
SH03777A	N	200	N	20	150	200	150	N	15	30	N	N	N	300
SH03239A	500	500	N	10	150	150	150	N	70	100	N	N	N	300
SH03775A	N	50	N	10	500	200	150	N	<10	50	N	N	N	300
SH03241A	2,000	70	500	5	200	500	300	N	N	30	N	20	10	300
SH03966A	<100	30	N	500	150	200	300	N	N	50	N	N	N	300
SH03969A	200	150	N	500	500	150	300	20	<10	50	N	N	N	500
SH04171A	N	50	N	10	200	700	500	N	N	50	N	15	N	200
SH04306A	1,500	1,000	200	200	300	1,000	500	N	<10	50	N	100	N	200
SH03677A	700	500	N	5	150	700	500	N	50	30	N	10	50	200
SH03774A	N	20	N	700	300	700	200	N	30	50	N	30	30	300
SH04907A	N	>2,000	500	200	200	2,000	700	20	N	70	N	20	N	150
SH05236A	N	50	N	50	200	700	200	N	100	70	N	N	100	300
SH04379A	N	>2,000	500	5	200	1,000	700	N	10	20	N	10	N	150
SH04089A	200	500	N	15	100	300	200	N	10	50	N	<10	N	200
SH04090A	<100	>2,000	1,000	7	200	500	300	N	150	70	N	<10	N	200
SH04533A	N	100	N	10	300	N	100	N	N	50	N	N	N	500
SH03249A	150	300	200	2	300	1,000	500	N	<10	100	N	50	N	500
SH03675A	200	200	N	20	150	300	300	N	<10	N	N	N	N	200
SH03276A	700	50	N	3	70	500	150	N	50	70	N	N	N	300
SH04169A	<100	150	500	5	200	1,500	1,000	N	N	70	N	50	N	200
SH04275A	500	>2,000	N	100	70	150	200	N	10	30	N	N	N	300
SH04274A	N	2,000	N	10	200	150	300	N	10	30	N	N	N	300
SH04703A	100	N	N	5	150	500	200	N	200	100	N	N	N	300
SH04183A	N	50	N	5	100	500	200	N	100	150	N	N	N	300
SH04530A	N	150	N	5	200	100	150	N	N	50	N	N	N	300
SH04271A	<100	20	N	1,500	300	150	300	20	<10	20	N	N	N	300
SH03771A	10/	N	N	150	70	100	100	N	20	700	N	N	10	500
SH04909A	N	1,500	300	10	300	1,000	100	N	30	50	N	10	30	200
SH04272A	N	>2,000	N	20	200	100	150	N	N	20	N	N	N	300
SH04529A	2,000	20	N	10	300	200	200	N	N	50	N	N	N	300

See footnotes at end of table.

Table 2 cont.

Sample	Latitude	Longitude	Fe%	Mg%	Ca%	Ti%	Mn	As	B	Ba	Sr	Co	Ni	Cr
SH04148A	44 14 30	71 38 3	1.50	.30	7.00	>2.0	1,000	N	500	500	300	N	N	150
SH04058A	44 14 36	71 34 30	1.50	.30	10.00	>2.0	1,000	N	150	500	200	50	20	200
SH04056A	44 14 37	71 34 33	1.50	.50	10.00	>2.0	1,000	N	100	500	200	150	N	150
SH03279A	44 14 40	71 59 14	10.00	.70	3.00	>2.0	700	N	700	700	500	150	30	100
SH03296A	44 14 50	71 47 8	1.00	1.50	15.00	>2.0	1,000	N	200	300	500	10	N	200
SH03105A	44 14 53	71 23 28	.50	.15	15.00	>2.0	2,000	N	500	700	<200	N	N	300
SH04278A	44 15 1	71 1 47	1.00	.20	10.00	>2.0	5,000	N	150	700	N	N	N	200
SH05229A	44 15 14	71 57 58	1.50	1.00	5.00	>2.0	1,000	N	200	300	500	50	N	150
SH03769A	44 15 16	71 15 18	2.00	.30	2.00	>2.0	1,000	N	1,000	700	N	N	20	300
SH04934A	44 15 19	71 23 15	.50	.50	10.00	>2.0	1,500	N	2,000	500	N	15	N	300
SH04377A	44 15 21	71 51 1	2.00	.70	10.00	>2.0	1,000	N	200	700	300	10	N	200
SH03763A	44 15 26	71 15 20	1.50	.30	.70	1.5	700	N	1,000	700	N	10	15	150
SH04262A	44 15 27	71 7 1	1.00	.20	3.00	>2.0	1,000	N	1,500	700	N	N	N	100
SH04935A	44 15 42	71 22 57	1.50	.30	15.00	>2.0	1,500	N	300	700	300	20	N	150
SH04061A	44 15 46	71 32 20	1.50	.50	15.00	>2.0	1,500	N	100	500	300	10	N	100
SH03043A	44 15 56	71 24 27	2.00	.70	15.00	>2.0	3,000	N	1,500	700	1,000	N	N	70
SH04055A	44 15 58	71 33 21	1.00	.20	7.00	>2.0	1,000	N	100	500	300	N	N	150
SH03035A	44 16 1	71 26 25	.30	.10	50.00	2.0	7,000	N	70	100	<200	N	15	100
SH04931A	44 16 2	71 21 19	1.50	.70	15.00	>2.0	1,000	N	200	700	200	<10	N	200
SH04224A	44 16 3	71 14 5	3.00	1.00	10.00	>2.0	2,000	N	2,000	700	200	N	N	150
SH04927A	44 16 6	71 22 34	2.00	.70	3.00	>2.0	1,000	N	1,500	700	<200	10	10	150
SH03042A	44 16 7	71 24 50	.70	.20	30.00	>2.0	5,000	N	200	700	300	N	N	200
SH04247A	44 16 8	71 1 35	1.00	.50	15.00	>2.0	1,500	N	100	700	300	N	N	100
SH04026A	44 16 8	71 39 18	1.50	1.00	10.00	>2.0	1,500	N	300	500	700	10	N	150
SH04930A	44 16 14	71 20 54	2.00	.50	5.00	>2.0	1,000	N	700	700	200	<10	10	300
SH04257A	44 16 16	71 7 36	.70	.30	10.00	>2.0	2,000	N	1,500	700	N	N	N	200
SH04063A	44 16 17	71 30 31	1.50	.70	15.00	>2.0	1,500	N	300	500	500	N	N	150
SH04259A	44 16 18	71 7 41	1.00	.50	2.00	>2.0	1,500	N	2,000	1,000	N	N	N	150
SH04041A	44 16 23	71 42 39	1.00	.70	15.00	>2.0	1,000	N	150	300	500	10	N	200
SH05218A ^{11/}	44 16 24	71 55 20	1.50	1.00	7.00	>2.0	1,500	N	300	500	700	N	N	100
SH03962A	44 16 28	71 5 42	1.00	.70	10.00	2.0	3,000	N	1,500	500	N	<10	N	200
SH03059A	44 16 30	71 22 13	.70	.15	10.00	>2.0	1,000	N	200	700	N	N	N	150
SH04372A	44 16 32	71 50 45	3.00	2.00	15.00	>2.0	1,500	N	200	700	1,000	<10	N	200
SH04243A	44 16 38	71 2 4	.70	.20	15.00	>2.0	3,000	N	300	500	N	N	N	150
SH04926A	44 16 38	71 21 19	3.00	.50	20.00	>2.0	2,000	N	1,000	700	500	N	N	150
SH03066A	44 16 42	71 23 54	.50	.15	15.00	>2.0	2,000	N	N	500	N	N	10	70
SH03068A	44 16 42	71 24 17	.70	.15	20.00	>2.0	2,000	N	200	300	200	10	N	100
SH03065A ^{6/}	44 16 43	71 23 58	.70	.15	20.00	>2.0	2,000	N	50	700	200	<10	N	100
SH04244A	44 16 44	71 2 21	1.00	.30	15.00	>2.0	3,000	N	1,000	300	N	N	N	100
SH03067A	44 16 44	71 24 13	.70	.20	20.00	>2.0	1,500	N	N	700	200	10	N	150
SH05215A	44 16 53	71 54 25	2.00	1.00	7.00	>2.0	1,000	<500	200	500	700	15	N	70
SH05214A	44 16 54	71 55 26	3.00	2.00	10.00	>2.0	1,500	N	200	300	700	30	N	100
SH03961A	44 17 2	71 6 25	.70	.20	.15	>2.0	2,000	N	500	700	300	N	N	150
SH04047A	44 17 8	71 38 27	1.00	.20	15.00	>2.0	1,500	N	150	300	<200	10	N	150
SH03073A	44 17 9	71 23 13	.70	.20	15.00	>2.0	2,000	N	500	700	500	N	N	100

