UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results and sample locality map of stream-sediment, panned-concentrate, and rock samples from the southwest part of the Tonopah 1° x 2° quadrangle, Esmeralda and Mineral Counties, Nevada

By

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STUDIES RELATED TO CUSMAP

This report presents the results of a geochemical survey of the southwestern part of the Tonopah 1 x 2 degree quadrangle, Nevada. Geochemical samples were collected as one of several multidisciplinary studies associated with the Conterminous United States Mineral Appraisal Program (CUSMAP).

INTRODUCTION

In June and July, 1982 we conducted a reconnaissance geochemical survey of the southwestern part of the Tonopah 1 x 2 degree quadrangle, Esmeralda and Mineral Counties, Nevada.

This survey, the first part of a program that will cover the entire Tonopah 2 degree quadrangle, was designed to provide information on both regional geochemistry and on the nature of chemical dispersion in stream sediment media. Two areas within the study area that contain known ore deposits were sampled in more detail and some of these samples seived to various size fractions each of which were analyzed to evaluate the optimum mesh size.

The Tonopah 1 x 2 degree quadrangle comprises about 500 mi^2 (1200 km^2) and lies about 30-70 mi (48-112 km) west and northwest of Tonopah, Nevada (see plate 1). Access to the vicinity of the study area is provided on the east and south by U.S. Routes 6 and 95. Access to the Tonopah 1 x 2 degree quadrangle is provided by many county dirt roads and unmaintained jeep trails.

The geology and mineral deposits of the study area have been summarized by Ross (1961), and Albers and Stewart (1972). Rocks range in age from Ordovician to Tertiary. Districts of special interest are the Gilbert District in the Monte Cristo Range, Esmeralda County, and the Pilot Mountains and East Pilot Mountains Districts, Mineral County (plate 1). Within the Gilbert District gold and silver were produced from veins in Tertiary volcanic rocks and Ordovician shale and siltstone, and silver-lead ore from veins in limestone (Albers and Stewart, 1972). Mercury was produced from the Pilot Mountain district from Triassic and Jurassic calcareous sedimentary rocks, and tungsten (scheelite) was mined in the East Pilot Mountains from skarn deposits in limestone adjacent to a Cretaceous granitic stock. The rocks of the Monte Cristo Range are predominantly Tertiary volcanic rocks, whereas the rocks of the Pilot Mountains are predominantly sedimentary and granitic rocks. The Pilot Mountains are a fault block uplift of the Great Basin type with a scarp on the west side, whereas the Monte Cristo Range has arcuate shape and no prominent range front.

Topographic relief in the study area ranges from about 1300 meters in the Pilot Mountains to about 500 meters in the Monte Cristo Range. Most of the area has well-developed stream drainages in canyons occupied by intermittent streams. The climate is arid to semi-arid. Piñon pine and juniper grow at higher elevations, and sagebrush is abundant at lower elevations.

METHODS OF STUDY

Sample Collection

We collected samples at 177 sites (plate 1). At nearly all of those sites, we collected both a stream-sediment sample and a heavy-mineral concentrate. Mineralized, altered, and unaltered rock samples were collected at 50 sample sites, many of them from mine dumps. We analyzed 177 stream-sediment samples, 172 heavy-mineral-concentrate samples, and 50 rock samples, for a sampling density of about 1 sample per 2.8 mi^2 for the stream sediment and heavy-mineral concentrate, and about 1 sample per 10 mi^2 for the rocks. We also selected 29 of the stream-sediment samples and sieved them to six size fractions to study the influence of grain size on chemistry. For the purpose of this study, we chose the -60-mesh (.250-mm) size fraction to collect at the remaining sites.

Stream-sediment samples

Analyses of the stream-sediment samples may reflect the chemistry of the material eroded from the drainage basin upstream from each sample site. Such information is useful in identifying those basins which contain concentrations of elements that may be related to mineral deposits.

The stream-sediment samples consist of active alluvium collected primarily from first-order (unbranched) and second-order (below the junction of two first-order) streams as shown on USGS topographic maps (scale = 1:24,000). Each sample was composited from several localities within an area that may extend as much as 50 ft from the site plotted on the map.

Heavy-mineral-concentrate samples

We panned heavy-mineral-concentrate samples from the same active alluvium as the stream-sediment samples. All bulk samples were passed through a 10-mesh (2.0-mm) screen to remove the coarse material. The sediments passing through the screen were panned until most of the quartz, feldspar, organic material, and clay-sized material was removed. The samples were then air dried.

Rock samples

We collected composite rock-chip samples from outcrops or mine dumps in the vicinity of the plotted site location. Rock samples provide information on element concentrations in unmineralized rocks, and rocks that have been affected by alteration and/or mineralization.

Sample Preparation

Rock samples were crushed and then pulverized with ceramic plates to minus 100-mesh (0.15-mm).

We sieved the stream-sediment samples at the collection site through a 10-mesh (2 mm) screen and the -10-mesh (2 mm) material was retained. The samples were air dried and sieved to -60-mesh (.250 mm) using stainless steel

sieves. The portion of the sediment passing through the sieve was saved for analysis. Six different sieve size fractions were sieved from one sample at each of 29 locations and are described on page 9 of this report (Explanation of table 4).

After panning the sediment, we used bromoform to separate and remove the remaining quartz and feldspar from the heavy-mineral concentrate. The heavy minerals (specific gravity 2.8) or higher were separated into three fractions using a large electromagnet (in this case a modified Frantz Isodynamic Separator). The most highly magnetic material (largely magnetite) was discarded. The second magnetic fraction (largely ferromagnesian silicates and iron oxides) was saved for analysis/archival storage. The third fraction (the least magnetic material including nonmagnetic ore minerals, such as zircon, sphene, etc.) was divided into two splits using a Jones splitter. One split was hand ground for spectrographic analysis; the other split was saved for mineralogical analysis.

The magnetic separates discussed are the same separates that would be produced by removing the magnetite with a hand magnet and then using a Frantz Isodynamic Separator set at a slope of 15° and a tilt of 10° with a current of 0.1 ampere to remove the ilmenite, and a current of 1.0 ampere to split the remainder of the sample into magnetic and nonmagnetic fractions.

Sample Analysis

Spectrographic method

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

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

[The spectrographic limits of determination for heavy-mineral-concentrate samples are two reporting units higher than the limits given for rocks and stream sediments due to the necessity of using a 5-mg sample]

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

Chemical methods

Other methods of analysis used on samples from the Tonopah 1 x 2 degree quadrangle are summarized in table 2.

Table 2.--Chemical methods used

Sample type	Constituent determined	Analytical method	Determination limit[1] micrograms/ gram or ppm	Reference
Sediments	Sb	AA	2	Modification of Viets, 1978.
	As	AA	5	Modification of Viets, 1978.
	Bi	AA	1	Modification of Viets, 1978.
	Cd	AA	0.1	Modification of Viets, 1978.
	Zn	AA	5	Modification of Viets, 1978.

[1]The determination limit is dependent upon sample weight. Given limits imply use of sample weight required by method. Higher limits of determination result from using less than required sample weight.

ROCK ANALYSIS STORAGE SYSTEM

Upon completion of all analytical work, the analytical results were entered into a computer-based data base called RASS (Rock Analysis Storage System). This RASS data base contains both descriptive geological information and analytical data. Any or all of this information may be retrieved and converted to a different format for computerized statistical analysis or publication using the STATPAC program library (VanTrump and Miesch, 1976).

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Albers, J. P., and Stewart, J. H., 1972, Geology and mineral deposits of Esmeralda County, Nevada: Nevada Bureau of Mines Bulletin 78, 80 p.

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

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VanTrump, George, Jr., and Miesch, A. T., 1976, The U.S. Geological Survey RASS-STATPAC system for management and statistical reduction of geochemical data: Computers and Geosciences, v. 3, p. 475-488.

Viets, J. G., 1978, Determination of silver, bismuth, cadmium, copper, lead, and zinc in geologic materials by atomic absorption spectrometry with tricaprylylmethylammonium chloride: Analytical Chemistry, v. 50, p. 1097-1101.

EXPLANATION OF TABLES 3-6

Table 3.--Samples prefixed with TZSSO indicate a -60-mesh (.250-mm) stream sediment was collected and was also a site for a sieve size study.

Samples prefixed with TZSOO or TZS31 indicate a -60-mesh (.250-mm) stream sediment was collected. A sample prefixed with TZTOO indicates a -60-mesh (.250-mm) sample of suspected drilling material was collected from the stream.

Table 4.--Samples prefixed with TZS (A,B,C,D,E, or F) O indicate various mesh sizes of the same stream-sediment sample were analyzed.

TZSAO	-35-mesh (.50 mm) +45-mesh (.354 mm)
TZSBO	-45-mesh (.354 mm) +60-mesh (.250 mm)
TZSCO	-60-mesh (.250 mm) +80-mesh (.177 mm)
TZSDO	-80-mesh (.177 mm) +120-mesh (.125 mm)
TZSEO	-120-mesh (.125 mm) +200-mesh (.075 mm)
TZSFO	-200-mesh (.075 mm)

Table 5.--Samples prefixed with TZROO indicate a rock sample was collected at this site.

Table 6.--Samples prefixed with TZCOO or TZC31 indicate a heavy-mineral concentrate was collected at this site and the nonmagnetic portion of it was analyzed.

Table 3. Spectrographic and chemical analyses of -60 mesh (.250mm) stream-sediment samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada

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

Sample	Latitude	longtude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZSS0001	38 9 38	117 42 15	15.0	2.0	2.0	.70	2,000	N	N	N	100	5,000
TZSS0002	38 8 56	117 41 38	7.0	1.5	1.5	.50	1,000	N	N	N	50	1,000
TZSS0003	38 10 5	117 42 46	5.0	1.0	2.0	.50	1,000	.5	N	N	100	1,000
TZSS0004	38 10 24	117 42 30	7.0	2.0	1.0	.30	1,000	.5	N	N	50	700
TZSS0005	38 10 14	117 41 56	7.0	2.0	1.5	.50	1,500	.7	N	N	100	1,000
TZSS0006	38 9 57	117 41 9	7.0	3.0	3.0	.50	1,500	2.0	N	N	100	1,500
TZSS0007	38 9 55	117 40 47	7.0	1.0	1.5	.30	1,000	20.0	500	N	100	1,000
TZSS0008	38 10 34	117 41 4	5.0	2.0	2.0	.30	1,500	.5	N	N	100	1,000
TZSS0009	38 10 58	117 41 44	10.0	2.0	3.0	.30	1,000	.7	N	N	70	1,000
TZSS0010	38 11 11	117 42 8	7.0	1.5	2.0	.30	1,000	N	N	N	70	1,000
TZSS0011	38 11 23	117 42 29	7.0	2.0	2.0	.30	1,000	.5	N	N	100	1,000
TZSS0012	38 23 15	117 53 13	5.0	2.0	7.0	.15	200	.7	N	N	20	200
TZSS0013	38 23 24	117 53 50	5.0	2.0	10.0	.20	1,000	N	N	N	150	500
TZSS0014	38 23 20	117 53 34	5.0	3.0	7.0	.20	700	.5	N	N	70	300
TZSS0015	38 23 24	117 53 9	7.0	5.0	10.0	.20	1,500	2.0	N	N	100	700
TZSS0016	38 10 39	117 43 3	7.0	2.0	2.0	.30	1,000	1.0	N	N	70	1,000
TZSS0017	38 10 53	117 42 25	5.0	1.0	1.0	.30	700	.5	N	N	70	1,000
TZSS0018	38 11 14	117 42 34	7.0	1.5	1.5	.50	1,500	3.0	N	N	100	1,500
TZSS0019	38 11 40	117 43 9	10.0	2.0	2.0	.70	1,500	N	N	N	70	1,500
TZS00020	38 11 40	117 43 9	3.0	1.0	1.5	.30	500	N	N	N	20	500
TZSS0021	38 11 52	117 42 32	7.0	2.0	3.0	.50	1,000	N	N	N	70	1,000
TZS00022	38 11 31	117 41 12	1.5	.7	.7	.15	500	N	N	N	30	300
TZS00023	38 11 34	117 40 42	2.0	1.0	1.0	.30	500	N	N	N	20	500
TZS00024	38 12 6	117 40 19	5.0	1.0	1.5	.30	1,000	N	N	N	30	500
TZS00025	38 12 9	117 39 51	3.0	1.0	1.0	.20	500	N	N	N	30	500
TZS00026	38 12 25	117 37 48	3.0	1.0	1.0	.20	700	N	N	N	20	500
TZS00027	38 9 41	117 42 39	5.0	1.5	2.0	.50	1,500	N	N	N	70	1,500
TZS00028	38 9 9	117 42 41	2.0	.7	.7	.20	700	N	N	N	50	500
TZS00029	38 8 49	117 42 41	3.0	.7	1.0	.30	700	<.5	N	N	70	2,000
TZS00030	38 8 40	117 42 48	10.0	1.5	3.0	.70	1,500	N	N	N	50	3,000
TZS00031	38 8 34	117 43 6	5.0	1.5	5.0	.50	1,000	N	N	N	50	1,000
TZS00032	38 7 59	117 42 31	2.0	1.0	1.5	.20	700	N	N	N	30	300
TZS00033	38 6 57	117 42 42	5.0	1.0	1.0	.30	700	N	N	N	30	700
TZS00034	38 6 32	117 42 44	2.0	.7	1.0	.20	700	N	N	N	30	700
TZSS0035	38 23 44	117 53 33	5.0	2.0	5.0	.20	700	N	N	N	70	200
TZSS0036	38 23 31	117 53 0	5.0	3.0	10.0	.20	1,000	.5	N	N	150	500
TZS00037	38 23 31	117 53 0	2.0	1.5	15.0	.15	700	N	N	N	70	300
TZSS0038	38 23 37	117 52 10	7.0	3.0	10.0	.30	1,500	<.5	N	N	100	1,000
TZSS0039	38 23 31	117 52 39	5.0	3.0	10.0	.20	1,000	<.5	N	N	100	300
TZT00040	38 23 21	117 53 5	3.0	3.0	15.0	.20	1,000	.5	N	N	100	700
TZSS0040	38 23 21	117 53 5	7.0	5.0	10.0	.20	1,000	.5	N	N	100	500
TZSS0041	38 23 16	117 52 42	5.0	3.0	7.0	.20	1,000	.5	N	N	100	300
TZSS0042	38 23 9	117 53 15	7.0	1.5	1.5	.30	1,000	1.0	N	N	70	700
TZSS0043	38 23 8	117 53 0	7.0	3.0	5.0	.50	1,500	2.0	N	N	70	700
TZS00044	38 23 8	117 53 0	3.0	1.5	10.0	.20	1,500	2.0	N	N	70	700

