

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Chemical analysis of rock, minus-80-mesh
stream-sediment, and magnetic and nonmagnetic
fractions from heavy-mineral concentrate samples
of the Turtle Mountain Wilderness Study Area, (CDCA-307)
San Bernardino County, California

By

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

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Studies Related to Wilderness

Bureau of Land Management Study Areas

The Federal Land Policy and Management Act (Public Law 94-579, October 21, 1976) requires the U.S. Geological Survey and the U.S. Bureau of Mines to conduct mineral surveys on certain areas to determine their mineral resource potential. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a mineral survey of the Turtle Mountain Wilderness Study Area (number 307), California Desert Conservation Area, San Bernardino County, California.

Introduction

A reconnaissance geochemical investigation was undertaken in the Turtle Mountains, in San Bernardino County, California in the spring of 1982 to evaluate the mineral resource potential of the study area. This report includes analytical data for 224 minus-80-mesh (<0.18 mm) stream-sediment samples, 97 outcrop samples, 220 nonmagnetic heavy-mineral-concentrate samples and 221 magnetic heavy-mineral-concentrate samples (tables 1-4), that were collected to aid in the mineral evaluation of this area. Sample collection sites plotted on a topographic map of the area are shown on plate 1.

Location and Geologic Setting

The Turtle Mountain Wilderness Study Area covers an area of 110,900 acres in southeastern California, San Bernardino County within the Needles 2° sheet. The area includes the Chemehuevi valley on the northeast, Vidal valley on the southeast and Ward valley on the west, with the Turtle Mountains trending northward through the central part of the area, and has as much as 2,000 feet of local relief.

The oldest rocks in the area are in a Pre-Cambrian igneous and metamorphic complex, having a southcentral location in the Turtle Mountains. An extensive area of Tertiary volcanic rocks mostly of basaltic composition extends from Negro Peak trending northwesterly to just north of Carson Wells. The valleys to the east of the Turtle Mountains are covered by Pleistocene non-marine sediments. Alluvium covers the western valleys of the study area.

Sample Collection and Preparation

Samples were collected by H. V. Alminas, T. L. Marceau, and W. R. Wilson during March and April of 1982. Access to the sample sites was gained by foot, 4-wheel drive vehicles, or with the aid of a helicopter.

Heavy-mineral-concentrate and stream-sediment samples were collected perpendicular to the stream bed and consisted of a composite of several scoops taken across the active portion of the stream beds. Stream sediment samples were air dried and sieved through a 80-mesh sieve. The minus-80-mesh fraction was ground on ceramic plates in a vertical pulverizer and retained for analysis.

The heavy-mineral concentrates initially consisted of a 10-pound sample which was panned to reduce the percentage of the light minerals and then air-dried. The magnetite was removed using a hand magnet and the remaining nonmagnetic portion was further separated into light and heavy fractions using bromoform (specific gravity 2.85). The mineral fraction having a specific gravity of less than 2.85 was discarded, and the heavy-mineral fraction consisting of minerals having a specific gravity of 2.85 or greater was retained for further separation using a Frantz Isodynamic Magnetic Separator. The Frantz Separator was used with forward and side slope settings of 25° and 15° respectively, and run at 0.2 amperes. The nonmagnetic fraction at the 0.2 ampere setting was again passed through the Frantz Separator at 1.0 ampere and the resulting magnetic and nonmagnetic fractions obtained were retained for microscopic mineral determination and spectrographic analysis after hand-grinding the sample.

Outcrop samples were collected as grab samples and incorporated weathered portions of the outcrop. Rock samples were first crushed and then pulverized to -100 mesh (0.15 mm) in a vertical pulverizer on ceramic plates.

Methods of Analysis

All four sample media were analyzed for 31 elements using a six-step d.c. arc semiquantitative emission spectrographic method (Grimes and Marranzino, 1968) (tables 2-5). Spectrographic values are reported as the approximate midpoints of geometric brackets whose boundaries are 0.825-1.211, 1.211-1.77, 1.77-2.61, 2.61-3.83, 3.83-5.62, 5.62-8.25, or relevant powers of ten of these values. A modification of the method was necessary for the analysis of the heavy-mineral-concentrate samples to eliminate spectral interferences produced by matrix effects characteristic of this sample type. The effect of this modification was a loss of sensitivity resulting in an increase of all lower limits of determination by two reporting intervals.

The six-step emission spectrographic method provides repeatability within one reporting interval of the reported value approximately 88 percent of the time and within two reporting intervals of the reported value approximately 96 percent of the time (Motooka and Grimes, 1976).

In addition, atomic absorption spectrophotometry was used to determine a suite of 7 elements in all outcrop samples (table 6). Those elements analyzed using a fusion technique included Au, Zn, As, Sb, Cd, and Bi (Viets and O'Leary, unpubl.). A listing of the elements analyzed, method of analysis and lower limits of determination appear in table 1.

References

- 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, 3 p.
- VanTrump, George, Jr., and Miesch, A. T., 1977, U.S. Geological Survey RASS-STATPAC system for management and statistical reduction of geochemical data: Computers and Geosciences, v. 3, p. 475-488.

Table 1.--Table showing elements analyzed, analytical methods, and lower limits of determination (Fe, Mg, Ca, and T reported in percent; all other element values reported as parts per million, ppm.)

Analytical method	Element	Outcrop & stream sediment sample		Heavy mineral concentrate	Analytical method	Element	Detection limit
		detection limit	detection limit	detection limit			
← Semiquantitative emission spectroscopy →	Fe	.05		.1	← Atomic Absorption →	Au	.05
	Mg	.02		.05		Hg	.02
	Ca	.05		.1		Zn	5
	Ti	.002		.005		As	5
	Mn	10		20		Sb	1
	Ag	.5		1		Cd	.1
	As	200		500		Bi	2
	Au	10		20			
	B	10		20			
	Ba	20		50			
	Bc	1		2			
	Bi	10		20			
	Cd	20		50			
	Co	5		10			
	Cr	10		20			
	Cu	5		10			
	La	20		50			
	Mo	5		10			
	Nb	20		50			
	Ni	5		10			
	Pb	10		20			
	Sb	100		200			
	Sc			10			
	Sn	10		20			
	Sr	100		200			
	V	10		20			
	W	50		100			
	Y	10		20			
	Zn	200		500			
	Zr			20			
	Th	100		200			

Explanation of Data

Tables 2-5 list sample number, latitude and longitude, and semiquantitative emission spectrographic data. The values listed for Fe, Mg, Ca, and Ti are reported in percent; all other elements are reported in parts per million (ppm). Some values are reported simply as an "N", or are preceded by < ("less than") or > ("greater than"). The symbol N specifies that the element was not detected. The symbol "<" specifies that the element was detected but below the limit of determination. Likewise, the symbol ">" specifies that the detected value was greater than the limit of determination.

Table 6 lists sample number and atomic absorption results from the analysis of outcrop samples. Values are reported in parts per million, those values reported as L indicates a concentration below the limit of detection.

In some cases an element analyzed for may be missing from a table. In those cases the element was omitted from the table because the element was not detected in any of the samples of that particular data set.

The analytical data were entered into and stored in the U.S. Geological Survey computer storage system (RASS) (VanTrump and Miesch, 1977).

Table 2.--Emission spectrographic results for outcrop samples collected in the Turtle Mountain Wilderness Study Area (BLM), San Bernardino County, California.

[Element concentrations reported in parts per million (ppm) except Fe, Mg, Ca, and Ti which are reported in percent. Element concentrations coded with an N, <, or > indicate; not detected, detected but below limit of determination, and greater than upper limit of determination. Latitude and longitude are given in degrees, minutes, and seconds.]

Sample	Latitude	Longitude	Fe-pct. %	Mg-pct. %	Ca-pct. %	Ti-pct. %	Mn-ppm ppm	Ag-ppm ppm	B-ppm ppm	Ba-ppm ppm	Co-ppm ppm	Cr-ppm ppm
82TM001R	34 13 52	114 41 8	1.00	.50	1.0	.10	200	N	<10	1,000	5	10
82TM003R	34 14 51	114 41 23	2.00	1.00	2.0	.20	200	N	<10	1,000	10	50
82TM004R	34 15 29	114 41 11	3.00	1.00	1.0	.20	500	N	20	2,000	10	50
82TM005R	34 16 5	114 41 54	1.00	.50	1.0	.20	200	N	10	1,000	5	10
82TM007R	34 19 13	114 40 46	2.00	1.00	1.0	.50	200	N	20	2,000	10	70
82TM008R	34 19 25	114 44 53	2.00	1.00	1.0	.20	500	N	20	1,500	10	10
82TM009R	34 19 34	114 45 8	5.00	2.00	1.0	.50	1,000	N	10	1,000	30	50
82TM010R	34 19 12	114 45 31	2.00	.50	1.0	.30	500	N	<10	2,000	10	10
82TM013R	34 10 58	114 48 22	1.00	.10	.5	.05	200	N	<10	1,000	N	<10
82TM014R	34 10 51	114 48 38	.50	.05	.2	.01	200	N	<10	500	N	<10
82TM015R	34 11 23	114 48 44	2.00	.50	.5	.20	200	N	<10	1,500	5	10
82TM016R	34 11 38	114 49 11	2.00	1.00	1.0	.30	500	N	<10	1,500	15	10
82TM017R	34 12 12	114 49 57	2.00	.20	.5	.30	200	N	20	1,000	5	10
82TM018R	34 12 23	114 49 50	2.00	.50	.5	.20	500	N	10	1,000	5	10
82TM019R	34 12 58	114 49 28	10.00	1.00	1.0	.50	1,000	N	<10	2,000	10	20
82TM021R	34 12 56	114 48 56	5.00	.50	.1	.50	700	N	10	1,500	5	10
82TM024R	34 12 4	114 47 1	1.00	.20	1.0	.10	200	N	<10	5,000	N	<10
82TM025R	34 12 36	114 47 18	10.00	.10	.1	.20	5,000	N	20	2,000	N	10
82TM026R	34 12 30	114 47 55	2.00	.10	.2	.20	100	N	30	300	5	<10
82TM027R	34 12 33	114 48 2	1.00	.05	1.0	.10	500	N	50	700	N	<10
82TM029R	34 14 34	114 47 55	2.00	.20	.5	.05	200	N	20	700	5	10
82TM032R	34 17 41	114 55 24	1.00	.10	.2	.05	200	N	<10	500	N	<10
82TM038R	34 15 45	114 56 6	3.00	.20	1.0	.20	500	N	<10	500	5	10
82TM040R	34 15 51	114 54 7	2.00	.20	.5	.20	200	N	<10	500	5	10
82TM044R	34 17 22	114 53 35	1.00	.10	.5	.10	100	N	<10	500	N	10
82TM051R	34 17 8	114 52 15	5.00	.50	3.0	.20	2,000	N	<10	500	10	20
82TM052R	34 20 1	114 53 40	10.00	7.00	15.0	>1.00	1,500	N	N	200	70	700
82TM056R	34 19 11	114 52 28	5.00	.15	.2	.10	50	N	15	700	N	<10
82TM063R	34 17 19	114 46 5	5.00	.50	1.0	.50	700	N	30	1,000	10	20
82TM068R	34 8 2	114 46 53	7.00	2.00	5.0	.70	1,500	N	10	1,500	15	10
82TM069R	34 8 26	114 48 13	7.00	3.00	7.0	1.00	2,000	N	<10	1,000	20	20
82TM070R	34 9 36	114 47 47	3.00	1.50	5.0	.70	1,000	N	N	1,000	10	15
82TM071R	34 7 56	114 49 13	10.00	5.00	10.0	1.00	1,500	N	<10	1,500	30	30
82TM073R	34 7 50	114 50 28	5.00	5.00	15.0	.30	2,000	N	10	1,500	5	<10
82TM075R	34 9 24	114 49 58	20.00	7.00	20.0	>1.00	1,500	N	<10	2,000	50	<10
82TM077R	34 10 59	114 51 24	1.50	.20	1.0	.10	1,000	N	10	1,000	N	N
82TM078R	34 11 40	114 51 42	10.00	3.00	10.0	>1.00	3,000	N	30	500	50	70
82TM081R	34 14 5	114 51 38	10.00	2.00	5.0	>1.00	1,500	N	10	5,000	20	100
82TM090R	34 14 31	114 53 59	10.00	2.00	5.0	>1.00	2,000	<.5	10	3,000	20	20
82TM091R	34 10 8	114 48 36	5.00	1.00	3.0	.50	1,500	N	10	1,500	10	<10
82TM093R	34 11 14	114 47 20	3.00	1.50	2.0	.30	700	N	N	1,000	N	<10
82TM095R	34 13 4	114 47 34	10.00	1.50	1.0	.70	2,000	N	10	1,500	5	<10
82TM096R	34 13 28	114 46 36	5.00	1.00	.7	.50	1,500	N	10	1,500	N	10
82TM098R	34 16 11	114 56 36	3.00	.30	2.0	.30	700	N	10	1,000	N	<10
82TM100R	34 26 16	114 50 16	10.00	.50	1.0	.50	1,000	N	<10	500	20	20

Table 2.-- continued

Outcrop Samples

Sample	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	Y-ppm S	Zn-ppm S
82TM001R	10	20	N	N	5	20	N	500	50	10	<200
82TM003R	10	50	N	N	20	20	N	500	70	20	<200
82TM004R	20	50	N	N	20	50	N	300	50	20	N
82TM005R	10	30	N	N	10	20	N	500	50	10	N
82TM007R	10	50	N	N	30	50	N	500	70	20	N
82TM008R	10	50	N	N	10	50	N	500	50	20	N
82TM009R	30	70	N	N	70	20	N	500	100	20	N
82TM010R	10	20	N	N	10	50	N	500	70	10	N
82TM013R	5	N	N	N	5	70	N	100	10	20	N
82TM014R	<5	N	N	N	<5	50	N	100	10	20	N
82TM015R	20	20	N	N	<5	20	N	200	20	20	N
82TM016R	20	50	N	N	5	20	N	500	100	20	N
82TM017R	20	50	N	N	<5	10	N	100	10	100	N
82TM018R	5	50	N	N	<5	10	N	100	10	100	N
82TM019R	15	200	N	N	5	50	N	500	70	100	200
82TM021R	100	100	N	N	<5	70	N	N	10	100	500
82TM024R	10	20	N	N	<5	20	N	500	10	10	N
82TM025R	300	50	N	N	<5	10	N	N	10	100	500
82TM026R	5	20	N	N	5	50	N	100	10	20	<200
82TM027R	<5	50	N	N	<5	10	N	N	<10	50	N
82TM029R	5	20	N	N	5	10	N	N	10	10	N
82TM032R	<5	30	N	N	<5	50	N	100	10	30	N
82TM038R	5	50	N	N	5	10	N	100	<10	50	N
82TM040R	5	100	N	N	<5	20	N	100	20	30	N
82TM044R	<5	100	N	N	<5	100	N	100	10	20	N
82TM051R	10	50	N	N	5	20	N	100	50	100	N
82TM052R	20	20	N	N	100	N	N	200	300	100	N
82TM056R	7	N	N	N	N	50	N	200	20	20	N
82TM063R	7	50	<5	N	10	70	N	300	50	20	N
82TM068R	7	70	N	N	5	50	N	1,000	200	30	N
82TM069R	20	70	5	N	10	70	N	700	300	70	<200
82TM070R	5	50	N	N	5	70	N	500	100	20	N
82TM071R	20	70	N	N	10	20	N	1,000	200	50	<200
82TM073R	<5	50	N	<20	5	50	N	1,000	100	30	N
82TM075R	70	50	N	N	10	30	N	2,000	500	70	300
82TM077R	N	20	70	<20	N	100	N	300	10	50	N
82TM078R	70	N	N	N	50	20	N	200	300	50	300
82TM081R	15	200	N	<20	10	50	10	500	100	100	<200
82TM090R	20	200	N	<20	7	30	30	500	100	100	<200
82TM091R	5	70	N	N	N	20	N	500	70	30	N
82TM093R	N	150	N	N	N	20	20	200	15	200	N
82TM095R	7	150	N	<20	5	20	N	100	10	200	N
82TM096R	<5	150	N	20	N	70	N	N	<10	70	N
82TM098R	N	100	N	N	N	20	N	100	10	20	N
82TM100R	20	70	N	<20	10	30	N	100	100	50	N

Outcrop Samples--continued

Table 2.-- continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Co-ppm s	Cr-ppm s
82TM102R	34 25 6	114 48 53	2.00	1.00	1.0	.30	500	N	10	700	15	70
82TM103R	34 24 33	114 48 53	2.00	1.00	1.0	.30	500	N	15	1,000	15	70
82TM107R	34 27 31	114 52 56	7.00	1.50	7.0	1.00	1,000	<.5	30	2,000	10	<10
82TM108R	34 27 0	114 53 18	7.00	1.50	5.0	>1.00	1,500	N	50	1,000	15	<10
82TM112R	34 20 52	114 46 17	7.00	2.00	5.0	1.00	700	N	20	1,500	20	50
82TM113R	34 21 46	114 46 18	5.00	2.00	7.0	.70	500	N	20	1,000	15	20
82TM114R	34 21 33	114 46 42	5.00	1.00	5.0	>1.00	500	N	20	1,000	10	15
82TM115R	34 21 39	114 47 2	5.00	1.00	3.0	1.00	1,000	N	20	1,500	10	<10
82TM116R	34 20 57	114 48 58	10.00	2.00	5.0	>1.00	700	N	10	1,500	30	100
82TM117R	34 21 22	114 48 16	15.00	10.00	15.0	>1.00	2,000	N	10	2,000	70	1,000
82TM118R	34 21 21	114 48 11	15.00	5.00	10.0	>1.00	1,500	N	N	1,000	50	150
82TM120R	34 15 34	114 48 11	7.00	1.50	5.0	.30	1,500	N	N	1,000	10	N
82TM121R	34 17 54	114 50 27	2.00	1.00	5.0	.30	500	N	10	1,500	5	20
82TM122R	34 18 27	114 51 22	10.00	2.00	10.0	>1.00	2,000	N	N	1,500	15	20
82TM200R	34 16 55	114 57 12	10.00	2.00	1.5	>1.00	1,500	N	<10	2,000	15	15
82TM202R	34 18 29	114 56 51	2.00	.30	2.0	.15	500	N	10	1,000	N	<10
82TM205R	34 18 59	114 56 7	5.00	.20	1.0	.70	500	N	<10	1,500	5	N
82TM209R	34 19 50	114 55 19	7.00	.20	1.5	1.00	1,500	N	10	2,000	N	<10
82TM210R	34 20 53	114 52 56	15.00	2.00	7.0	>1.00	2,000	N	10	2,000	20	20
82TM212R	34 21 48	114 51 6	10.00	1.50	5.0	1.00	1,500	<.5	N	2,000	7	10
82TM213R	34 21 7	114 50 41	7.00	.20	.2	.05	150	3.0	10	200	N	<10
82TM217R	34 15 33	114 47 36	5.00	2.00	5.0	.30	1,500	N	10	1,000	5	<10
82TM219R	34 16 15	114 48 54	20.00	7.00	10.0	>1.00	2,000	N	10	500	100	100
82TM220R	34 17 0	114 49 5	5.00	.70	3.0	1.00	300	N	20	1,500	10	10
82TM221R	34 17 20	114 49 17	10.00	1.50	5.0	>1.00	2,000	N	10	2,000	15	20
82TM224R	34 19 26	114 49 54	2.00	1.00	10.0	.30	300	1.0	20	1,000	5	10
82TM225R	34 19 40	114 49 29	3.00	1.00	1.5	1.00	700	N	10	700	10	70
82TM226R	34 20 5	114 48 50	15.00	10.00	15.0	>1.00	1,500	N	N	1,500	50	700
82TM227R	34 21 6	114 50 40	1.00	.30	5.0	.10	200	<.5	10	200	N	<10
82TM231R	34 21 27	114 47 10	10.00	7.00	15.0	1.00	1,500	N	10	500	30	100
82TM232R	34 20 41	114 45 49	7.00	2.00	10.0	1.00	>5,000	N	30	5,000	10	20
82TM233R	34 20 24	114 45 8	10.00	7.00	10.0	>1.00	1,000	N	N	2,000	50	500
82TM234R	34 16 58	114 51 15	10.00	2.00	1.0	1.00	1,500	N	20	1,000	20	70
82TM235R	34 16 39	114 50 49	10.00	2.00	5.0	>1.00	2,000	N	N	3,000	15	20
82TM236R	34 15 57	114 50 57	10.00	2.00	3.0	1.00	1,500	N	<10	5,000	15	20
82TM244R	34 14 57	114 51 34	10.00	5.00	7.0	>1.00	2,000	N	10	1,000	50	50
82TM245R	34 15 23	114 53 29	10.00	1.50	3.0	1.00	2,000	N	10	2,000	15	30
82TM246R	34 15 33	114 52 38	10.00	1.50	5.0	1.00	1,500	N	10	2,000	10	20
82TM248R	34 15 52	114 52 18	15.00	2.00	3.0	>1.00	2,000	N	20	200	30	10
82TM253R	34 16 16	114 52 4	.15	3.00	5.0	>1.00	1,500	N	10	700	50	70
82TM254R	34 15 8	114 50 59	20.00	2.00	2.0	.70	5,000	N	N	500	30	300
82TM259R	34 15 15	114 44 40	15.00	2.00	3.0	>1.00	1,500	N	20	3,000	20	10
82TM263R	34 15 57	114 44 22	7.00	3.00	10.0	1.00	700	N	30	2,000	20	50
82TM264R	34 15 30	114 43 10	10.00	2.00	7.0	1.00	1,000	5.0	10	2,000	20	50
82TM270R	34 17 45	114 44 56	5.00	2.00	5.0	.50	700	N	50	2,000	10	30