See footnotes at end of table.

Table 2 cont.

Sample	W	Sn	Th	Re	Nb	La	Y	g _i	Cu	Pb	Zn	Mo	Sc	V
SH04148A	N	70	200	10	500	1,000	500	N	10	70	N	N	N	300
SH04058A	500	1,500	N	2	300	1,000	700	N	20	70	N	10	N	100
SH04056A	N	70	N	5	300	1,000	500	N	20	50	N	<10	N	100
SH03279A	200	N	N	5	150	300	200	N	150	700	500	N	N	300
SH03296A	N	70	N	150	300	1,000	300	N	N	70	N	20	N	300
SH03105A	N	1,000	N	7	1,000	300	500	N	N	30	N	N	N	500
SH04278A	N	500	N	200	200	300	200	N	<10	50	N	N	N	300
SH05229A	N	100	N	2	100	300	200	N	200	150	N	N	20	700
SH03769A	N	N	N	15	70	300	150	N	15	30	N	N	N	300
SH04934A	100	70	N	2	1,000	500	500	N	N	50	N	N	N	500
SH04377A	N	20	N	5	300	1,000	500	200	20	50	N	15	15	300
SH03763A	N	N	N	150	N	100	50	N	<10	50	N	N	N	200
SH04262A	N	30	N	10	200	100	200	N	N	50	N	N	N	500
SH04935A	N	200	N	20	300	1,000	700	N	150	70	N	N	N	200
SH04061A	300	70	N	2	200	1,500	1,000	N	20	30	N	N	20	300
SH03043A	N	20	N	3	200	500	500	N	10	50	N	N	N	150
SH04055A	100	200	N	7	300	1,000	500	N	10	50	N	N	N	300
SH03053A	N	1,000	N	7	50	700	2,000	N	N	30	N	N	N	30
SH04931A	N	100	N	30	300	500	300	N	N	70	N	N	N	200
SH04224A	100	20	N	20	200	300	500	<20	<10	70	N	N	N	500
SH04927A	N	N	N	150	100	200	200	50	10	30	N	N	N	200
SH03042A	N	20	<200	10	100	1,000	300	100	<10	70	N	N	N	300
SH04247A	N	50	200	N	150	1,000	700	200	N	100	N	N	N	200
SH04026A	100	200	N	10	300	1,000	200	N	<10	70	N	20	N	300
SH04930A	N	50	N	20	100	200	150	N	70	70	N	N	N	300
SH04257A	N	70	N	1,000	500	200	500	N	N	70	N	N	N	500
SH04063A	N	200	N	10	300	1,500	700	N	10	70	N	<10	N	150
SH04259A	N	50	N	5	500	300	100	N	N	30	N	N	N	500
SH04041A	700	200	200	5	300	2,000	300	N	50	700	N	50	N	500
SH05218A ^{11/}	500	>2,000	N	5	100	200	200	N	200	10,000	N	N	10	500
SH03962A	N	N	N	300	100	70	300	N	<10	20	N	N	N	150
SH03059A	<100	20	200	100	150	500	300	2,000	<10	70	N	N	N	200
SH04372A	N	N	N	10	100	200	150	N	10	50	N	N	20	300
SH04243A	N	1,500	200	3	150	100	1,000	<20	<10	70	N	N	N	150
SH04926A	N	20	N	20	150	1,500	1,000	150	15	70	N	N	20	300
SH03066A	N	50	200	5	200	2,000	500	N	N	70	N	N	N	300
SH03068A	<100	200	N	10	300	1,000	700	50	<10	70	N	N	10	300
SH03065A ^{6/}	200	20	200	10	150	1,000	1,000	N	N	70	N	N	N	200
SH04244A	700	1,500	N	200	500	300	700	N	<10	50	N	N	N	200
SH03067A	500	30	1,000	100	200	1,500	500	N	10	70	N	N	N	300
SH05215A	100	20	N	5	100	100	150	N	20	20	N	N	N	200
SH05214A	300	N	N	2	100	150	150	N	10	100	N	N	20	700
SH03961A	500	150	N	1,000	300	70	300	N	N	50	N	N	N	200
SH04047A	N	100	N	<2	500	2,000	1,000	N	20	50	N	10	20	100
SH03073A	<100	20	200	100	100	1,000	500	N	<10	70	N	N	N	300

See footnotes at end of table.

Table 2 cont.