Table 3. Spectrographic and chemical analyses of -60 mesh (.250mm) stream-sediment samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZSS0001	3.0	N	N	70	500	70	70	10	20	100	200	N	20
TZSS0002	5.0	N	N	30	100	20	30	N	N	50	30	N	15
TZSS0003	10.0	N	N	20	100	30	50	N	N	50	70	N	15
TZSS0004	2.0	N	N	20	100	30	<20	N	N	30	150	N	10
TZSS0005	7.0	N	N	20	100	50	70	5	20	70	150	N	15
TZSS0006	5.0	N	N	50	200	70	30	20	<20	70	300	N	15
TZSS0007	3.0	N	N	30	150	150	20	30	N	100	1,500	100	10
TZSS0008	5.0	N	N	20	70	20	50	N	N	30	70	N	10
TZSS0009	5.0	N	N	30	150	20	30	N	N	30	150	N	15
TZSS0010	5.0	N	N	20	100	20	50	N	<20	70	70	N	15
TZSS0011	5.0	N	N	20	150	50	50	10	<20	70	100	N	10
TZS00012	2.0	10	N	15	50	100	20	200	N	15	50	N	5
TZSS0013	3.0	N	N	15	100	50	20	N	N	70	70	N	10
TZSS0014	1.5	N	N	15	100	30	20	N	N	30	100	N	10
TZSS0015	3.0	20	N	20	150	70	20	N	N	30	100	N	10
TZSS0016	5.0	N	N	30	200	50	50	N	N	50	200	N	10
TZSS0017	2.0	N	N	20	100	50	30	10	20	70	150	N	10
TZSS0018	7.0	N	N	20	100	50	50	7	N	50	100	N	15
TZSS0019	5.0	N	N	50	150	30	50	7	<20	70	100	N	15
TZS00020	1.5	N	N	15	70	20	30	5	N	20	15	N	7
TZSS0021	5.0	N	N	30	150	20	30	N	20	50	100	N	10
TZS00022	1.5	N	N	15	50	10	20	N	N	15	20	N	5
TZS00023	2.0	N	N	15	70	15	30	N	N	20	20	N	5
TZS00024	1.5	N	N	20	100	30	70	N	N	30	20	N	7
TZS00025	2.0	N	N	20	100	20	30	N	N	20	15	N	10
TZS00026	1.5	N	N	15	70	20	20	N	N	20	15	N	7
TZS00027	3.0	N	N	15	150	50	50	N	N	30	70	N	10
TZS00028	2.0	N	N	10	30	15	50	N	N	15	30	N	7
TZS00029	3.0	N	N	10	30	15	50	5	20	15	100	N	10
TZS00030	2.0	N	N	50	200	70	50	7	<20	70	50	N	20
TZS00031	2.0	N	N	20	100	50	50	N	N	30	50	N	15
TZS00032	2.0	N	N	15	30	20	30	N	N	15	15	N	5
TZS00033	1.5	N	N	30	200	20	50	N	N	50	10	N	10
TZS00034	1.5	N	N	15	30	15	30	N	N	20	20	N	7
TZSS0035	1.0	N	N	15	200	20	20	N	N	70	70	N	5
TZSS0036	7.0	N	N	20	150	50	50	N	N	50	70	N	7
TZS00037	1.5	N	N	10	150	30	30	N	N	30	50	N	7
TZSS0038	3.0	N	N	30	200	30	30	10	N	50	70	N	15
TZSS0039	2.0	N	N	15	100	20	20	N	N	30	70	N	7
TZT00040	1.5	N	N	10	50	50	50	N	N	20	100	N	5
TZSS0040	2.0	N	N	20	100	50	50	N	N	50	70	N	10
TZSS0041	1.5	N	N	20	70	70	30	N	N	30	100	N	5
TZSS0042	7.0	N	N	20	70	100	50	70	N	20	150	N	10
TZSS0043	3.0	15	N	20	100	70	50	70	N	30	200	N	10
TZS00044	2.0	10	N	10	50	100	50	15	N	15	100	N	7

Table 3. Spectrographic and chemical analyses of -60 mesh (.250mm) stream-sediment samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	As-ppm aa
TZSS0001	N	500	700	N	50	200	500	N	210	N	N	4	15
TZSS0002	N	500	300	N	15	N	200	N	110	.1	N	3	15
TZSS0003	N	500	200	N	50	N	300	N	60	.1	N	1	30
TZSS0004	N	300	200	N	15	N	150	N	90	.4	N	7	50
TZSS0005	N	500	200	N	50	N	700	N	100	.4	N	5	50
TZSS0006	N	700	200	N	20	N	200	N	150	.9	N	7	100
TZSS0007	N	200	200	N	30	500	150	N	>2,000	15.0	N	70	400
TZSS0008	N	500	150	N	30	N	200	N	110	.2	N	2	25
TZSS0009	N	500	200	N	20	N	>1,000	N	90	.2	N	2	25
TZSS0010	N	500	200	N	20	N	200	N	90	.2	N	4	30
TZSS0011	N	500	200	N	30	N	200	N	95	.2	N	2	30
TZS00012	N	300	100	700	15	200	50	N	430	2.6	10	2	20
TZSS0013	N	700	150	N	20	N	100	N	45	.1	N	5	55
TZSS0014	N	500	100	N	15	N	100	N	60	.2	2	3	40
TZSS0015	N	700	100	150	20	N	100	N	100	.5	4	4	30
TZSS0016	N	500	200	N	20	N	150	N	115	.3	N	3	50
TZSS0017	N	300	150	N	30	N	200	N	90	.3	N	2	75
TZSS0018	N	700	200	N	30	N	150	N	75	.1	N	5	50
TZSS0019	N	500	300	N	30	N	200	N	90	.1	N	6	25
TZS00020	N	300	100	N	15	N	100	N	65	.2	N	3	10
TZSS0021	N	500	200	N	20	N	200	N	90	.1	N	2	30
TZS00022	N	300	50	N	10	N	70	N	60	.1	N	3	20
TZS00023	N	300	70	N	10	N	100	N	55	.2	N	2	5
TZS00024	N	300	200	N	15	N	100	N	60	.1	N	2	15
TZS00025	N	300	70	N	15	N	300	N	65	.3	N	2	10
TZS00026	N	300	100	N	10	N	150	N	70	.2	N	4	20
TZS00027	N	500	200	N	20	200	300	N	80	.1	N	4	20
TZS00028	N	300	70	N	20	N	100	N	50	.3	N	1	5
TZS00029	N	300	70	N	30	N	200	N	50	.1	N	3	40
TZS00030	N	700	500	N	30	<200	500	N	170	.1	N	4	15
TZS00031	N	1,000	150	N	20	N	300	N	65	N	1	3	5
TZS00032	N	500	70	N	10	N	100	N	45	.2	N	2	15
TZS00033	N	300	200	N	15	N	300	N	100	.1	N	2	20
TZS00034	N	300	70	N	15	N	150	N	60	N	N	2	40
TZSS0035	N	500	50	N	10	N	100	N	45	N	N	9	60
TZSS0036	N	700	100	N	20	200	100	N	180	.4	N	2	65
TZS00037	N	1,000	70	N	20	N	70	N	115	.3	N	5	55
TZSS0038	N	1,000	150	100	20	N	200	N	170	.6	N	4	40
TZSS0039	N	700	70	700	15	300	100	N	>2,000	1.6	N	4	45
TZT00040	N	1,000	70	<50	20	300	300	N	500	7.0	2	1	N
TZSS0040	N	700	100	N	20	N	150	N	80	.2	N	5	25
TZSS0041	N	700	100	N	20	N	100	N	60	.1	N	N	40
TZSS0042	N	500	200	700	20	N	150	N	175	1.0	4	1	20
TZSS0043	N	700	200	200	20	N	150	N	>2,000	1.9	N	4	25
TZS00044	N	1,000	70	N	20	300	50	N	>2,000	1.3	7	3	25

Table 3. Spectrographic and chemical analyses of -60 mesh (.250mm) stream-sediment samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Latitude	longtude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZSS0045	38 23 17	117 52 18	7.0	3.0	10.0	.20	1,500	1.0	N	N	100	700
TZS00046	38 22 57	117 52 58	2.0	3.0	20.0	.15	1,000	.5	N	N	70	500
TZS00047	38 22 47	117 52 57	2.0	2.0	5.0	.10	500	N	N	N	70	300
TZS00048	38 22 11	117 53 3	5.0	1.0	1.0	.20	1,500	N	N	N	100	1,000
TZS00049	38 9 28	117 41 18	2.0	.7	.7	.20	300	N	N	N	20	300
TZS00050	38 10 0	117 41 57	5.0	1.0	1.0	.30	700	N	N	N	20	300
TZSS0053	38 9 13	117 41 35	10.0	2.0	2.0	.70	1,500	N	N	N	100	2,000
TZS00054	38 10 51	117 39 59	3.0	1.0	1.5	.30	700	N	N	N	30	500
TZS00055	38 8 54	117 42 5	3.0	1.0	.7	.30	500	N	N	N	20	300
TZS00056	38 11 44	117 40 2	5.0	1.5	2.0	.30	1,500	<.5	N	N	50	1,000
TZS00057	38 11 44	117 40 2	3.0	1.0	1.0	.30	500	3.0	N	N	30	500
TZS00058	38 11 42	117 39 57	5.0	1.5	2.0	.30	1,000	N	N	N	70	1,000
TZS00059	38 9 13	117 43 30	3.0	.7	1.0	.30	700	30.0	N	N	30	500
TZS00060	38 9 4	117 43 58	7.0	1.5	1.5	.50	700	N	N	N	20	300
TZS00061	38 8 3	117 44 21	3.0	1.0	1.0	.20	500	N	N	N	30	500
TZS00062	38 5 57	117 43 1	5.0	1.5	2.0	.30	1,500	N	N	N	100	1,000
TZS00063	38 7 51	117 41 5	3.0	1.5	2.0	.30	1,000	N	N	N	70	700
TZS00064	38 7 43	117 41 35	5.0	1.5	3.0	.50	1,000	N	N	N	70	1,000
TZS00065	38 7 0	117 42 1	15.0	1.5	1.5	1.00	2,000	N	N	N	30	2,000
TZS00066	38 6 41	117 42 32	5.0	1.5	2.0	.50	1,000	N	N	N	50	1,000
TZS00067	38 7 57	117 43 6	7.0	1.5	3.0	.50	1,000	<.5	N	N	70	1,000
TZS00068	38 7 28	117 43 3	3.0	1.0	.7	.20	300	N	N	N	20	500
TZS00072	38 7 27	117 43 15	3.0	1.0	1.0	.20	500	N	N	N	20	500
TZS00073	38 7 8	117 43 38	3.0	1.5	1.0	.30	500	N	N	N	10	300
TZS00074	38 7 14	117 44 25	3.0	1.0	1.0	.30	500	N	N	N	15	500
TZS00075	38 7 4	117 44 49	7.0	2.0	2.0	.50	1,000	N	N	N	70	1,000
TZS00076	38 7 4	117 44 49	3.0	1.0	1.0	.30	500	N	N	N	20	500
TZS00077	38 6 25	117 44 26	3.0	1.0	1.0	.30	500	N	N	N	15	300
TZS00078	38 5 54	117 44 13	3.0	1.0	1.0	.30	500	N	N	N	15	500
TZS00079	38 5 31	117 44 18	5.0	1.5	2.0	.50	1,000	N	N	N	150	1,000
TZS00080	38 5 6	117 44 28	7.0	1.0	2.0	.50	1,500	N	N	N	100	1,500
TZS00081	38 5 12	117 43 48	5.0	1.5	2.0	.30	1,000	N	N	N	70	1,000
TZS00082	38 5 5	117 43 34	10.0	2.0	3.0	.50	1,500	N	N	N	30	1,000
TZS00083	38 5 6	117 44 1	3.0	1.0	1.0	.50	500	N	N	N	20	500
TZS00084	38 6 27	117 43 35	2.0	.7	.7	.20	300	N	N	N	20	300
TZS00085	38 6 19	117 45 37	5.0	1.0	1.0	.30	500	N	N	N	15	500
TZS00086	38 6 52	117 47 4	3.0	1.0	1.0	.20	1,000	N	N	N	70	500
TZS00087	38 6 33	117 46 4	3.0	1.5	1.5	.30	700	<.5	N	N	100	700
TZS00088	38 7 2	117 46 29	2.0	1.0	.7	.20	300	N	N	N	30	500
TZS00093	38 7 8	117 47 30	3.0	1.0	1.0	.30	1,000	N	N	N	70	700
TZS00095	38 7 29	117 48 17	3.0	1.0	1.5	.30	1,000	<.5	N	N	70	700
TZS00096	38 8 11	117 48 30	5.0	1.5	1.5	.30	1,000	N	N	N	70	1,000
TZS00097	38 8 19	117 48 56	3.0	1.0	.7	.30	300	N	N	N	20	300
TZS00098	38 9 29	117 46 37	5.0	1.5	1.0	.50	1,000	N	N	N	30	500
TZS00099	38 9 1	117 46 55	2.0	1.0	.7	.20	500	N	N	N	20	500

Table 3. Spectrographic and chemical analyses of -60 mesh (.250mm) stream-sediment samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZSS0045	2.0	10	N	20	150	70	30	70	N	50	200	N	7
TZS00046	1.0	N	N	10	70	50	30	N	N	20	70	N	5
TZS00047	1.0	N	N	10	50	30	20	N	N	20	50	N	5
TZS00048	3.0	N	N	20	70	50	30	N	N	30	70	N	10
TZS00049	1.5	N	N	15	50	15	30	N	N	20	15	N	7
TZS00050	1.0	N	N	20	100	15	20	N	N	20	20	N	10
TZSS0053	7.0	N	N	70	200	50	70	20	30	100	100	N	20
TZS00054	2.0	N	N	15	100	15	50	N	N	30	20	N	15
TZS00055	2.0	N	N	15	50	15	20	N	N	20	15	N	10
TZS00056	3.0	N	N	20	70	30	50	N	<20	30	50	N	15
TZS00057	1.5	N	N	15	100	20	30	N	N	30	10	N	10
TZS00058	2.0	N	N	20	100	30	50	N	N	30	50	N	10
TZS00059	2.0	N	N	20	50	20	20	N	N	30	15	N	7
TZS00060	1.5	N	N	20	150	50	30	N	N	50	15	N	10
TZS00061	1.5	N	N	15	70	30	50	N	N	30	20	N	7
TZS00062	2.0	N	N	20	70	50	70	N	N	30	50	N	10
TZS00063	3.0	N	N	20	100	20	50	N	<20	50	50	N	10
TZS00064	3.0	N	N	20	70	30	50	N	<20	30	50	N	15
TZS00065	2.0	N	N	50	300	30	300	N	<20	150	50	N	10
TZS00066	2.0	N	N	20	150	20	70	N	N	70	30	N	10
TZS00067	3.0	N	N	20	70	50	50	N	N	30	70	N	15
TZS00068	1.5	N	N	15	70	15	30	N	N	30	20	N	7
TZS00072	1.0	N	N	20	100	30	30	N	N	50	20	N	7
TZS00073	<1.0	N	N	20	100	30	30	N	N	50	30	N	7
TZS00074	1.0	N	N	20	100	30	20	N	N	30	30	N	10
TZS00075	2.0	N	N	20	100	50	50	N	<20	50	70	N	10
TZS00076	1.0	N	N	20	70	30	20	N	N	30	50	N	10
TZS00077	1.0	N	N	20	100	20	30	N	N	50	20	N	7
TZS00078	1.0	N	N	20	100	20	30	N	N	30	20	N	10
TZS00079	3.0	N	N	20	150	70	70	N	<20	30	70	N	10
TZS00080	3.0	N	N	20	100	20	70	N	<20	30	30	N	15
TZS00081	3.0	N	N	15	70	30	50	5	N	30	50	N	10
TZS00082	1.5	N	N	50	150	30	50	N	N	50	20	N	15
TZS00083	1.0	N	N	15	100	15	30	5	<20	15	30	N	10
TZS00084	1.0	N	N	10	50	15	30	N	N	15	30	N	5
TZS00085	<1.0	N	N	20	200	30	N	N	N	50	10	N	10
TZS00086	3.0	N	N	15	30	20	100	N	<20	20	50	N	7
TZS00087	3.0	N	N	15	100	70	50	N	<20	50	70	N	10
TZS00088	1.0	N	N	15	100	20	50	N	N	20	20	N	7
TZS00093	3.0	N	N	15	50	20	70	N	20	20	70	N	7
TZS00095	5.0	N	N	20	50	20	50	7	<20	20	70	N	7
TZS00096	2.0	N	N	20	70	30	50	N	<20	30	30	N	15
TZS00097	1.0	N	N	20	70	20	30	N	N	30	30	N	7
TZS00098	1.0	N	N	30	100	30	30	N	N	50	20	N	10
TZS00099	1.0	N	N	20	100	20	20	N	N	30	20	N	7