Outcrop Samples--continued

Table 2.-- continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s
82TM102R	15	70	N	N	70	50	N	500	100	10	N
82TM103R	15	70	N	N	50	30	N	500	100	20	N
82TM107R	15	200	5	50	5	70	N	1,000	70	70	N
82TM108R	10	200	<5	50	5	50	N	700	50	50	N
82TM112R	20	100	N	20	10	30	N	700	70	20	N
82TM113R	15	100	N	N	15	70	N	1,000	50	20	N
82TM114R	10	150	N	N	5	50	N	700	100	30	N
82TM115R	5	100	N	N	5	50	N	500	50	30	N
82TM116R	50	100	N	N	50	50	N	1,000	150	30	N
82TM117R	70	200	N	<20	500	30	N	1,500	300	50	<200
82TM118R	50	70	N	N	20	20	N	1,000	300	50	N
82TM120R	5	N	N	N	N	20	N	700	70	20	N
82TM121R	5	20	N	N	10	70	N	500	20	20	N
82TM122R	15	100	N	<20	10	30	N	500	70	100	<200
82TM200R	20	150	5	N	7	30	N	100	70	200	<200
82TM202R	<5	70	N	N	N	70	N	500	10	20	N
82TM205R	7	50	N	N	N	30	N	100	N	50	N
82TM209R	10	100	N	<20	N	20	N	200	10	70	N
82TM210R	20	200	N	20	N	30	N	500	100	200	<200
82TM212R	20	100	N	<20	N	20	N	700	20	70	<200
82TM213R	300	50	50	N	N	500	N	N	100	15	700
82TM217R	10	N	N	N	N	50	N	700	50	30	N
82TM219R	30	50	N	N	50	20	10	200	300	70	<200
82TM220R	7	150	N	N	7	70	N	200	70	70	N
82TM221R	30	200	N	<20	15	30	N	300	100	150	<200
82TM224R	<5	70	N	N	5	70	N	500	30	10	N
82TM225R	5	100	N	N	20	50	N	100	100	50	N
82TM226R	50	100	N	N	300	20	N	1,000	200	50	N
82TM227R	<5	N	N	N	N	30	N	100	10	15	N
82TM231R	7	50	N	N	30	30	N	700	200	20	N
82TM232R	15	150	10	<20	10	50	N	1,000	100	50	<200
82TM233R	100	200	<5	N	150	50	N	700	150	50	N
82TM234R	15	150	N	N	20	30	N	300	100	70	<200
82TM235R	20	100	N	20	7	50	10	500	70	100	200
82TM236R	20	70	N	<20	5	30	N	500	70	70	N
82TM244R	20	100	N	N	30	30	10	300	200	100	<200
82TM245R	15	100	N	<20	5	70	10	500	50	70	<200
82TM246R	15	200	N	<20	5	30	N	500	50	100	<200
82TM248R	50	N	N	N	7	10	N	100	200	50	200
82TM253R	200	50	N	N	30	20	N	200	200	70	200
82TM254R	100	70	N	N	30	20	N	100	150	70	200
82TM259R	70	150	10	20	7	70	N	1,500	200	70	N
82TM263R	20	100	5	N	15	50	N	1,000	100	30	N
82TM264R	30	100	N	N	10	70	N	1,000	100	30	N
82TM270R	20	100	7	N	7	70	N	700	70	30	N

Table 2.-- continued

Outcrop Samples--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-pptm s	Ag-pptm s	B-pptm s	Ba-pptm s	Co-pptm s	Cr-pptm s
82TM274R	34 18 34	114 42 56	15.00	5.00	15.0	1.00	1,000	N	10	5,000	30	700
82TM277R	34 22 12	114 57 50	15.00	2.00	5.0	>1.00	1,500	N	10	3,000	20	10
82TM278R	34 22 5	114 56 43	10.00	2.00	3.0	>1.00	1,000	N	10	2,000	20	10
82TM279R	34 22 7	114 53 18	15.00	1.50	3.0	>1.00	1,500	N	10	3,000	20	10
82TM282R	34 22 16	114 51 43	10.00	.70	2.0	1.00	700	N	10	1,500	5	20
82TM296R	34 20 31	114 50 1	7.00	3.00	5.0	.70	700	N	50	2,000	10	20
82TM299R	34 22 45	114 47 59	2.00	.70	2.0	.50	500	N	70	2,000	N	10

Outcrop Samples--continued

Table 2.-- continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s
82TM274R	50	150	N	N	100	50	N	1,000	100	50	N
82TM277R	30	150	N	20	N	30	N	200	50	100	<200
82TM279R	30	100	N	20	7	50	N	200	100	100	N
82TM279R	20	150	N	20	5	50	N	100	70	150	N
82TM282R	5	50	N	N	5	20	N	100	10	100	N
82TM296R	7	150	10	N	7	70	N	1,000	70	50	N
82TM299R	<5	150	15	<20	N	70	N	500	30	30	N

Table 3.--Emission spectrographic results for stream sediment samples collected in the Turtle Mountain Wilderness Study Area (BLM), San Bernardino County, California.

[Element concentrations reported in parts per million (ppm) except Fe, Mg, Ca, and Ti which are reported in percent. Element concentrations coded with an N, <, or > indicate; not detected, detected but below limit of determination, and greater than upper limit of determination. Latitude and longitude are given in degrees, minutes, and seconds.]

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Aq-ppm	B-ppm	Ba-ppm	Be-ppm	Co-ppm	Cr-ppm
82TM001	34 13 51	114 41 8	5	1.0	1.0	1.0	700	N	20	500	1	15	100
82TM002	34 14 25	114 41 20	5	1.0	1.0	1.0	700	N	20	500	1	15	50
82TM003	34 14 36	114 41 29	5	1.0	1.0	1.0	500	N	20	500	1	15	50
82TM004	34 15 30	114 41 10	10	1.0	1.0	1.0	1,000	N	16	500	1	20	100
82TM005	34 16 5	114 41 52	5	1.0	1.0	1.0	500	N	16	500	1	10	50
82TM006	34 16 38	114 41 31	5	1.0	1.0	1.0	500	N	20	500	1	10	50
82TM007	34 19 13	114 40 46	3	1.0	1.0	1.0	1,000	N	20	500	1	15	50
82TM008	34 19 23	114 44 50	5	1.0	1.0	1.0	500	N	20	500	1	15	70
82TM010	34 19 13	114 45 32	5	2.0	2.0	2.0	500	N	20	500	1	20	100
82TM011	34 19 19	114 45 41	10	2.0	2.0	2.0	1,000	N	10	700	1	20	100
82TM012	34 20 8	114 44 16	5	1.0	1.0	1.0	500	N	30	500	2	15	50
82TM013	34 10 59	114 48 21	3	1.0	1.0	1.0	500	N	20	300	1	10	50
82TM014	34 10 52	114 48 33	3	1.0	1.0	1.0	500	N	20	500	2	15	50
82TM015	34 11 22	114 48 43	20	2.0	2.0	1.0	1,000	N	20	500	1	50	70
82TM016	34 11 37	114 49 9	5	1.0	1.0	1.0	700	N	20	500	1	15	70
82TM017	34 12 12	114 49 56	5	1.0	1.0	1.0	1,000	N	20	500	2	15	50
82TM018	34 12 22	114 49 47	5	1.0	1.0	1.0	700	N	20	500	1	15	50
82TM019	34 12 59	114 49 28	5	1.0	1.0	1.0	700	N	10	500	2	15	50
82TM020	34 12 38	114 49 29	5	1.0	1.0	1.0	700	N	20	700	1	15	100
82TM021	34 12 56	114 48 54	5	1.0	1.0	1.0	700	N	10	500	2	15	100
82TM022	34 12 49	114 48 53	5	1.0	1.0	1.0	1,000	N	20	700	2	15	70
82TM023	34 12 20	114 49 37	5	1.0	1.0	1.0	700	N	20	500	2	15	50
82TM024	34 12 3	114 47 0	10	1.0	1.0	1.0	5,000	N	10	500	2	15	50
82TM025	34 12 36	114 47 18	5	1.0	1.0	1.0	2,000	N	30	500	2	15	70
82TM026	34 12 29	114 47 50	5	1.0	1.0	1.0	1,500	1.3	20	500	2	15	50
82TM027	34 12 34	114 48 1	5	1.0	1.0	1.0	1,000	N	15	500	2	15	50
82TM028	34 12 37	114 47 54	5	1.0	1.0	1.0	1,000	N	30	500	2	15	50
82TM029	34 14 33	114 47 53	5	1.0	1.0	1.0	1,000	N	20	500	2	15	50
82TM030	34 14 31	114 47 43	5	1.0	1.0	1.0	1,000	N	10	500	2	20	100
82TM031	34 14 39	114 47 9	10	1.0	2.0	2.0	2,000	N	20	500	2	20	70
82TM032	34 17 41	114 55 24	5	1.0	2.0	2.0	1,000	N	20	500	2	50	70
82TM033	34 17 45	114 55 20	5	1.0	2.0	2.0	1,000	N	10	500	2	15	50
82TM034	34 17 28	114 54 44	10	1.0	2.0	2.0	2,000	N	20	500	1	50	70
82TM035	34 17 20	114 54 39	10	1.0	2.0	2.0	2,000	N	20	500	1	50	50
82TM036	34 16 52	114 54 34	10	1.0	2.0	2.0	2,000	N	20	500	1	20	50
82TM037	34 16 18	114 55 33	20	2.0	2.0	2.0	2,000	N	30	1,000	1	50	100
82TM038	34 15 45	114 56 6	5	1.0	1.0	1.0	500	N	10	500	1	15	50
82TM039	34 15 19	114 55 38	10	1.0	1.0	1.0	1,000	N	20	500	1	20	70
82TM040	34 15 52	114 54 8	10	1.0	1.0	1.0	2,000	N	20	500	1	20	70
82TM041	34 16 10	114 53 40	10	1.0	2.0	2.0	1,000	N	20	500	1	20	70
82TM042	34 16 39	114 53 25	10	1.0	1.0	1.0	1,000	N	20	500	1	20	50
82TM043	34 16 53	114 53 10	10	2.0	1.0	1.0	1,000	N	20	500	1	30	100
82TM044	34 17 22	114 53 34	10	2.0	1.0	1.0	2,000	N	20	500	N	50	100
82TM045	34 17 31	114 53 12	5	1.0	1.0	1.0	700	N	10	500	2	10	70
82TM046	34 18 18	114 53 24	5	1.0	1.0	1.0	1,000	N	10	500	2	15	50

Table 3.-- continued

Stream Sediments

Sample	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	Y-ppm S	Zn-ppm S
82TM001	15	50	N	N	20	20	N	300	70	30	N
82TM002	15	50	N	N	10	20	N	300	70	30	N
82TM003	15	20	N	N	20	20	N	300	50	30	N
82TM004	20	100	N	N	30	20	N	200	200	50	<200
82TM005	15	30	N	N	20	20	N	300	70	30	N
82TM006	15	20	N	N	20	20	N	300	70	30	N
82TM007	15	50	N	N	20	20	N	300	70	30	N
82TM008	15	100	N	N	30	30	N	300	100	30	N
82TM010	15	100	N	N	50	30	N	500	70	30	N
82TM011	20	50	N	N	70	30	N	500	70	20	N
82TM012	20	50	N	N	30	20	N	300	70	30	N
82TM013	15	20	N	N	20	20	N	300	70	30	N
82TM014	15	50	N	N	20	20	N	300	50	30	N
82TM015	20	200	N	N	30	10	N	300	300	50	<200
82TM016	20	50	N	N	20	30	N	200	100	50	<200
82TM017	20	50	N	N	20	30	N	200	100	150	200
82TM018	15	20	N	N	20	30	N	200	50	50	N
82TM019	15	50	N	N	10	20	N	200	70	100	N
82TM020	100	100	N	N	20	30	N	200	70	200	200
82TM021	20	50	N	N	30	20	N	200	70	50	N
82TM022	15	50	N	N	30	30	N	200	50	70	N
82TM023	15	100	N	<20	20	20	N	200	50	70	N
82TM024	20	100	N	20	20	30	N	100	70	100	<200
82TM025	20	50	N	N	30	50	N	200	100	50	<200
82TM026	20	50	N	N	20	20	N	100	100	50	300
82TM027	20	100	N	N	20	30	N	200	70	50	200
82TM028	20	50	N	N	30	20	N	200	70	70	N
82TM029	15	50	N	N	30	10	N	200	100	70	N
82TM030	20	50	N	N	30	20	10	200	100	100	N
82TM031	20	100	N	20	30	20	10	200	100	200	N
82TM032	300	100	N	N	30	20	N	200	100	70	N
82TM033	15	50	N	N	20	20	N	200	100	50	N
82TM034	15	100	N	<20	20	20	N	200	150	100	<200
82TM035	15	100	N	<20	10	10	N	200	150	100	<200
82TM036	15	100	N	<20	15	20	N	200	150	200	<200
82TM037	50	200	N	N	30	50	N	500	300	200	<200
82TM038	10	50	N	N	20	N	N	100	100	50	N
82TM039	15	200	N	<20	20	30	N	200	200	100	N
82TM040	15	100	N	<20	20	30	N	200	100	200	N
82TM041	15	100	N	<20	15	50	10	200	100	200	N
82TM042	20	50	N	N	20	20	10	200	100	100	N
82TM043	20	50	N	N	20	20	10	200	100	100	N
82TM044	50	100	N	N	20	10	N	200	100	200	<200
82TM045	15	50	N	<20	20	20	N	200	50	50	<200
82TM046	15	100	N	<20	20	20	N	200	50	100	<200

Table 3.-- continued

Stream Sediments--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Aq-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
82TM047	34 18 16	114 53 15	10	1.0	.1	1.0	2,000	N	10	500	1	15	70
82TM048	34 16 13	114 53 10	10	2.0	1.0	1.0	2,000	N	10	500	1	30	70
82TM049	34 16 23	114 52 46	10	1.0	1.0	1.0	2,000	N	10	300	1	20	70
82TM050	34 17 11	114 52 19	5	1.0	1.0	.5	1,000	N	10	700	2	15	50
82TM051	34 17 9	114 52 14	5	1.0	1.0	.7	1,000	N	10	700	1	15	50
82TM052	34 20 0	114 53 40	>20	5.0	5.0	>1.0	5,000	N	10	700	N	50	200
82TM053	34 19 49	114 52 52	20	5.0	5.0	>1.0	2,000	N	20	1,000	<5	30	150
82TM054	34 19 30	114 53 1	20	5.0	7.0	>1.0	2,000	N	10	1,000	N	30	150
82TM055	34 19 18	114 52 28	15	3.0	5.0	1.0	2,000	N	20	1,000	<5	20	150
82TM056	34 19 12	114 52 27	20	2.0	3.0	>1.0	2,000	N	10	1,000	N	20	50
82TM057	34 20 34	114 54 36	20	2.0	5.0	>1.0	3,000	N	10	700	N	20	100
82TM058	34 18 51	114 47 21	10	5.0	10.0	1.0	1,500	3.0	50	1,500	<5	30	150
82TM059	34 19 5	114 47 44	15	3.0	5.0	>1.0	1,500	N	50	1,000	<5	30	100
82TM060	34 19 43	114 48 56	7	3.0	5.0	1.0	1,000	N	50	700	N	20	200
82TM061	34 19 16	114 48 18	7	3.0	5.0	>1.0	2,000	N	20	1,000	<5	20	200
82TM062	34 17 51	114 46 26	10	2.0	3.0	1.0	1,000	N	30	1,000	N	20	70
82TM063	34 17 20	114 46 6	10	1.5	3.0	1.0	1,000	N	20	700	N	15	100
82TM064	34 16 44	114 45 28	7	2.0	5.0	1.0	1,500	N	30	1,000	N	15	70
82TM065	34 15 26	114 44 47	10	2.0	7.0	>1.0	1,500	N	20	1,000	N	20	100
82TM066	34 7 9	114 48 34	10	3.0	10.0	1.0	1,500	.7	30	1,000	N	20	70
82TM067	34 7 58	114 48 4	10	3.0	10.0	>1.0	2,000	<.5	20	700	N	20	100
82TM068	34 8 1	114 46 53	7	2.0	7.0	1.0	2,000	<.5	30	1,000	<5	20	70
82TM069	34 8 26	114 48 11	10	3.0	7.0	1.0	1,500	N	20	1,000	N	20	150
82TM070	34 9 36	114 47 48	15	2.0	7.0	1.0	1,500	<.5	20	700	<5	20	150
82TM071	34 7 56	114 49 14	7	2.0	7.0	1.0	1,500	<.5	30	1,000	N	20	100
82TM072	34 8 38	114 50 26	7	2.0	5.0	>1.0	1,500	N	20	700	N	20	70
82TM073	34 7 51	114 50 26	10	1.5	7.0	1.0	2,000	N	10	700	<5	15	70
82TM074	34 8 32	114 49 20	15	3.0	10.0	>1.0	2,000	N	20	1,000	N	20	150
82TM075	34 9 22	114 50 0	10	2.0	10.0	>1.0	2,000	N	20	1,000	N	20	200
82TM076	34 10 34	114 49 35	7	2.0	7.0	1.0	1,000	N	20	1,000	N	15	50
82TM077	34 10 59	114 51 26	20	2.0	7.0	>1.0	1,500	N	20	700	N	30	100
82TM078	34 11 40	114 51 43	10	2.0	10.0	>1.0	1,500	N	20	1,000	<5	20	50
82TM079	34 12 20	114 51 56	10	1.5	5.0	>1.0	2,000	.5	30	1,000	N	20	50
82TM080	34 13 16	114 51 45	20	2.0	3.0	>1.0	2,000	N	10	700	N	20	100
82TM081	34 14 6	114 51 39	15	2.0	10.0	>1.0	2,000	N	10	700	N	30	70
82TM082	34 12 24	114 50 49	15	1.5	5.0	>1.0	2,000	N	10	700	N	20	50
82TM083	34 12 22	114 50 42	5	2.0	5.0	1.0	1,000	N	20	1,000	N	15	50
82TM084	34 13 45	114 51 7	10	2.0	5.0	>1.0	1,500	N	20	1,000	N	20	70
82TM085	34 14 9	114 50 37	10	3.0	10.0	>1.0	2,000	<.5	10	1,000	<5	20	70
82TM086	34 13 52	114 50 22	10	2.0	7.0	1.0	1,500	N	10	1,000	N	20	30
82TM087	34 14 18	114 49 43	15	3.0	5.0	>1.0	2,000	N	10	500	N	30	70
82TM088	34 13 16	114 51 45	20	3.0	10.0	>1.0	3,000	N	20	1,500	N	20	70
82TM089	34 13 55	114 53 50	15	2.0	5.0	>1.0	2,000	N	10	1,000	<5	20	150
82TM090	34 14 30	114 53 59	15	1.5	5.0	>1.0	1,500	N	15	1,500	N	20	100
82TM091	34 10 6	114 48 35	10	2.0	7.0	>1.0	1,500	N	30	1,000	<5	15	100