Sample	Latitude	Longitude	Fe%	Mg%	Ca%	Ti%	Mn	As	B	Ba	Sr	Co	Ni	Cr
SH03074A	44 17 10	71 23 15	.70	.50	20.00	>2.0	3,000	N	200	500	300	<10	N	100
SH03011A	44 17 15	71 27 54	.70	.15	15.00	>2.0	2,000	N	<20	300	200	N	N	150
SH03058A	44 17 18	71 21 16	1.00	.20	10.00	>2.0	1,500	N	300	700	200	N	N	150
SH04505A	44 17 27	71 12 30	.70	.20	15.00	>2.0	5,000	N	500	700	200	N	N	200
SH04602A	44 17 37	71 14 14	1.00	.15	3.00	2.0	1,000	N	200	300	N	N	N	200
SH04921A	44 17 37	71 20 25	2.00	.50	5.00	>2.0	1,000	N	500	700	N	10	N	150
SH04922A	44 17 41	71 20 27	3.00	.50	15.00	>2.0	2,000	N	1,500	700	300	<10	N	100
SH04065A	44 17 45	71 32 26	1.00	.20	15.00	>2.0	1,500	N	70	700	200	10	N	150
SH04772A	44 17 51	71 15 35	1.00	.20	3.00	>2.0	700	N	2,000	700	200	N	N	150
SH03934A	44 17 53	71 3 31	1.50	.50	15.00	>2.0	1,500	N	150	700	N	N	N	100
SH04605A	44 17 53	71 14 33	1.50	.20	2.00	>2.0	500	N	200	300	N	<10	N	200
SH04085A	44 18 0	71 59 14	1.50	1.00	7.00	>2.0	500	N	300	500	700	N	N	200
SH04509A	44 18 4	71 13 16	.70	.50	20.00	>2.0	5,000	N	1,000	700	300	N	N	300
SH03956A	44 18 7	71 4 54	1.00	.20	15.00	>2.0	2,000	N	300	700	200	<10	N	150
SH05232A	44 18 8	71 56 15	1.50	1.50	7.00	>2.0	1,500	N	300	500	700	N	N	150
SH04763A	44 18 12	71 17 21	1.00	.30	15.00	>2.0	1,500	N	2,000	700	700	N	N	200
SH04084A	44 18 13	71 59 26	2.00	1.50	10.00	>2.0	1,500	N	200	700	700	N	N	200
SH04764A	44 18 17	71 17 18	1.50	.50	2.00	>2.0	700	N	700	700	200	N	20	100
SH04611A	44 18 21	71 14 11	2.00	.70	2.00	2.0	700	N	300	700	<200	10	N	300
SH04767A	44 18 21	71 15 45	1.50	.20	1.00	>2.0	700	N	1,500	700	N	N	N	150
SH04232A	44 18 30	71 13 13	3.00	1.00	15.00	>2.0	3,000	N	2,000	700	200	10	N	150
SH04070A	44 18 35	71 31 16	1.50	.30	15.00	>2.0	1,000	N	70	700	500	10	N	150
SH03951A	44 18 41	71 7 7	1.00	.30	15.00	>2.0	2,000	N	1,000	500	300	N	N	200
SH03950A	44 18 43	71 7 6	.70	.20	15.00	>2.0	2,000	N	700	700	N	N	N	150
SH04356A	44 18 46	71 32 37	1.00	.50	5.00	>2.0	700	N	150	500	200	N	N	150
SH04034A	44 18 59	71 43 36	2.00	1.50	15.00	>2.0	1,500	N	300	700	700	15	20	200
SH03037A	44 19 0	71 21 46	2.00	.50	3.00	2.0	1,500	N	150	1,000	200	N	N	200
SH04081A	44 19 1	71 59 3	1.00	1.00	10.00	>2.0	1,000	N	150	500	700	10	N	200
SH03076A	44 19 10	71 25 30	.50	.15	15.00	>2.0	1,000	N	N	200	300	<10	N	100
SH04357A	44 19 10	71 33 26	.70	.20	2.00	>2.0	1,000	N	70	500	200	N	N	150
SH03077A	44 19 11	71 25 28	.70	.15	20.00	>2.0	1,500	N	N	500	300	<10	N	100
SH04519A	44 19 20	71 1 19	2.00	.50	10.00	>2.0	2,000	N	300	500	N	15	N	200
SH04252A	44 19 20	71 4 15	2.00	.50	7.00	>2.0	3,000	N	100	700	N	10	N	200
SH04222A	44 19 23	71 13 0	1.00	.50	20.00	>2.0	5,000	N	1,000	700	300	N	N	150
SH03062A	44 19 23	71 24 43	.70	.15	15.00	>2.0	2,000	N	N	300	700	10	N	100
SH04251A	44 19 24	71 4 8	.70	.15	7.00	>2.0	2,000	N	150	500	N	N	N	300
SH03063A	44 19 25	71 24 37	.50	.10	20.00	>2.0	1,000	N	N	150	500	N	N	100
SH04521A	44 19 32	71 2 2	.70	.20	15.00	>2.0	5,000	N	150	700	N	10	N	300
SH03055A	44 19 34	71 23 23	.50	.10	15.00	>2.0	1,000	N	20	200	300	N	N	100
SH03016A	44 19 34	71 27 32	1.00	.20	20.00	>2.0	1,500	N	70	700	700	N	N	70
SH03017A	44 19 38	71 27 35	.70	.15	15.00	>2.0	1,000	N	100	200	500	<10	N	150
SH03941A	44 19 40	71 5 25	.70	.20	15.00	>2.0	2,000	N	300	500	300	N	N	150
SH03931A	44 19 42	71 2 40	.70	.50	15.00	>2.0	3,000	N	300	700	200	N	N	100
SH03940A	44 19 43	71 5 24	2.00	.20	10.00	1.0	2,000	N	1,000	700	200	<10	10	200
SH04076A12/	44 19 48	71 56 11	10.00	1.00	7.00	>2.0	1,000	3,000	1,000	300	700	1,000	100	100

See footnotes at end of table

Table 2 cont.