Table 3. Spectrographic and chemical analyses of -60 mesh (.250mm) stream-sediment samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	As-ppm aa
TZSS0045	N	700	100	500	20	N	100	N	90	1.5	3	4	45
TZS00046	N	1,500	50	N	20	N	50	N	50	N	N	2	30
TZS00047	N	500	50	N	10	N	50	N	60	.2	N	13	40
TZS00048	N	300	100	N	30	N	100	N	55	N	N	5	30
TZS00049	N	300	70	N	10	N	200	N	45	N	N	2	10
TZS00050	N	300	200	N	15	N	100	N	80	.2	N	1	10
TZSS0053	N	500	300	N	50	N	500	N	105	N	N	N	15
TZS00054	N	500	100	N	15	N	100	N	115	.2	N	5	10
TZS00055	N	300	100	N	15	N	150	N	75	N	N	2	15
TZS00056	N	700	150	N	20	N	200	N	60	.1	N	2	10
TZS00057	N	500	100	N	15	N	100	N	55	.1	N	2	15
TZS00058	N	700	150	N	20	N	200	N	65	.1	N	2	15
TZS00059	N	300	100	N	10	N	100	N	60	N	N	2	25
TZS00060	N	500	300	N	15	N	150	N	100	.3	N	1	5
TZS00061	N	500	100	N	10	N	300	N	75	N	N	4	25
TZS00062	N	500	150	N	20	N	200	N	65	N	N	N	15
TZS00063	N	500	100	N	20	N	100	N	50	N	N	1	N
TZS00064	N	700	200	N	20	N	300	N	60	N	N	2	N
TZS00065	N	500	500	N	30	N	700	N	25	N	N	4	5
TZS00066	N	700	150	N	20	N	500	N	65	.1	N	1	5
TZS00067	N	700	200	N	20	N	150	N	50	N	N	2	5
TZS00068	N	300	70	N	10	N	100	N	75	.2	N	1	30
TZS00072	N	300	100	N	10	N	70	N	90	.2	N	3	45
TZS00073	N	500	100	N	10	N	50	N	75	.2	N	2	15
TZS00074	N	300	100	N	10	N	100	N	80	.1	N	3	20
TZS00075	N	1,000	200	N	20	N	200	N	90	N	N	1	N
TZS00076	N	500	100	N	15	N	150	N	70	.2	N	3	20
TZS00077	N	300	100	N	10	N	100	N	75	.3	N	9	65
TZS00078	N	500	100	N	10	N	100	N	70	.2	N	3	15
TZS00079	N	500	200	N	20	N	300	N	70	N	N	5	10
TZS00080	N	500	200	N	30	N	500	N	60	N	N	12	75
TZS00081	N	700	100	N	20	N	150	N	65	N	N	5	10
TZS00082	N	1,000	300	N	20	N	200	N	140	N	N	3	10
TZS00083	N	200	100	N	20	N	700	N	80	.2	N	25	100
TZS00084	N	300	70	N	10	N	100	N	65	.2	N	2	50
TZS00085	N	200	100	N	10	N	70	N	80	.1	N	10	50
TZS00086	N	300	100	N	15	N	150	N	45	N	N	1	10
TZS00087	N	500	150	N	20	N	150	N	50	N	N	3	<5
TZS00088	N	300	70	N	10	N	50	N	70	.1	N	5	20
TZS00093	N	500	100	N	30	N	150	N	55	N	N	1	5
TZS00095	N	500	100	N	20	N	200	N	70	N	N	2	5
TZS00096	N	500	150	N	15	N	300	N	60	N	N	9	30
TZS00097	N	300	100	N	15	N	200	N	70	.2	N	1	10
TZS00098	N	500	200	N	15	N	100	N	105	.2	N	N	20
TZS00099	N	500	70	N	10	N	70	N	70	.3	N	6	20

Table 3. Spectrographic and chemical analyses of -60 mesh (.250mm) stream-sediment samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Latitude	longtude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZS00100	38 8 8	117 47 28	3.0	.7	.5	.30	300	N	N	N	30	500
TZS00101	38 8 7	117 47 25	2.0	1.0	.7	.20	300	N	N	N	20	500
TZS00102	38 8 8	117 47 28	3.0	.7	1.0	.30	700	N	N	N	50	1,000
TZS00104	38 9 16	117 47 35	2.0	1.0	1.0	.20	500	N	N	N	20	500
TZS00105	38 9 38	117 47 36	5.0	1.5	2.0	.50	1,500	N	N	N	100	1,000
TZS00106	38 8 26	117 49 55	5.0	1.5	1.5	.30	700	N	N	N	70	1,000
TZS00108	38 9 16	117 48 41	3.0	1.5	3.0	.30	2,000	N	N	N	70	1,000
TZS00109	38 10 17	117 49 31	3.0	1.0	1.0	.30	500	N	N	N	20	300
TZS00110	38 10 21	117 49 36	7.0	2.0	3.0	.50	1,500	N	N	N	100	1,000
TZS00111	38 26 4	117 54 53	3.0	1.5	1.5	.30	700	N	N	N	10	500
TZS00112	38 25 23	117 54 38	5.0	1.5	2.0	.30	1,000	N	N	N	30	1,000
TZS00113	38 25 7	117 54 36	5.0	1.5	3.0	.30	1,000	N	N	N	70	1,000
TZS00114	38 25 0	117 53 30	3.0	1.0	3.0	.20	1,000	N	N	N	100	700
TZS00115	38 24 52	117 53 14	2.0	.7	2.0	.20	300	N	N	N	20	300
TZS00116	38 24 6	117 52 32	10.0	1.5	3.0	.50	1,500	N	N	N	70	700
TZS00117	38 23 7	117 51 22	5.0	2.0	15.0	.20	2,000	1.0	N	N	70	700
TZSA0117	38 23 7	117 51 22	3.0	2.0	15.0	.15	2,000	1.0	N	N	50	500
TZS00118	38 22 5	117 51 36	5.0	1.0	1.0	.30	1,000	N	N	N	100	1,000
TZS00119	38 22 5	117 51 36	2.0	.7	.5	.20	300	N	N	N	50	500
TZS00120	38 21 47	117 51 37	5.0	1.0	1.0	.20	1,000	N	N	N	200	1,000
TZS00121	38 20 58	117 52 17	2.0	.5	.5	.20	300	N	N	N	70	700
TZS00122	38 20 13	117 52 22	3.0	1.0	1.0	.20	1,500	N	N	N	100	700
TZS00123	38 19 26	117 51 51	2.0	.7	.3	.30	300	N	N	N	30	700
TZS00124	38 21 30	117 54 54	2.0	.3	.3	.30	500	N	N	N	70	500
TZS00125	38 21 30	117 54 54	3.0	.7	.7	.30	1,000	N	N	N	100	1,000
TZS00126	38 23 46	117 58 20	1.5	.3	1.5	.20	300	N	N	N	50	200
TZS00127	38 23 23	117 58 6	1.5	.3	.5	.15	300	N	N	N	50	300
TZS00128	38 22 43	117 57 46	3.0	.5	.3	.30	500	N	N	N	50	500
TZS00129	38 22 57	117 57 45	2.0	.3	.3	.15	300	N	N	N	50	300
TZS00132	38 23 30	117 56 3	3.0	1.0	1.5	.30	700	N	N	N	15	300
TZS00133	38 24 13	117 58 57	2.0	.5	3.0	.20	300	N	N	N	70	200
TZS00134	38 23 58	117 57 28	3.0	.7	1.5	.20	700	<.5	N	N	150	700
TZS00135	38 23 55	117 57 3	3.0	1.0	3.0	.20	1,000	N	N	N	150	700
TZS00136	38 23 58	117 57 5	2.0	1.0	2.0	.20	500	N	N	N	70	300
TZS00137	38 24 11	117 57 41	3.0	1.0	5.0	.20	700	N	N	N	150	500
TZS00141	38 22 40	117 57 9	1.5	1.0	1.0	.20	300	N	N	N	70	300
TZS00142	38 22 47	117 56 38	5.0	1.5	1.5	.30	1,000	<.5	N	N	300	1,000
TZS00143	38 22 47	117 56 38	2.0	.7	.7	.20	300	N	N	N	70	300
TZS00146	38 22 33	117 55 6	2.0	1.0	3.0	.20	500	N	N	N	50	200
TZS00147	38 21 30	117 54 45	3.0	1.0	3.0	.20	1,000	<.5	N	N	150	700
TZS00148	38 25 57	117 55 36	7.0	1.5	2.0	.50	1,000	N	N	N	70	1,000
TZS00149	38 26 2	117 55 42	5.0	2.0	2.0	.30	1,000	N	N	N	50	700
TZS00150	38 27 23	117 56 33	3.0	1.0	1.0	.30	500	N	N	N	15	300
TZS00151	38 26 39	117 56 56	3.0	1.0	2.0	.30	300	N	N	N	20	300
TZS00152	38 27 15	117 58 20	5.0	1.5	3.0	.50	2,000	N	N	N	70	1,000

Table 3. Spectrographic and chemical analyses of -60 mesh (.250mm) stream-sediment samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZS00100	1.0	N	N	20	100	50	20	7	N	50	20	N	7
TZS00101	1.0	N	N	15	50	20	50	N	N	20	30	N	5
TZS00102	1.0	N	N	20	100	50	50	5	<20	50	20	N	10
TZS00104	1.0	N	N	20	70	20	20	N	N	30	30	N	5
TZS00105	2.0	N	N	20	100	20	50	N	N	30	30	N	10
TZS00106	2.0	N	N	15	100	50	50	N	N	50	70	N	10
TZS00108	2.0	N	N	20	100	30	70	N	N	50	50	N	10
TZS00109	1.0	N	N	20	100	20	30	N	N	30	20	N	10
TZS00110	2.0	N	N	50	100	50	50	7	N	50	20	N	15
TZS00111	1.0	N	N	20	50	20	<20	N	N	15	15	N	7
TZS00112	2.0	N	N	15	70	15	30	N	N	20	30	N	15
TZS00113	2.0	N	N	20	70	30	50	N	N	20	50	N	10
TZS00114	3.0	N	N	20	100	50	70	N	N	30	70	N	10
TZS00115	1.0	N	N	15	50	20	30	N	N	15	30	N	7
TZS00116	1.5	N	N	50	100	70	20	N	N	15	30	N	20
TZS00117	3.0	15	N	10	70	50	30	20	N	20	70	N	10
TZSA0117	2.0	10	N	15	50	50	100	10	N	20	70	N	7
TZS00118	2.0	N	N	15	100	150	70	10	N	30	50	N	10
TZS00119	1.0	N	N	15	100	100	<20	7	N	30	20	N	5
TZS00120	2.0	N	N	15	100	100	30	7	N	30	30	N	10
TZS00121	1.5	N	N	15	100	70	20	N	N	30	30	N	5
TZS00122	3.0	N	N	20	150	100	50	N	N	30	70	N	10
TZS00123	<1.0	N	N	15	50	70	50	7	N	20	10	N	5
TZS00124	1.5	N	N	10	100	30	50	N	N	20	50	N	7
TZS00125	3.0	N	N	15	70	50	50	N	<20	20	50	N	10
TZS00126	<1.0	N	N	15	100	30	20	N	N	30	20	N	7
TZS00127	1.0	N	N	15	70	20	20	N	N	30	20	N	5
TZS00128	1.0	N	N	15	100	30	100	N	N	30	30	N	7
TZS00129	1.0	N	N	15	150	20	20	N	N	30	20	N	5
TZS00132	<1.0	N	N	20	100	15	20	N	N	15	20	N	7
TZS00133	1.0	N	N	15	70	30	20	N	N	30	20	N	7
TZS00134	2.0	N	N	15	70	50	50	N	N	20	50	N	10
TZS00135	3.0	N	N	15	100	50	50	N	<20	30	70	N	10
TZS00136	1.5	<10	N	20	100	50	20	N	N	30	100	N	7
TZS00137	2.0	N	N	15	150	50	30	15	N	20	50	N	10
TZS00141	1.0	N	N	10	50	20	<20	N	N	20	30	200	5
TZS00142	2.0	N	N	20	100	50	100	N	N	30	50	N	15
TZS00143	<1.0	N	N	15	150	30	70	N	N	30	20	N	7
TZS00146	<1.0	N	N	15	100	20	30	N	N	30	30	N	7
TZS00147	2.0	N	N	15	70	50	50	N	N	30	70	N	10
TZS00148	2.0	N	N	20	70	30	30	N	N	30	30	N	15
TZS00149	2.0	N	N	20	70	20	30	N	N	20	50	N	15
TZS00150	1.0	N	N	20	70	15	30	N	N	15	20	N	7
TZS00151	<1.0	N	N	15	70	20	30	N	N	20	30	N	10
TZS00152	2.0	N	N	20	50	30	30	5	N	30	30	N	10