Stream Sediments--continued

Table 3.-- continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s
82TM047	20	100	N	<20	5	10	N	200	100	100	<200
82TM048	20	100	N	<20	5	10	N	200	100	100	<200
82TM049	15	100	N	<20	5	15	N	200	100	100	<200
82TM050	15	50	N	<20	5	30	N	200	50	70	<200
82TM051	15	100	N	<20	20	20	N	200	50	70	<200
82TM052	50	300	N	20	50	10	N	300	1-000	150	200
82TM053	30	150	N	<20	50	50	N	500	200	150	N
82TM054	50	100	N	N	30	30	N	700	300	70	N
82TM055	20	200	N	20	30	30	N	200	150	150	N
82TM056	20	150	N	30	20	30	N	200	100	150	<200
82TM057	50	300	N	50	30	50	N	200	500	200	<200
82TM058	30	100	<5	<20	50	30	N	700	200	50	N
82TM059	20	100	N	20	50	50	N	10	200	70	N
82TM060	20	100	N	<20	50	50	N	10	100	50	N
82TM061	20	200	N	20	70	50	N	700	150	70	N
82TM062	20	70	N	<20	20	50	N	700	100	50	N
82TM063	20	100	N	<20	20	30	N	500	100	50	N
82TM064	20	150	N	20	30	50	N	700	100	70	N
82TM065	20	100	N	<20	30	50	N	700	200	70	N
82TM066	20	70	N	N	20	50	N	700	200	70	N
82TM067	30	100	N	<20	15	50	N	500	200	100	N
82TM068	20	100	N	<20	20	50	N	700	150	70	N
82TM069	20	100	N	N	15	30	N	500	200	70	N
82TM070	30	150	N	N	15	50	N	500	200	100	N
82TM071	20	100	N	<20	30	50	N	500	100	70	N
82TM072	20	100	N	N	20	30	N	300	100	100	N
82TM073	15	200	N	20	10	30	N	500	150	100	N
82TM074	30	200	N	<20	20	30	N	700	200	70	N
82TM075	20	150	N	20	20	50	N	300	100	150	N
82TM076	20	100	N	<20	15	50	N	200	70	70	N
82TM077	30	200	N	20	20	30	N	200	200	150	<200
82TM078	20	150	N	20	20	50	N	300	100	100	N
82TM079	30	150	N	20	20	50	N	300	100	100	N
82TM080	50	200	N	<20	15	50	N	100	200	150	N
82TM081	30	200	N	20	15	50	N	200	200	300	N
82TM082	50	150	N	<20	15	30	N	200	200	200	N
82TM083	20	70	N	N	20	50	N	300	100	70	N
82TM084	20	200	N	<20	15	50	N	300	100	100	N
82TM085	30	200	7	20	20	50	20	500	100	200	N
82TM086	20	150	N	<20	15	30	N	300	100	150	N
82TM087	20	150	N	<20	20	30	N	100	200	150	N
82TM088	30	200	N	<20	15	30	N	500	200	300	N
82TM089	50	200	N	N	20	20	N	300	100	100	N
82TM090	30	150	N	<20	15	30	N	200	150	150	N
82TM091	30	200	N	<20	20	30	N	500	150	100	N

Table 3.— continued

Stream Sediments--continued

Sample	Latitude	Longitude	Fe-ppt. s	Mg-ppt. s	Ca-ppt. s	Ti-ppt. s	Mn-ppt s	Aq-ppt s	B-ppt s	Ba-ppt s	Be-ppt s	Co-ppt s	Cr-ppt s
82TM092	34 10 57	114 47 34	7	1.5	5.0	1.0	1,500	N	20	1,000	N	15	70
82TM093	34 11 14	114 47 19	15	1.0	5.0	>1.0	5,000	N	10	700	<5	20	70
82TM094	34 12 59	114 47 37	20	2.0	5.0	>1.0	3,000	N	15	700	<5	20	100
82TM095	34 13 5	114 47 35	7	2.0	5.0	1.0	2,000	N	20	1,000	N	15	70
82TM096	34 13 29	114 46 36	15	2.0	7.0	>1.0	2,000	N	15	700	N	20	100
82TM097	34 13 57	114 46 40	20	2.0	7.0	>1.0	2,000	N	10	700	N	20	200
82TM098	34 16 11	114 56 37	7	2.0	5.0	>1.0	1,000	N	10	1,000	N	20	100
82TM099	34 16 28	114 56 57	7	2.0	5.0	1.0	1,000	N	20	1,000	N	20	100
82TM100	34 26 18	114 50 23	10	1.0	1.0	1.0	2,000	N	10	700	1	50	70
82TM101	34 25 37	114 49 43	5	2.0	2.0	.5	1,000	N	20	700	1	20	100
82TM102	34 25 6	114 48 52	5	2.0	1.0	.7	1,000	N	10	500	N	50	200
82TM103	34 24 33	114 48 53	5	1.0	1.0	.5	1,000	N	10	700	1	20	100
82TM104	34 24 57	114 48 15	10	2.0	1.0	1.0	2,000	N	10	700	N	50	200
82TM105	34 23 58	114 47 11	10	2.0	1.0	1.0	1,000	N	10	500	N	30	200
82TM106	34 24 18	114 46 48	5	1.0	1.0	.5	700	N	10	700	1	15	100
82TM107	34 27 32	114 52 54	10	3.0	7.0	>1.0	2,000	N	50	1,500	<5	20	150
82TM108	34 26 59	114 53 17	7	3.0	5.0	>1.0	1,500	<.5	70	1,500	<5	20	100
82TM109	34 25 53	114 54 18	10	2.0	5.0	>1.0	1,500	N	50	1,000	N	30	150
82TM110	34 25 4	114 54 2	15	3.0	7.0	>1.0	2,000	N	30	1,000	N	20	150
82TM111	34 24 30	114 53 47	10	2.0	5.0	>1.0	1,500	N	30	1,000	N	20	70
82TM112	34 20 52	114 46 17	10	3.0	7.0	>1.0	2,000	N	50	1,500	<5	20	200
82TM113	34 21 32	114 46 41	10	2.0	5.0	1.0	1,500	N	50	1,500	N	20	100
82TM114	34 21 38	114 47 0	15	5.0	10.0	>1.0	2,000	N	50	2,000	N	30	200
82TM115	34 21 27	114 47 9	20	5.0	7.0	>1.0	2,000	N	20	1,000	N	50	300
82TM116	34 21 21	114 48 15	10	5.0	7.0	1.0	1,500	N	50	1,500	<5	30	200
82TM117	34 21 21	114 48 12	10	5.0	10.0	1.0	1,500	N	20	1,000	N	30	200
82TM118	34 21 46	114 48 24	10	3.0	5.0	1.0	1,500	N	50	1,000	N	20	100
82TM119	34 21 59	114 50 7	7	2.0	7.0	1.0	1,000	N	30	1,000	<5	20	150
82TM120	34 15 34	114 48 11	15	2.0	5.0	>1.0	2,000	N	20	700	N	20	50
82TM121	34 17 54	114 50 26	15	3.0	7.0	>1.0	3,000	N	30	1,500	N	30	100
82TM122	34 18 28	114 51 22	20	1.5	5.0	>1.0	3,000	N	10	1,000	N	30	50
82TM200	34 16 55	114 57 12	10	2.0	5.0	1.0	1,000	N	20	1,000	N	15	50
82TM201	34 17 29	114 56 32	15	2.0	7.0	>1.0	2,000	N	10	1,500	N	30	100
82TM202	34 18 31	114 56 51	10	2.0	5.0	>1.0	1,500	N	10	700	N	20	100
82TM203	34 19 16	114 56 50	10	2.0	5.0	>1.0	1,000	N	10	700	N	20	100
82TM204	34 18 40	114 56 19	10	2.0	5.0	1.0	1,500	N	10	700	<5	15	70
82TM205	34 18 59	114 56 9	10	2.0	5.0	1.0	1,000	N	10	700	N	20	50
82TM206	34 18 38	114 55 48	7	2.0	5.0	1.0	1,000	N	10	1,000	N	20	70
82TM207	34 19 14	114 54 40	20	3.0	7.0	>1.0	2,000	N	20	700	N	30	150
82TM208	34 19 11	114 54 31	10	2.0	5.0	>1.0	1,500	N	20	1,000	N	20	50
82TM209	34 19 50	114 55 19	10	3.0	5.0	>1.0	1,500	N	10	700	N	20	200
82TM210	34 20 54	114 52 56	15	2.0	5.0	>1.0	5,000	N	20	700	N	20	70
82TM211	34 21 32	114 51 36	10	3.0	7.0	>1.0	2,000	<.5	20	700	N	50	70
82TM212	34 21 47	114 51 8	15	3.0	10.0	>1.0	5,000	<.5	10	500	N	30	70
82TM213	34 21 6	114 50 39	7	3.0	7.0	1.0	1,500	.5	50	700	<5	20	70

Stream Sediments--continued

Table 3.-- continued

Sample	Cu--ppm S	La--ppm S	Mo--ppm S	Nb--ppm S	Ni--ppm S	Pb--ppm S	Sn--ppm S	Sr--ppm S	V--ppm S	Y--ppm S	Zn--ppm S
82TM092	20	100	N	N	20	30	N	300	100	100	N
82TM093	30	300	N	20	20	50	N	100	200	500	200
82TM094	50	200	N	<20	20	30	N	100	200	500	200
82TM095	30	200	N	N	20	50	N	200	100	70	N
82TM096	30	200	N	20	15	50	N	300	200	300	N
82TM097	100	150	N	20	20	50	N	300	150	300	N
82TM098	20	200	N	20	20	30	N	500	100	100	N
82TM099	20	100	N	<20	20	50	N	500	100	70	N
82TM100	15	50	N	<20	30	30	N	500	100	20	<200
82TM101	15	50	N	N	70	20	N	500	100	20	N
82TM102	15	100	N	N	70	30	N	300	100	50	<200
82TM103	15	50	N	N	50	15	N	500	100	20	<200
82TM104	20	50	N	N	70	20	N	500	200	20	<200
82TM105	15	50	N	N	70	20	N	500	200	30	200
82TM106	15	50	N	N	30	30	N	300	100	20	<200
82TM107	30	150	N	20	20	30	N	1,500	200	70	<200
82TM108	20	150	N	20	20	70	N	1,000	200	70	N
82TM109	20	100	N	<20	50	20	N	500	200	100	N
82TM110	50	200	N	20	50	50	N	700	200	100	<200
82TM111	20	200	N	20	30	30	N	500	150	70	N
82TM112	30	150	N	<20	70	20	N	1,500	150	50	N
82TM113	20	150	N	20	30	50	N	1,000	200	50	N
82TM114	50	150	N	<20	50	30	N	1,000	200	70	<200
82TM115	50	100	N	<20	100	30	N	700	200	70	N
82TM116	30	150	N	N	70	30	N	1,000	150	50	N
82TM117	30	100	N	N	100	30	N	1,000	100	50	N
82TM118	20	150	N	<20	30	30	N	700	150	50	N
82TM119	20	100	N	N	50	30	N	1,000	100	70	N
82TM120	20	100	N	<20	20	20	N	500	200	100	N
82TM121	50	150	N	<20	30	30	N	700	200	150	<200
82TM122	30	200	N	20	15	20	N	500	200	200	<200
82TM200	30	100	N	<20	30	70	N	500	100	70	N
82TM201	50	200	N	<20	30	30	N	500	200	150	N
82TM202	30	200	5	20	15	50	N	300	100	150	N
82TM203	30	1,000	N	<20	20	30	N	200	150	70	N
82TM204	20	200	N	N	10	50	N	500	100	100	N
82TM205	30	70	N	N	20	50	N	200	100	70	N
82TM206	20	100	N	N	15	50	N	200	100	70	N
82TM207	50	100	N	N	30	20	N	500	500	100	<200
82TM208	30	100	N	N	20	30	N	500	200	70	N
82TM209	20	100	N	20	30	30	N	300	150	100	N
82TM210	30	200	N	30	15	30	N	200	200	200	<200
82TM211	100	100	5	N	30	50	N	300	200	100	N
82TM212	200	200	30	N	30	50	N	300	300	150	200
82TM213	100	100	5	N	30	70	N	700	150	70	<200

Table 3.-- continued

Stream Sediments--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Aq-ppm s	B-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
82TM214	34 20 34	114 50 7	15	2.0	5.0	>1.0	2,000	N	20	N	20	70
82TM215	34 20 31	114 50 1	10	3.0	15.0	>1.0	2,000	N	20	<5	30	150
82TM216	34 15 56	114 46 20	10	5.0	7.0	1.0	1,500	N	20	N	30	500
82TM217	34 15 34	114 47 35	7	2.0	5.0	1.0	1,500	N	20	N	10	50
82TM218	34 15 40	114 48 39	15	3.0	7.0	>1.0	2,000	N	10	N	30	100
82TM220	34 16 59	114 49 6	20	2.0	7.0	>1.0	2,000	N	20	<5	20	50
82TM221	34 17 21	114 49 15	20	2.0	7.0	>1.0	2,000	.5	15	N	20	70
82TM222	34 17 36	114 49 51	15	2.0	7.0	>1.0	1,500	<.5	20	N	15	50
82TM223	34 18 43	114 50 34	20	3.0	7.0	>1.0	2,000	N	20	<5	20	70
82TM224	34 19 26	114 49 54	15	3.0	7.0	>1.0	2,000	N	15	N	20	150
82TM225	34 19 40	114 49 31	20	3.0	5.0	>1.0	1,500	N	10	N	30	150
82TM226	34 20 5	114 48 49	10	3.0	5.0	1.0	1,000	N	10	N	30	500
82TM227	34 20 57	114 48 56	10	2.0	3.0	1.0	1,500	N	20	N	20	150
82TM228	34 20 15	114 48 10	10	3.0	10.0	1.0	1,500	2.0	20	N	20	300
82TM229	34 19 54	114 47 45	10	3.0	7.0	1.0	1,000	.7	20	N	20	200
82TM230	34 20 0	114 47 41	7	3.0	5.0	1.0	1,000	N	15	N	20	200
82TM231	34 20 49	114 46 50	10	2.0	5.0	1.0	1,000	N	20	N	20	150
82TM232	34 20 42	114 45 49	20	5.0	7.0	>1.0	1,500	N	20	N	50	300
82TM233	34 20 22	114 45 10	7	3.0	5.0	1.0	1,000	N	15	N	20	100
82TM234	34 16 58	114 51 14	15	2.0	5.0	>1.0	1,000	N	10	N	20	70
82TM235	34 16 39	114 50 51	20	2.0	5.0	>1.0	1,500	<.5	20	N	20	70
82TM236	34 15 57	114 50 57	10	2.0	3.0	>1.0	1,000	N	10	N	20	50
82TM237	34 7 22	114 50 26	10	2.0	5.0	>1.0	1,000	N	20	N	15	100
82TM238	34 9 55	114 49 11	10	1.5	5.0	1.0	1,000	N	15	N	20	70
82TM239	34 9 46	114 48 17	20	3.0	10.0	>1.0	2,000	N	10	N	20	200
82TM240	34 10 1	114 45 37	15	2.0	7.0	1.0	1,500	N	15	N	15	100
82TM241	34 10 52	114 45 57	20	3.0	10.0	1.0	2,000	N	20	N	20	150
82TM242	34 14 53	114 45 4	7	2.0	7.0	1.0	1,000	N	20	N	20	100
82TM243	34 14 30	114 49 51	15	3.0	7.0	>1.0	2,000	N	10	N	30	70
82TM244	34 14 58	114 51 33	20	2.0	7.0	>1.0	2,000	N	10	N	30	150
82TM245	34 15 22	114 53 32	20	2.0	7.0	>1.0	2,000	N	10	N	20	100
82TM246	34 15 32	114 52 38	15	2.0	7.0	>1.0	1,500	<.5	10	N	30	70
82TM247	34 15 23	114 52 18	20	2.0	5.0	>1.0	1,500	N	10	N	20	70
82TM248	34 15 52	114 52 19	20	3.0	7.0	>1.0	5,000	N	10	N	30	100
82TM251	34 16 21	114 51 35	15	3.0	10.0	>1.0	5,000	N	10	N	30	50
82TM252	34 15 28	114 50 39	10	2.0	7.0	>1.0	1,500	N	20	N	20	70
82TM253	34 16 16	114 52 3	15	2.0	10.0	>1.0	>5,000	N	20	<5	30	150
82TM254	34 15 7	114 50 59	10	3.0	10.0	>1.0	3,000	N	15	<5	30	100
82TM256	34 13 14	114 40 52	10	2.0	5.0	1.0	1,500	N	30	N	20	100
82TM257	34 14 2	114 41 52	7	2.0	5.0	1.0	1,000	N	20	N	15	100
82TM259	34 15 15	114 44 40	7	2.0	3.0	1.0	1,000	N	20	N	15	70
82TM260	34 14 29	114 42 53	7	2.0	7.0	1.0	1,500	N	30	N	15	100
82TM261	34 14 45	114 43 10	7	3.0	5.0	1.0	1,500	N	20	N	20	100
82TM262	34 14 30	114 43 57	10	3.0	10.0	>1.0	1,500	N	70	<5	20	100
82TM263	34 15 57	114 44 21	10	2.0	7.0	>1.0	1,000	N	30	N	20	100

Stream Sediments--continued

Table 3.-- continued

Sample	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	Y-ppm S	Zn-ppm S
82TM214	30	200	N	20	20	30	N	300	200	150	N
82TM215	70	150	N	50	50	50	N	1,000	200	70	N
82TM216	50	100	N	100	100	150	N	1,000	200	50	N
82TM217	20	70	N	10	10	150	N	500	150	50	N
82TM218	50	100	N	<20	20	70	N	200	200	150	<200
82TM220	30	200	N	20	20	50	20	500	200	200	N
82TM221	50	200	N	20	20	50	10	500	200	300	<200
82TM222	30	200	N	20	15	50	N	500	100	200	N
82TM223	50	300	N	20	20	50	15	500	150	300	<200
82TM224	50	300	N	20	50	50	20	700	200	300	<200
82TM225	50	150	N	<20	30	50	N	500	200	70	N
82TM226	30	100	N	N	70	30	N	500	150	50	N
82TM227	30	100	N	N	30	30	N	500	100	100	N
82TM228	30	100	N	N	70	50	N	500	150	70	N
82TM229	30	100	N	N	70	50	N	500	150	50	N
82TM230	20	100	N	N	70	50	N	300	100	50	N
82TM231	50	100	N	<20	50	50	N	500	150	70	N
82TM232	50	100	N	<20	100	30	N	500	200	70	200
82TM233	20	150	N	N	30	30	N	700	100	50	N
82TM234	30	150	N	N	20	50	N	200	100	100	N
82TM235	50	200	N	30	15	50	30	300	150	500	N
82TM236	30	200	N	<20	15	30	10	200	100	300	N
82TM237	20	200	N	20	15	50	N	500	150	100	N
82TM238	20	200	N	N	20	50	N	300	100	70	N
82TM239	30	100	N	<20	20	70	N	500	500	100	N
82TM240	20	150	N	N	15	50	N	300	200	70	N
82TM241	30	100	N	N	30	30	N	500	300	70	N
82TM242	20	100	N	N	30	50	N	700	150	50	N
82TM243	30	150	N	N	30	30	10	200	200	100	N
82TM244	30	200	N	<20	30	50	20	200	200	200	N
82TM245	30	150	5	N	20	50	<10	300	200	150	<200
82TM246	50	200	N	<20	20	30	N	200	200	70	N
82TM247	30	200	N	<20	15	30	N	200	200	200	N
82TM248	50	200	N	N	20	30	N	200	200	100	N
82TM251	50	100	N	<20	30	50	N	200	200	100	N
82TM252	30	150	N	20	15	50	30	100	200	500	N
82TM253	50	200	N	20	50	50	N	200	200	200	<200
82TM254	50	200	N	<20	20	50	N	300	200	150	N
82TM256	20	150	N	<20	20	50	N	500	150	100	N
82TM257	20	50	N	<20	15	50	N	300	100	70	N
82TM259	20	70	N	N	20	30	N	300	100	50	N
82TM260	20	150	N	N	20	30	N	500	100	70	N
82TM261	30	70	N	N	20	50	N	300	100	50	N
82TM262	30	100	N	N	30	70	N	700	200	100	N
82TM263	30	150	<5	N	30	50	N	500	200	70	N