Sample	W	Sn	Th	Ge	Nb	La	Y	Bi	Cu	Pb	Zn	Mo	Sc	V
SH03074A	<100	150	N	100	200	1,500	300	150	N	70	N	N	N	300
SH03011A	<100	70	700	2	150	1,500	700	N	<10	70	N	30	N	200
SH03058A	300	N	700	20	150	500	300	N	10	50	N	N	N	200
SH04505A	N	30	N	200	500	200	500	N	<10	50	N	N	N	500
SH04602A	700	150	N	300	70	200	200	N	N	50	N	N	N	200
SH04921A	150	N	N	20	100	300	200	N	10	50	N	N	N	300
SH04922A	N	N	N	10	150	1,000	700	300	10	70	N	N	15	300
SH04065A	500	200	N	10	200	1,000	1,000	N	<10	30	N	70	N	300
SH04772A	N	150	200	20	100	300	150	N	<10	30	N	N	N	300
SH03934A	N	20	N	300	100	150	200	<20	10	20	N	N	N	300
SH04605A	N	2,000	N	500	50	50	100	N	N	30	N	N	N	200
SH04085A	200	70	N	10	150	150	200	N	<10	50	N	N	N	200
SH04509A	<100	70	N	100	700	300	200	N	<10	70	N	N	N	500
SH03956A	N	N	N	10	200	200	500	N	<10	30	N	N	N	300
SH05232A	N	20	N	3	150	150	200	N	50	50	N	N	N	500
SH04763A	N	100	N	15	150	1,000	300	N	30	50	N	N	N	700
SH04084A	300	50	N	10	100	100	150	N	10	50	N	N	N	300
SH04764A	N	<20	N	15	100	100	100	N	<10	50	N	N	N	700
SH04611A	N	50	N	700	70	150	150	N	N	50	N	N	N	300
SH04767A	N	N	N	20	70	200	100	N	20	20	N	N	N	300
SH04232A	N	20	N	5	200	300	500	N	<10	50	N	N	N	500
SH04070A	300	30	N	2	100	1,500	700	100	<10	30	N	<10	N	300
SH03951A	N	70	N	10	150	200	500	N	N	70	N	N	N	200
SH03950A	N	100	N	20	200	100	500	N	N	50	N	N	N	300
SH04356A	150	>2,000	N	5	50	500	300	150	10	700	N	N	N	150
SH04034A	300	N	N	10	150	300	150	N	10	20	N	N	N	300
SH03037A	N	20	N	20	100	200	200	N	10	50	N	N	N	200
SH04081A	<100	100	N	7	150	100	200	N	10	30	N	N	N	150
SH03076A	100	20	700	2	100	1,500	500	50	<10	20	N	N	N	200
SH04357A	<100	150	N	2	70	1,500	1,000	N	10	30	N	10	N	200
SH03077A	<100	20	500	2	150	2,000	700	N	N	50	N	N	N	200
SH04519A	N	50	N	3	500	500	500	N	15	30	N	N	N	200
SH04252A	N	2,000	N	300	300	70	200	N	20	50	N	N	20	500
SH04222A	1,000	20	N	10	500	700	300	N	<10	70	N	N	N	300
SH03062A	300	150	500	2	150	1,000	500	1,000	<10	70	N	N	<10	200
SH04251A	100	>2,000	700	200	200	100	500	>2,000	20	300	N	N	20	500
SH03063A	200	20	500	N	150	1,000	500	N	10	20	N	N	N	200
SH04521A	N	100	N	200	300	500	500	200	<10	50	N	N	N	500
SH03055A	200	70	500	3	50	500	700	200	N	20	N	70	N	150
SH03016A	300	70	200	3	300	1,500	500	N	<10	50	N	N	N	150
SH03017A	300	100	200	5	150	700	500	N	N	50	N	N	N	300
SH03941A	500	200	<200	100	150	200	700	N	<10	100	N	N	N	300
SH03931A	N	50	N	200	300	300	300	N	N	70	N	N	N	300

See footnotes at end of table.

Table 2 cont.

SH03940A	N	N	10	N	150	300	50	N	50	N	30	150
SH04076A	N	N	7	100	200	150	N	100	2,000	N	20	300

See footnotes at end of table.

Table 2 cont.

Sample	Latitude	Longitude	FeZ	MgZ	CaZ	TiZ	Mn	As	B	Ba	Sr	Co	Ni	Cr
SH04075A	44 19 49	71 55 15	1.00	1.50	15.00	>2.0	1,000	N	500	200	1,000	N	N	300
SH04220A	44 19 50	71 13 53	2.00	.50	3.00	>2.0	700	N	200	700	<200	10	N	100
SH04910A	44 19 54	71 22 12	1.00	.20	15.00	>2.0	1,500	N	150	500	500	<10	N	100
SH04032A	44 20 5	71 42 26	2.00	1.50	10.00	>2.0	1,500	N	300	500	500	N	N	150
SH03022A	44 20 11	71 23 28	.70	.20	10.00	>2.0	2,000	N	200	200	200	N	N	70
SH04073A	44 20 20	71 53 25	1.00	1.00	15.00	>2.0	1,000	N	200	500	700	N	N	200
SH04615A	44 20 24	71 9 34	.50	.20	30.00	>2.0	5,000	N	200	500	200	N	N	150
SH04229A	44 20 24	71 12 50	1.00	.30	10.00	>2.0	2,000	N	100	700	300	N	N	70
SH04634A	44 20 31	71 12 2	.50	.15	15.00	>2.0	2,000	N	200	300	N	N	N	70
SH03003A	44 20 44	71 27 25	.70	.30	30.00	>2.0	1,000	N	150	300	500	N	N	150
SH03020A	44 20 46	71 23 33	1.00	.20	20.00	>2.0	3,000	N	N	500	700	N	N	70
SH03002A	44 20 46	71 27 23	.50	.20	20.00	>2.0	1,500	N	70	500	500	N	N	100
SH04919A	44 20 47	71 20 31	2.00	.50	5.00	2.0	1,000	N	200	1,000	200	10	15	300
SH04918A	44 20 49	71 20 29	2.00	.15	1.50	2.0	1,000	N	200	200	N	N	N	150
SH03926A	44 20 57	71 0 48	.70	.50	20.00	>2.0	5,000	N	2,000	500	200	N	N	70
SH04970A	44 21 1	71 18 11	10.00	1.50	7.00	>2.0	1,500	N	1,000	700	200	50	70	150
SH04969A	44 21 7	71 18 0	1.00	.50	3.00	>2.0	1,000	N	200	700	200	15	N	200
SH04629A	44 21 13	71 11 51	.70	.20	15.00	>2.0	1,500	N	70	300	300	N	N	100
SH04338A	44 21 17	71 32 39	1.00	.50	15.00	>2.0	2,000	N	70	1,000	700	N	N	50
SH04023A	44 21 18	71 40 31	1.50	.70	10.00	>2.0	1,500	N	500	500	700	N	N	150
SH04975A	44 21 25	71 20 26	3.00	2.00	15.00	>2.0	3,000	N	150	700	1,000	20	15	150
SH04216A	44 21 35	71 14 45	1.00	.50	2.00	2.0	500	N	150	500	N	N	N	100
SH04622A	44 21 38	71 10 43	1.00	.20	15.00	>2.0	5,000	5,000	200	500	N	N	N	150
SH04366A	44 21 38	71 48 5	1.50	2.00	10.00	>2.0	1,000	N	200	300	700	<10	N	300
SH04035A	44 21 47	71 43 55	2.00	1.50	15.00	>2.0	1,500	N	500	700	700	N	N	150
SH03046A	44 21 51	71 27 24	1.00	.20	30.00	>2.0	2,000	N	50	500	700	10	N	20
SH04966A	44 21 53	71 15 8	3.00	2.00	15.00	>2.0	2,000	N	500	1,000	700	15	50	200
SH04750A	44 21 57	71 16 8	2.00	.30	5.00	>2.0	1,000	N	500	700	<200	<10	N	100
SH04960A	44 21 57	71 19 27	3.00	1.50	15.00	>2.0	3,000	N	200	1,000	2,000	10	50	100
SH04626A	44 21 59	71 10 27	.30	.05	20.00	>2.0	5,000	N	N	100	N	N	N	50
SH04968A	44 22 1	71 17 34	10.00	1.50	7.00	>2.0	1,500	N	2,000	1,000	500	70	50	150
SH03919A	44 22 10	71 3 51	1.50	.30	15.00	2.0	300	N	300	500	200	N	N	150
SH04007A	44 22 11	71 42 33	1.50	1.50	10.00	>2.0	1,500	N	300	500	700	10	N	300
SH03761A	44 22 12	71 2 23	2.00	.20	15.00	>2.0	2,000	N	200	500	<200	15	30	300
SH03929A	44 22 12	71 3 51	1.00	.50	10.00	>2.0	3,000	N	1,500	500	200	N	N	100
SH03762A	44 22 13	71 2 24	1.50	.50	10.00	>2.0	2,000	N	500	700	N	10	N	300
SH04637A	44 22 22	71 10 48	.20	.05	5.00	>2.0	1,000	N	N	150	N	N	N	N
SH03901A	44 22 31	71 6 32	1.00	.20	15.00	2.0	3,000	N	100	700	200	N	N	100
SH03902A	44 22 31	71 6 32	1.50	.50	15.00	>2.0	3,000	N	300	2,000	N	N	50	200
SH03913A	44 22 33	71 1 13	.70	.20	20.00	>2.0	3,000	N	150	700	200	10	N	200
SH04003A	44 22 44	71 43 44	3.00	1.50	15.00	>2.0	2,000	N	150	>10,000	700	N	N	200
SH04206A	44 23 3	71 8 17	.50	.10	10.00	>2.0	1,000	N	200	300	N	N	N	100
SH04213A	44 23 3	71 13 15	.70	.20	20.00	>2.0	2,000	N	100	500	200	N	50	100
SH04207A	44 23 4	71 8 39	.70	.20	15.00	>2.0	5,000	N	50	500	N	10	N	150
SH04756A	44 23 9	71 17 58	.70	.15	15.00	>2.0	700	N	70	300	300	N	N	70