Table 3. Spectrographic and chemical analyses of -60 mesh (.250mm) stream-sediment samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	As-ppm aa
TZS00100	N	300	100	N	10	N	100	N	70	.4	N	20	70
TZS00101	N	300	70	N	10	N	100	N	65	.1	N	8	30
TZS00102	N	500	100	N	20	N	200	N	70	.3	N	16	75
TZS00104	N	300	70	N	15	N	100	N	55	.2	N	17	70
TZS00105	N	500	150	N	20	N	150	N	55	N	N	2	N
TZS00106	N	500	100	N	20	N	150	N	35	N	N	1	N
TZS00108	N	700	150	N	20	N	100	N	65	N	N	1	N
TZS00109	N	300	100	N	10	N	70	N	80	.2	N	3	30
TZS00110	N	1,000	200	N	20	N	200	N	70	N	N	1	N
TZS00111	N	500	100	N	10	N	100	N	80	.3	N	2	10
TZS00112	N	1,000	150	N	20	N	100	N	75	N	N	1	10
TZS00113	N	500	100	N	20	N	200	N	70	N	N	3	30
TZS00114	N	300	70	N	20	N	150	N	50	N	N	6	40
TZS00115	N	300	70	N	10	N	50	N	85	.4	N	6	40
TZS00116	N	700	300	N	20	N	200	N	95	N	N	N	5
TZS00117	N	1,000	100	70	20	300	150	N	205	1.8	9	2	35
TZSA0117	N	1,000	100	70	20	500	150	N	>2,000	2.5	7	1	30
TZS00118	N	300	100	N	20	N	200	N	42	N	N	N	50
TZS00119	N	200	70	N	10	N	100	N	45	.3	N	4	50
TZS00120	N	300	100	N	20	N	300	N	40	N	N	3	60
TZS00121	N	200	70	N	15	N	150	N	40	.2	N	8	35
TZS00122	N	300	100	N	20	N	100	N	40	N	N	4	15
TZS00123	N	200	70	N	10	N	70	N	40	.3	N	4	25
TZS00124	N	300	70	N	15	N	150	N	40	.1	N	7	40
TZS00125	N	500	100	N	30	N	200	N	35	N	N	4	40
TZS00126	N	300	50	N	10	N	50	N	65	.2	N	3	20
TZS00127	N	200	50	N	10	N	100	N	55	.3	N	4	30
TZS00128	N	200	70	N	15	N	200	N	65	.3	N	6	20
TZS00129	N	150	50	N	10	N	100	N	60	.1	N	8	20
TZS00132	N	300	70	N	10	N	70	N	75	.1	N	1	20
TZS00133	N	300	50	N	10	N	50	N	65	.3	N	3	15
TZS00134	N	300	70	N	20	N	100	N	50	N	N	2	20
TZS00135	N	300	100	N	20	N	200	N	48	N	N	4	35
TZS00136	N	500	70	N	10	N	70	N	75	.4	N	12	40
TZS00137	N	500	100	N	15	N	150	N	50	N	N	4	30
TZS00141	N	150	50	N	10	N	150	N	95	.6	N	>100	15
TZS00142	N	300	150	N	20	N	200	N	70	.3	N	52	35
TZS00143	N	150	70	N	10	N	200	N	80	.5	N	90	30
TZS00146	N	300	50	N	10	N	50	N	50	.2	N	4	50
TZS00147	N	500	70	N	20	N	150	N	50	<.1	N	10	40
TZS00148	N	700	300	N	15	N	70	N	75	.1	N	<1	N
TZS00149	N	500	150	N	20	N	70	N	70	N	N	N	15
TZS00150	N	300	100	N	10	N	100	N	70	N	N	N	10
TZS00151	N	500	70	N	15	N	150	N	50	.3	N	N	15
TZS00152	N	700	200	N	15	N	100	N	70	N	N	N	N

Table 3. Spectrographic and chemical analyses of -60 mesh (.250mm) stream-sediment samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Latitude	longtude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZS00153	38 26 36	117 58 29	5.0	1.5	7.0	.50	1,000	<.5	N	N	100	1,000
TZS00154	38 25 45	117 58 10	3.0	1.5	7.0	.30	700	N	N	N	150	700
TZS00158	38 18 57	117 57 29	5.0	1.5	1.5	.30	1,500	.5	N	N	100	1,000
TZS00159	38 19 17	117 57 5	2.0	1.0	.5	.20	500	N	N	N	50	300
TZS00161	38 20 18	117 57 11	3.0	.7	.3	.20	500	N	N	N	70	300
TZS00162	38 19 39	117 57 6	3.0	1.5	.7	.20	1,000	N	N	N	100	1,000
TZS00163	38 19 37	117 58 41	10.0	2.0	2.0	.50	1,500	N	N	N	50	700
TZS00164	38 19 4	117 59 0	7.0	1.5	1.5	.30	1,000	N	N	N	50	1,000
TZS00165	38 19 3	117 59 4	5.0	1.5	1.0	.30	1,500	1.0	N	N	70	1,000
TZS00166	38 17 35	117 58 15	7.0	1.5	1.5	.30	1,500	<.5	N	N	70	1,000
TZS00167	38 17 35	117 58 12	7.0	2.0	5.0	.30	1,000	N	N	N	50	1,000
TZS00168	38 20 5	117 55 0	3.0	.7	1.0	.20	1,000	<.5	N	N	150	1,000
TZS00169	38 20 58	117 55 58	3.0	.7	1.0	.20	700	N	N	N	150	1,000
TZS00170	38 20 40	117 55 43	5.0	1.0	1.0	.30	1,000	N	N	N	150	1,000
TZS00171	38 20 55	117 55 22	3.0	.7	1.0	.20	1,000	N	N	N	100	1,000
TZS00172	38 21 15	117 55 11	3.0	.7	1.5	.30	1,000	N	N	N	100	1,500
TZS31A01	38 24 30	117 54 50	5.0	1.0	7.0	.20	1,000	N	N	N	150	500
TZS31A02	38 24 30	117 55 0	5.0	1.5	2.0	.20	500	N	N	N	100	500
TZS31A03	38 24 35	117 56 0	3.0	1.0	1.5	.20	300	N	N	N	50	200
TZS31A04	38 24 40	117 57 20	7.0	1.0	2.0	.20	1,000	N	N	N	100	700
TZS31A05	38 24 45	117 57 20	7.0	1.0	2.0	.30	1,000	<.5	N	N	200	700
TZS31A06	38 24 50	117 58 30	7.0	1.5	2.0	.30	1,500	<.5	N	N	200	1,000
TZS31A07	38 24 25	117 58 30	5.0	1.0	1.0	.20	700	N	N	N	100	300
TZS31A08	38 25 10	117 58 50	7.0	1.5	5.0	.50	1,000	N	N	N	100	1,000
TZS31A09	38 25 55	117 58 55	7.0	3.0	10.0	.30	1,500	N	N	N	150	700
TZS31A10	38 26 40	117 58 5	7.0	2.0	7.0	.30	1,000	<.5	N	N	200	700
TZS31A11	38 25 50	117 57 10	7.0	1.5	5.0	.30	1,000	<.5	N	N	150	700
TZS31A12	38 25 10	117 55 50	7.0	1.5	1.5	.30	1,000	N	N	N	150	700
TZS31A13	38 25 35	117 54 20	3.0	1.0	1.0	.30	500	N	N	N	30	300
TZS31A15	38 26 40	117 56 40	7.0	1.5	3.0	.30	1,000	N	N	N	100	1,000
TZS31A16	38 27 15	117 58 5	7.0	2.0	1.5	.30	1,500	N	N	N	100	1,000
TZS31A17	38 26 36	117 58 29	5.0	1.5	3.0	.20	500	N	N	N	100	500
TZS31A20	38 27 23	117 56 33	7.0	1.5	1.5	.30	1,000	N	N	N	50	1,000
TZS31A21	38 27 15	117 56 30	5.0	1.0	1.0	.20	700	N	N	N	30	500
TZS31A22	38 27 10	117 56 30	5.0	1.0	.7	.20	500	N	N	N	20	300
TZS31A23	38 26 40	117 56 0	5.0	1.5	1.0	.30	700	N	N	N	30	700
TZS31A24	38 25 45	117 55 35	7.0	2.0	1.5	.30	1,000	N	N	N	50	1,000
TZS31A25	38 25 57	117 55 36	10.0	1.5	1.5	.50	1,000	N	N	N	50	700
TZS31A26	38 26 2	117 55 42	7.0	2.0	1.5	.30	1,000	<.5	N	N	50	1,000
TZS31A27	38 26 35	117 55 45	7.0	2.0	2.0	.50	1,000	N	N	N	50	700
TZS31A28	38 24 0	117 58 25	7.0	1.0	3.0	.20	1,000	<.5	N	N	200	500
TZS31A29	38 24 0	117 58 5	3.0	1.0	1.5	.20	700	N	N	N	100	500

Table 3. Spectrographic and chemical analyses of -60 mesh (.250mm) stream-sediment samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZS00153	2.0	N	N	15	70	20	50	7	N	20	50	N	10
TZS00154	2.0	N	N	15	70	30	50	N	N	30	50	N	10
TZS00158	3.0	N	N	20	70	100	50	N	N	20	70	N	10
TZS00159	2.0	N	N	15	100	50	30	N	N	30	30	N	7
TZS00161	1.0	N	N	15	100	50	20	N	N	20	20	N	7
TZS00162	2.0	N	N	15	70	100	50	N	N	20	70	N	10
TZS00163	2.0	N	N	30	150	70	30	N	N	30	50	N	20
TZS00164	2.0	N	N	20	100	50	50	N	N	20	50	N	20
TZS00165	3.0	N	N	20	150	100	50	N	<20	30	100	N	15
TZS00166	2.0	N	N	20	100	100	50	N	N	30	70	N	20
TZS00167	1.5	N	N	30	100	20	20	N	N	20	20	N	30
TZS00168	3.0	N	N	20	100	50	50	N	<20	30	50	N	15
TZS00169	2.0	N	N	20	150	70	50	N	N	30	50	N	15
TZS00170	2.0	N	N	20	70	50	50	N	N	30	50	N	15
TZS00171	2.0	N	N	15	70	100	50	N	N	20	50	N	10
TZS00172	3.0	N	N	15	70	70	50	N	<20	20	50	N	10
TZS31A01	5.0	N	N	20	50	20	30	N	N	50	50	N	10
TZS31A02	3.0	N	N	20	70	30	20	N	N	30	70	N	7
TZS31A03	1.0	N	N	20	150	15	50	N	N	30	30	N	7
TZS31A04	5.0	N	N	30	100	50	50	N	N	50	70	N	10
TZS31A05	7.0	N	N	20	100	50	150	N	<20	70	70	N	15
TZS31A06	5.0	N	N	50	100	50	50	N	<20	70	100	N	15
TZS31A07	2.0	N	N	20	100	30	20	N	N	30	50	N	7
TZS31A08	5.0	N	N	30	70	20	30	N	N	50	50	N	20
TZS31A09	3.0	N	N	20	100	30	50	N	N	30	100	N	10
TZS31A10	5.0	N	N	20	150	30	30	N	N	70	100	N	15
TZS31A11	5.0	N	N	20	100	30	30	N	N	50	100	N	10
TZS31A12	5.0	N	N	30	100	50	30	N	N	70	70	N	10
TZS31A13	1.5	N	N	10	50	15	20	N	N	15	30	N	7
TZS31A15	5.0	N	N	20	50	20	50	N	N	20	50	N	20
TZS31A16	3.0	N	N	50	100	50	50	N	N	30	30	N	20
TZS31A17	3.0	N	N	15	70	20	50	N	N	50	50	N	15
TZS31A20	3.0	N	N	20	70	20	30	N	N	30	30	N	15
TZS31A21	1.5	N	N	20	70	10	20	N	N	20	10	N	10
TZS31A22	1.0	N	N	20	50	10	<20	N	N	10	30	N	7
TZS31A23	2.0	N	N	20	70	10	20	N	N	20	15	N	10
TZS31A24	5.0	N	N	50	70	30	30	N	N	50	50	N	20
TZS31A25	2.0	N	N	50	150	30	30	N	N	70	20	N	20
TZS31A26	3.0	N	N	30	100	30	30	N	N	30	50	N	20
TZS31A27	3.0	N	N	30	70	20	20	N	N	30	30	N	15
TZS31A28	3.0	N	N	20	150	50	30	N	N	70	70	N	15
TZS31A29	3.0	N	N	15	70	20	30	N	N	50	50	N	10

Table 3. Spectrographic and chemical analyses of -60 mesh (.250mm) stream-sediment samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	As-ppm aa
TZS00153	N	700	200	N	20	N	150	N	55	N	N	1	N
TZS00154	N	700	100	N	20	N	150	N	35	N	N	2	N
TZS00158	N	300	150	N	20	N	150	N	50	N	N	3	25
TZS00159	N	200	70	N	15	N	200	N	60	.1	N	4	15
TZS00161	N	200	100	N	10	N	70	N	55	.3	N	4	10
TZS00162	N	300	150	N	20	N	150	N	60	N	N	1	15
TZS00163	N	700	300	N	20	N	100	N	100	N	N	2	20
TZS00164	N	700	200	N	30	N	100	N	90	N	N	3	15
TZS00165	N	500	150	N	30	N	150	N	80	N	N	3	20
TZS00166	N	500	300	N	30	N	70	N	90	N	N	5	15
TZS00167	N	500	200	N	30	N	100	N	85	N	N	3	25
TZS00168	N	300	100	N	30	N	200	N	40	N	N	3	15
TZS00169	N	300	100	N	20	N	150	N	55	.1	N	3	25
TZS00170	N	300	150	N	30	N	150	N	55	N	N	3	20
TZS00171	N	500	100	N	20	N	200	N	45	N	N	6	35
TZS00172	N	500	100	N	30	N	300	N	45	N	N	11	40
TZS31A01	N	500	100	N	20	N	100	N	50	N	N	6	40
TZS31A02	N	300	70	N	20	N	150	N	55	N	N	4	35
TZS31A03	N	150	100	N	10	N	150	N	55	N	N	6	55
TZS31A04	N	500	100	N	20	N	100	N	55	N	N	4	30
TZS31A05	N	500	150	N	30	N	200	N	60	N	N	3	10
TZS31A06	N	500	150	N	30	N	500	N	50	N	N	1	N
TZS31A07	N	150	100	N	15	N	150	N	45	N	N	4	10
TZS31A08	N	700	200	N	30	N	150	N	50	N	N	2	<5
TZS31A09	N	1,000	100	N	20	N	200	N	40	N	N	2	N
TZS31A10	N	1,000	100	N	30	N	200	N	35	N	N	N	N
TZS31A11	N	500	150	N	20	N	200	N	40	N	N	3	N
TZS31A12	N	500	100	N	20	N	200	N	65	N	N	3	N
TZS31A13	N	500	150	N	10	N	70	N	55	N	N	2	15
TZS31A15	N	700	200	N	30	N	150	N	65	N	N	N	N
TZS31A16	N	700	300	N	20	N	150	N	70	N	N	N	15
TZS31A17	N	500	100	N	20	N	150	N	40	N	N	3	10
TZS31A20	N	1,000	200	N	20	N	300	N	60	N	N	2	N
TZS31A21	N	500	150	N	10	N	150	N	60	N	N	1	N
TZS31A22	N	300	200	N	10	N	70	N	70	N	N	N	N
TZS31A23	N	700	200	N	15	N	100	N	60	N	N	N	N
TZS31A24	N	1,000	300	N	50	N	100	N	70	N	N	2	N
TZS31A25	N	700	300	N	20	N	150	N	55	N	N	3	15
TZS31A26	N	1,000	200	N	15	N	150	N	70	N	N	N	N
TZS31A27	N	1,000	300	N	15	N	200	N	70	.1	N	N	N
TZS31A28	N	700	150	N	70	N	150	N	50	N	N	3	22
TZS31A29	N	300	100	N	20	N	200	N	70	.1	N	N	N

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada (N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.)