Table 3.— continued

Stream Sediments—continued

Sample	Latitude	Longitude	Fe-ppt. S	Mg-ppt. S	Ca-ppt. S	Ti-pct. S	Mn-ppt S	Ag-ppt S	B-ppt S	Ba-ppt S	Be-ppt S	Co-ppt S	Cr-ppt S
821M264	34 15 32	114 43 10	7	2.0	5.0	>1.0	1,000	N	50	1,000	N	20	70
821M265	34 16 4	114 43 14	7	3.0	10.0	1.0	1,500	<.5	50	1,000	N	20	100
821M266	34 16 51	114 42 54	7	2.0	7.0	1.0	1,500	N	50	700	N	20	100
821M267	34 16 58	114 42 58	5	2.0	7.0	1.0	1,500	N	30	1,000	N	20	100
821M268	34 17 28	114 44 10	10	2.0	7.0	>1.0	1,500	N	50	1,000	<5	20	100
821M269	34 17 32	114 44 6	15	3.0	5.0	>1.0	2,000	N	50	700	N	20	150
821M270	34 17 46	114 44 56	10	3.0	10.0	1.0	1,500	N	50	1,500	<5	20	100
821M271	34 18 6	114 45 2	7	5.0	7.0	1.0	1,000	N	20	1,500	<5	20	70
821M272	34 18 31	114 44 43	7	2.0	5.0	1.0	2,000	N	30	1,500	<5	20	70
821M273	34 18 57	114 43 54	7	2.0	5.0	1.0	1,000	N	30	1,000	<5	15	50
821M274	34 18 33	114 42 55	7	3.0	7.0	1.0	1,500	<.5	70	1,000	<5	20	100
821M275	34 18 52	114 42 21	7	2.0	10.0	.7	1,500	N	50	1,000	<5	20	50
821M276	34 18 49	114 41 33	7	3.0	10.0	1.0	1,500	N	50	1,000	<5	20	70
821M277	34 22 11	114 57 49	10	2.0	7.0	1.0	2,000	N	20	1,000	<5	20	50
821M278	34 22 6	114 56 44	10	2.0	10.0	>1.0	2,000	N	30	1,000	<5	20	70
821M279	34 22 7	114 53 16	10	2.0	5.0	>1.0	2,000	N	30	1,500	N	20	100
821M282	34 22 17	114 51 43	20	1.5	5.0	>1.0	>5,000	N	20	700	N	30	50
821M283	34 22 57	114 51 18	10	3.0	7.0	>1.0	2,000	N	20	700	N	20	200
821M284	34 24 32	114 52 50	10	5.0	7.0	1.0	1,500	N	50	1,000	N	20	200
821M285	34 23 29	114 50 57	10	3.0	7.0	1.0	2,000	N	50	1,500	<5	20	150
821M286	34 25 12	114 52 24	10	2.0	10.0	>1.0	2,000	N	30	700	N	20	200
821M287	34 26 1	114 53 29	15	3.0	10.0	>1.0	2,000	N	30	1,500	<5	30	200
821M288	34 25 28	114 50 26	10	2.0	5.0	>1.0	1,500	N	30	1,000	<5	20	150
821M289	34 24 22	114 50 27	7	3.0	5.0	1.0	1,500	N	50	2,000	N	15	100
821M290	34 23 49	114 49 52	10	5.0	10.0	>1.0	3,000	N	20	1,500	N	30	200
821M291	34 23 57	114 49 57	20	7.0	7.0	>1.0	2,000	N	20	1,000	N	50	500
821M293	34 22 26	114 49 18	10	3.0	5.0	1.0	1,500	N	50	1,500	N	20	200
821M294	34 22 10	114 47 58	10	5.0	10.0	1.0	2,000	N	50	2,000	N	30	700
821M295	34 22 31	114 47 39	15	7.0	10.0	>1.0	2,000	N	50	1,500	N	50	700
821M296	34 22 45	114 47 59	10	5.0	10.0	>1.0	2,000	N	50	2,000	<5	30	150
821M297	34 22 46	114 47 50	7	3.0	5.0	1.0	1,000	N	30	1,000	N	30	150
821M298	34 21 45	114 46 19	10	2.0	5.0	>1.0	1,500	N	50	1,000	<5	30	150
821M299	34 22 44	114 46 11	15	3.0	7.0	>1.0	2,000	.5	50	1,000	N	30	150
821M300	34 23 16	114 46 47	7	2.0	5.0	1.0	1,500	N	50	2,000	<5	20	100
821M301	34 23 13	114 45 37	10	2.0	7.0	>1.0	1,500	N	70	1,000	<5	30	200
821M302	34 24 12	114 46 5	7	2.0	7.0	1.0	1,500	N	50	1,500	<5	20	100
821M303	34 24 45	114 45 19	7	3.0	7.0	1.0	2,000	N	70	1,500	<5	20	200
821M304	34 25 28	114 46 34	10	3.0	5.0	>1.0	1,500	N	30	1,000	N	30	200
821M305	34 26 5	114 47 4	10	3.0	7.0	>1.0	2,000	N	70	1,000	N	20	200
821M306	34 26 20	114 48 25	15	5.0	10.0	>1.0	3,000	N	50	2,000	N	50	200
821M307	34 18 13	114 40 13	15	3.0	7.0	>1.0	2,000	N	50	1,000	N	20	200
821M308	34 17 57	114 41 1	7	3.0	7.0	1.0	1,500	N	50	1,500	N	15	100
821M309	34 17 54	114 42 5	10	5.0	10.0	>1.0	1,500	N	50	1,000	N	20	150
821M310	34 17 54	114 42 55	7	5.0	7.0	1.0	1,500	1.0	70	1,000	<5	15	100

Stream Sediments--continued

Table 3.-- continued

Sample	Cu--ppm s	La--ppm s	Mo--ppm s	Nb--ppm s	Ni--ppm s	Pb--ppm s	Sn--ppm s	Sr--ppm s	V--ppm s	Y--ppm s	Zn--ppm s
82TM264	20	100	N	N	20	50	N	500	200	50	N
82TM265	20	100	N	N	20	70	N	700	150	50	N
82TM266	20	70	N	N	20	50	N	500	100	50	N
82TM267	15	100	N	N	20	70	N	700	100	50	N
82TM268	20	100	N	N	20	50	N	700	150	70	N
82TM269	30	150	N	<20	30	50	N	500	200	70	N
82TM270	20	70	N	N	30	70	N	1,000	100	50	N
82TM271	30	70	N	N	30	50	N	1,000	100	50	N
82TM272	20	100	N	<20	20	50	N	1,000	100	70	N
82TM273	20	150	10	N	15	50	N	700	100	50	N
82TM274	30	100	N	N	20	70	N	700	100	50	N
82TM275	20	150	N	N	20	50	N	500	100	70	N
82TM276	30	70	N	N	20	70	N	500	150	70	N
82TM277	30	100	N	20	15	70	N	500	100	70	N
82TM278	30	150	7	20	20	70	N	500	150	70	N
82TM279	30	150	N	30	30	50	N	500	150	100	<200
82TM282	50	200	N	30	20	30	N	500	200	200	200
82TM283	30	70	N	N	50	50	N	700	150	70	N
82TM284	20	150	N	N	30	70	N	700	100	70	N
82TM285	20	150	N	<20	20	70	N	1,000	200	70	N
82TM286	30	150	N	N	20	30	N	700	200	70	N
82TM287	50	100	N	<20	50	50	N	700	200	70	<200
82TM288	20	100	N	20	30	30	N	500	200	50	N
82TM289	30	50	N	N	20	50	N	1,000	150	30	N
82TM290	50	100	N	N	70	50	N	700	300	70	<200
82TM291	30	100	N	20	70	20	N	1,000	300	70	200
82TM293	20	100	5	N	30	50	N	700	150	50	N
82TM294	30	150	N	<20	70	50	N	700	200	70	N
82TM295	50	70	N	<20	100	50	N	700	200	70	N
82TM296	30	150	N	<20	30	50	N	700	150	70	N
82TM297	30	100	N	<20	30	30	N	500	150	50	N
82TM298	30	100	7	20	20	50	N	500	200	70	N
82TM299	50	100	N	<20	50	70	N	500	200	70	N
82TM300	20	100	7	<20	20	70	N	700	100	50	N
82TM301	30	100	N	20	50	70	N	700	200	100	N
82TM302	20	100	N	<20	30	70	N	700	200	70	<200
82TM303	30	150	N	<20	50	70	N	700	200	70	<200
82TM304	30	100	N	<20	30	50	N	500	200	70	N
82TM305	50	150	N	<20	50	50	N	500	200	70	N
82TM306	50	150	N	20	70	70	N	1,000	300	70	200
82TM307	50	200	N	20	50	50	N	700	200	200	N
82TM308	20	150	10	<20	20	70	N	500	150	50	N
82TM309	30	100	N	<20	20	100	N	500	200	100	N
82TM310	20	100	<5	<20	30	50	N	500	150	50	N

[Element concentrations reported in parts per million (ppm) except Fe, Mg, Ca, and Ti which are reported in percent. Element concentrations coded with an N, S, or > indicate; not detected, detected but below limit of determination, and greater than upper limit of determination. Latitude and longitude are given in degrees, minutes, and seconds.]

Sample	Latitude	Longitude	Fe-pct. %	Mg-pct. %	Ca-pct. %	Ti-pct. %	Mn-ppm S	B-ppm S	Ba-ppm S
82TM001N	34 13 51	114 41 8	2.0	1.50	5	>2.0	1,500	<20	500
82TM002N	34 14 25	114 41 20	2.0	1.00	5	>2.0	1,000	<20	500
82TM003N	34 14 36	114 41 29	1.0	.50	5	>2.0	500	<20	3,000
82TM004N	34 15 30	114 41 10	1.0	.50	5	>2.0	500	<20	700
82TM005N	34 16 5	114 41 52	1.0	.50	5	>2.0	500	<20	300
82TM006N	34 16 38	114 41 31	1.5	1.00	10	>2.0	700	<20	500
82TM007N	34 19 13	114 40 46	1.0	1.00	5	>2.0	700	<20	500
82TM008N	34 19 23	114 44 50	.7	.50	5	>2.0	700	<20	150
82TM010N	34 19 13	114 45 32	.7	.20	5	>2.0	700	<20	10,000
82TM011N	34 19 19	114 45 41	.5	.50	5	>2.0	700	<20	3,000
82TM012N	34 20 8	114 44 16	1.0	1.00	5	>2.0	700	<20	700
82TM013N	34 10 59	114 48 21	1.0	1.00	5	>2.0	700	<20	200
82TM014N	34 10 52	114 48 33	1.0	1.00	5	>2.0	700	<20	500
82TM015N	34 11 22	114 48 43	.7	.50	10	>2.0	700	<20	3,000
82TM016N	34 11 37	114 49 9	.7	.50	10	>2.0	700	<20	300
82TM017N	34 12 12	114 49 56	.7	.20	5	>2.0	500	<20	3,000
82TM018N	34 12 22	114 49 47	.7	.50	5	>2.0	500	<20	700
82TM019N	34 12 59	114 49 28	.7	.10	10	>2.0	700	<20	50
82TM020N	34 12 38	114 49 29	.7	.20	10	>2.0	700	<20	70
82TM021N	34 12 56	114 48 54	.7	.20	10	>2.0	700	<20	150
82TM022N	34 12 49	114 48 53	1.0	1.00	10	>2.0	700	<20	150
82TM023N	34 12 20	114 49 37	.7	.50	10	>2.0	700	<20	100
82TM024N	34 12 3	114 47 0	.5	.20	5	>2.0	1,000	<20	500
82TM025N	34 12 36	114 47 18	1.5	.50	2	>2.0	500	<20	300
82TM026N	34 12 29	114 47 50	1.0	.50	5	>2.0	700	<20	300
82TM027N	34 12 34	114 48 1	1.0	.20	5	>2.0	700	<20	200
82TM028N	34 12 37	114 47 54	1.0	.50	5	>2.0	700	<20	200
82TM029N	34 14 33	114 47 53	1.0	.20	5	>2.0	700	<20	5,000
82TM030N	34 14 31	114 47 43	.5	.10	10	2.0	1,000	<20	100
82TM031N	34 14 39	114 47 9	.5	.10	10	2.0	700	<20	50
82TM032N	34 17 41	114 55 24	.7	.50	10	>2.0	700	<20	1,000
82TM033N	34 17 45	114 55 20	.5	.20	5	>2.0	700	<20	1,000
82TM034N	34 17 28	114 54 44	.5	.20	10	>2.0	700	<20	3,000
82TM035N	34 17 20	114 54 39	.5	.20	10	>2.0	700	<20	200
82TM037N	34 16 18	114 55 33	.5	.20	10	>2.0	500	<20	1,000
82TM039N	34 15 19	114 55 38	.5	.20	5	>2.0	700	<20	3,000
82TM040N	34 15 52	114 54 8	.3	.10	10	2.0	700	<20	150
82TM041N	34 16 10	114 53 40	.3	.05	10	2.0	700	<20	100
82TM042N	34 16 39	114 53 25	.3	.05	10	1.5	700	<20	150
82TM043N	34 16 53	114 53 10	.3	.10	10	2.0	700	<20	150
82TM044N	34 17 22	114 53 34	.5	.20	10	2.0	500	<20	1,000
82TM045N	34 17 31	114 53 12	.5	.20	10	>2.0	500	<20	500
82TM046N	34 18 18	114 53 24	.5	.20	10	>2.0	700	<20	50
82TM047N	34 18 16	114 53 15	.5	.20	10	>2.0	700	<20	50
82TM048N	34 16 13	114 53 10	.5	.10	10	2.0	700	<20	200

Sample	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Pb-ppm s
82TM001N	N	N	10	50	30	300	N	100	30
82TM002N	N	N	10	20	70	500	N	100	70
82TM003N	N	N	N	50	30	700	N	50	30
82TM004N	N	N	N	20	50	700	N	70	30
82TM005N	N	N	N	N	50	500	N	70	20
82TM006N	N	N	N	50	70	700	N	70	50
82TM007N	N	N	N	70	30	500	N	70	20
82TM008N	N	N	N	20	30	500	N	70	30
82TM010N	N	N	N	N	30	700	N	50	30
82TM011N	N	N	N	20	20	500	N	50	30
82TM012N	N	N	N	N	50	700	N	50	30
82TM013N	N	N	N	20	100	700	N	50	30
82TM014N	N	N	N	20	30	700	N	70	30
82TM015N	N	N	N	N	20	500	N	70	20
82TM016N	N	N	N	N	30	700	N	50	30
82TM017N	N	200	N	20	30	300	N	50	50
82TM018N	N	N	N	20	30	500	N	50	30
82TM019N	N	N	N	N	20	200	N	100	30
82TM020N	N	N	N	N	500	200	N	50	70
82TM021N	N	N	N	20	20	300	N	50	20
82TM022N	N	N	N	20	50	500	N	<50	200
82TM023N	N	N	N	20	30	700	N	70	50
82TM024N	N	30	N	N	200	700	N	70	200
82TM025N	N	N	N	50	150	150	500	70	1,000
82TM026N	N	70	N	50	200	700	N	70	500
82TM027N	N	50	N	50	100	500	N	70	150
82TM028N	N	N	N	70	50	500	N	100	70
82TM029N	N	50	N	50	300	300	N	70	70
82TM030N	N	N	N	N	10	200	N	50	50
82TM031N	N	N	N	N	50	150	N	<50	50
82TM032N	N	N	N	N	500	700	N	<50	100
82TM033N	N	N	N	N	70	700	N	70	50
82TM034N	N	N	N	N	70	700	N	100	100
82TM035N	N	N	N	N	15	700	N	<50	70
82TM037N	N	30	N	N	15	700	N	<50	70
82TM039N	N	N	N	N	70	700	N	<50	100
82TM040N	N	N	N	N	10	300	N	<50	70
82TM041N	N	N	N	N	10	300	N	<50	70
82TM042N	N	N	N	N	10	300	N	<50	70
82TM043N	N	N	N	N	10	300	N	<50	50
82TM044N	N	N	N	N	10	300	30	<50	5,000
82TM045N	N	N	N	N	15	500	N	70	150
82TM046N	N	N	N	N	20	500	N	50	700
82TM047N	N	N	N	N	20	500	N	50	50
82TM048N	N	N	N	N	10	300	N	<50	70

Table 4.-- continued

Non-magnetic Panned Concentrates

Sample	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zr-ppm s	Th-ppm s
82TM001N	N	50	200	50	N	1,000	>2,000	200
82TM002N	N	50	200	50	N	1,000	>2,000	N
82TM003N	N	50	200	50	N	1,500	>2,000	500
82TM004N	N	70	200	50	N	1,000	>2,000	N
82TM005N	N	70	200	50	N	1,500	>2,000	N
82TM006N	50	100	200	200	N	2,000	>2,000	N
82TM007N	10	70	200	50	N	1,500	>2,000	<200
82TM008N	10	70	200	50	N	1,000	>2,000	200
82TM010N	N	50	200	200	N	1,000	>2,000	<200
82TM011N	N	70	200	50	N	1,000	>2,000	<200
82TM012N	N	70	200	200	N	2,000	>2,000	<200
82TM013N	N	50	200	200	200	500	>2,000	500
82TM014N	N	70	200	200	100	1,000	>2,000	N
82TM015N	N	20	500	150	200	500	>2,000	N
82TM016N	N	70	200	200	200	1,000	>2,000	N
82TM017N	N	20	200	50	2,000	1,000	>2,000	200
82TM018N	N	50	200	50	1,500	1,000	>2,000	<200
82TM019N	N	70	200	100	100	2,000	>2,000	N
82TM020N	N	70	200	100	100	2,000	>2,000	N
82TM021N	N	70	200	50	N	2,000	>2,000	N
82TM022N	N	70	200	200	3,000	500	>2,000	200
82TM023N	10	70	N	200	1,000	500	>2,000	<200
82TM024N	N	70	200	200	500	500	>2,000	1,000
82TM025N	N	N	N	200	500	200	>2,000	500
82TM026N	N	50	200	200	2,000	1,000	>2,000	N
82TM027N	N	70	200	200	500	1,000	>2,000	N
82TM028N	N	50	200	200	500	700	>2,000	N
82TM029N	N	70	200	150	1,000	1,000	>2,000	300
82TM030N	N	70	200	50	200	1,000	>2,000	N
82TM031N	N	30	200	30	N	500	>2,000	N
82TM032N	30	50	200	200	N	1,000	>2,000	200
82TM033N	30	50	200	50	N	1,000	>2,000	N
82TM034N	30	50	200	50	150	1,500	>2,000	200
82TM035N	N	70	200	150	700	500	>2,000	N
82TM037N	N	30	3,000	150	N	500	>2,000	500
82TM039N	30	50	200	50	N	1,500	>2,000	1,000
82TM040N	20	20	200	70	N	500	>2,000	N
82TM041N	20	30	200	50	N	500	>2,000	N
82TM042N	20	N	200	50	N	500	>2,000	N
82TM043N	N	30	200	50	100	500	>2,000	N
82TM044N	N	30	200	500	500	1,000	>2,000	N
82TM045N	20	30	200	150	200	500	>2,000	N
82TM046N	20	50	200	200	500	500	>2,000	200
82TM047N	20	70	200	50	200	1,500	>2,000	N
82TM048N	20	50	200	50	300	1,500	>2,000	200

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s
82TM049N	34 16 23	114 52 46	.5	.15	5	2.0	500	<20	150
82TM050N	34 17 11	114 52 19	.5	.10	10	1.5	700	<20	500
82TM051N	34 17 9	114 52 14	.5	.10	20	2.0	700	<20	700
82TM052N	34 20 0	114 53 40	.5	.20	5	2.0	700	<20	1,000
82TM053N	34 19 49	114 52 52	.3	.10	5	2.0	500	<20	100
82TM054N	34 19 30	114 53 1	.5	.20	5	2.0	700	<20	200
82TM055N	34 19 18	114 52 28	.5	.20	5	2.0	500	<20	5,000
82TM056N	34 19 12	114 52 27	.7	.10	5	>2.0	700	<20	5,000
82TM057N	34 20 34	114 54 36	.7	.15	5	>2.0	700	<20	1,500
82TM058N	34 18 51	114 47 21	1.0	.20	5	>2.0	700	<20	5,000
82TM059N	34 19 5	114 47 44	.5	.20	5	>2.0	500	<20	>10,000
82TM060N	34 19 43	114 48 56	.5	.10	5	>2.0	500	<20	10,000
82TM061N	34 19 16	114 48 18	.5	.10	5	>2.0	500	<20	10,000
82TM062N	34 17 51	114 46 26	.5	.50	5	>2.0	700	<20	500
82TM063N	34 17 20	114 46 6	.7	.20	5	>2.0	700	<20	200
82TM064N	34 16 44	114 45 28	.5	.20	10	>2.0	700	<20	100
82TM065N	34 15 26	114 44 47	.5	.20	5	>2.0	700	<20	150
82TM066N	34 7 9	114 48 34	1.0	.20	5	>2.0	700	<20	50
82TM067N	34 7 58	114 48 4	1.0	.20	5	>2.0	700	<20	50
82TM068N	34 8 1	114 46 53	1.0	.20	5	>2.0	700	<20	700
82TM069N	34 8 26	114 48 11	1.0	.30	5	>2.0	700	<20	50
82TM070N	34 9 36	114 47 48	1.0	.20	10	>2.0	700	<20	100
82TM071N	34 7 56	114 49 14	.5	.50	10	>2.0	700	<20	150
82TM072N	34 8 38	114 50 26	1.0	.20	5	>2.0	700	<20	300
82TM073N	34 7 51	114 50 26	.5	.20	20	>2.0	2,000	<20	100
82TM074N	34 8 32	114 49 20	.5	.50	5	>2.0	700	<20	300
82TM075N	34 9 22	114 50 0	1.0	.50	5	>2.0	700	<20	2,000
82TM076N	34 10 34	114 49 35	.7	.50	5	>2.0	700	<20	300
82TM077N	34 10 59	114 51 26	.5	.20	5	>2.0	500	<20	700
82TM078N	34 11 40	114 51 43	.7	.20	5	>2.0	500	<20	5,000
82TM079N	34 12 20	114 51 56	.5	.20	5	>2.0	500	<20	1,500
82TM080N	34 13 16	114 51 45	.5	.20	5	>2.0	500	<20	1,000
82TM081N	34 14 6	114 51 39	.2	.10	10	2.0	700	<20	150
82TM082N	34 12 24	114 50 49	2.0	.50	5	2.0	3,000	<20	500
82TM083N	34 12 22	114 50 42	.5	.50	5	>2.0	700	<20	200
82TM084N	34 13 45	114 51 7	.2	.10	10	2.0	500	<20	500
82TM085N	34 14 9	114 50 37	.5	.10	10	2.0	700	<20	150
82TM086N	34 13 52	114 50 22	.5	.10	10	2.0	500	<20	100
82TM087N	34 14 18	114 49 43	.5	.20	5	>2.0	500	<20	500
82TM088N	34 13 16	114 51 45	.2	.05	5	2.0	500	<20	700
82TM089N	34 13 55	114 53 50	.5	.20	5	>2.0	500	<20	300
82TM090N	34 14 30	114 53 59	.2	.05	10	1.0	500	<20	10,000
82TM091N	34 10 6	114 48 35	.5	.10	5	2.0	500	<20	1,500
82TM092N	34 10 57	114 47 34	.5	.50	5	>2.0	500	<20	500
82TM093N	34 11 14	114 47 19	.2	.05	10	2.0	500	<20	200