See footnotes at end of table.

Table 2 cont.

Sample	W	Sn	Th	Re	Nb	La	Y	Bi	Cu	Pb	Zn	Mo	Sc	V
SH04075A	150	20	N	2	200	300	300	N	<10	50	N	N	N	300
SH04220A	N	30	N	150	70	150	150	N	10	70	N	N	N	300
SH04910A	N	150	500	N	200	2,000	700	20	N	70	N	N	N	200
SH04032A	<100	50	N	20	200	700	300	N	10	50	N	N	N	300
SH03022A	N	1,500	500	100	200	700	500	N	<10	70	N	N	N	200
SH04073A	N	N	N	7	100	150	200	N	10	20	N	N	N	200
SH04615A	100	500	N	7	70	500	700	N	<10	200	N	N	N	150
SH04229A	N	N	N	7	50	1,000	300	N	<10	70	N	N	N	300
SH04634A	N	70	N	50	70	500	500	N	N	30	N	N	N	150
SH03003A	500	100	500	3	100	1,000	500	200	10	50	N	N	N	200
SH03020A	200	30	500	<2	300	2,000	700	N	<10	50	N	N	N	100
SH03002A	200	70	1,500	2	200	1,000	500	N	<10	100	N	N	N	200
SH04919A	200	N	N	20	70	500	300	N	<10	70	N	N	N	300
SH04918A	N	>2,000	500	2	300	1,000	2,000	N	N	70	N	N	N	150
SH03926A	N	300	N	300	500	300	700	N	<10	70	N	N	N	300
SH04970A	N	70	N	50	150	500	150	N	50	50	N	N	30	500
SH04969A	<100	50	N	150	150	700	200	30	10	70	N	N	20	500
SH04629A	100	70	<200	5	200	1,500	500	N	<10	70	N	N	N	200
SH04338A	N	N	N	2	150	2,000	500	N	10	70	N	N	N	150
SH04023A	N	N	N	10	100	300	150	N	<10	20	N	N	N	200
SH04975A	N	20	N	5	200	1,000	500	100	20	70	1,000	N	N	300
SH04216A	N	N	N	200	<50	70	150	100	50	20	N	N	N	200
SH04622A	300	200	500	5	150	500	700	N	N	70	N	N	70	150
SH04366A	N	N	N	200	150	300	200	N	N	20	N	N	N	200
SH04035A	N	70	1,500	15	200	300	200	N	10	70	N	N	N	500
SH03046A	<100	150	200	<2	500	2,000	500	N	N	70	N	20	N	150
SH04966A	N	N	<200	10	150	700	200	N	15	50	N	N	30	300
SH04750A	N	70	<200	15	150	1,000	200	30	<10	100	N	N	N	300
SH04960A	N	N	N	2	200	1,000	200	N	<10	30	N	10	30	300
SH04626A	N	1,500	300	10	N	1,000	1,500	50	N	30	N	N	N	<20
SH04968A	N	50	N	30	150	500	100	N	50	70	N	N	30	300
SH03919A	N	70	N	200	150	200	500	N	<10	50	N	N	N	100
SH04007A	N	50	300	10	200	500	200	N	10	30	N	10	N	500
SH03761A	<100	100	N	2	500	500	700	N	20	50	N	<10	30	700
SH03920A	N	20	N	7	300	100	500	N	20	70	N	N	N	500
SH03762A	N	1,500	700	3	200	2,000	1,000	N	10	200	N	10	30	300
SH04637A	N	1,000	200	<2	50	500	1,000	20	N	50	N	70	70	300
SH03901A	N	N	700	10	100	150	700	N	N	50	N	N	N	150
SH03902A	<100	700	300	7	150	200	500	N	50	100	N	N	N	200
SH03913A	N	100	N	200	300	500	700	N	N	70	N	N	N	500
SH04003A	N	30	N	10	200	150	300	N	N	50	N	10	N	300
SH04206A	N	500	1,000	100	100	700	2,000	N	N	70	N	N	N	100
SH04213A	N	70	200	2	150	1,000	1,000	N	<10	70	N	N	N	150
SH04207A	100	150	700	200	150	500	1,000	N	10	30	N	N	N	150
SH04756A	N	20	200	<2	50	1,500	500	N	N	20	N	N	N	200

See footnotes at end of table.