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZSA0001	38 9 38	117 42 15	10.0	1.5	2.0	1.00	2,000	2.0	N	N	50	5,000
TZSB0001	38 9 38	117 42 15	15.0	2.0	3.0	1.00	2,000	N	N	N	50	5,000
TZSC0001	38 9 38	117 42 15	20.0	1.5	3.0	>1.00	3,000	<.5	N	N	30	5,000
TZSD0001	38 9 38	117 42 15	15.0	1.0	2.0	>1.00	2,000	N	N	N	50	5,000
TZSE0001	38 9 38	117 42 15	7.0	1.0	2.0	1.00	1,000	N	N	N	100	3,000
TZSF0001	38 9 38	117 42 15	2.0	.7	2.0	.50	700	N	N	N	100	1,000
TZSA0002	38 8 56	117 41 38	5.0	1.0	2.0	1.00	1,500	N	N	N	15	700
TZSB0002	38 8 56	117 41 38	5.0	1.0	2.0	.70	1,000	N	N	N	10	700
TZSC0002	38 8 56	117 41 38	7.0	1.5	3.0	1.00	1,500	N	N	N	20	700
TZSD0002	38 8 56	117 41 38	3.0	.7	2.0	1.00	700	N	N	N	20	500
TZSE0002	38 8 56	117 41 38	3.0	1.0	2.0	1.00	1,000	N	N	N	30	700
TZSF0002	38 8 56	117 41 38	2.0	1.0	3.0	.50	500	N	N	N	20	700
TZSA0003	38 10 5	117 42 46	5.0	1.0	3.0	.50	1,000	N	N	N	70	1,500
TZSB0003	38 10 5	117 42 46	5.0	1.5	5.0	.70	1,000	N	N	N	70	1,500
TZSC0003	38 10 5	117 42 46	5.0	1.5	3.0	.50	1,000	N	N	N	70	1,500
TZSD0003	38 10 5	117 42 46	5.0	1.0	3.0	.50	1,000	N	N	N	70	1,000
TZSE0003	38 10 5	117 42 46	3.0	.7	2.0	.30	700	N	N	N	50	700
TZSF0003	38 10 5	117 42 46	3.0	1.0	3.0	.50	700	N	N	N	100	700
TZSA0004	38 10 24	117 42 30	3.0	1.0	2.0	.30	700	.5	N	N	30	700
TZSB0004	38 10 24	117 42 30	5.0	1.0	3.0	.50	1,000	.7	N	N	50	1,000
TZSC0004	38 10 24	117 42 30	5.0	1.0	3.0	.30	1,000	.7	N	N	70	1,000
TZSD0004	38 10 24	117 42 30	5.0	1.0	5.0	.30	1,000	.7	N	N	70	1,000
TZSE0004	38 10 24	117 42 30	3.0	1.0	3.0	.30	1,000	.5	N	N	100	1,000
TZSF0004	38 10 24	117 42 30	5.0	1.5	2.0	.30	1,000	1.5	N	N	100	1,000
TZSA0005	38 10 14	117 41 56	1.5	.7	2.0	.15	1,000	N	N	N	50	700
TZSB0005	38 10 14	117 41 56	3.0	1.0	2.0	.20	1,000	<.5	N	N	70	1,000
TZSC0005	38 10 14	117 41 56	3.0	1.0	2.0	.30	1,000	.5	N	N	70	1,000
TZSD0005	38 10 14	117 41 56	3.0	1.0	2.0	.30	1,000	.5	N	N	100	700
TZSE0005	38 10 14	117 41 56	5.0	1.0	2.0	.30	1,000	.5	N	N	100	1,000
TZSF0005	38 10 14	117 41 56	3.0	1.0	2.0	.30	1,000	.7	N	N	100	1,000
TZSA0006	38 9 57	117 41 9	5.0	1.0	5.0	.30	1,500	1.0	N	N	70	1,500
TZSB0006	38 9 57	117 41 9	5.0	1.0	5.0	.30	1,500	3.0	N	N	70	1,500
TZSC0006	38 9 57	117 41 9	5.0	1.0	5.0	.30	1,500	2.0	N	N	70	1,500
TZSD0006	38 9 57	117 41 9	7.0	1.5	3.0	.50	1,500	3.0	N	N	100	1,500
TZSE0006	38 9 57	117 41 9	5.0	1.0	3.0	.50	1,000	1.5	N	N	100	1,000
TZSF0006	38 9 57	117 41 9	5.0	1.5	3.0	.50	1,000	2.0	N	N	100	1,000
TZSA0007	38 9 55	117 40 47	5.0	1.0	5.0	.30	2,000	20.0	1,000	N	150	1,500
TZSB0007	38 9 55	117 40 47	3.0	.7	5.0	.30	1,000	10.0	500	N	100	1,000
TZSC0007	38 9 55	117 40 47	5.0	1.0	5.0	.30	2,000	15.0	700	N	150	1,000
TZSD0007	38 9 55	117 40 47	3.0	.7	3.0	.30	1,000	10.0	500	N	70	1,000
TZSE0007	38 9 55	117 40 47	7.0	1.0	3.0	.50	2,000	20.0	700	N	100	1,000
TZSF0007	38 9 55	117 40 47	5.0	1.0	3.0	.30	1,500	15.0	700	N	100	1,000

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZSA0001	2.0	N	N	50	100	30	50	N	N	50	50	N	20
TZSB0001	2.0	N	N	50	150	50	70	N	N	50	30	N	20
TZSC0001	1.5	N	N	70	300	70	70	N	<20	70	50	N	20
TZSD0001	2.0	N	N	50	200	50	100	N	<20	70	50	N	15
TZSE0001	2.0	N	N	20	100	30	50	N	<20	30	30	N	10
TZSF0001	2.0	N	N	10	70	50	50	N	N	30	50	N	10
TZSA0002	1.5	N	N	30	70	30	50	N	N	30	15	N	15
TZSB0002	2.0	N	N	30	70	30	30	N	N	20	20	N	15
TZSC0002	2.0	N	N	30	100	50	50	N	N	30	30	N	15
TZSD0002	2.0	N	N	20	50	20	30	N	N	20	20	N	10
TZSE0002	2.0	N	N	20	50	30	30	N	N	20	20	N	10
TZSF0002	2.0	N	N	15	30	30	30	N	N	15	20	N	10
TZSA0003	3.0	N	N	20	30	20	30	N	N	20	20	N	10
TZSB0003	3.0	N	N	20	50	30	50	N	N	20	50	N	15
TZSC0003	3.0	N	N	20	30	20	50	N	N	20	30	N	10
TZSD0003	2.0	N	N	20	50	20	50	N	N	20	50	N	10
TZSE0003	2.0	N	N	10	30	15	30	N	N	10	20	N	7
TZSF0003	3.0	N	N	10	30	20	50	N	N	15	30	N	10
TZSA0004	1.0	N	N	15	20	30	30	N	N	15	70	N	7
TZSB0004	2.0	N	N	15	20	50	30	N	N	15	100	N	10
TZSC0004	2.0	N	N	15	30	30	70	N	N	20	100	N	10
TZSD0004	3.0	N	N	20	50	30	70	N	N	20	50	N	10
TZSE0004	3.0	N	N	15	50	30	100	N	N	20	50	N	10
TZSF0004	3.0	N	N	20	70	50	70	5	<20	30	150	N	10
TZSA0005	3.0	N	N	10	30	20	50	N	N	10	50	N	7
TZSB0005	3.0	N	N	15	30	50	70	7	N	20	50	N	10
TZSC0005	3.0	N	N	15	30	50	50	5	N	20	100	N	10
TZSD0005	3.0	N	N	15	30	30	50	5	N	20	70	N	10
TZSE0005	3.0	N	N	20	50	20	100	5	N	20	50	N	10
TZSF0005	3.0	N	N	15	70	50	70	N	<20	30	150	N	10
TZSA0006	2.0	N	N	20	30	70	70	10	<20	20	150	N	10
TZSB0006	2.0	N	N	20	50	70	70	15	<20	30	150	N	10
TZSC0006	3.0	N	N	20	50	70	70	15	N	30	200	N	10
TZSD0006	2.0	N	N	30	70	70	70	15	N	30	700	N	10
TZSE0006	3.0	N	N	30	70	50	70	10	N	30	300	N	10
TZSF0006	3.0	N	N	20	100	70	100	<5	<20	30	200	N	10
TZSA0007	2.0	N	70	30	100	300	70	50	N	70	3,000	100	10
TZSB0007	1.5	N	30	20	100	200	50	20	N	50	1,000	<100	7
TZSC0007	1.5	N	50	30	100	300	50	30	N	70	2,000	<100	10
TZSD0007	2.0	N	50	20	100	150	50	15	N	30	700	<100	7
TZSE0007	2.0	N	50	30	100	200	50	20	N	70	3,000	<100	10
TZSF0007	2.0	N	70	20	150	200	70	15	N	70	2,000	100	10

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
TZSA0001	N	300	500	N	20	200	100	N
TZSB0001	N	300	500	N	30	300	150	N
TZSC0001	N	500	700	N	30	500	300	N
TZSD0001	N	500	700	N	30	300	1,000	N
TZSE0001	N	500	300	N	20	<200	1,000	N
TZSF0001	N	300	100	N	20	N	500	N
TZSA0002	N	500	500	N	20	N	100	N
TZSB0002	N	300	500	N	20	N	70	N
TZSC0002	N	500	500	N	20	N	100	N
TZSD0002	N	300	300	N	15	N	200	N
TZSE0002	N	500	200	N	20	N	200	N
TZSF0002	N	200	150	N	20	N	150	N
TZSA0003	N	500	150	N	15	N	150	N
TZSB0003	N	500	150	N	20	N	150	N
TZSC0003	N	500	150	N	20	N	150	N
TZSD0003	N	500	200	N	20	N	200	N
TZSE0003	N	300	100	N	10	N	100	N
TZSF0003	N	300	100	N	20	N	300	N
TZSA0004	N	300	70	N	10	N	70	N
TZSB0004	N	500	150	N	20	N	100	N
TZSC0004	N	500	100	N	20	N	100	N
TZSD0004	N	700	150	N	20	N	100	N
TZSE0004	N	500	100	N	20	<200	100	N
TZSF0004	N	500	150	N	30	<200	300	N
TZSA0005	N	200	70	N	20	N	100	N
TZSB0005	N	300	100	N	20	<200	100	N
TZSC0005	N	300	100	N	20	<200	100	N
TZSD0005	N	500	100	N	20	<200	100	N
TZSE0005	N	500	150	N	30	<200	150	N
TZSF0005	N	500	150	N	30	<200	300	N
TZSA0006	N	500	150	N	20	200	150	N
TZSB0006	N	500	150	N	20	300	100	N
TZSC0006	N	700	150	N	20	300	150	N
TZSD0006	N	700	150	N	20	300	100	N
TZSE0006	N	500	200	N	20	200	200	N
TZSF0006	N	500	200	N	30	200	300	N
TZSA0007	N	500	150	N	30	1,500	150	N
TZSB0007	N	300	100	N	20	700	100	N
TZSC0007	N	300	150	N	20	1,000	100	N
TZSD0007	N	300	100	N	20	1,000	100	N
TZSE0007	N	300	200	N	20	1,500	100	N
TZSF0007	N	200	150	N	30	1,500	200	N

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZSA0008	38 10 34	117 41 4	5.0	2.0	5.0	.50	1,500	.7	N	N	70	1,500
TZSB0008	38 10 34	117 41 4	5.0	2.0	5.0	.50	1,500	.5	N	N	70	1,500
TZSC0008	38 10 34	117 41 4	5.0	1.5	3.0	.50	1,500	<.5	N	N	70	1,500
TZSD0008	38 10 34	117 41 4	2.0	.7	2.0	.30	700	<.5	N	N	50	700
TZSE0008	38 10 34	117 41 4	3.0	1.0	2.0	.30	700	N	N	N	70	700
TZSF0008	38 10 34	117 41 4	3.0	1.0	2.0	.30	700	N	N	N	70	700
TZSA0009	38 10 58	117 41 44	3.0	1.5	3.0	.30	1,000	<.5	N	N	50	1,500
TZSB0009	38 10 58	117 41 44	5.0	1.5	5.0	.50	1,500	<.5	N	N	50	1,500
TZSC0009	38 10 58	117 41 44	7.0	1.5	3.0	.50	1,500	<.5	N	N	50	1,500
TZSD0009	38 10 58	117 41 44	7.0	1.0	3.0	.70	1,500	N	N	N	70	1,500
TZSE0009	38 10 58	117 41 44	5.0	1.0	2.0	.50	1,000	N	N	N	70	1,000
TZSF0009	38 10 58	117 41 44	5.0	1.0	2.0	.50	1,000	<.5	N	N	100	1,000
TZSA0010	38 11 11	117 42 8	5.0	1.5	3.0	.50	1,500	<.5	N	N	50	1,500
TZSB0010	38 11 11	117 42 8	3.0	1.0	2.0	.30	1,500	<.5	N	N	50	1,500
TZSC0010	38 11 11	117 42 8	5.0	1.0	2.0	.50	1,000	.5	N	N	50	1,000
TZSD0010	38 11 11	117 42 8	5.0	1.0	2.0	.50	1,500	.5	N	N	70	1,000
TZSE0010	38 11 11	117 42 8	3.0	1.0	2.0	.30	1,000	<.5	N	N	100	1,000
TZSF0010	38 11 11	117 42 8	5.0	1.5	2.0	.50	1,000	.7	N	N	100	1,000
TZSA0011	38 11 23	117 42 29	2.0	1.0	3.0	.20	1,000	N	N	N	50	1,500
TZSB0011	38 11 23	117 42 29	2.0	1.0	3.0	.20	1,000	N	N	N	50	1,500
TZSC0011	38 11 23	117 42 29	2.0	1.0	3.0	.30	1,000	N	N	N	50	1,000
TZSD0011	38 11 23	117 42 29	2.0	1.0	3.0	.30	1,000	N	N	N	50	1,000
TZSE0011	38 11 23	117 42 29	2.0	1.0	2.0	.20	700	N	N	N	70	700
TZSF0011	38 11 23	117 42 29	1.5	1.0	2.0	.20	700	N	N	N	70	700
TZSA0013	38 23 24	117 53 50	3.0	1.5	20.0	.15	700	<.5	N	N	150	300
TZSB0013	38 23 24	117 53 50	3.0	2.0	20.0	.15	1,000	.5	N	N	150	300
TZSC0013	38 23 24	117 53 50	2.0	2.0	20.0	.15	1,000	<.5	N	N	200	300
TZSD0013	38 23 24	117 53 50	2.0	2.0	20.0	.20	1,000	<.5	N	N	200	500
TZSE0013	38 23 24	117 53 50	3.0	2.0	20.0	.20	1,000	<.5	N	N	200	500
TZSF0013	38 23 24	117 53 50	2.0	1.5	15.0	.30	1,000	.5	N	N	200	500
TZSA0014	38 23 20	117 53 34	1.5	2.0	>20.0	.10	700	<.5	N	N	20	200
TZSB0014	38 23 20	117 53 34	2.0	5.0	>20.0	.10	1,000	<.5	N	N	30	200
TZSC0014	38 23 20	117 53 34	2.0	5.0	>20.0	.10	1,000	.5	N	N	70	300
TZSD0014	38 23 20	117 53 34	2.0	5.0	>20.0	.10	700	.5	N	N	100	300
TZSE0014	38 23 20	117 53 34	3.0	5.0	20.0	.20	1,000	.7	N	N	150	700
TZSF0014	38 23 20	117 53 34	2.0	3.0	10.0	.20	700	1.0	N	N	150	700
TZSA0015	38 23 24	117 53 9	2.0	7.0	>20.0	.15	1,500	1.0	N	N	50	300
TZSB0015	38 23 24	117 53 9	2.0	7.0	>20.0	.10	1,500	1.0	N	N	50	300
TZSC0015	38 23 24	117 53 9	3.0	7.0	20.0	.10	1,500	1.0	N	N	100	300
TZSD0015	38 23 24	117 53 9	2.0	7.0	20.0	.10	1,500	2.0	N	N	70	500
TZSE0015	38 23 24	117 53 9	2.0	5.0	15.0	.15	1,000	1.5	N	N	100	500
TZSF0015	38 23 24	117 53 9	2.0	3.0	10.0	.20	1,000	1.0	N	N	70	700