Non-magnetic Panned Concentrates--continued

Table 4.-- continued

Sample	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Pb-ppm s
82TM049N	N	N	N	N	10	300	N	N	70
82TM050N	N	N	N	N	10	300	N	<50	50
82TM051N	N	N	N	N	10	300	N	N	500
82TM052N	N	50	N	N	20	700	N	<50	50
82TM053N	N	N	N	N	70	500	N	N	1,000
82TM054N	N	N	N	N	15	500	N	N	500
82TM055N	N	N	N	N	15	300	N	N	200
82TM056N	N	N	N	N	15	700	N	70	150
82TM057N	N	50	N	N	50	700	N	70	200
82TM058N	5	N	N	N	30	500	N	50	70
82TM059N	N	N	N	N	100	500	N	70	100
82TM060N	N	N	N	N	10	700	N	50	50
82TM061N	N	N	N	N	20	700	N	50	30
82TM062N	N	N	N	N	20	700	N	50	50
82TM063N	N	30	N	N	50	700	N	50	70
82TM064N	N	N	N	N	20	700	N	50	50
82TM065N	N	N	N	N	20	500	N	50	30
82TM066N	N	N	N	N	30	700	N	50	<20
82TM067N	N	N	N	N	30	700	N	200	<20
82TM068N	N	N	N	N	50	700	N	200	<20
82TM069N	N	N	N	N	50	700	N	50	<20
82TM070N	N	N	N	N	50	1,000	N	50	<20
82TM071N	N	N	N	N	20	700	N	200	20
82TM072N	N	N	N	N	100	700	N	50	150
82TM073N	N	N	N	N	20	700	N	200	20
82TM074N	N	N	N	N	30	700	N	70	50
82TM075N	5	N	N	N	20	700	N	150	20
82TM076N	N	N	N	N	20	500	N	70	20
82TM077N	N	N	N	N	20	300	N	70	20
82TM078N	N	N	N	N	100	200	N	70	20
82TM079N	N	N	N	N	10	50	N	<50	20
82TM080N	N	N	N	N	10	50	N	N	20
82TM081N	N	N	N	N	10	200	N	N	20
82TM082N	N	N	N	N	20	50	N	N	20
82TM083N	N	N	N	N	20	300	N	70	20
82TM084N	N	N	N	N	10	50	N	N	20
82TM085N	N	N	N	N	15	300	N	70	20
82TM086N	N	N	N	N	10	200	N	<50	20
82TM087N	N	N	N	N	20	50	N	<50	20
82TM088N	N	N	N	N	10	50	N	<50	20
82TM089N	N	N	N	N	20	300	N	50	20
82TM090N	N	N	N	N	<10	50	N	N	20
82TM091N	N	N	N	N	30	200	N	50	20
82TM092N	N	30	N	N	30	200	N	50	20
82TM093N	N	N	N	N	300	50	N	<50	20

Sample	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zr-ppm s	Th-ppm s
82TM049N	10	50	200	100	N	500	>2,000	N
82TM050N	10	20	200	50	N	500	>2,000	N
82TM051N	10	20	200	70	N	2,000	>2,000	<200
82TM052N	10	50	200	50	200	1,000	>2,000	<200
82TM053N	10	20	200	200	50	1,000	>2,000	200
82TM054N	10	50	200	150	300	1,000	>2,000	200
82TM055N	10	50	200	150	100	1,000	>2,000	200
82TM056N	20	70	200	100	<100	500	>2,000	N
82TM057N	20	70	200	150	200	1,000	>2,000	200
82TM058N	10	70	500	150	N	1,000	>2,000	500
82TM059N	10	70	1,000	50	N	700	>2,000	N
82TM060N	10	30	1,000	50	N	700	>2,000	N
82TM061N	10	50	700	50	N	1,000	>2,000	200
82TM062N	10	70	500	50	N	1,000	>2,000	N
82TM063N	10	70	200	50	N	1,500	>2,000	N
82TM064N	10	50	200	50	N	1,500	>2,000	N
82TM065N	10	50	200	50	N	1,000	>2,000	N
82TM066N	10	70	N	300	N	700	>2,000	300
82TM067N	10	70	N	300	<100	1,000	>2,000	300
82TM068N	10	70	N	300	<100	1,000	>2,000	300
82TM069N	10	70	N	300	N	1,000	>2,000	200
82TM070N	10	70	N	500	N	1,000	>2,000	500
82TM071N	10	70	N	200	N	1,000	>2,000	N
82TM072N	10	70	200	500	50	1,500	>2,000	300
82TM073N	10	50	200	200	N	3,000	>2,000	700
82TM074N	50	70	200	500	100	2,000	>2,000	700
82TM075N	10	70	200	500	200	500	>2,000	200
82TM076N	10	70	200	300	50	1,500	>2,000	N
82TM077N	10	70	200	50	<100	1,000	>2,000	200
82TM078N	10	70	200	50	150	1,000	>2,000	200
82TM079N	10	30	200	150	200	1,000	>2,000	N
82TM080N	10	20	200	150	500	1,000	>2,000	N
82TM081N	10	30	200	70	50	1,500	>2,000	N
82TM082N	50	30	200	100	200	1,000	>2,000	N
82TM083N	10	70	200	200	200	1,000	>2,000	N
82TM084N	10	N	200	100	<100	2,000	>2,000	N
82TM085N	10	70	200	70	N	2,000	>2,000	N
82TM086N	10	50	200	70	N	2,000	>2,000	N
82TM087N	10	70	200	200	50	1,000	>2,000	N
82TM088N	10	30	200	100	<100	500	>2,000	N
82TM089N	10	70	200	200	200	1,000	>2,000	<200
82TM090N	10	N	500	50	N	1,000	>2,000	N
82TM091N	10	30	200	50	200	1,000	>2,000	N
82TM092N	10	50	200	200	500	700	>2,000	200
82TM093N	10	30	200	50	N	500	>2,000	N

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s
82TM094N	34 12 59	114 47 37	.2	.10	10	>2.0	500	<20	700
82TM095N	34 13 5	114 47 35	.2	.10	5	>2.0	300	<20	2,000
82TM097N	34 13 57	114 46 40	.5	.10	5	>2.0	700	<20	700
82TM098N	34 16 11	114 56 37	1.0	.50	5	2.0	700	<20	500
82TM099N	34 16 28	114 56 57	.5	.10	10	2.0	700	<20	300
82TM100N	34 26 18	114 50 23	.5	.10	20	>2.0	700	<20	100
82TM101N	34 25 37	114 49 43	.5	.20	5	2.0	500	<20	700
82TM102N	34 25 6	114 48 52	.5	.20	5	2.0	200	<20	3,000
82TM103N	34 24 33	114 48 53	.3	.10	5	2.0	300	<20	300
82TM104N	34 24 57	114 48 15	.5	.20	5	>2.0	700	<20	5,000
82TM105N	34 23 58	114 47 11	.5	.50	10	>2.0	700	<20	300
82TM106N	34 24 18	114 46 48	.5	.20	5	>2.0	700	<20	200
82TM107N	34 27 32	114 52 54	5.0	1.00	5	>2.0	3,000	<20	500
82TM108N	34 26 59	114 53 17	.2	.10	5	>2.0	500	<20	100
82TM109N	34 25 53	114 54 18	.5	.50	5	>2.0	500	<20	150
82TM110N	34 25 4	114 54 2	.2	.20	5	>2.0	500	<20	150
82TM111N	34 24 30	114 53 47	.5	.20	5	>2.0	500	<20	150
82TM112N	34 20 52	114 46 17	.5	1.00	5	>2.0	1,000	<20	700
82TM113N	34 21 32	114 46 41	.5	.20	5	>2.0	700	<20	150
82TM114N	34 21 38	114 47 0	.5	.20	5	>2.0	700	<20	200
82TM115N	34 21 27	114 47 9	.5	.20	5	>2.0	700	<20	700
82TM116N	34 21 21	114 48 15	.5	.50	5	>2.0	700	<20	150
82TM117N	34 21 21	114 48 12	.5	.50	5	>2.0	700	<20	150
82TM118N	34 21 46	114 48 24	.5	.50	5	>2.0	700	<20	150
82TM119N	34 21 59	114 50 7	.3	.10	5	2.0	700	<20	500
82TM120N	34 15 34	114 48 11	.7	.20	5	>2.0	700	<20	200
82TM121N	34 17 54	114 50 26	.5	.10	20	1.0	700	<20	2,000
82TM122N	34 18 28	114 51 22	.3	.10	20	1.0	700	<20	500
82TM200N	34 16 55	114 57 12	.5	.10	5	2.0	500	<20	2,000
82TM201N	34 17 29	114 56 32	.2	.10	5	1.5	300	<20	2,000
82TM202N	34 18 31	114 56 51	.5	.10	5	2.0	500	<20	200
82TM203N	34 19 16	114 56 50	.5	.10	7	>2.0	700	<20	700
82TM204N	34 18 40	114 56 19	.5	.10	5	>2.0	500	<20	200
82TM205N	34 18 59	114 56 9	.5	.10	5	>2.0	700	<20	2,000
82TM206N	34 18 38	114 55 48	1.0	.20	5	>2.0	500	<20	5,000
82TM207N	34 19 14	114 54 40	.5	.10	5	>2.0	500	<20	7,000
82TM208N	34 19 11	114 54 31	.5	.10	5	>2.0	700	<20	5,000
82TM209N	34 19 50	114 55 19	.2	.05	5	1.0	500	<20	150
82TM210N	34 20 54	114 52 56	.5	.10	5	2.0	500	<20	200
82TM211N	34 21 32	114 51 36	.5	.10	10	2.0	500	<20	100
82TM212N	34 21 47	114 51 8	1.0	.10	20	1.0	700	<20	700
82TM213N	34 21 6	114 50 39	.5	.10	10	3.0	700	50	500
82TM214N	34 20 34	114 50 7	.2	.05	7	2.0	700	<20	200
82TM215N	34 20 31	114 50 1	.2	.10	7	2.0	200	<20	700
82TM216N	34 15 56	114 46 20	.5	.20	7	>2.0	500	<20	150

Sample	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Pb-ppm s
82TM094N	N	N	N	N	10	700	N	<50	20
82TM095N	N	N	N	N	10	50	N	<50	20
82TM097N	30	30	N	N	100	500	N	50	100
82TM098N	N	N	N	N	15	200	N	<50	20
82TM099N	N	N	N	N	10	200	N	<50	70
82TM100N	N	N	N	N	100	700	N	<50	100
82TM101N	N	N	N	N	10	200	N	50	20
82TM102N	N	N	N	N	50	100	N	<50	70
82TM103N	N	N	N	N	50	150	N	<50	30
82TM104N	N	N	N	N	10	500	N	50	30
82TM105N	N	N	N	N	30	700	N	<50	70
82TM106N	N	N	N	50	20	500	N	<50	50
82TM107N	N	N	5	20	30	300	N	<50	20
82TM108N	N	N	N	N	15	300	N	<50	N
82TM109N	N	N	N	50	15	500	N	<50	70
82TM110N	N	N	N	N	10	300	N	<50	20
82TM111N	N	N	N	N	15	300	N	50	50
82TM112N	N	N	N	20	20	300	N	100	50
82TM113N	N	N	N	N	20	500	N	50	50
82TM114N	N	N	N	N	20	500	N	50	50
82TM115N	N	N	N	20	20	500	N	50	70
82TM116N	N	N	N	20	20	500	N	50	50
82TM117N	N	N	N	N	20	500	N	50	20
82TM118N	N	N	N	N	20	500	N	<50	30
82TM119N	N	N	N	N	10	500	N	N	30
82TM120N	N	N	30	N	50	200	N	100	30
82TM121N	N	N	10	20	10	300	N	N	70
82TM122N	N	N	10	N	10	300	N	N	70
82TM200N	N	20	200	N	200	500	N	N	50
82TM201N	N	N	10	N	10	500	N	N	70
82TM202N	N	N	70	N	70	300	N	50	50
82TM203N	N	N	30	N	30	700	N	50	50
82TM204N	N	N	20	N	20	700	N	50	70
82TM205N	N	20	30	N	30	500	N	50	50
82TM206N	N	N	30	N	30	200	N	50	70
82TM207N	N	N	20	N	20	500	N	<50	50
82TM208N	N	N	20	N	30	500	N	50	70
82TM209N	N	N	10	N	10	500	N	N	70
82TM210N	N	N	10	N	10	700	N	<50	70
82TM211N	N	N	50	N	30	700	N	<50	500
82TM212N	N	N	20	N	20	200	200	N	500
82TM213N	N	N	50	N	100	500	N	100	200
82TM214N	N	N	50	N	100	500	N	50	500
82TM215N	N	N	10	N	10	200	N	N	150
82TM216N	N	N	70	N	100	500	N	70	30

Table 4.-- continued

Sample	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zr-ppm s	Th-ppm s
82TM094N	10	30	1,000	100	N	1,000	>2,000	N
82TM095N	10	N	200	100	N	700	>2,000	200
82TM097N	20	50	200	200	700	1,000	>2,000	200
82TM098N	10	N	500	150	N	500	>2,000	N
82TM099N	10	30	200	100	50	1,000	>2,000	N
82TM100N	50	50	200	70	N	3,000	>2,000	N
82TM101N	10	N	2,000	100	N	300	>2,000	N
82TM102N	10	N	2,000	70	N	200	>2,000	N
82TM103N	10	N	700	70	N	200	>2,000	<200
82TM104N	10	50	700	50	N	700	>2,000	N
82TM105N	50	70	700	50	N	700	>2,000	N
82TM106N	20	50	200	50	N	500	>2,000	N
82TM107N	50	N	200	150	N	300	>2,000	<200
82TM108N	70	N	200	150	N	700	>2,000	200
82TM109N	70	50	200	150	N	700	>2,000	N
82TM110N	20	N	200	50	N	500	>2,000	N
82TM111N	70	N	200	150	N	700	>2,000	<200
82TM112N	10	50	500	50	N	500	>2,000	N
82TM113N	50	150	200	150	N	700	>2,000	<200
82TM114N	50	50	200	50	N	700	>2,000	<200
82TM115N	20	50	200	150	N	700	>2,000	N
82TM116N	10	50	200	50	N	700	>2,000	N
82TM117N	10	30	200	50	N	700	>2,000	N
82TM118N	10	50	200	50	N	700	>2,000	N
82TM119N	10	N	200	100	N	700	>2,000	<200
82TM120N	10	50	200	50	200	1,000	>2,000	500
82TM121N	30	N	200	70	50	1,500	>2,000	N
82TM122N	50	N	200	50	100	3,000	>2,000	N
82TM200N	20	30	2,000	100	<100	1,000	>2,000	300
82TM201N	30	N	2,000	100	100	700	>2,000	500
82TM202N	10	50	200	100	50	700	>2,000	N
82TM203N	10	70	200	50	100	1,000	>2,000	<200
82TM204N	50	50	200	100	N	500	>2,000	<200
82TM205N	50	70	200	150	N	1,500	>2,000	N
82TM206N	30	30	300	100	N	1,000	>2,000	N
82TM207N	30	30	300	50	200	1,000	>2,000	200
82TM208N	50	70	200	50	N	1,500	>2,000	N
82TM209N	50	N	200	50	200	500	>2,000	700
82TM210N	10	N	200	70	50	1,000	>2,000	N
82TM211N	10	N	200	200	500	700	>2,000	300
82TM212N	10	N	200	50	500	500	>2,000	N
82TM213N	20	N	500	200	200	500	>5,000	<500
82TM214N	10	70	200	150	200	500	>2,000	N
82TM215N	50	N	200	70	N	500	>2,000	N
82TM216N	10	70	200	50	N	2,000	>2,000	<200

Table 4.-- continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-pptm S	B-pptm S	Ba-pptm S
82TM217N	34 15 34	114 47 35	.5	.10	7	>2.0	700	<20	150
82TM218N	34 15 40	114 48 39	.5	.20	7	>2.0	500	<20	50
82TM221N	34 17 21	114 49 15	.2	.05	7	2.0	500	<20	50
82TM222N	34 17 36	114 49 51	.5	.10	20	2.0	700	<20	50
82TM223N	34 18 43	114 50 34	.3	.05	5	2.0	700	<20	500
82TM224N	34 19 26	114 49 54	.2	.05	5	2.0	500	<20	1,500
82TM225N	34 19 40	114 49 31	.2	.10	5	2.0	500	<20	200
82TM226N	34 20 5	114 48 49	.5	1.00	5	2.0	500	<20	5,000
82TM227N	34 20 57	114 48 56	.2	.10	7	2.0	500	<20	3,000
82TM228N	34 20 15	114 48 10	.5	.20	5	2.0	700	<20	300
82TM229N	34 19 54	114 47 45	.5	.15	5	>2.0	700	20	150
82TM230N	34 20 0	114 47 41	.5	.30	5	>2.0	700	<20	150
82TM231N	34 20 49	114 46 50	.2	.10	5	2.0	500	<20	3,000
82TM232N	34 20 42	114 45 49	.5	.30	5	>2.0	500	<20	500
82TM233N	34 20 22	114 45 10	.5	.10	5	>2.0	500	<20	500
82TM234N	34 16 58	114 51 14	.2	.05	10	1.5	700	<20	700
82TM235N	34 16 39	114 50 51	.2	.05	5	1.5	500	<20	100
82TM236N	34 15 57	114 50 57	.3	.05	7	2.0	700	<20	100
82TM237N	34 7 22	114 50 26	.5	.10	5	>2.0	1,000	<20	50
82TM238N	34 9 55	114 49 11	.5	.30	7	>2.0	700	<20	3,000
82TM239N	34 9 46	114 48 17	1.0	.20	5	>2.0	1,000	<20	100
82TM240N	34 10 1	114 45 37	1.0	.10	7	>2.0	1,000	<20	200
82TM241N	34 10 52	114 45 57	.5	.20	7	>2.0	700	<20	150
82TM242N	34 14 53	114 45 4	.7	.20	5	>2.0	7,000	<20	1,000
82TM243N	34 14 30	114 49 51	.5	.10	7	>2.0	700	<20	300
82TM244N	34 14 58	114 51 33	.3	.10	10	2.0	700	<20	200
82TM245N	34 15 22	114 53 32	.5	.10	5	2.0	500	<20	2,000
82TM246N	34 15 32	114 52 38	.5	.10	5	2.0	500	<20	200
82TM247N	34 15 23	114 52 18	.2	.10	5	2.0	500	<20	100
82TM248N	34 15 52	114 52 19	.5	.10	5	2.0	500	<20	200
82TM251N	34 16 21	114 51 35	.5	.15	20	2.0	500	<20	150
82TM252N	34 15 28	114 50 39	.5	.10	10	2.0	500	<20	150
82TM253N	34 16 16	114 52 3	.5	.15	10	2.0	500	<20	200
82TM254N	34 15 7	114 50 59	.5	.15	10	>2.0	500	<20	150
82TM256N	34 13 14	114 40 52	.7	.20	5	>2.0	700	<20	150
82TM257N	34 14 2	114 41 52	1.0	.50	5	>2.0	700	<20	150
82TM259N	34 15 15	114 44 40	.7	.50	5	>2.0	700	<20	100
82TM260N	34 14 29	114 42 53	.7	.20	5	>2.0	700	<20	200
82TM261N	34 14 45	114 43 10	.5	.50	5	>2.0	700	<20	200
82TM262N	34 14 30	114 43 57	.5	.10	5	>2.0	700	<20	300
82TM263N	34 15 57	114 44 21	1.0	.50	5	>2.0	700	<20	700
82TM264N	34 15 32	114 43 10	.5	.50	5	>2.0	700	<20	150
82TM265N	34 16 4	114 43 14	1.0	.50	5	>2.0	700	<20	200
82TM266N	34 16 51	114 42 54	1.0	.50	7	>2.0	1,000	<20	150
82TM267N	34 16 58	114 42 58	.7	.50	5	>2.0	700	<20	200