Table 2 cont.

Sample	Latitude	Longitude	Fe%	Mg%	Ca%	Ti%	Mn	As	B	Ba	Sr	Co	Ni	Cr
SH04404A	44 23 9	71 24 55	2.00	1.50	20.00	>2.0	2,000	N	200	700	1,000	10	10	150
SH04017A	44 23 9	71 39 6	1.50	1.50	15.00	>2.0	1,500	N	200	500	500	10	N	150
SH04754A	44 23 12	71 17 45	.70	.15	10.00	>2.0	1,000	N	70	150	200	10	N	70
SH04201A	44 23 16	71 7 31	.50	.10	10.00	>2.0	1,500	N	50	150	N	N	N	70
SH04211A	44 23 18	71 11 27	.20	.05	3.00	>2.0	700	N	N	150	N	N	N	50
SH03908A	44 23 21	71 4 41	.70	.50	30.00	>2.0	3,000	N	150	500	N	N	N	150
SH04984A	44 23 33	71 9 11	5.00	2.00	10.00	>2.0	5,000	N	150	500	200	30	50	150
SH04406A	44 23 34	71 24 8	1.50	.50	15.00	>2.0	1,000	N	50	700	700	10	N	150
SH04416A	44 23 35	71 22 39	5.00	2.00	15.00	>2.0	1,500	N	100	700	1,500	50	70	200
SH04982A	44 23 36	71 10 29	1.00	.15	15.00	>2.0	2,000	N	70	300	N	<10	N	70
SH04414A	44 23 41	71 23 14	5.00	2.00	15.00	>2.0	3,000	N	300	500	1,000	20	50	200
SH04985A	44 23 44	71 8 8	1.00	.20	15.00	>2.0	3,000	N	100	200	200	N	N	70
SH04981A	44 24 6	71 11 13	5.00	2.00	15.00	>2.0	5,000	N	200	300	300	50	30	200
SH04422A	44 24 6	71 21 18	.50	.10	15.00	>2.0	700	N	150	300	300	N	N	20
SH04418A	44 24 10	71 21 33	.50	.15	7.00	>2.0	2,000	N	150	200	200	N	N	200
SH04944A	44 24 11	71 14 53	1.00	.20	20.00	>2.0	2,000	N	50	300	300	10	N	150
SH04420A	44 24 12	71 21 23	.70	.15	10.00	>2.0	700	N	N	700	200	N	N	50
SH04942A	44 24 13	71 15 1	1.00	.10	20.00	>2.0	1,000	N	N	200	300	N	N	70
SH03879A	44 24 19	71 25 24	1.00	.20	10.00	>2.0	700	N	20	300	200	N	N	100
SH04423A	44 24 21	71 20 25	.50	.10	15.00	>2.0	2,000	N	N	200	200	N	N	30
SH04012A	44 24 25	71 38 9	1.50	.50	7.00	>2.0	1,000	N	100	700	300	15	N	200
SH04010A	44 24 38	71 41 18	1.00	1.50	10.00	>2.0	1,500	N	200	700	500	N	N	200
SH04941A	44 24 42	71 14 42	.70	.15	15.00	>2.0	1,000	N	N	300	200	N	N	100
SH04980A	44 24 59	71 11 22	5.00	2.00	10.00	>2.0	7,000	N	100	200	200	50	30	200
SH04334A	44 25 11	71 38 29	3.00	2.00	15.00	>2.0	3,000	N	300	1,000	1,000	15	N	200
SH04936A	44 25 22	71 14 34	1.00	.30	15.00	>2.0	1,000	N	200	500	200	N	N	150
SH03885A	44 25 23	71 28 45	2.00	.30	10.00	>2.0	1,000	N	150	700	700	N	N	100
SH04937A	44 25 28	71 14 34	1.00	.10	10.00	>2.0	700	N	100	200	N	N	N	50
SH04938A	44 25 28	71 14 37	20.00	.15	10.00	>2.0	1,000	N	50	500	200	15	N	N
SH04977A	44 25 37	71 11 25	5.00	3.00	15.00	>2.0	5,000	N	50	300	300	30	50	150
SH04321A	44 25 44	71 31 50	1.50	1.00	15.00	>2.0	1,500	N	N	700	500	10	N	70
SH04317A	44 26 58	71 31 17	.70	.20	3.00	>2.0	500	N	100	700	N	N	N	50
SH04326A	44 27 16	71 32 11	1.50	.70	15.00	>2.0	1,000	N	70	700	1,000	30	N	150
SH04330A	44 28 18	71 36 20	1.50	.50	15.00	>2.0	1,000	N	150	500	500	70	N	300
SH04328A	44 28 34	71 35 16	2.00	1.00	15.00	>2.0	3,000	N	200	1,000	1,500	20	10	100
SH04745A	44 28 46	71 6 9	5.00	2.00	10.00	2.0	3,000	N	500	300	200	30	50	150
SH04948A	44 28 56	71 12 9	5.00	3.00	15.00	>2.0	5,000	N	100	5,000	N	15	30	200
SH04955A	44 28 58	71 8 41	5.00	5.00	15.00	>2.0	7,000	N	700	2,000	200	70	100	300
SH04748A	44 29 4	71 4 35	7.00	2.00	10.00	2.0	3,000	N	300	150	N	50	70	200
SH04946A	44 29 49	71 13 32	3.00	2.00	15.00	>2.0	5,000	N	300	300	N	20	N	150
SH05193A	44 30 32	71 17 34	.70	.07	15.00	>2.0	2,000	N	N	150	N	<10	N	N
SH05189A	44 30 34	71 20 17	1.50	.30	3.00	>2.0	1,000	N	N	150	200	10	N	100
SH05191A	44 30 50	71 18 13	1.50	.20	5.00	>2.0	700	N	150	200	200	20	N	150
SH05171A	44 31 25	71 34 26	.50	.15	10.00	>2.0	700	N	300	300	500	10	N	200
SH05196A	44 31 57	71 17 32	1.00	.20	3.00	>2.0	700	N	150	200	N	N	N	100

See footnotes at end of table.

Table 2 cont.