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZSA0008	2.0	N	N	30	70	50	100	7	N	30	100	N	15
TZSB0008	2.0	N	N	30	100	50	100	10	N	30	100	N	10
TZSC0008	3.0	N	N	20	70	30	70	<5	N	30	100	N	10
TZSD0008	3.0	N	N	15	30	20	50	N	N	15	20	N	10
TZSE0008	3.0	N	N	10	50	20	50	N	N	20	30	N	10
TZSF0008	2.0	N	N	10	50	30	50	N	N	15	50	N	10
TZSA0009	2.0	N	N	20	30	30	70	N	N	20	70	N	10
TZSB0009	2.0	N	N	20	70	30	70	N	N	20	100	N	10
TZSC0009	2.0	N	N	30	70	30	100	N	N	30	70	N	10
TZSD0009	2.0	N	N	30	70	20	70	5	N	30	70	N	15
TZSE0009	2.0	N	N	20	70	20	70	7	N	30	70	N	10
TZSF0009	2.0	N	N	15	70	30	70	5	N	20	70	N	10
TZSA0010	2.0	N	N	20	50	30	70	7	N	30	70	N	15
TZSB0010	2.0	N	N	20	50	30	50	N	N	20	70	N	10
TZSC0010	2.0	N	N	20	50	20	70	N	N	30	70	N	10
TZSD0010	2.0	N	N	30	50	20	50	N	N	30	50	N	10
TZSE0010	3.0	N	N	15	50	20	30	N	N	20	50	N	10
TZSF0010	2.0	N	N	20	100	30	50	N	N	20	70	N	10
TZSA0011	3.0	N	N	20	30	20	50	N	N	20	50	N	10
TZSB0011	3.0	N	N	20	50	20	50	N	N	20	50	N	10
TZSC0011	3.0	N	N	20	50	20	50	N	N	20	50	N	10
TZSD0011	3.0	N	N	20	70	20	70	N	N	30	30	N	10
TZSE0011	3.0	N	N	20	50	20	50	N	N	20	30	N	10
TZSF0011	3.0	N	N	15	70	20	50	N	N	20	30	N	10
TZSA0013	1.5	N	N	10	150	20	20	N	N	30	30	N	10
TZSB0013	1.5	N	N	10	200	50	20	N	N	30	30	N	10
TZSC0013	1.5	N	N	10	150	30	30	N	N	30	30	N	10
TZSD0013	2.0	N	N	15	100	30	30	N	N	30	30	N	10
TZSE0013	1.5	N	N	10	100	30	30	N	N	30	30	N	10
TZSF0013	2.0	N	N	10	150	30	20	N	N	20	30	N	10
TZSA0014	<1.0	N	N	7	70	15	20	N	N	15	20	N	5
TZSB0014	1.0	N	N	10	70	15	20	N	N	15	20	N	5
TZSC0014	1.5	N	N	10	70	20	20	N	N	20	50	N	5
TZSD0014	1.0	N	N	15	70	50	20	N	N	20	100	N	5
TZSE0014	2.0	N	N	15	70	50	30	N	N	20	150	N	7
TZSF0014	2.0	N	N	15	70	50	30	N	N	20	100	N	7
TZSA0015	1.0	20	N	10	70	20	20	30	N	15	500	N	5
TZSB0015	1.0	20	N	15	100	20	20	50	N	15	300	N	5
TZSC0015	1.5	10	N	15	100	30	20	20	N	20	100	N	5
TZSD0015	1.5	20	N	10	70	30	20	5	N	20	200	N	5
TZSE0015	2.0	<10	N	15	50	30	20	50	N	20	70	N	5
TZSF0015	2.0	10	N	10	50	30	20	5	N	20	150	N	5

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
TZSA0008	N	700	150	N	30	N	200	N
TZSB0008	N	700	150	N	20	N	150	N
TZSC0008	N	700	150	N	20	N	150	N
TZSD0008	N	500	100	N	20	N	70	N
TZSE0008	N	500	100	N	20	N	100	N
TZSF0008	N	500	100	N	20	N	300	N
TZSA0009	N	500	100	N	20	N	150	N
TZSB0009	N	500	150	N	20	N	150	N
TZSC0009	N	500	200	N	20	N	150	N
TZSD0009	N	500	200	N	20	N	150	N
TZSE0009	N	500	150	N	20	N	500	N
TZSF0009	N	300	150	N	20	N	500	N
TZSA0010	N	500	150	N	20	N	200	N
TZSB0010	N	500	100	N	20	N	100	N
TZSC0010	N	500	150	N	20	N	150	N
TZSD0010	N	500	150	N	30	N	500	N
TZSE0010	N	500	100	N	20	N	100	N
TZSF0010	N	500	150	N	30	N	300	N
TZSA0011	N	500	150	N	20	N	100	N
TZSB0011	N	500	100	N	20	N	150	N
TZSC0011	N	500	150	N	20	N	100	N
TZSD0011	N	500	150	N	20	N	100	N
TZSE0011	N	500	100	N	20	N	200	N
TZSF0011	N	500	100	N	20	N	200	N
TZSA0013	N	1,000	70	N	20	N	50	N
TZSB0013	N	1,000	100	N	20	N	70	N
TZSC0013	N	1,000	70	N	20	N	50	N
TZSD0013	N	1,000	70	N	20	N	50	N
TZSE0013	N	700	100	N	20	N	50	N
TZSF0013	N	700	100	N	20	N	70	N
TZSA0014	N	1,000	50	N	10	N	30	N
TZSB0014	N	2,000	50	N	15	N	30	N
TZSC0014	N	1,500	50	N	15	N	50	N
TZSD0014	N	1,000	50	N	10	N	50	N
TZSE0014	N	1,000	70	N	20	N	70	N
TZSF0014	N	700	100	N	20	N	100	N
TZSA0015	N	2,000	70	70	15	N	30	N
TZSB0015	N	2,000	70	100	15	N	30	N
TZSC0015	N	1,500	70	100	15	N	20	N
TZSD0015	N	1,000	50	N	15	N	30	N
TZSE0015	N	1,000	70	70	15	N	30	N
TZSF0015	N	500	70	N	20	N	70	N

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZSA0016	38 10 39	117 43 3	3.0	1.0	3.0	.30	1,000	.5	N	N	50	1,000
TZSB0016	38 10 39	117 43 3	3.0	1.5	2.0	.30	1,000	.5	N	N	30	1,000
TZSC0016	38 10 39	117 43 3	3.0	1.5	3.0	.30	1,000	.5	N	N	50	1,000
TZSD0016	38 10 39	117 43 3	3.0	1.0	2.0	.30	1,000	.5	N	N	70	1,000
TZSE0016	38 10 39	117 43 3	2.0	1.0	2.0	.30	1,000	1.0	N	N	70	1,000
TZSF0016	38 10 39	117 43 3	1.5	.7	1.5	.30	500	.5	N	N	50	700
TZSA0017	38 10 53	117 42 25	2.0	.7	.5	.30	1,000	1.5	N	N	100	2,000
TZSB0017	38 10 53	117 42 25	2.0	.7	.5	.20	1,000	1.5	N	N	100	2,000
TZSC0017	38 10 53	117 42 25	2.0	.7	.7	.20	700	3.0	N	N	100	2,000
TZSD0017	38 10 53	117 42 25	2.0	1.0	1.0	.30	1,000	1.0	N	N	70	2,000
TZSE0017	38 10 53	117 42 25	2.0	.7	1.0	.30	1,000	1.0	N	N	100	1,500
TZSF0017	38 10 53	117 42 25	2.0	1.0	1.0	.30	700	1.0	N	N	100	1,000
TZSA0018	38 11 14	117 42 34	2.0	.7	.7	.20	1,000	.7	N	N	70	1,000
TZSB0018	38 11 14	117 42 34	2.0	.7	.7	.20	1,000	.7	N	N	100	1,000
TZSC0018	38 11 14	117 42 34	2.0	1.0	1.0	.30	1,000	.5	N	N	70	1,500
TZSD0018	38 11 14	117 42 34	3.0	1.0	1.5	.20	1,000	1.0	N	N	100	1,500
TZSE0018	38 11 14	117 42 34	3.0	1.0	1.5	.30	1,000	<.5	N	N	70	1,000
TZSF0018	38 11 14	117 42 34	3.0	1.0	1.5	.30	700	<.5	N	N	100	700
TZSA0019	38 11 40	117 43 9	7.0	1.0	3.0	.50	2,000	<.5	N	N	30	1,000
TZSB0019	38 11 40	117 43 9	7.0	1.0	3.0	.50	2,000	N	N	N	30	1,000
TZSC0019	38 11 40	117 43 9	7.0	1.5	3.0	.50	2,000	<.5	N	N	50	1,000
TZSD0019	38 11 40	117 43 9	7.0	1.0	2.0	.50	1,000	N	N	N	50	1,000
TZSE0019	38 11 40	117 43 9	5.0	1.0	2.0	.50	1,000	<.5	N	N	70	1,000
TZSF0019	38 11 40	117 43 9	5.0	1.0	2.0	.50	700	N	N	N	70	700
TZSA0021	38 11 52	117 42 32	5.0	1.0	3.0	.30	1,500	N	N	N	30	1,000
TZSB0021	38 11 52	117 42 32	7.0	1.0	3.0	.50	1,000	N	N	N	50	1,000
TZSC0021	38 11 52	117 42 32	5.0	1.0	3.0	.50	1,000	N	N	N	50	1,000
TZSD0021	38 11 52	117 42 32	7.0	1.5	2.0	.50	1,000	<.5	N	N	70	1,000
TZSE0021	38 11 52	117 42 32	7.0	1.0	2.0	.50	1,000	N	N	N	70	1,000
TZSF0021	38 11 52	117 42 32	5.0	1.0	2.0	.50	700	N	N	N	70	700
TZSA0035	38 23 44	117 53 33	3.0	2.0	20.0	.20	700	<.5	N	N	150	300
TZSB0035	38 23 44	117 53 33	2.0	2.0	20.0	.15	700	.5	N	N	150	300
TZSC0035	38 23 44	117 53 33	2.0	2.0	20.0	.10	700	<.5	N	N	100	300
TZSD0035	38 23 44	117 53 33	3.0	2.0	20.0	.15	1,000	<.5	N	N	100	300
TZSE0035	38 23 44	117 53 33	2.0	2.0	20.0	.20	1,000	<.5	N	N	150	500
TZSF0035	38 23 44	117 53 33	2.0	2.0	15.0	.20	700	.5	N	N	150	500
TZSA0036	38 23 31	117 53 0	3.0	2.0	20.0	.20	1,000	<.5	N	N	150	500
TZSB0036	38 23 31	117 53 0	3.0	2.0	>20.0	.15	700	<.5	N	N	150	300
TZSC0036	38 23 31	117 53 0	3.0	2.0	20.0	.15	1,000	<.5	N	N	150	500
TZSD0036	38 23 31	117 53 0	3.0	2.0	20.0	.20	700	<.5	N	N	100	500
TZSE0036	38 23 31	117 53 0	3.0	2.0	20.0	.30	1,000	.5	N	N	100	500
TZSF0036	38 23 31	117 53 0	3.0	3.0	15.0	.30	1,000	.5	N	N	200	700

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZSA0016	3.0	N	N	20	50	30	70	7	N	20	50	N	10
TZSB0016	2.0	N	N	20	70	30	50	7	N	20	30	N	10
TZSC0016	2.0	N	N	20	50	30	70	7	N	20	30	N	10
TZSD0016	3.0	N	N	20	100	30	100	7	N	30	30	N	10
TZSE0016	3.0	N	N	20	150	30	70	10	N	30	100	N	10
TZSF0016	3.0	N	N	10	150	20	70	5	N	15	50	N	10
TZSA0017	3.0	N	N	20	100	100	70	30	N	70	200	N	10
TZSB0017	2.0	N	N	20	100	100	70	30	N	70	200	N	10
TZSC0017	2.0	N	N	20	70	70	50	30	<20	50	200	N	7
TZSD0017	2.0	N	N	20	150	70	100	20	<20	30	200	N	10
TZSE0017	3.0	N	N	20	100	50	70	10	<20	30	70	N	10
TZSF0017	3.0	N	N	15	70	50	50	7	<20	30	70	N	10
TZSA0018	2.0	N	N	20	50	70	70	20	N	30	100	N	10
TZSB0018	3.0	N	N	20	50	70	70	20	N	30	70	N	10
TZSC0018	2.0	N	N	20	50	50	50	20	20	30	150	N	10
TZSD0018	3.0	N	N	20	70	50	50	10	<20	20	50	N	10
TZSE0018	3.0	N	N	20	70	30	50	10	N	20	70	N	10
TZSF0018	3.0	N	N	20	100	50	50	<5	<20	30	70	N	10
TZSA0019	1.5	N	N	30	70	30	70	5	<20	20	30	N	15
TZSB0019	1.5	N	N	30	70	30	70	5	<20	20	30	N	10
TZSC0019	2.0	N	N	30	70	30	70	5	<20	20	50	N	15
TZSD0019	2.0	N	N	30	100	30	70	5	<20	20	30	N	10
TZSE0019	2.0	N	N	30	100	30	50	5	<20	20	50	N	10
TZSF0019	2.0	N	N	20	70	30	70	5	<20	20	30	N	10
TZSA0021	1.5	N	N	20	50	20	50	5	N	15	20	N	10
TZSB0021	1.5	N	N	30	70	30	50	7	N	20	30	N	10
TZSC0021	2.0	N	N	30	70	30	50	5	N	20	30	N	10
TZSD0021	2.0	N	N	20	100	50	50	5	N	20	50	N	15
TZSE0021	2.0	N	N	30	100	30	50	5	N	20	30	N	10
TZSF0021	2.0	N	N	15	100	30	70	5	N	20	50	N	10
TZSA0035	1.0	N	N	15	150	50	30	N	N	50	50	N	7
TZSB0035	1.5	N	N	15	100	30	30	N	N	30	30	N	7
TZSC0035	1.0	N	N	10	100	30	30	N	N	30	20	N	5
TZSD0035	1.5	N	N	15	150	30	30	N	N	30	30	N	7
TZSE0035	1.5	N	N	15	200	30	50	N	N	50	50	N	7
TZSF0035	2.0	N	N	15	100	30	30	N	N	30	70	N	7
TZSA0036	1.5	N	N	15	150	50	20	N	N	30	20	N	10
TZSB0036	1.5	N	N	10	100	30	30	N	N	30	30	N	10
TZSC0036	1.5	N	N	15	100	30	20	N	N	30	50	N	7
TZSD0036	1.5	N	N	15	100	30	50	N	N	30	50	N	7
TZSE0036	1.5	N	N	15	100	50	30	N	N	30	50	N	10
TZSF0036	2.0	N	N	15	100	50	20	N	N	30	70	N	10