Table 4.-- continued

Sample	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Pb-ppm s
82TM217N	N	N	20	N	20	200	N	200	<20
82TM218N	N	N	20	N	50	200	N	N	50
82TM221N	N	N	N	N	<10	200	N	N	70
82TM222N	N	N	N	N	10	700	N	<50	70
82TM223N	N	N	N	N	10	500	N	50	30
82TM224N	N	N	N	N	10	500	N	50	20
82TM225N	N	N	N	N	20	200	N	N	70
82TM226N	N	N	N	200	10	500	N	<50	50
82TM227N	N	N	N	50	10	300	N	<50	700
82TM228N	7	N	N	N	20	300	N	50	30
82TM229N	N	N	N	N	20	500	N	50	30
82TM230N	N	N	N	N	20	500	N	50	20
82TM231N	N	N	N	N	70	300	N	<50	700
82TM232N	N	N	N	N	50	300	N	70	50
82TM233N	N	N	N	20	50	300	N	50	30
82TM234N	N	N	N	N	10	300	N	<50	30
82TM235N	N	N	N	N	10	50	N	<50	50
82TM236N	N	N	N	N	10	200	N	50	50
82TM237N	N	N	N	N	20	500	N	100	30
82TM238N	N	N	N	N	20	500	N	70	200
82TM239N	N	N	N	20	30	700	N	200	<20
82TM240N	N	N	N	N	30	500	N	50	<20
82TM241N	N	N	N	N	20	500	N	70	<20
82TM242N	N	N	N	N	30	700	N	100	70
82TM243N	N	N	N	N	20	200	N	50	70
82TM244N	N	N	N	N	10	200	N	50	70
82TM245N	N	N	N	N	100	50	N	N	100
82TM246N	N	N	N	N	10	50	N	N	100
82TM247N	N	N	N	N	10	200	N	N	70
82TM248N	N	N	N	N	10	200	N	<50	70
82TM251N	N	N	N	N	30	500	N	N	70
82TM252N	N	N	N	N	10	300	N	50	70
82TM253N	N	N	N	N	10	300	N	N	100
82TM254N	7	N	N	N	10	200	N	<50	100
82TM256N	N	N	N	N	20	300	N	50	30
82TM257N	N	N	N	N	50	500	N	100	50
82TM259N	N	N	N	N	20	500	N	100	20
82TM260N	N	N	N	N	20	500	N	100	30
82TM261N	N	N	N	N	20	300	N	100	30
82TM262N	N	N	N	N	30	300	N	100	20
82TM263N	N	N	N	50	30	500	N	100	30
82TM264N	N	N	N	20	20	500	N	100	30
82TM265N	N	N	N	20	50	700	N	100	30
82TM266N	N	N	N	20	30	700	N	100	30
82TM267N	N	N	N	20	30	500	N	70	50

Table 4.-- continued

Sample	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zr-ppm s	Th-ppm s
82TM217N	10	50	200	50	N	700	>2,000	N
82TM218N	30	50	200	200	500	2,000	>2,000	2,000
82TM221N	50	20	200	50	N	1,000	>2,000	N
82TM222N	20	30	200	50	N	3,000	>2,000	N
82TM223N	10	70	200	50	N	1,000	>2,000	N
82TM224N	10	50	200	50	N	1,000	>2,000	N
82TM225N	20	N	200	100	100	1,000	>2,000	N
82TM226N	20	N	200	100	50	500	>2,000	300
82TM227N	20	N	200	70	700	1,000	>2,000	300
82TM228N	10	50	200	50	N	500	>2,000	N
82TM229N	10	50	200	50	N	500	>2,000	N
82TM230N	10	50	200	50	N	500	>2,000	N
82TM231N	20	20	200	50	100	1,500	>2,000	N
82TM232N	10	50	200	100	N	500	>2,000	<200
82TM233N	20	50	200	50	N	700	>2,000	N
82TM234N	10	30	200	30	100	500	>2,000	N
82TM235N	50	30	200	30	N	500	>2,000	N
82TM236N	20	70	200	50	100	500	>2,000	N
82TM237N	20	50	200	50	N	1,500	>2,000	300
82TM238N	20	50	200	50	150	1,500	>2,000	200
82TM239N	10	70	200	300	<100	500	>2,000	700
82TM240N	10	50	200	150	N	500	>2,000	<200
82TM241N	10	30	200	50	N	1,000	>2,000	200
82TM242N	10	70	200	50	N	700	>2,000	N
82TM243N	10	70	200	50	100	1,000	>2,000	N
82TM244N	20	50	200	70	<100	500	>2,000	N
82TM245N	50	N	200	100	100	1,000	>2,000	300
82TM246N	50	N	200	150	500	1,000	>2,000	300
82TM247N	50	N	200	70	N	1,000	>2,000	N
82TM248N	70	N	200	100	500	500	>2,000	200
82TM251N	10	N	200	70	700	1,000	>2,000	<200
82TM252N	50	50	200	70	N	500	>2,000	<200
82TM253N	50	20	200	100	<100	500	>2,000	200
82TM254N	70	70	200	50	200	1,500	>2,000	500
82TM256N	30	70	200	200	N	1,000	>2,000	200
82TM257N	30	70	200	200	N	1,000	>2,000	<200
82TM259N	30	70	200	200	N	1,000	>2,000	200
82TM260N	50	70	200	200	N	1,000	>2,000	200
82TM261N	30	70	200	200	N	1,000	>2,000	N
82TM262N	30	50	200	200	N	700	>2,000	N
82TM263N	30	70	200	200	N	1,000	>2,000	N
82TM264N	20	50	200	200	N	1,000	>2,000	<200
82TM265N	10	70	200	200	N	1,000	>2,000	N
82TM266N	20	70	200	200	N	1,000	>2,000	N
82TM267N	20	70	200	50	N	700	>2,000	N

Table 4.-- continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s
82TM268N	34 17 28	114 44 10	.5	.20	5	>2.0	700	<20	100
82TM269N	34 17 32	114 44 6	.5	.50	5	>2.0	700	<20	200
82TM270N	34 17 46	114 44 56	.5	.20	5	>2.0	500	<20	300
82TM271N	34 18 6	114 45 2	.5	.20	5	>2.0	500	<20	200
82TM272N	34 18 31	114 44 43	.5	.20	5	>2.0	500	<20	700
82TM273N	34 18 57	114 43 54	.5	.20	5	>2.0	700	<20	200
82TM274N	34 18 33	114 42 55	.7	.20	5	>2.0	700	<20	150
82TM275N	34 18 52	114 42 21	.7	.20	5	>2.0	700	<20	150
82TM276N	34 18 49	114 41 33	.5	.20	5	>2.0	700	<20	200
82TM277N	34 22 11	114 57 49	.5	.10	5	>2.0	500	<20	3,000
82TM278N	34 22 6	114 56 44	.5	.10	5	>2.0	500	<20	150
82TM279N	34 22 7	114 53 16	.2	.10	5	2.0	700	<20	100
82TM282N	34 22 17	114 51 43	.2	.05	5	1.0	200	<20	150
82TM283N	34 22 57	114 51 18	.5	.20	5	>2.0	700	<20	1,000
82TM284N	34 24 32	114 52 50	.5	.10	5	>2.0	700	<20	5,000
82TM285N	34 23 29	114 50 57	.5	.20	5	>2.0	700	<20	700
82TM286N	34 25 12	114 52 24	.5	.10	5	>2.0	700	<20	200
82TM287N	34 26 1	114 53 29	.3	.15	5	>2.0	500	<20	100
82TM288N	34 25 28	114 50 26	.2	.10	5	>2.0	200	<20	200
82TM289N	34 24 22	114 50 27	.5	.50	5	>2.0	500	<20	500
82TM290N	34 23 49	114 49 52	.5	.20	5	>2.0	500	<20	700
82TM291N	34 23 57	114 49 57	.5	.20	5	>2.0	500	<20	700
82TM292N	34 22 23	114 49 30	.5	.50	5	>2.0	500	<20	700
82TM293N	34 22 26	114 49 18	.5	.50	5	>2.0	500	<20	200
82TM294N	34 22 10	114 47 58	.5	.20	5	>2.0	500	<20	200
82TM295N	34 22 31	114 47 39	.5	.50	5	>2.0	500	<20	200
82TM296N	34 22 45	114 47 59	.5	.20	5	>2.0	700	<20	150
82TM297N	34 22 46	114 47 50	.5	.20	5	>2.0	700	<20	500
82TM298N	34 21 45	114 46 19	.5	.20	5	>2.0	700	<20	300
82TM300N	34 23 16	114 46 47	1.0	.50	10	>5.0	1,000	<50	300
82TM301N	34 23 13	114 45 37	.7	.50	5	>2.0	700	<20	150
82TM302N	34 24 12	114 46 5	.5	.50	5	>2.0	500	<20	200
82TM303N	34 24 45	114 45 19	1.5	.70	5	>2.0	1,000	<20	300
82TM304N	34 25 28	114 46 34	.5	.50	5	>2.0	700	20	300
82TM305N	34 26 5	114 47 4	1.5	1.00	5	>2.0	700	<20	150
82TM306N	34 26 20	114 48 25	1.0	1.00	5	>2.0	700	<20	200
82TM307N	34 18 13	114 40 13	1.0	.50	5	>2.0	700	<20	3,000
82TM308N	34 17 57	114 41 1	.5	.20	5	>2.0	700	<20	>10,000
82TM309N	34 17 54	114 42 5	.2	.50	10	>5.0	1,000	<50	1,000
82TM310N	34 17 54	114 42 55	.5	.20	10	>2.0	700	<20	200

Sample	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Pb-ppm s
82TM268N	N	N	N	N	20	500	N	50	50
82TM269N	N	N	N	N	20	500	N	70	50
82TM270N	N	N	N	N	100	200	N	100	200
82TM271N	N	N	N	N	10	200	N	50	50
82TM272N	N	N	N	N	20	200	N	70	20
82TM273N	N	N	N	N	20	200	N	50	20
82TM274N	N	N	N	N	20	300	N	50	50
82TM275N	N	N	N	N	20	500	N	50	50
82TM276N	N	N	N	N	20	500	N	50	50
82TM277N	N	N	N	N	20	500	N	<50	30
82TM278N	N	20	N	N	20	500	N	<50	30
82TM279N	N	N	N	N	50	700	N	N	1,000
82TM282N	N	N	N	N	<10	700	N	N	20
82TM283N	N	N	N	N	20	500	N	50	20
82TM284N	N	N	N	N	20	700	N	<50	20
82TM285N	N	N	N	N	20	700	N	50	20
82TM286N	N	N	N	N	20	700	N	50	20
82TM287N	N	N	N	N	20	300	N	20	20
82TM288N	N	N	N	N	10	50	N	N	50
82TM289N	N	N	N	N	10	50	N	<50	20
82TM290N	N	N	N	N	30	500	N	50	20
82TM291N	N	N	N	N	10	200	N	50	30
82TM292N	N	N	N	20	20	200	N	100	20
82TM293N	N	N	N	N	20	500	N	70	20
82TM294N	N	N	N	N	100	700	N	50	50
82TM295N	N	N	N	50	20	700	N	50	50
82TM296N	N	N	N	N	30	700	N	70	20
82TM297N	N	N	N	N	30	500	N	50	50
82TM298N	N	N	N	N	30	700	N	70	50
82TM300N	N	N	N	N	20	1,000	N	50	N
82TM301N	N	N	N	N	20	700	N	50	20
82TM302N	N	N	N	N	10	200	N	70	100
82TM303N	N	N	N	N	70	700	N	50	50
82TM304N	N	N	N	N	30	500	N	50	100
82TM305N	N	N	N	N	30	700	N	50	30
82TM306N	N	N	N	N	20	500	N	<50	70
82TM307N	N	N	N	N	20	700	N	70	100
82TM308N	N	N	N	N	20	700	N	70	20
82TM309N	N	N	N	N	20	500	N	200	N
82TM310N	N	N	N	N	20	700	N	50	70

Table 4.-- continued

Sample	Sc-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zr-ppm S	Th-ppm S
82TM268N	10	70	200	50	N	1,000	>2,000	200
82TM269N	10	70	200	50	N	1,000	>2,000	200
82TM270N	10	30	300	50	N	500	>2,000	N
82TM271N	10	50	300	50	N	700	>2,000	200
82TM272N	10	50	200	50	N	500	>2,000	200
82TM273N	10	50	N	50	N	700	>2,000	N
82TM274N	30	50	N	50	N	700	>2,000	<200
82TM275N	30	70	N	50	N	1,000	>2,000	N
82TM276N	20	70	N	50	N	700	>2,000	<200
82TM277N	30	30	N	100	N	1,000	>2,000	200
82TM278N	30	30	N	100	N	1,000	>2,000	<200
82TM279N	10	N	N	200	N	1,500	>2,000	200
82TM282N	10	N	200	50	N	1,000	>2,000	300
82TM283N	10	50	200	200	N	700	>2,000	N
82TM284N	10	50	300	200	N	700	>2,000	N
82TM285N	20	50	N	50	N	700	>2,000	<200
82TM286N	20	70	N	200	N	500	>2,000	N
82TM287N	30	30	N	200	N	700	>2,000	N
82TM288N	50	N	200	100	N	700	>2,000	N
82TM289N	10	30	700	100	N	300	>2,000	N
82TM290N	10	50	1,000	150	N	700	>2,000	N
82TM291N	10	30	500	100	N	300	>2,000	N
82TM292N	10	N	700	100	N	200	>2,000	N
82TM293N	10	N	700	50	N	500	>2,000	N
82TM294N	10	70	200	50	N	700	>2,000	N
82TM295N	10	50	500	50	N	500	>2,000	N
82TM296N	20	50	200	50	N	700	>2,000	N
82TM297N	20	100	200	50	N	700	>2,000	N
82TM298N	20	30	200	50	N	1,000	>2,000	N
82TM300N	20	N	500	200	N	500	>5,000	N
82TM301N	10	N	200	50	N	700	>2,000	N
82TM302N	10	N	200	100	N	500	>2,000	N
82TM303N	50	30	200	50	N	1,000	>2,000	N
82TM304N	10	50	200	50	N	700	>2,000	N
82TM305N	20	50	200	50	N	700	>2,000	N
82TM306N	20	20	700	100	N	500	>2,000	N
82TM307N	20	70	200	50	N	1,000	>2,000	N
82TM308N	10	50	500	150	N	1,000	>2,000	200
82TM309N	20	N	500	200	N	200	>5,000	N
82TM310N	30	70	200	50	N	700	>2,000	<200

Table 5.--Emission spectrographic results for magnetic heavy-mineral-concentrate samples collected in the Turtle Mountain Wilderness Study Area (BLM), San Bernardino County, California.

[Element concentrations reported in parts per million (ppm) except Fe, Mg, Ca, and Ti, which are reported in percent. Element concentrations coded with an N, <, or > indicate; not detected, detected but below limit of determination, and greater than upper limit of determination. Latitude and longitude are given in degrees, minutes, and seconds.]

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	(O-ppm s	Cr-ppm s	Cu-ppm s
82TM001F	34 13 51	114 41 8	15	3.0	5.0	>1.0	>5,000	50	50	50	50	150
82TM002F	34 14 25	114 41 20	15	3.0	7.0	>1.0	>5,000	50	100	50	200	100
82TM003F	34 14 36	114 41 29	15	3.0	7.0	>1.0	>5,000	50	300	70	500	100
82TM004F	34 15 30	114 41 10	15	3.0	7.0	>1.0	>5,000	50	700	70	500	50
82TM005F	34 16 5	114 41 52	15	3.0	5.0	>1.0	>5,000	50	500	70	500	100
82TM006F	34 16 38	114 41 31	15	3.0	7.0	>1.0	>5,000	50	500	70	200	50
82TM007F	34 19 13	114 40 46	10	5.0	7.0	>1.0	>5,000	50	200	70	1,000	100
82TM008F	34 19 23	114 44 50	15	5.0	7.0	>1.0	>5,000	50	1,000	70	500	100
82TM010F	34 19 13	114 45 32	15	3.0	5.0	>1.0	>5,000	50	700	70	500	100
82TM011F	34 19 19	114 45 41	10	5.0	7.0	1.0	>5,000	50	1,000	70	700	100
82TM012F	34 20 8	114 44 16	15	7.0	7.0	>1.0	>5,000	50	50	70	500	100
82TM013F	34 10 59	114 48 21	15	2.0	2.0	>1.0	>5,000	50	50	20	50	100
82TM014F	34 10 52	114 48 33	15	5.0	5.0	>1.0	>5,000	50	100	50	50	100
82TM015F	34 11 22	114 48 43	15	5.0	7.0	>1.0	>5,000	50	200	100	100	200
82TM016F	34 11 37	114 49 9	15	1.5	2.0	>1.0	>5,000	100	100	70	70	100
82TM017F	34 12 12	114 49 56	15	2.0	3.0	1.0	>5,000	100	100	50	70	100
82TM018F	34 12 22	114 49 47	20	2.0	2.0	1.0	>5,000	100	50	30	100	50
82TM019F	34 12 59	114 49 28	20	2.0	5.0	>1.0	>5,000	70	100	50	50	100
82TM020F	34 12 38	114 49 29	20	2.0	5.0	>1.0	>5,000	70	70	50	70	700
82TM021F	34 12 56	114 48 54	20	2.0	5.0	>1.0	>5,000	100	100	50	100	100
82TM022F	34 12 49	114 48 53	20	2.0	2.0	.7	>5,000	100	50	20	100	50
82TM023F	34 12 20	114 49 37	20	2.0	2.0	>1.0	>5,000	100	50	20	70	50
82TM024F	34 12 3	114 47 0	20	1.5	1.0	1.0	>5,000	100	20	10	20	100
82TM025F	34 12 36	114 47 18	20	2.0	1.5	1.0	>5,000	100	50	50	50	100
82TM026F	34 12 29	114 47 50	20	2.0	1.5	>1.0	>5,000	100	50	50	70	50
82TM027F	34 12 34	114 48 1	20	2.0	1.5	1.0	>5,000	100	50	30	50	100
82TM028F	34 12 37	114 47 54	20	3.0	2.0	>1.0	>5,000	100	200	50	50	150
82TM029F	34 14 33	114 47 53	15	3.0	5.0	1.0	>5,000	50	50	50	50	100
82TM030F	34 14 31	114 47 43	15	3.0	5.0	>1.0	>5,000	70	50	70	500	100
82TM031F	34 14 39	114 47 9	15	3.0	5.0	>1.0	>5,000	50	200	70	70	200
82TM032F	34 17 41	114 55 24	20	3.0	5.0	>1.0	>5,000	50	150	70	50	500
82TM033F	34 17 45	114 55 20	20	2.0	3.0	>1.0	>5,000	50	150	70	50	100
82TM034F	34 17 28	114 54 44	20	3.0	5.0	>1.0	>5,000	100	100	70	50	100
82TM035F	34 17 20	114 54 39	15	3.0	5.0	>1.0	>5,000	50	50	50	100	100
82TM037F	34 16 18	114 55 33	20	3.0	5.0	>1.0	>5,000	50	300	70	100	50
82TM039F	34 15 19	114 55 38	20	2.0	3.0	>1.0	>5,000	70	300	70	100	50
82TM040F	34 15 52	114 54 8	20	2.0	5.0	>1.0	>5,000	50	150	70	100	50
82TM041F	34 16 10	114 53 40	15	1.5	5.0	>1.0	>5,000	50	100	50	20	50
82TM042F	34 16 39	114 53 25	15	3.0	5.0	>1.0	>5,000	50	100	50	50	50
82TM043F	34 16 53	114 53 10	15	3.0	5.0	>1.0	>5,000	70	100	50	70	50
82TM044F	34 17 22	114 53 34	20	2.0	5.0	>1.0	>5,000	100	50	50	70	50
82TM045F	34 17 31	114 53 12	15	3.0	5.0	>1.0	>5,000	50	100	30	100	100
82TM046F	34 18 18	114 53 24	20	2.0	2.0	>1.0	>5,000	100	50	20	50	100
82TM047F	34 18 16	114 53 15	20	2.0	2.0	>1.0	>5,000	50	50	20	100	100
82TM048F	34 16 13	114 53 10	20	3.0	5.0	>1.0	>5,000	50	50	50	50	100