Sample	W	Sn	Th	Be	Nb	La	Y	Bi	Cu	Pb	Zn	Mo	Sc	V
SH04404A	N	20	N	N	200	1,500	500	N	N	50	N	10	N	300
SH04017A	200	70	N	7	150	500	200	N	10	70	N	<10	N	300
SH04754A	N	70	500	2	150	2,000	500	150	10	100	N	N	50	300
SH04201A	N	500	500	<2	50	300	1,000	N	N	30	N	N	N	150
SH04211A	N	2,000	300	2	50	300	1,000	N	N	300	N	N	N	N
SH03908A	N	200	N	7	300	300	1,000	N	<10	30	N	<10	N	200
SH04984A	N	500	700	20	500	2,000	500	N	70	70	N	<10	15	200
SH04406A	N	N	N	N	100	1,000	500	200	N	30	N	N	N	300
SH04416A	N	N	N	2	100	1,000	200	N	10	20	N	N	100	500
SH04982A	N	200	500	7	200	1,000	700	N	10	100	15,000	N	N	150
SH04414A	N	N	<200	2	100	1,000	300	N	N	20	N	N	100	300
SH04985A	N	50	N	150	150	1,000	700	N	N	30	N	N	N	200
SH04981A	N	700	500	15	300	2,000	500	N	150	70	N	N	20	200
SH04422A	N	100	200	<2	50	1,500	500	N	N	20	N	N	N	200
SH04418A	N	300	500	<2	200	2,000	500	N	N	70	N	30	N	300
SH04944A	N	150	N	2	150	2,000	1,000	N	N	70	1,000	15	N	300
SH04420A	N	200	500	<2	50	2,000	700	N	N	30	N	30	N	200
SH04942A	N	100	N	7	200	2,000	700	N	10	100	N	15	N	300
SH03879A	<100	20	200	<2	50	1,500	1,000	N	N	20	N	20	N	200
SH04423A	N	150	<200	<2	200	2,000	500	N	N	70	N	30	N	300
SH04012A	700	150	N	5	150	500	200	N	10	30	N	30	N	300
SH04010A	300	70	<200	7	200	200	200	N	N	30	N	10	N	300
SH04941A	N	200	300	2	300	1,500	1,000	N	N	70	N	10	N	100
SH04980A	N	300	1,000	2	300	>2,000	500	150	20	70	N	N	20	200
SH04334A	N	50	N	<2	200	700	300	N	20	100	N	N	N	200
SH04936A	N	70	200	5	150	1,000	1,000	N	N	70	N	<10	N	200
SH03885A	N	150	500	<2	100	1,000	700	N	N	50	N	N	N	300
SH04937A	N	100	700	1,000	100	1,000	2,000	N	N	70	N	N	N	100
SH04938A	N	100	300	5	200	1,000	1,000	N	3,000	150	N	N	N	200
SH04977A	N	N	N	50	300	1,000	700	N	200	30	N	N	10	300
SH04321A	N	50	N	N	300	2,000	500	N	<10	30	N	N	N	300
SH04317A	N	100	1,000	N	50	1,000	>5,000	N	<10	50	N	N	15	200
SH04326A	100	700	N	<2	100	700	200	N	30	1,000	N	20	N	500
SH04330A	N	70	N	3	200	1,000	500	N	20	70	N	10	N	150
SH04328A	100	70	N	2	300	1,500	300	N	20	50	N	20	N	500
SH04745A	<100	50	N	10	200	300	100	N	100	30	N	N	50	500
SH04948A	N	300	200	5	300	2,000	700	N	10	100	N	10	150	500
SH04955A	N	300	200	5	200	1,500	300	N	10	50	1,500	15	150	300
SH04748A	100	500	2,000	2	100	>2,000	500	N	<10	70	700	N	30	300
SH04946A	N	150	700	3	500	2,000	1,000	N	N	70	N	20	50	300
SH05193A	N	1,000	500	N	300	>2,000	2,000	N	N	70	N	30	N	200
SH05188A	<100	>2,000	700	7	200	>2,000	1,500	N	N	70	N	<10	15	150
SH05191A	<100	1,500	500	5	200	1,500	1,000	N	N	15,000	N	10	N	200
SH05171A	N	20	N	5	70	700	300	N	N	50	N	N	N	200
SH05196A	N	2,000	2,000	<2	200	>2,000	1,500	N	10	150	N	N	30	100

See footnotes at end of table.

Table 2 cont.

Sample	Latitude	Longitude	Fe%	Mg%	Ca%	Ti%	Mn	As	B	Ba	Sr	Co	Ni	Cr
SH05198A	44 32 45	71 17 48	2.00	.20	2.00	2.0	700	N	70	150	N	<10	N	150
SH05180A	44 33 8	71 24 40	.70	.10	1.00	>2.0	700	N	100	200	N	N	N	70
SH05177A	44 33 8	71 25 3	.70	.15	3.00	>2.0	700	N	150	150	N	N	N	200
SH05178A	44 33 9	71 25 4	.70	.10	1.00	>2.0	1,000	N	100	150	N	N	N	150
SH05183A	44 33 38	71 23 49	1.00	.20	5.00	>2.0	1,000	N	100	200	N	N	N	200
SH05182A	44 33 44	71 23 41	2.00	.20	5.00	>2.0	2,000	N	100	150	300	N	N	100
SH05204A	44 33 58	71 15 37	50.00	.10	2.00	2.0	500	N	50	200	<200	70	15	70
SH05205A	44 34 14	71 18 44	10.00	.15	1.50	>2.0	500	N	20	100	N	30	N	100
SH05135A	44 38 11	71 24 18	1.00	.15	1.00	>2.0	1,500	N	200	500	N	10	N	150
SH05129A	44 38 16	71 19 56	.70	.20	10.00	>2.0	1,000	N	500	300	<200	N	N	200
SH05117A	44 38 31	71 27 57	1.00	.50	5.00	>2.0	1,500	N	700	500	N	N	N	200
SH05163A	44 38 45	71 32 33	2.00	.30	5.00	>2.0	1,500	N	500	200	<200	N	N	200
SH05128A	44 39 13	71 19 47	1.00	.15	10.00	>2.0	1,500	N	200	700	N	<10	N	150
SH05116A	44 40 0	71 27 25	5.00	.15	1.00	>2.0	500	N	300	300	N	70	50	150
SH05115A	44 40 50	71 26 51	1.50	.70	7.00	>2.0	1,500	N	1,000	700	N	N	N	300
SH05152A	44 40 58	71 33 33	1.50	.70	5.00	>2.0	2,000	N	1,000	300	N	10	N	300
SH05150A	44 41 35	71 35 14	1.50	.20	7.00	>2.0	1,500	N	1,500	300	500	10	N	200
SH05110A	44 42 4	71 23 46	1.00	.20	15.00	>2.0	1,500	N	200	200	N	10	N	150
SH05156A	44 42 30	71 30 15	1.00	.15	3.00	>2.0	1,500	N	1,500	200	N	N	N	70
SH05127A	44 42 47	71 18 38	2.00	.50	7.00	>2.0	1,500	N	1,000	2,000	200	20	N	300
SH05148A	44 43 12	71 35 48	2.00	1.00	15.00	>2.0	1,500	N	2,000	300	<200	15	N	300
SH05102A	44 43 31	71 26 18	1.00	1.00	3.00	>2.0	700	N	1,000	500	<200	10	N	300
SH05103A	44 43 32	71 25 44	1.00	.15	5.00	>2.0	1,500	N	100	700	N	N	N	100
SH05104A	44 43 38	71 25 47	1.00	.15	7.00	>2.0	1,500	N	300	700	N	N	N	150
SH05154A	44 43 42	71 30 28	2.00	1.50	15.00	>2.0	2,000	N	2,000	300	N	15	N	300
SH05153A	44 43 53	71 30 30	.50	.10	2.00	>2.0	1,000	N	700	200	N	10	N	100
SH03890A	44 44 42	71 26 21	.70	.15	1.00	>2.0	700	N	300	300	N	N	N	200
SH05143A	44 44 42	71 35 28	2.00	.20	10.00	>2.0	1,000	N	2,000	300	200	20	50	150
SH05144A	44 44 49	71 35 35	3.00	1.50	10.00	>2.0	2,000	N	5,000	200	200	15	N	200