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
TZSA0016	N	500	150	N	20	N	150	N
TZSB0016	N	500	150	N	20	N	100	N
TZSC0016	N	700	200	N	20	N	100	N
TZSD0016	N	700	200	N	20	N	100	N
TZSE0016	N	500	200	N	30	N	150	N
TZSF0016	N	500	100	N	20	N	200	N
TZSA0017	N	150	150	N	20	N	150	N
TZSB0017	N	150	100	N	20	N	200	N
TZSC0017	N	200	100	N	15	N	150	N
TZSD0017	N	500	100	N	20	N	100	N
TZSE0017	N	500	150	N	20	N	150	N
TZSF0017	N	300	100	N	20	N	500	N
TZSA0018	N	200	100	N	20	N	150	N
TZSB0018	N	200	100	N	20	N	150	N
TZSC0018	N	300	100	N	20	N	200	N
TZSD0018	N	500	150	N	20	N	100	N
TZSE0018	N	500	150	N	20	N	300	N
TZSF0018	N	500	200	N	20	N	700	N
TZSA0019	N	500	200	N	30	N	150	N
TZSB0019	N	500	200	N	30	N	150	N
TZSC0019	N	700	200	N	30	N	150	N
TZSD0019	N	500	200	N	20	N	100	N
TZSE0019	N	500	150	N	20	N	150	N
TZSF0019	N	500	150	N	30	N	300	N
TZSA0021	N	500	150	N	20	N	100	N
TZSB0021	N	500	200	N	20	N	100	N
TZSC0021	N	500	200	N	20	N	100	N
TZSD0021	N	500	200	N	20	N	100	N
TZSE0021	N	500	200	N	20	N	100	N
TZSF0021	N	500	150	N	20	N	300	N
TZSA0035	N	1,000	70	N	20	N	50	N
TZSB0035	N	1,000	70	N	15	N	50	N
TZSC0035	N	1,000	70	N	10	N	20	N
TZSD0035	N	1,000	70	N	15	N	50	N
TZSE0035	N	1,000	100	N	15	N	50	N
TZSF0035	N	700	100	N	20	N	150	N
TZSA0036	N	1,000	70	N	15	500	50	N
TZSB0036	N	1,000	70	N	15	500	30	N
TZSC0036	N	1,000	70	N	15	500	50	N
TZSD0036	N	1,000	70	N	20	N	50	N
TZSE0036	N	1,000	100	N	20	N	50	N
TZSF0036	N	1,000	100	N	20	N	300	N

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZSA0038	38 23 37	117 52 10	3.0	1.5	20.0	.30	700	<.5	N	N	70	700
TZSB0038	38 23 37	117 52 10	3.0	2.0	>20.0	.30	1,000	.5	N	N	100	700
TZSC0038	38 23 37	117 52 10	2.0	2.0	20.0	.30	1,000	<.5	N	N	100	700
TZSD0038	38 23 37	117 52 10	5.0	2.0	15.0	.30	1,000	N	N	N	100	700
TZSE0038	38 23 37	117 52 10	5.0	2.0	10.0	.30	1,000	N	N	N	70	700
TZSF0038	38 23 37	117 52 10	5.0	1.5	7.0	.30	1,000	N	N	N	100	700
TZSA0039	38 23 31	117 52 39	3.0	2.0	>20.0	.10	700	<.5	N	N	70	200
TZSB0039	38 23 31	117 52 39	3.0	2.0	>20.0	.10	700	.5	N	N	70	200
TZSC0039	38 23 31	117 52 39	2.0	2.0	>20.0	.15	1,000	<.5	N	N	70	300
TZSD0039	38 23 31	117 52 39	3.0	2.0	>20.0	.15	1,000	.5	N	N	100	300
TZSE0039	38 23 31	117 52 39	2.0	2.0	20.0	.15	1,000	<.5	N	N	70	300
TZSF0039	38 23 31	117 52 39	3.0	2.0	15.0	.20	1,000	.7	N	N	100	500
TZSA0040	38 23 21	117 53 5	2.0	5.0	>20.0	.15	700	N	N	N	50	300
TZSB0040	38 23 21	117 53 5	3.0	5.0	>20.0	.15	700	N	N	N	70	300
TZSC0040	38 23 21	117 53 5	3.0	7.0	>20.0	.15	700	3.0	N	N	70	300
TZSD0040	38 23 21	117 53 5	3.0	5.0	20.0	.15	700	<.5	N	N	70	500
TZSE0040	38 23 21	117 53 5	3.0	5.0	20.0	.15	1,000	.5	N	N	100	700
TZSF0040	38 23 21	117 53 5	2.0	5.0	15.0	.15	700	15.0	N	N	100	500
TZSA0041	38 23 16	117 52 42	2.0	5.0	>20.0	.10	1,000	.5	N	N	70	200
TZSB0041	38 23 16	117 52 42	2.0	5.0	>20.0	.10	700	<.5	N	N	50	200
TZSC0041	38 23 16	117 52 42	2.0	5.0	>20.0	.10	700	<.5	N	N	50	200
TZSD0041	38 23 16	117 52 42	3.0	5.0	>20.0	.15	1,000	.5	N	N	100	300
TZSE0041	38 23 16	117 52 42	2.0	5.0	20.0	.15	700	2.0	N	N	100	300
TZSF0041	38 23 16	117 52 42	1.0	1.5	15.0	.10	500	<.5	N	N	100	300
TZSA0042	38 23 9	117 53 15	5.0	.5	3.0	.30	1,000	1.0	N	N	50	1,000
TZSB0042	38 23 9	117 53 15	5.0	.5	2.0	.30	1,000	.7	N	N	50	1,000
TZSC0042	38 23 9	117 53 15	7.0	.7	2.0	.30	1,000	1.0	N	N	70	700
TZSD0042	38 23 9	117 53 15	5.0	1.0	3.0	.30	1,000	1.0	N	N	100	700
TZSE0042	38 23 9	117 53 15	5.0	1.0	3.0	.30	1,000	1.5	N	N	70	700
TZSF0042	38 23 9	117 53 15	2.0	.7	1.5	.20	500	.5	N	N	50	300
TZSA0043	38 23 8	117 53 0	2.0	1.5	20.0	.20	1,000	2.0	N	N	70	1,000
TZSB0043	38 23 8	117 53 0	3.0	1.5	20.0	.20	1,000	2.0	N	N	100	700
TZSC0043	38 23 8	117 53 0	3.0	1.5	20.0	.20	1,500	5.0	N	N	100	700
TZSD0043	38 23 8	117 53 0	3.0	2.0	20.0	.30	2,000	3.0	N	N	100	700
TZSE0043	38 23 8	117 53 0	2.0	1.5	15.0	.20	1,000	3.0	N	N	70	500
TZSF0043	38 23 8	117 53 0	3.0	2.0	20.0	.30	1,500	3.0	N	N	100	700
TZSA0045	38 23 7	117 52 18	2.0	2.0	>20.0	.15	1,000	1.0	N	N	70	500
TZSB0045	38 23 7	117 52 18	3.0	2.0	>20.0	.20	1,000	1.0	N	N	50	500
TZSC0045	38 23 7	117 52 18	3.0	3.0	20.0	.20	1,000	2.0	N	N	70	300
TZSD0045	38 23 7	117 52 18	3.0	3.0	>20.0	.20	1,000	.7	N	N	70	700
TZSE0045	38 23 7	117 52 18	3.0	3.0	20.0	.20	1,000	1.5	N	N	150	700
TZSF0045	38 23 7	117 52 18	3.0	3.0	15.0	.30	1,000	1.5	N	N	100	500

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZSA0038	1.0	N	N	15	100	20	30	N	N	15	20	N	10
TZSB0038	1.5	N	N	15	100	20	20	N	N	30	30	N	10
TZSC0038	2.0	N	N	15	100	20	70	N	N	20	20	N	10
TZSD0038	1.5	N	N	15	200	30	50	N	N	30	20	N	10
TZSE0038	2.0	N	N	20	70	50	30	N	N	20	200	N	10
TZSF0038	2.0	N	N	15	150	30	50	N	N	30	30	N	10
TZSA0039	1.0	N	N	10	70	20	20	N	N	20	50	N	7
TZSB0039	1.0	N	N	10	100	15	20	N	N	15	20	N	7
TZSC0039	1.5	N	N	10	70	20	30	N	N	15	70	N	7
TZSD0039	1.5	N	N	10	100	30	50	N	N	20	70	N	7
TZSE0039	1.5	N	N	10	70	30	30	N	N	15	70	N	7
TZSF0039	2.0	N	N	10	70	30	50	N	N	20	70	N	10
TZSA0040	<1.0	10	N	10	70	20	20	N	N	15	50	N	7
TZSB0040	1.0	N	N	20	100	20	20	N	N	15	30	N	7
TZSC0040	1.0	<10	N	15	100	30	20	5	N	20	150	N	7
TZSD0040	1.5	N	N	15	100	20	30	30	N	15	50	N	7
TZSE0040	1.5	N	N	15	70	30	30	N	N	30	70	N	10
TZSF0040	2.0	N	N	10	70	30	30	N	N	20	70	N	10
TZSA0041	<1.0	<10	N	15	70	30	20	N	N	15	70	N	7
TZSB0041	<1.0	15	N	10	70	30	20	N	N	15	50	N	5
TZSC0041	<1.0	20	N	10	70	20	30	N	N	15	50	N	5
TZSD0041	1.0	<10	N	10	70	30	50	N	N	20	70	N	7
TZSE0041	1.0	<10	N	10	70	50	30	10	N	20	500	N	7
TZSF0041	2.0	N	N	10	70	20	20	N	N	10	30	N	7
TZSA0042	5.0	15	N	10	10	100	70	30	N	5	70	N	5
TZSB0042	3.0	15	N	15	10	100	70	30	N	5	70	N	5
TZSC0042	3.0	15	N	15	15	100	70	50	N	7	70	N	7
TZSD0042	5.0	50	N	15	20	100	70	30	N	7	70	N	10
TZSE0042	3.0	10	N	15	30	100	70	30	N	10	100	N	10
TZSF0042	3.0	N	N	7	50	70	50	5	N	5	30	N	7
TZSA0043	2.0	10	N	7	20	50	50	50	N	7	300	N	5
TZSB0043	2.0	20	N	10	20	70	50	20	N	10	150	N	5
TZSC0043	2.0	20	N	15	30	70	50	50	N	10	1,000	N	7
TZSD0043	3.0	20	N	15	50	100	70	30	N	15	200	N	10
TZSE0043	3.0	20	N	10	30	70	50	7	N	10	100	N	10
TZSF0043	3.0	20	N	15	50	100	70	10	N	15	200	N	10
TZSA0045	1.0	15	N	10	50	70	20	5	N	10	300	N	7
TZSB0045	1.5	10	N	10	50	70	30	7	N	15	70	N	7
TZSC0045	2.0	20	N	15	50	70	30	15	N	15	150	N	7
TZSD0045	1.5	10	N	15	50	70	30	15	N	15	70	N	10
TZSE0045	2.0	10	N	10	50	70	30	7	N	20	150	N	10
TZSF0045	2.0	<10	N	15	50	70	30	20	N	20	100	N	10

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
TZSA0038	N	1,000	70	N	20	N	50	N
TZSB0038	N	1,500	100	N	20	N	50	N
TZSC0038	N	1,500	150	N	20	N	70	N
TZSD0038	N	1,000	150	N	15	<200	70	N
TZSE0038	N	700	150	N	20	300	100	N
TZSF0038	N	700	150	N	20	200	150	N
TZSA0039	N	1,500	50	N	20	<200	30	N
TZSB0039	N	1,000	70	N	15	200	50	N
TZSC0039	N	1,000	50	N	15	300	30	N
TZSD0039	N	1,000	70	N	15	700	50	N
TZSE0039	N	700	70	N	15	700	70	N
TZSF0039	N	1,000	70	N	20	500	100	N
TZSA0040	N	2,000	70	N	10	N	30	N
TZSB0040	N	2,000	70	N	10	N	30	N
TZSC0040	N	1,500	70	N	10	N	50	N
TZSD0040	N	1,000	70	150	15	N	50	N
TZSE0040	N	700	100	N	20	N	70	N
TZSF0040	N	500	100	N	15	N	70	N
TZSA0041	N	1,500	70	N	10	N	20	N
TZSB0041	N	1,000	70	N	15	N	30	N
TZSC0041	N	1,000	70	N	10	N	30	N
TZSD0041	N	1,000	70	N	10	N	50	N
TZSE0041	N	1,000	70	N	10	N	30	N
TZSF0041	N	500	70	N	10	N	50	N
TZSA0042	N	700	100	200	15	300	100	N
TZSB0042	N	700	100	150	10	300	70	N
TZSC0042	N	700	150	200	20	300	100	N
TZSD0042	N	700	150	150	20	300	200	N
TZSE0042	N	700	150	50	20	300	100	N
TZSF0042	N	200	70	N	15	N	150	N
TZSA0043	N	1,000	50	50	15	300	50	N
TZSB0043	N	1,000	70	100	15	500	50	N
TZSC0043	N	700	70	150	15	500	70	N
TZSD0043	N	1,000	100	70	20	700	70	N
TZSE0043	N	700	70	N	20	300	70	N
TZSF0043	N	700	100	N	20	500	100	N
TZSA0045	N	1,500	70	N	15	N	30	N
TZSB0045	N	1,500	70	N	20	N	50	N
TZSC0045	N	1,000	70	200	15	N	50	N
TZSD0045	N	1,000	70	50	20	N	30	N
TZSE0045	N	1,000	100	<50	20	N	100	N
TZSF0045	N	700	100	100	20	N	100	N

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZSA0053	38 9 13	117 41 35	5.0	1.0	2.0	.50	1,500	N	N	N	30	1,500
TZSB0053	38 9 13	117 41 35	7.0	1.0	1.5	.50	1,500	N	N	N	50	1,500
TZSC0053	38 9 13	117 41 35	5.0	.7	1.0	.50	1,000	N	N	N	30	1,000
TZSD0053	38 9 13	117 41 35	2.0	.5	1.0	.30	700	N	N	N	30	700
TZSE0053	38 9 13	117 41 35	3.0	.7	1.0	.50	700	N	N	N	30	700
TZSF0053	38 9 13	117 41 35	2.0	.7	1.0	.30	500	N	N	N	50	700

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZSA0053	2.0	N	N	20	70	20	70	5	N	20	30	N	15
TZSB0053	2.0	N	N	30	100	30	50	7	N	30	30	N	10
TZSC0053	2.0	N	N	20	100	20	50	5	N	15	20	N	7
TZSD0053	1.5	N	N	15	70	15	50	5	N	10	20	N	7
TZSE0053	2.0	N	N	15	70	15	50	5	N	10	20	N	7
TZSF0053	2.0	N	N	10	70	15	50	5	N	10	30	N	7

Table 4. Spectrographic analyses of six size fractions of stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
TZSA0053	N	500	200	N	20	N	200	N
TZSB0053	N	500	300	N	20	N	150	N
TZSC0053	N	300	200	N	15	N	200	N
TZSD0053	N	300	150	N	15	N	100	N
TZSE0053	N	300	150	N	15	N	100	N
TZSF0053	N	200	100	N	20	N	200	N

Table 5. Spectrographic analyses of rock samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada
(N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.)