Table 5.-- continued

Magnetic Panned Concentrates

Sample	La-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sc-ppm S	Sn-ppm S	V-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S
82TM001F	300	70	50	70	100	<20	200	500	<500	1,000
82TM002F	300	70	70	100	100	<20	300	500	<500	>1,000
82TM003F	200	70	100	100	100	<20	300	500	<500	>1,000
82TM004F	300	100	100	300	100	N	300	500	<500	1,000
82TM005F	200	50	100	200	100	N	300	500	<500	1,000
82TM006F	300	70	100	70	100	N	300	500	<500	1,000
82TM007F	100	50	100	100	100	N	300	200	<500	300
82TM008F	300	50	100	100	100	N	300	300	<500	500
82TM010F	500	70	100	100	100	N	300	300	<500	1,000
82TM011F	50	50	150	200	100	N	300	100	N	50
82TM012F	200	50	200	50	100	N	300	200	N	500
82TM013F	300	70	50	100	100	N	300	500	<500	700
82TM014F	200	50	70	70	100	N	300	500	<500	200
82TM015F	300	50	70	70	100	N	300	300	<500	500
82TM016F	300	50	20	70	100	N	200	700	<500	500
82TM017F	100	50	50	50	100	N	200	1,000	500	200
82TM018F	300	50	20	70	100	N	200	1,000	<500	200
82TM019F	300	70	30	70	100	50	300	700	<500	500
82TM020F	500	100	30	200	100	50	200	700	2,000	1,000
82TM021F	300	70	50	70	100	30	300	300	<500	500
82TM022F	300	50	10	70	100	N	100	500	<500	150
82TM023F	300	50	10	50	100	N	50	1,000	<500	150
82TM024F	200	N	10	50	100	N	50	700	3,000	200
82TM025F	200	N	20	70	100	N	100	500	1,000	200
82TM026F	200	N	30	70	100	N	100	500	5,000	50
82TM027F	200	N	20	70	100	N	100	500	2,000	50
82TM028F	200	N	70	100	100	N	200	500	1,000	50
82TM029F	100	N	100	20	100	N	300	300	N	50
82TM030F	300	N	70	70	100	50	300	300	<500	1,000
82TM031F	500	N	70	70	100	70	200	700	<500	>1,000
82TM032F	500	N	70	70	100	N	300	1,000	<500	200
82TM033F	500	N	50	70	100	N	200	300	N	300
82TM034F	200	N	50	50	100	N	500	1,000	<500	50
82TM035F	200	N	50	50	100	N	500	300	N	50
82TM037F	1,000	N	100	200	100	20	200	1,000	N	500
82TM039F	1,000	N	70	100	100	<20	200	1,000	<500	1,000
82TM040F	1,000	N	50	100	100	50	150	500	N	>1,000
82TM041F	1,000	N	20	100	100	50	100	1,000	<500	1,000
82TM042F	1,000	N	50	70	100	50	100	1,000	N	1,000
82TM043F	700	N	50	70	100	50	100	1,000	<500	>1,000
82TM044F	500	N	50	20	100	N	300	500	N	50
82TM045F	500	N	70	70	100	N	200	1,000	N	1,000
82TM046F	1,000	N	20	100	100	N	100	2,000	N	500
82TM047F	500	N	50	70	100	N	100	1,000	N	500
82TM048F	500	N	50	50	100	N	300	500	N	500

Table 5.-- continued

Magnetic Panned Concentrates--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppt. s	B-ppt. s	Ba-ppt. s	Co-ppt. s	Cr-ppt. s	Cu-ppt. s
82TM049F	34 16 23	114 52 46	15	2.0	5.0	>1.0	>5,000	70	100	70	50	100
82TM050F	34 17 11	114 52 19	15	1.5	5.0	>1.0	>5,000	70	100	50	50	100
82TM051F	34 17 9	114 52 14	15	2.0	3.0	>1.0	>5,000	70	100	50	100	100
82TM052F	34 20 0	114 53 40	15	3.0	5.0	1.0	>5,000	70	50	70	50	150
82TM053F	34 19 49	114 52 52	15	3.0	5.0	1.0	>5,000	70	50	50	500	50
82TM054F	34 19 30	114 53 1	15	3.0	5.0	1.0	>5,000	70	50	70	50	100
82TM055F	34 19 18	114 52 28	15	3.0	5.0	>1.0	>5,000	100	50	50	500	50
82TM056F	34 19 12	114 52 27	15	2.0	5.0	>1.0	>5,000	100	100	70	50	100
82TM057F	34 20 34	114 54 36	15	2.0	5.0	>1.0	>5,000	100	50	70	200	100
82TM058F	34 18 51	114 47 21	15	5.0	5.0	>1.0	>5,000	70	150	70	1,000	70
82TM059F	34 19 5	114 47 44	15	3.0	5.0	>1.0	>5,000	70	100	50	300	50
82TM060F	34 19 43	114 48 56	15	3.0	5.0	>1.0	>5,000	70	20	70	500	100
82TM061F	34 19 16	114 48 18	15	5.0	5.0	>1.0	>5,000	70	50	70	500	100
82TM062F	34 17 51	114 46 26	15	5.0	5.0	>1.0	>5,000	70	150	70	700	100
82TM063F	34 17 20	114 46 6	15	5.0	5.0	>1.0	>5,000	70	300	70	700	100
82TM064F	34 16 44	114 45 28	15	5.0	5.0	>1.0	>5,000	70	200	70	700	100
82TM065F	34 15 26	114 44 47	15	2.0	3.0	>1.0	>5,000	70	30	70	200	100
82TM066F	34 7 9	114 48 34	15	3.0	7.0	>1.0	>5,000	70	50	70	700	100
82TM067F	34 7 58	114 48 4	15	3.0	5.0	>1.0	>5,000	70	30	50	50	100
82TM068F	34 8 1	114 46 53	15	5.0	7.0	>1.0	>5,000	50	50	50	200	70
82TM069F	34 8 26	114 48 11	15	3.0	7.0	>1.0	>5,000	50	30	50	200	70
82TM070F	34 9 36	114 47 48	15	3.0	7.0	>1.0	>5,000	50	20	50	50	70
82TM071F	34 7 56	114 49 14	15	3.0	7.0	>1.0	>5,000	50	100	50	1,000	100
82TM072F	34 8 38	114 50 26	15	3.0	5.0	>1.0	>5,000	50	70	70	200	100
82TM073F	34 7 51	114 50 26	20	3.0	5.0	>1.0	>5,000	100	200	70	500	100
82TM074F	34 8 32	114 49 20	20	2.0	2.0	>1.0	>5,000	50	100	70	700	50
82TM075F	34 9 22	114 50 0	20	3.0	3.0	>1.0	>5,000	100	700	70	50	200
82TM076F	34 10 34	114 49 35	20	2.0	2.0	>1.0	>5,000	100	50	20	70	70
82TM077F	34 10 59	114 51 26	20	3.0	5.0	>1.0	>5,000	70	200	70	100	50
82TM078F	34 11 40	114 51 43	20	3.0	3.0	>1.0	>5,000	100	300	50	100	50
82TM079F	34 12 20	114 51 56	20	2.0	3.0	>1.0	>5,000	100	200	50	100	50
82TM080F	34 13 16	114 51 45	20	2.0	3.0	>1.0	>5,000	100	200	50	70	200
82TM081F	34 14 6	114 51 39	20	3.0	5.0	>1.0	>5,000	70	100	50	30	100
82TM082F	34 12 24	114 50 49	20	3.0	2.0	>1.0	>5,000	100	100	50	100	50
82TM083F	34 12 22	114 50 42	15	3.0	3.0	1.0	>5,000	70	100	20	50	70
82TM084F	34 13 45	114 51 7	20	3.0	5.0	>1.0	>5,000	70	200	70	100	50
82TM085F	34 14 9	114 50 37	20	3.0	7.0	>1.0	>5,000	50	200	50	50	150
82TM086F	34 13 52	114 50 22	20	1.5	5.0	>1.0	>5,000	70	150	50	100	50
82TM087F	34 14 18	114 49 43	20	3.0	7.0	>1.0	>5,000	70	50	50	100	100
82TM088F	34 13 16	114 51 45	20	2.0	5.0	>1.0	>5,000	70	200	50	70	200
82TM089F	34 13 55	114 53 50	20	3.0	5.0	>1.0	>5,000	70	100	100	100	50
82TM090F	34 14 30	114 53 59	20	2.0	5.0	>1.0	>5,000	70	200	70	70	50
82TM091F	34 10 6	114 48 35	20	3.0	3.0	>1.0	>5,000	70	200	70	50	200
82TM092F	34 10 57	114 47 34	20	2.0	2.0	>1.0	>5,000	70	150	50	100	50
82TM093F	34 11 14	114 47 19	20	3.0	7.0	>1.0	>5,000	50	200	100	100	200

Table 5.--continued

Magnetic Panned Concentrates--continued

Sample	La-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	V-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s
82TM049F	300	70	70	50	100	<20	300	300	<500	300
82TM050F	700	100	30	50	100	20	50	500	<500	500
82TM051F	700	70	50	70	100	<20	50	500	N	700
82TM052F	700	50	100	70	100	N	200	500	N	700
82TM053F	100	<50	100	70	100	<20	200	700	N	500
82TM054F	200	<50	100	50	100	N	200	700	N	500
82TM055F	200	50	100	50	100	20	200	500	N	500
82TM056F	300	100	70	70	100	50	200	500	<500	500
82TM057F	700	70	100	100	100	N	200	700	N	50
82TM058F	100	50	200	50	100	N	200	200	N	50
82TM059F	100	<50	200	30	100	N	200	200	N	50
82TM060F	700	<50	50	100	100	N	200	500	N	700
82TM061F	500	50	500	70	100	N	200	300	N	200
82TM062F	500	50	50	70	100	N	200	300	<500	1,000
82TM063F	500	50	50	100	100	N	200	300	<500	500
82TM064F	500	50	50	70	100	N	200	300	<500	700
82TM065F	700	50	100	50	100	N	200	500	N	>1,000
82TM066F	500	50	500	50	100	N	300	300	N	500
82TM067F	500	70	100	50	100	N	300	300	N	200
82TM068F	300	70	100	50	100	N	300	300	N	50
82TM069F	200	50	100	50	100	N	300	300	N	200
82TM070F	200	50	50	20	100	N	300	300	N	50
82TM071F	300	100	300	20	100	N	300	500	N	50
82TM072F	700	50	100	50	100	N	300	500	N	500
82TM073F	700	200	70	70	100	50	500	700	N	500
82TM074F	700	70	70	100	100	20	200	500	N	500
82TM075F	500	100	70	200	100	20	300	1,000	<500	500
82TM076F	500	50	20	70	100	N	50	1,000	<500	300
82TM077F	500	50	50	50	100	20	300	300	<500	300
82TM078F	700	100	50	100	100	N	200	700	500	500
82TM079F	700	100	50	100	100	N	200	700	1,000	500
82TM080F	1,000	100	20	100	100	<20	200	1,000	500	1,000
82TM081F	700	70	20	70	100	20	300	500	<500	1,000
82TM082F	700	50	20	50	100	N	200	500	<500	700
82TM083F	200	<50	20	50	100	N	200	1,000	<500	2
82TM084F	1,000	50	30	100	100	20	300	500	700	>1,000
82TM085F	1,000	150	50	100	100	200	200	500	<500	>1,000
82TM086F	700	50	30	70	100	50	200	700	500	>1,000
82TM087F	50	<50	50	20	100	N	500	500	<500	50
82TM088F	700	200	20	100	100	50	50	700	<500	1,000
82TM089F	500	50	50	70	100	N	300	300	<500	200
82TM090F	700	100	50	100	100	50	150	500	<500	1,000
82TM091F	700	100	50	100	100	20	200	500	2,000	500
82TM092F	1,000	70	50	100	100	N	150	500	N	700
82TM093F	700	50	50	50	100	50	200	1,000	<500	>1,000

Table 5.-- continued

Magnetic Panned Concentrates--continued

Sample	Latitude	Longitude	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-pptm S	B-pptm S	Ba-pptm S	Co-pptm S	Cr-pptm S	Cu-pptm S
82TM094F	34 12 59	114 47 37	20	3.0	5.0	>1.0	>5,000	50	300	100	50	200
82TM095F	34 13 5	114 47 35	15	2.0	5.0	>1.0	>5,000	100	50	70	50	200
82TM096F	34 13 29	114 46 36	15	5.0	7.0	>1.0	>5,000	100	700	70	500	100
82TM097F	34 13 57	114 46 40	15	1.5	2.0	1.0	>5,000	100	70	30	50	100
82TM098F	34 16 11	114 56 37	15	2.0	3.0	>1.0	>5,000	100	1,000	100	100	50
82TM099F	34 16 28	114 56 57	15	2.0	3.0	>1.0	>5,000	100	20	50	100	50
82TM100F	34 26 18	114 50 23	15	2.0	3.0	>1.0	>5,000	100	30	50	70	50
82TM101F	34 25 37	114 49 43	10	7.0	7.0	1.0	>5,000	70	200	100	700	50
82TM102F	34 25 6	114 48 52	7	7.0	7.0	1.0	>5,000	50	200	70	700	50
82TM103F	34 24 33	114 48 53	10	7.0	7.0	1.0	>5,000	50	200	50	700	30
82TM104F	34 24 57	114 48 15	20	10.0	10.0	>1.0	>5,000	100	700	50	2,000	200
82TM105F	34 23 58	114 47 11	10	5.0	5.0	>1.0	>5,000	100	150	100	700	50
82TM106F	34 24 18	114 46 48	15	5.0	7.0	>1.0	>5,000	100	50	70	700	100
82TM107F	34 27 32	114 52 54	15	3.0	5.0	>1.0	>5,000	100	700	50	100	50
82TM108F	34 26 59	114 53 17	20	2.0	5.0	>1.0	>5,000	150	200	50	100	200
82TM109F	34 25 53	114 54 18	15	3.0	3.0	>1.0	>5,000	70	20	50	500	50
82TM110F	34 25 4	114 54 2	15	5.0	3.0	>1.0	>5,000	70	50	50	500	50
82TM111F	34 24 30	114 53 47	20	5.0	5.0	>1.0	>5,000	100	100	70	700	50
82TM112F	34 20 52	114 46 17	5	7.0	7.0	1.0	>3,000	50	100	50	1,000	50
82TM113F	34 21 32	114 46 41	20	2.0	3.0	>1.0	>5,000	100	150	70	200	200
82TM114F	34 21 38	114 47 0	10	10.0	7.0	1.0	>5,000	20	100	50	1,000	100
82TM115F	34 21 27	114 47 9	7	10.0	7.0	.7	>5,000	20	50	50	1,000	20
82TM116F	34 21 21	114 48 15	7	10.0	7.0	.7	>5,000	20	100	50	1,000	30
82TM117F	34 21 21	114 48 12	10	10.0	7.0	>1.0	>5,000	50	150	50	1,000	100
82TM118F	34 21 46	114 48 24	10	5.0	5.0	>1.0	>5,000	50	100	50	500	100
82TM119F	34 21 59	114 50 7	15	3.0	5.0	>1.0	>5,000	100	100	70	700	50
82TM120F	34 15 34	114 48 11	10	3.0	5.0	>1.0	>5,000	100	50	70	50	100
82TM121F	34 17 54	114 50 26	15	3.0	5.0	>1.0	>5,000	100	50	50	50	100
82TM122F	34 18 28	114 51 22	20	2.0	5.0	>1.0	>5,000	100	100	50	30	200
82TM200F	34 16 55	114 57 12	20	3.0	5.0	>1.0	>5,000	70	200	70	100	50
82TM201F	34 17 29	114 56 32	20	2.0	2.0	>1.0	>5,000	100	100	70	100	200
82TM202F	34 18 31	114 56 51	20	3.0	5.0	>1.0	>5,000	100	100	50	200	200
82TM203F	34 19 16	114 56 50	20	3.0	5.0	>1.0	>5,000	100	50	100	50	200
82TM204F	34 18 40	114 56 19	20	2.0	5.0	>1.0	>5,000	100	70	50	100	50
82TM205F	34 18 59	114 56 9	20	2.0	3.0	>1.0	>5,000	100	20	50	100	200
82TM206F	34 18 38	114 55 48	20	3.0	5.0	>1.0	>5,000	100	300	70	50	150
82TM207F	34 19 14	114 54 40	20	3.0	3.0	>1.0	>5,000	100	20	70	100	50
82TM208F	34 19 11	114 54 31	20	2.0	2.0	>1.0	>5,000	100	20	50	100	50
82TM209F	34 19 50	114 55 19	20	1.5	2.0	>1.0	>5,000	100	20	50	70	50
82TM210F	34 20 54	114 52 56	20	3.0	3.0	>1.0	>5,000	100	20	50	200	50
82TM211F	34 21 32	114 51 36	20	3.0	5.0	>1.0	>5,000	100	50	50	100	200
82TM212F	34 21 47	114 51 8	20	2.0	3.0	>1.0	>5,000	100	50	100	100	500
82TM213F	34 21 6	114 50 39	15	5.0	7.0	1.0	>5,000	100	100	100	700	200
82TM214F	34 20 34	114 50 7	20	3.0	5.0	>1.0	>5,000	100	150	50	500	200
82TM215F	34 20 31	114 50 1	15	5.0	10.0	>1.0	>5,000	50	200	50	700	200

Table 5.-- continued

Magnetic Panned Concentrates--continued

Sample	La-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	V-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s
82TM094F	1,000	70	70	200	100	50	200	1,000	N	>1,000
82TM095F	1,000	100	70	200	100	30	150	700	N	>1,000
82TM096F	50	50	100	70	50	N	300	100	N	100
82TM097F	300	50	20	70	100	N	70	1,000	1,000	500
82TM098F	500	70	100	70	50	20	300	200	1,000	1,000
82TM099F	500	50	20	50	100	<20	200	1,000	500	200
82TM100F	700	70	20	50	100	20	100	700	500	1,000
82TM101F	50	<50	300	50	70	N	300	100	<500	50
82TM102F	50	<50	300	20	50	N	300	50	<500	70
82TM103F	50	<50	200	20	50	N	300	50	<500	200
82TM104F	500	<50	500	70	>100	N	300	200	N	100
82TM105F	500	50	300	50	100	N	300	200	<500	1,000
82TM106F	500	<50	200	50	70	N	300	200	<500	500
82TM107F	500	50	100	70	50	N	200	200	<500	>1,000
82TM108F	500	70	70	70	50	20	200	200	500	>1,000
82TM109F	300	100	200	70	70	N	200	500	<500	>1,000
82TM110F	200	50	200	50	50	N	300	200	<500	>1,000
82TM111F	500	70	200	100	100	N	200	300	500	1,000
82TM112F	100	<50	200	20	50	N	300	100	N	50
82TM113F	50	70	150	50	30	N	300	200	500	1,000
82TM114F	100	<50	200	20	100	N	300	100	N	50
82TM115F	100	<50	200	20	70	N	300	100	N	500
82TM116F	70	<50	300	20	70	N	300	50	N	100
82TM117F	100	<50	500	20	70	N	300	700	N	>1,000
82TM118F	50	50	200	20	70	N	200	200	<500	1,000
82TM119F	70	100	150	50	50	N	200	200	500	500
82TM120F	200	<50	50	20	50	N	300	200	<500	200
82TM121F	200	50	50	20	100	20	200	500	<500	1,000
82TM122F	1,000	70	50	100	>100	50	200	700	<500	>1,000
82TM200F	1,000	100	100	100	100	20	200	700	<500	>1,000
82TM201F	>1,000	100	70	200	100	N	200	500	<500	>1,000
82TM202F	1,000	100	100	200	100	20	200	700	<500	200
82TM203F	1,000	100	100	150	100	N	200	700	<500	200
82TM204F	1,000	70	100	150	100	N	200	700	<500	1,000
82TM205F	1,000	70	70	300	100	N	200	500	500	700
82TM206F	>1,000	50	70	300	100	N	200	700	500	500
82TM207F	1,000	50	70	100	100	N	200	700	<500	200
82TM208F	1,000	50	50	300	>100	N	200	500	<500	1,000
82TM209F	1,000	100	20	70	100	20	200	700	N	>1,000
82TM210F	1,000	150	100	50	100	N	200	500	1,000	500
82TM211F	500	50	70	100	100	N	300	500	500	1,000
82TM212F	500	70	50	100	100	N	200	300	1,000	200
82TM213F	200	<50	50	200	100	<20	300	300	<500	700
82TM214F	200	200	100	200	100	50	200	500	500	1,000
82TM215F	200	100	100	100	100	20	200	200	<500	>1,000