See footnotes at end of table.

Table 2 cont.

Sample	W	Sn	Th	Be	Nb	La	Y	Bi	Cu	Pb	Zn	Mo	Sc	V
SH05198A	100	100	1,000	100	200	>2,000	1,000	N	N	100	N	20	N	100
SH05180A	N	200	700	2	150	1,500	2,000	N	N	50	N	N	N	100
SH05177A	N	150	700	N	150	1,000	1,000	N	N	30	N	N	N	100
SH05178A	N	>2,000	1,000	2	150	2,000	2,000	N	N	20	N	N	N	150
SH05183A	N	1,000	1,000	<2	300	2,000	1,500	N	N	70	N	N	20	200
SH05182A	N	>2,000	700	5	300	1,000	1,000	N	<10	70	N	<10	20	200
SH05204A	N	1,500	N	5	300	300	300	N	1,000	1,000	N	<10	N	70
SH05205A	N	2,000	1,000	30	200	1,000	1,000	30	2,000	5,000	N	N	N	100
SH05135A	500	2,000	700	7	500	300	1,000	70	N	200	N	300	N	100
SH05129A	<100	1,500	500	10	200	1,500	1,000	N	<10	70	N	20	N	200
SH05117A	100	>2,000	500	5	100	1,000	1,000	N	50	70	N	100	N	100
SH05163A	1,000	200	N	10	100	1,000	200	N	N	300	N	10	10	300
SH05128A	N	300	N	5	150	500	700	N	N	70	N	<10	N	200
SH05116A	<100	>2,000	200	2	200	300	1,000	N	10	50	N	20	N	150
SH05115A	100	200	<200	10	500	500	700	N	N	30	N	70	N	300
SH05152A	150	2,000	1,500	150	500	2,000	1,500	N	<10	200	N	N	N	100
SH05150A	1,500	150	N	5	300	300	500	150	N	70	N	15	N	300
SH05110A	N	2,000	N	150	150	>2,000	1,000	N	<10	1,000	N	30	N	200
SH05156A	300	>2,000	N	2	500	300	1,500	N	N	20	N	500	20	N
SH05127A	100	70	N	5	200	500	300	N	N	70	N	N	N	300
SH05148A	300	2,000	700	5	200	>2,000	700	70	N	100	N	200	N	200
SH05102A	N	70	N	2	70	700	700	N	N	20	N	N	N	100
SH05103A	<100	150	N	3	50	300	1,000	N	N	20	N	20	N	200
SH05104A	N	300	N	5	70	1,000	1,000	100	N	30	N	20	N	150
SH05154A	200	500	700	3	1,000	700	1,500	N	N	70	N	200	N	200
SH05153A	100	200	3,000	5	700	>2,000	2,000	N	N	100	N	150	N	100
SH03890A	N	100	200	2	100	1,500	1,000	50	N	30	N	30	N	50
SH05143A	500	200	500	3	200	1,500	1,000	N	10	50	N	200	N	100
SH05144A	100	500	200	100	700	1,500	1,000	N	N	50	700	50	N	100

Footnotes

1/ Contains 500 ppm Sb.

2/ Contains 1 ppm Ag.

3/ Contains 50 ppm Au.

4/ Contains 100 ppm Au, 10 ppm Ag.

5/ Contains less than 20 ppm Au.

6/ Contains 30 ppm Au.

7/ Contains 500 ppm Au, 20 ppm Ag.

8/ Contains 1000 ppm Sb.

9/ Contains 20 ppm Au, 1 ppm Ag.

10/ Contains 3 ppm Ag.

11/ Contains 200 ppm Sb.

12/ Contains less than 200 ppm Sb.

13/ Contains 1.5 ppm Ag.

Table 3.--Statistical percentile rankings of nonmagnetic-heavy-mineral-concentrate samples from north-central New Hampshire

[Values in ppm unless otherwise noted. Symbols used, <, less than the value shown, >, greater than the value shown.]

	75th	<u>Percentiles</u> 90th	95th	99th
Fe(%)	2	3	5	20
Mg(%)	0.7	1.5	2	3
Ca(%)	15	15	20	30
Ti(%)	>2	>2	>2	>2
Mn	2000	3000	5000	7000
Ag	<1	1	1	1
As	<500	<500	<500	2000
B	700	1500	2000	>5000
Ba	700	700	1000	2000
Be	50	200	300	1000
Bi	<20	30	150	2000
Co	10	30	70	150
Cr	200	300	300	300
Cu	10	50	100	1000
La	1000	2000	>2000	>2000
Mo	<10	20	30	200
Nb	300	500	500	1000
Ni	<10	30	50	100
Pb	70	150	300	2000
Sc	<20	30	30	100
Sn	2000	>2000	>2000	>2000
Sr	300	700	700	1500
V	300	500	500	700
W	150	500	1000	2000
Y	1000	1500	2000	>5000
Zn	<500	<500	<500	1500
Zr	>2000	>2000	>2000	>2000
Th	500	1000	1500	2000

REFERENCES CITED

- 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.
- Motooka, J. M., and Grimes, D. J., 1976, Analytical precision of one-sixth order semiquantitative spectrographic analysis: U.S. Geological Survey Circular 738, 25 p.