Table 5.— continued

Magnetic Panned Concentrates--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-pptm s	B-pptm s	Ba-pptm s	Co-pptm s	Cr-pptm s	Cu-pptm s
821M216F	34 15 56	114 46 20	15	7.0	10.0	>1.0	>5,000	50	200	70	1,000	70
821M217F	34 15 34	114 47 35	15	3.0	10.0	>1.0	>5,000	50	200	50	100	100
821M218F	34 15 40	114 48 39	15	3.0	5.0	>1.0	>5,000	50	20	50	70	70
821M220F	34 16 59	114 49 6	15	1.5	5.0	>1.0	>5,000	50	30	30	50	100
821M221F	34 17 21	114 49 15	15	1.5	5.0	>1.0	>5,000	100	100	70	50	200
821M222F	34 17 36	114 49 51	15	1.5	5.0	>1.0	>5,000	70	100	50	30	50
821M223F	34 18 43	114 50 34	15	2.0	5.0	>1.0	>5,000	100	300	70	50	200
821M224F	34 19 26	114 49 54	10	2.0	5.0	>1.0	>5,000	100	200	50	200	50
821M225F	34 19 40	114 49 31	15	3.0	5.0	>1.0	>5,000	100	50	70	200	50
821M226F	34 20 5	114 48 49	10	3.0	5.0	>1.0	>5,000	100	50	50	700	100
821M227F	34 20 57	114 48 56	15	3.0	5.0	>1.0	>5,000	70	50	50	200	100
821M228F	34 20 15	114 48 10	10	7.0	3.0	>1.0	5,000	100	50	100	500	100
821M229F	34 19 54	114 47 45	10	10.0	3.0	>1.0	>5,000	100	70	100	500	100
821M230F	34 20 0	114 47 41	10	10.0	3.0	1.0	5,000	100	70	100	500	100
821M231F	34 20 49	114 46 50	10	3.0	5.0	>1.0	>5,000	100	150	50	500	100
821M232F	34 20 42	114 45 49	10	5.0	7.0	>1.0	5,000	50	100	70	1,000	100
821M233F	34 20 22	114 45 10	10	5.0	5.0	>1.0	>5,000	70	150	70	700	100
821M235F	34 16 39	114 50 51	15	1.5	5.0	>1.0	>5,000	50	50	50	100	50
821M236F	34 15 57	114 50 57	15	2.0	5.0	>1.0	>5,000	50	20	50	100	100
821M237F	34 7 22	114 50 26	15	3.0	5.0	>1.0	>5,000	100	300	70	200	50
821M238F	34 9 55	114 49 11	15	3.0	5.0	>1.0	>5,000	100	150	70	200	200
821M239F	34 9 46	114 48 17	10	3.0	7.0	>1.0	>5,000	50	200	50	70	100
821M240F	34 10 1	114 45 37	15	3.0	5.0	>1.0	>5,000	50	20	50	70	100
821M241F	34 10 52	114 45 57	15	3.0	5.0	>1.0	>5,000	50	100	100	200	200
821M242F	34 14 53	114 45 4	7	7.0	7.0	1.0	5,000	50	20	50	700	20
821M243F	34 14 30	114 49 51	10	3.0	5.0	>1.0	>5,000	50	50	50	100	100
821M244F	34 14 58	114 51 33	15	15.0	5.0	>1.0	>5,000	50	100	50	100	200
821M245F	34 15 22	114 53 32	15	3.0	5.0	>1.0	>5,000	70	70	70	100	100
821M246F	34 15 32	114 52 38	15	2.0	5.0	>1.0	>5,000	50	50	70	100	100
821M247F	34 15 23	114 52 18	10	2.0	5.0	>1.0	>5,000	50	50	70	100	200
821M248F	34 15 52	114 52 19	15	2.0	3.0	>1.0	>5,000	50	50	100	100	50
821M251F	34 16 21	114 51 35	15	3.0	3.0	>1.0	>5,000	100	50	50	70	100
821M252F	34 15 28	114 50 39	15	3.0	5.0	>1.0	>5,000	50	200	50	70	50
821M253F	34 16 16	114 52 3	20	2.0	3.0	>1.0	>5,000	150	20	20	100	100
821M254F	34 15 7	114 50 59	20	2.0	2.0	>1.0	>5,000	150	20	20	100	100
821M256F	34 13 14	114 40 52	15	3.0	5.0	>1.0	>5,000	100	30	50	200	50
821M257F	34 14 2	114 41 52	20	7.0	5.0	>1.0	>5,000	100	100	70	200	50
821M259F	34 15 15	114 44 40	15	7.0	5.0	>1.0	>5,000	100	100	70	500	100
821M260F	34 14 29	114 42 53	20	3.0	5.0	>1.0	>5,000	100	50	50	200	50
821M261F	34 14 45	114 43 10	20	7.0	7.0	>1.0	>5,000	100	20	50	500	100
821M262F	34 14 30	114 43 57	20	7.0	7.0	>1.0	>5,000	100	50	50	1,000	100
821M263F	34 15 57	114 44 21	20	7.0	5.0	>1.0	>5,000	100	100	50	500	100
821M264F	34 15 32	114 43 10	15	3.0	5.0	>1.0	>5,000	50	200	100	300	100
821M265F	34 16 4	114 43 14	20	3.0	5.0	>1.0	>5,000	100	100	70	500	100
821M266F	34 16 51	114 42 54	10	5.0	5.0	>1.0	>5,000	100	1,500	100	500	100

Table 5.-- continued

Magnetic Panned Concentrates--continued

Sample	La-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S	Sc-ppm S	Sn-ppm S	V-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S
82TM216F	50	50	200	20	100	N	300	1,000	<500	100
82TM217F	1,000	100	30	100	100	30	300	700	<500	>1,000
82TM218F	50	50	50	50	100	N	300	500	N	50
82TM220F	1,000	100	20	70	100	70	100	700	N	1,000
82TM221F	1,000	100	50	70	100	70	100	700	N	>1,000
82TM222F	1,000	100	30	70	100	70	100	700	N	>1,000
82TM223F	700	100	50	100	100	100	100	700	N	1,000
82TM224F	700	70	100	100	70	70	150	700	N	>1,000
82TM225F	70	70	100	50	70	N	300	200	N	1,000
82TM226F	500	<50	200	70	100	N	200	1,000	N	500
82TM227F	1,000	50	100	70	100	N	50	1,000	N	1,000
82TM228F	300	70	1,000	50	20	N	150	200	N	100
82TM229F	500	50	1,000	70	100	N	150	200	N	700
82TM230F	50	50	1,000	50	30	N	150	100	N	1,000
82TM231F	500	50	50	70	100	N	150	700	N	500
82TM232F	100	<50	200	50	100	N	300	100	N	700
82TM233F	300	50	200	50	100	N	200	200	N	500
82TM235F	500	70	20	70	100	100	100	1,000	N	>1,000
82TM236F	500	100	50	70	100	100	50	1,000	N	>1,000
82TM237F	1,000	100	70	300	100	50	200	700	500	1,000
82TM238F	200	70	100	70	100	N	200	500	<500	50
82TM239F	1,000	100	50	20	70	50	200	700	N	700
82TM240F	1,000	100	30	20	100	30	200	700	N	500
82TM241F	500	100	70	100	100	N	300	500	<500	>1,000
82TM242F	50	50	100	20	50	N	200	200	N	200
82TM243F	200	50	50	50	100	20	300	500	N	1,000
82TM244F	500	100	50	100	100	50	50	500	500	>1,000
82TM245F	200	100	50	50	100	N	200	300	<500	700
82TM246F	500	100	50	50	70	N	300	500	<500	200
82TM247F	1,000	100	50	100	100	70	200	700	N	>1,000
82TM248F	200	70	100	50	70	N	200	500	<500	300
82TM251F	200	50	30	50	100	N	200	200	<500	500
82TM252F	1,000	100	50	150	>100	150	200	1,000	500	1,000
82TM253F	1,000	70	30	70	70	N	200	500	500	700
82TM254F	500	50	30	50	50	N	200	300	N	500
82TM255F	700	70	70	100	100	30	300	500	500	200
82TM257F	700	50	70	100	100	20	300	500	500	500
82TM259F	500	50	50	100	100	<20	300	500	<500	500
82TM260F	500	70	100	70	100	20	200	700	500	1,000
82TM261F	300	70	200	50	100	20	300	500	500	300
82TM262F	500	50	200	70	>100	<20	300	500	N	300
82TM263F	200	50	200	50	100	<20	300	500	<500	200
82TM264F	500	50	100	70	100	20	300	500	500	300
82TM265F	200	50	50	50	70	20	300	300	1,000	200
82TM266F	300	50	100	300	70	20	300	500	<500	200

Table 5.-- continued

Magnetic Panned Concentrates--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-pptm s	B-pptm s	Ba-pptm s	Co-pptm s	Cr-pptm s	Cu-pptm s
82TM267F	34 16 58	114 42 58	10	5.0	5.0	>1.0	>5,000	100	700	100	700	100
82TM268F	34 17 28	114 44 10	15	3.0	5.0	>1.0	>5,000	100	500	100	700	50
82TM269F	34 17 32	114 44 6	15	3.0	5.0	>1.0	>5,000	50	700	50	500	100
82TM270F	34 17 46	114 44 56	15	5.0	5.0	>1.0	>5,000	100	700	100	700	100
82TM271F	34 18 6	114 45 2	15	5.0	5.0	>1.0	>5,000	70	1,000	70	700	100
82TM272F	34 18 31	114 44 43	15	3.0	5.0	>1.0	>5,000	70	1,500	100	700	50
82TM273F	34 18 57	114 43 54	15	5.0	5.0	>1.0	>5,000	70	300	70	700	100
82TM274F	34 18 33	114 42 55	15	3.0	5.0	>1.0	>5,000	70	100	50	500	100
82TM275F	34 18 52	114 42 21	15	5.0	5.0	>1.0	>5,000	70	100	70	1,000	100
82TM276F	34 18 49	114 41 33	10	5.0	5.0	>1.0	>5,000	70	70	70	700	100
82TM277F	34 22 11	114 57 49	15	3.0	5.0	>1.0	>5,000	70	100	70	200	50
82TM278F	34 22 6	114 56 44	15	3.0	5.0	>1.0	>5,000	70	100	50	200	50
82TM279F	34 22 7	114 53 16	20	2.0	5.0	>1.0	>5,000	70	70	50	100	150
82TM282F	34 22 17	114 51 43	15	3.0	3.0	>1.0	>5,000	70	30	50	200	200
82TM283F	34 22 57	114 51 18	15	5.0	3.0	>1.0	>5,000	50	700	100	700	100
82TM284F	34 24 32	114 52 50	15	5.0	5.0	>1.0	>5,000	50	50	70	200	100
82TM285F	34 23 29	114 50 57	15	5.0	5.0	>1.0	>5,000	50	1,500	70	200	100
82TM286F	34 25 12	114 52 24	15	5.0	5.0	>1.0	>5,000	70	30	50	300	100
82TM287F	34 26 1	114 53 29	10	5.0	5.0	>1.0	>5,000	50	20	50	500	100
82TM288F	34 25 28	114 50 26	20	5.0	5.0	>1.0	>5,000	70	100	70	700	200
82TM289F	34 24 22	114 50 27	10	5.0	5.0	.3	>5,000	30	70	70	50	50
82TM290F	34 23 49	114 49 52	10	7.0	10.0	.7	>5,000	50	200	70	700	30
82TM291F	34 23 57	114 49 57	15	10.0	7.0	>1.0	>5,000	50	20	100	700	70
82TM292F	34 22 23	114 49 30	7	10.0	10.0	.7	>5,000	50	700	70	500	70
82TM293F	34 22 26	114 49 18	7	5.0	7.0	1.0	>5,000	50	300	70	1,000	100
82TM294F	34 22 10	114 47 58	10	7.0	10.0	.7	>5,000	20	100	50	1,000	30
82TM295F	34 22 31	114 47 39	15	5.0	7.0	>1.0	>5,000	70	70	70	1,000	200
82TM296F	34 22 45	114 47 59	10	7.0	10.0	>1.0	>5,000	50	200	70	1,000	50
82TM297F	34 22 46	114 47 50	7	10.0	10.0	>1.0	>5,000	50	50	50	1,000	100
82TM298F	34 21 45	114 46 19	10	5.0	5.0	>1.0	>5,000	70	100	70	700	50
82TM300F	34 23 16	114 46 47	7	10.0	10.0	>1.0	>5,000	30	500	50	700	50
82TM301F	34 23 13	114 45 37	15	7.0	7.0	>1.0	>5,000	70	50	70	1,000	50
82TM302F	34 24 12	114 46 5	10	7.0	7.0	>1.0	>5,000	50	70	50	700	100
82TM303F	34 24 45	114 45 19	10	10.0	10.0	>1.0	>5,000	100	100	70	500	150
82TM304F	34 25 28	114 46 34	15	10.0	7.0	>1.0	>5,000	70	50	70	700	50
82TM305F	34 26 5	114 47 4	15	10.0	5.0	>1.0	>5,000	70	70	70	500	50
82TM306F	34 26 20	114 48 25	10	10.0	7.0	>1.0	>5,000	50	50	100	300	50
82TM307F	34 18 13	114 40 13	20	5.0	5.0	>1.0	>5,000	100	500	70	500	150
82TM308F	34 17 57	114 41 1	10	7.0	5.0	>1.0	>5,000	50	1,000	100	700	100
82TM309F	34 17 54	114 42 5	15	7.0	5.0	>1.0	>5,000	70	700	100	500	100
82TM310F	34 17 54	114 42 55	10	10.0	5.0	>1.0	>5,000	70	50	50	700	50

Table 5.-- continued

Sample	La-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s	V-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s
82TM267F	300	50	200	200	70	<20	300	300	500	300
82TM268F	500	50	150	150	70	<20	300	500	700	300
82TM269F	300	<50	50	200	50	<20	200	300	500	200
82TM270F	100	50	200	100	70	30	300	200	500	50
82TM271F	300	50	200	100	50	30	300	700	500	700
82TM272F	500	50	150	500	100	30	300	500	500	200
82TM273F	500	50	200	70	100	20	300	500	700	500
82TM274F	1,000	50	50	70	100	N	200	500	500	500
82TM275F	500	50	200	70	100	30	300	300	<500	500
82TM276F	500	50	50	50	100	20	200	500	500	500
82TM277F	700	100	100	100	70	N	200	300	500	700
82TM278F	700	100	100	50	100	N	200	500	700	50
82TM279F	500	100	50	50	100	N	200	500	1,000	150
82TM282F	300	50	20	20	50	20	200	200	<500	500
82TM283F	200	50	500	70	70	20	200	200	<500	50
82TM284F	500	100	300	50	50	<20	200	300	<500	1,000
82TM285F	300	100	200	50	50	<20	200	300	<500	200
82TM286F	500	100	200	50	50	<20	200	300	<500	200
82TM287F	500	50	200	50	50	20	50	300	N	1,000
82TM288F	200	50	200	70	50	N	300	50	<500	>1,000
82TM289F	200	<50	200	20	30	N	200	50	<500	50
82TM290F	70	<50	200	50	100	N	300	100	<500	100
82TM291F	50	<50	200	50	100	N	300	100	<500	200
82TM292F	100	<50	200	50	100	N	300	100	N	50
82TM293F	100	<50	200	20	70	N	300	100	N	50
82TM294F	70	<50	200	20	70	N	300	50	N	50
82TM295F	50	<50	200	20	70	N	500	70	N	200
82TM296F	200	<50	200	20	70	N	300	100	<500	50
82TM297F	50	<50	200	20	100	N	300	50	<500	50
82TM298F	500	50	200	50	70	<20	300	300	N	700
82TM300F	100	<50	50	50	70	N	300	200	<500	1,000
82TM301F	500	50	150	50	50	N	300	200	<500	>1,000
82TM302F	500	50	200	50	70	N	300	300	<500	>1,000
82TM303F	500	50	100	70	70	N	300	300	<500	1,000
82TM304F	50	50	300	50	100	100	300	200	<500	1,000
82TM305F	200	50	200	30	50	N	300	200	<500	>1,000
82TM306F	50	<50	50	20	50	N	300	50	<500	100
82TM307F	500	70	150	150	70	N	500	500	<500	500
82TM308F	500	70	200	200	70	N	300	500	<500	1,000
82TM309F	500	50	150	70	70	N	500	300	<500	50
82TM310F	700	50	300	70	70	N	300	500	<500	>1,000

Table 6.--Atomic absorption data from outcrop samples, Turtle Mountain Wilderness Study Area (BLM), San Bernardino County, California. (Element concentrations reported in parts per million (ppm). Element concentrations coded with an N, L or G indicate not detected, detected but below limit of determination, and greater than upper limit of determination.)

Sample	Au	Hg	Zn	As	Sb	Cd	Bi	Sample	Au	Hg	Zn	As	Sb	Cd	Bi
82TM001R	L	.04	20	N	1	N	N	82TM056R	N	L	15	N	N	N	N
82TM003R	N	.02	25	N	2	N	N	82TM063R	N	L	30	N	N	N	N
82RM004R	N	.02	20	N	N	N	N	82TM068R	N	G(10)	70	N	N	.2	N
82TM005R	N	.02	30	N	N	N	N	82TM069R	N	G(10)	95	N	N	.1	N
82TM007R	N	N	30	50	N	.1	N	82TM070R	N	.62	40	N	N	N	N
82TM008R	N	N	20	N	N	N	N	82TM071R	N	.48	55	N	N	.1	N
82TM009R	N	.02	30	N	N	.1	N	82TM073R	N	.30	45	N	N	.2	N
82TM010R	N	.02	35	N	N	.1	N	82TM075R	N	.30	140	N	N	.1	N
82TM013R	N	N	15	N	N	N	N	82TM077R	N	.34	30	N	N	N	N
82TM014R	N	N	5	N	N	.1	2	82TM078R	N	.18	300	5	2	.2	N
82TM015R	N	N	35	N	N	.1	N	82TM081R	N	.12	160	N	N	.1	N
82TM016R	N	N	60	N	N	.1	N	82TM090R	N	.04	110	N	N	N	N
82TM017R	N	.02	25	N	N	.1	N	82TM091R	N	.04	35	N	N	N	N
82TM018R	N	L	85	N	N	N	N	82TM093R	N	.04	30	N	N	N	N
82TM019R	N	N	100	N	N	.2	N	82TM095R	N	.04	60	N	N	N	N
82TM021R	N	.02	1300	10	N	1.3	L	82TM096R	N	.02	110	N	N	N	N
82TM024R	N	N	35	N	N	N	N	82TM098R	N	.06	25	N	N	N	N
82TM025R	N	N	520	15	1	.7	6	82TM100R	N	L	60	N	N	.3	N
82TM026R	N	.02	45	10	N	N	N	82TM102R	N	.02	50	N	1	N	N
82TM027R	N	.02	25	N	N	N	N	82TM103R	N	L	60	N	N	N	N
82TM029R	N	N	15	N	2	N	N	82TM107R	N	L	75	5	5	N	N
82TM032R	N	N	20	N	N	N	N	82TM108R	N	.02	60	N	N	N	N
82TM038R	N	N	50	N	N	N	N	82TM112R	N	.06	50	N	N	N	N
82TM040R	N	N	30	N	N	N	N	82TM113R	N	.04	35	N	N	N	N
82TM044R	.05	.02	20	N	N	N	2	82TM114R	N	.08	40	N	N	N	N
82TM051R	N	N	110	N	N	.3	L	82TM115R	N	L	60	N	N	N	N
82TM052R	N	.02	35	5	2	N	N	82TM116R	N	.06	65	N	N	N	N
82TM117R	N	.02	85	N	2	N	N	82TM245R	N	.04	100	N	N	N	N
82TM118R	N	L	50	N	N	N	N	82TM246R	N	L	90	N	N	.4	N
82TM120R	N	L	55	N	N	N	N	82TM248R	N	.04	85	5	N	N	N
82TM121R	N	L	45	N	N	N	N	82TM253R	N	.02	140	N	N	N	N
82TM122R	N	.02	110	N	2	N	N	82TM254R	N	L	130	5	N	N	N

Table 6.--Continued.

Sample	Au	Hg	Zn	As	Sb	Cd	Bi
82TM200R	N	.04	90	N	N	N	N
82TM202R	N	.06	20	N	N	N	N
82TM205R	N	.04	50	N	N	N	N
82TM209R	N	.02	45	N	N	N	N
82TM210R	N	.04	65	N	N	N	N
82TM212R	N	.08	35	N	N	N	N
82TM213R	.05	.22	590	5	1	1.2	14
82TM217R	N	.02	50	N	N	.3	N
82TM219R	N	.02	60	N	N	N	N
82TM220R	N	.04	50	N	N	.1	N
82TM221R	N	.04	80	N	N	N	N
82TM224R	N	.02	30	N	N	N	N
82TM225R	N	.02	45	N	N	N	N
82TM226R	N	.02	60	N	N	N	N
82TM227R	N	L	15	N	N	N	N
82TM231R	N	.02	45	N	N	N	N
82TM232R	N	.02	45	N	N	N	N
82TM233R	N	.02	55	N	N	.1	N
82TM234R	N	.02	60	N	N	.2	N
82TM235R	N	L	80	N	N	.1	N
82TM236R	N	.02	65	N	N	.2	N
82TM244R	N	.02	50	N	N	N	N

Sample	Au	Hg	Zn	As	Sb	Cd	Bi
82TM259R	N	.04	120	10	N	2	N
82TM263R	N	.02	25	N	N	.1	N
82TM264R	N	.04	50	N	N	N	N
82TM2704	N	.02	25	N	N	N	N
82TM274R	N	.04	70	N	N	N	N
82TM277R	N	.04	120	5	N	N	N
82TM278R	N	.14	120	5	N	.1	N
82TM279R	N	.02	110	5	N	.2	N
82TM282R	N	L	40	5	N	N	N
82TM296R	N	.02	20	N	N	N	N
82TM299R	N	.02	10	N	N	N	N