Sample	Latitude	Longtude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZR00035	38 23 44	117 53 33	7.0	5.00	7.00	.50	1,000	N	N	N	10	1,000
TZR00040	38 23 21	117 53 5	3.0	7.00	20.00	.20	700	N	N	N	150	1,000
TZR00042	38 23 9	117 53 15	2.0	.70	2.00	.30	700	1.0	N	N	30	2,000
TZR00046	38 22 57	117 52 58	.7	3.00	>20.00	.07	300	<.5	N	N	50	300
TZR00047	38 22 47	117 52 57	5.0	2.00	2.00	.20	1,500	N	N	N	200	2,000
TZR00048	38 22 11	117 53 3	5.0	.10	.10	.20	200	N	<200	N	300	1,000
TZR00049	38 9 28	117 41 18	3.0	.20	.50	.15	500	N	N	N	30	700
TZR00050	38 10 0	117 41 57	1.5	.30	.70	.10	700	N	N	N	50	200
TZR00051	38 12 16	117 37 39	15.0	.70	1.00	.20	500	N	N	N	300	500
TZR00052	38 8 50	117 42 33	10.0	.15	.50	.05	300	10.0	1,000	N	30	500
TZR00053	38 9 13	117 41 35	1.0	.03	.10	.02	30	2.0	<200	N	10	500
TZR00063	38 7 51	117 41 5	2.0	.07	.15	.15	150	5.0	200	N	15	2,000
TZR00069	38 22 15	117 52 53	3.0	.10	.10	.20	50	<.5	<200	N	150	5,000
TZR00070	38 11 12	117 40 2	5.0	5.00	20.00	.15	2,000	N	N	N	10	700
TZR00071	38 11 22	117 40 2	3.0	.50	1.50	.30	300	N	N	N	50	1,000
TZR00079	38 5 31	117 44 13	1.5	.10	.05	.07	15	1.0	500	N	50	500
TZR00082	38 5 5	117 43 34	5.0	1.50	3.00	.50	700	.5	N	N	50	1,500
TZR00084	38 6 27	117 43 35	3.0	.70	.05	.30	200	.5	N	N	200	700
TZR00086	38 6 52	117 47 4	2.0	.15	.15	.15	30	1.0	N	N	100	500
TZR00089	38 7 47	117 43 1	10.0	.30	.50	.20	300	2.0	500	N	70	1,000
TZR00090	38 8 8	117 43 19	5.0	.50	.30	.30	200	3.0	300	N	50	1,500
TZR00091	38 7 29	117 44 10	1.5	.70	1.50	.20	700	N	N	N	50	200
TZR00092	38 5 8	117 44 45	3.0	.20	.07	.10	100	100.0	1,000	N	50	500
TZR00093	38 7 8	117 47 30	2.0	.15	.10	.15	50	<.5	N	N	100	1,000
TZR00094	38 7 31	117 47 55	7.0	.50	.30	.15	100	20.0	<200	N	150	1,000
TZR00100	38 8 8	117 47 28	5.0	.07	.07	.10	50	<.5	500	N	50	500
TZR00103	38 8 44	117 47 23	10.0	1.50	2.00	.10	2,000	10.0	2,000	N	200	150
TZR00106	38 8 26	117 49 55	5.0	2.00	2.00	.50	1,000	N	N	N	50	1,500
TZR00107	38 9 45	117 48 7	5.0	2.00	7.00	.07	1,000	N	500	N	150	1,000
TZR00112	38 25 23	117 54 38	2.0	.30	1.00	.20	500	N	N	N	50	1,500
TZR00122	38 20 13	117 52 22	5.0	3.00	10.00	.10	1,000	N	N	N	200	150
TZR00130	38 23 14	117 56 10	7.0	1.00	.70	.30	1,000	2.0	200	N	200	500
TZR00131	38 23 34	117 55 20	5.0	.70	>20.00	.05	1,000	.5	<200	N	20	700
TZR00132	38 23 30	117 56 3	3.0	1.00	.07	.30	300	.5	N	N	150	1,500
TZR00138	38 22 43	117 56 16	2.0	5.00	10.00	.07	1,500	15.0	N	N	150	5,000
TZR00139	38 22 7	117 56 56	3.0	3.00	15.00	.10	1,500	.7	N	N	150	700
TZR00140	38 22 7	117 56 45	1.0	2.00	20.00	.05	700	N	N	N	30	200
TZR00142	38 22 47	117 56 38	3.0	.30	.20	.20	100	1.0	200	N	50	1,000
TZR00143	38 22 47	117 56 38	5.0	.70	.10	.30	200	<.5	N	N	200	1,000
TZR00144	38 22 52	117 55 38	2.0	.20	.20	.10	150	3.0	<200	N	70	2,000
TZR00145	38 21 39	117 54 48	.7	.10	.15	.20	20	N	N	N	100	200
TZR00151	38 26 39	117 56 56	1.0	.70	>20.00	.05	500	N	N	N	<10	20
TZR00153	38 26 36	117 58 29	5.0	1.50	5.00	.30	700	N	N	N	30	1,000
TZR00155	38 21 13	117 55 25	3.0	.10	.10	.20	700	N	N	N	100	2,000
TZR00156	38 21 5	117 55 22	.7	.05	.10	.20	100	<.5	N	N	100	700

Table 5. Spectrographic analyses of rock samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZR00035	1.5	N	N	50	500	100	20	5	N	100	20	N	20
TZR00040	1.0	N	N	15	70	30	30	N	N	20	20	N	7
TZR00042	3.0	N	N	7	<10	100	30	10	N	5	30	N	5
TZR00046	N	N	N	5	30	15	<20	N	N	5	15	N	5
TZR00047	1.0	N	N	15	100	30	<20	N	N	30	20	N	10
TZR00048	1.0	N	N	10	150	200	20	5	N	20	N	N	10
TZR00049	5.0	N	N	7	<10	10	50	N	N	<5	50	N	7
TZR00050	7.0	N	N	7	10	7	50	N	20	5	50	N	5
TZR00051	2.0	N	N	20	30	20	20	10	N	30	N	N	7
TZR00052	5.0	N	N	10	50	500	20	20	N	50	150	200	5
TZR00053	N	N	N	N	30	15	<20	N	N	5	<10	100	<5
TZR00063	5.0	N	N	7	20	150	<20	N	N	10	<10	<100	5
TZR00069	1.0	N	N	10	150	5,000	30	15	N	10	N	N	10
TZR00070	1.5	N	N	15	50	30	30	N	N	20	30	N	10
TZR00071	3.0	N	N	15	100	50	70	5	N	15	20	N	10
TZR00079	N	N	N	N	20	100	<20	N	N	5	N	100	5
TZR00082	2.0	N	N	20	100	200	100	N	<20	50	50	N	15
TZR00084	1.5	N	N	15	150	100	50	N	<20	50	10	N	10
TZR00086	1.0	N	N	7	30	150	<20	N	N	30	<10	N	7
TZR00089	2.0	N	N	10	30	50	50	20	N	10	50	<100	7
TZR00090	2.0	N	N	15	70	50	70	5	<20	20	20	N	7
TZR00091	3.0	N	N	7	30	70	50	N	20	10	150	N	5
TZR00092	2.0	N	N	10	15	70	50	300	N	10	70	1,000	5
TZR00093	<1.0	N	N	5	30	100	<20	15	N	15	<10	N	7
TZR00094	1.5	N	N	N	100	200	20	50	N	20	30	N	10
TZR00100	N	N	N	N	15	15	<20	5	N	5	15	<100	5
TZR00103	7.0	N	N	500	150	>20,000	200	20	N	1,000	70	3,000	5
TZR00106	3.0	N	N	20	50	70	70	<5	<20	30	30	N	10
TZR00107	3.0	N	N	20	700	50	20	7	N	300	20	N	7
TZR00112	2.0	N	N	5	<10	<5	50	N	<20	<5	30	N	5
TZR00122	<1.0	N	N	10	100	70	<20	N	N	15	10	N	7
TZR00130	1.5	N	N	15	200	150	50	N	N	100	700	N	15
TZR00131	N	N	N	15	50	20	N	N	N	20	20	<100	5
TZR00132	2.0	N	N	20	100	100	50	N	<20	50	10	N	10
TZR00138	N	N	20	5	30	30	<20	N	N	10	500	300	7
TZR00139	1.0	N	20	10	50	100	30	N	N	20	300	>10,000	7
TZR00140	N	N	N	10	30	30	N	20	N	20	200	3,000	5
TZR00142	3.0	N	N	N	<10	20	70	5	<20	<5	50	N	5
TZR00143	2.0	N	N	15	150	100	50	N	N	50	15	N	15
TZR00144	N	N	50	5	20	150	N	10	N	7	1,500	1,500	5
TZR00145	<1.0	N	N	7	100	200	50	N	N	5	N	N	5
TZR00151	N	N	N	N	20	10	N	N	N	5	20	N	<5
TZR00153	1.5	N	N	15	70	20	30	N	N	15	20	N	15
TZR00155	3.0	N	N	30	150	10,000	20	N	N	50	N	N	30
TZR00156	<1.0	N	50	N	70	200	20	N	N	7	N	N	15

Table 5. Spectrographic analyses of rock samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
TZR00035	N	1,000	200	N	20	N	100	N
TZR00040	N	1,000	70	N	20	N	70	N
TZR00042	N	1,000	70	200	10	<200	150	N
TZR00046	N	2,000	50	N	10	N	20	N
TZR00047	N	500	150	N	20	N	150	N
TZR00048	N	700	150	N	30	N	100	N
TZR00049	N	200	50	N	20	N	300	N
TZR00050	N	100	150	N	20	N	300	N
TZR00051	N	200	200	N	20	<200	70	N
TZR00052	N	100	200	N	50	700	30	N
TZR00053	N	<100	30	N	<10	N	10	N
TZR00063	N	300	100	N	10	N	70	N
TZR00069	N	700	200	N	30	N	100	N
TZR00070	N	500	70	N	20	N	50	N
TZR00071	N	700	150	N	20	N	200	N
TZR00079	N	<100	200	N	15	N	20	N
TZR00082	N	1,000	150	N	20	N	200	N
TZR00084	N	100	150	N	30	N	300	N
TZR00086	N	100	300	N	15	N	50	N
TZR00089	N	200	100	N	15	N	100	N
TZR00090	N	500	200	N	15	N	200	N
TZR00091	N	300	30	N	30	N	100	N
TZR00092	N	200	200	N	20	N	100	N
TZR00093	N	<100	300	N	10	N	30	N
TZR00094	N	200	300	N	20	N	50	N
TZR00100	N	<100	50	N	15	N	50	N
TZR00103	300	100	100	N	200	1,000	50	N
TZR00106	N	700	150	N	20	N	200	N
TZR00107	N	200	70	N	20	N	50	N
TZR00112	N	500	30	N	15	N	150	N
TZR00122	N	100	100	N	15	N	50	N
TZR00130	N	200	150	N	20	N	200	N
TZR00131	N	500	70	N	15	N	20	N
TZR00132	N	100	150	N	30	N	200	N
TZR00138	N	300	50	N	10	700	15	N
TZR00139	N	300	70	N	20	1,000	100	N
TZR00140	N	200	50	N	15	1,000	30	N
TZR00142	N	500	70	N	15	N	200	N
TZR00143	N	100	150	N	20	N	300	N
TZR00144	N	200	50	N	<10	5,000	50	N
TZR00145	N	300	70	N	20	N	200	N
TZR00151	N	2,000	30	N	<10	N	10	N
TZR00153	N	700	100	N	20	N	150	N
TZR00155	N	200	200	N	20	N	50	N
TZR00156	N	100	200	N	20	N	100	N

Table 5. Spectrographic analyses of rock samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Latitude	Longtude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZR00157	38 19 13	117 58 4	5.0	1.00	20.00	.10	>5,000	30.0	N	N	10	300
TZR00160	38 20 36	117 58 22	2.0	.20	.20	.20	150	.5	N	N	150	300
TZR00167	38 17 35	117 58 12	5.0	.10	.20	.20	100	.5	500	N	150	700
TZR00169	38 20 58	117 55 58	1.0	.15	.30	.20	100	N	N	N	200	1,500
TZR00173	38 8 16	117 47 45	1.0	.15	1.00	.10	700	1.5	300	N	30	>5,000

Table 5. Spectrographic analyses of rock samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZR00157	<1.0	N	30	10	10	150	20	5	N	5	2,000	N	5
TZR00160	1.0	<10	N	5	100	1,000	30	N	N	15	20	N	10
TZR00167	2.0	N	N	7	100	150	20	7	N	30	10	<100	10
TZR00169	N	N	N	10	70	10	50	N	N	7	10	N	5
TZR00173	N	N	N	7	10	20	20	N	N	7	N	700	<5

Table 5. Spectrographic analyses of rock samples from the southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
TZR00157	N	200	150	N	30	1,000	15	N
TZR00160	N	150	100	N	20	N	100	N
TZR00167	N	100	300	N	50	N	300	N
TZR00169	N	150	50	N	20	N	200	N
TZR00173	N	200	30	N	10	N	70	N

Table 6. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral separates from stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada
(N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.)

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZC00001	38 9 38	117 42 15	1.00	.20	.7	.20	150	N	N	N	<20	>10,000
TZC00002	38 8 56	117 41 38	.70	.20	1.0	.15	150	N	N	N	<20	1,000
TZC00003	38 10 5	117 42 46	1.00	.50	2.0	1.00	200	N	N	N	20	>10,000
TZC00004	38 10 24	117 42 30	1.50	1.00	5.0	1.50	500	N	N	N	30	5,000
TZC00005	38 10 14	117 41 56	1.50	.70	10.0	2.00	700	N	500	N	100	3,000
TZC00006	38 9 57	117 41 9	1.50	.70	7.0	1.00	500	20	1,000	N	30	3,000
TZC00007	38 9 55	117 40 47	3.00	.50	3.0	.70	700	700	5,000	N	70	2,000
TZC00008	38 10 34	117 41 4	2.00	1.00	7.0	1.00	700	7	N	N	30	1,000
TZC00009	38 10 58	117 41 44	1.50	.50	5.0	1.50	300	N	N	N	30	1,000
TZC00010	38 11 11	117 42 8	1.50	.70	7.0	2.00	500	N	N	N	50	5,000
TZC00011	38 11 23	117 42 29	1.50	.70	7.0	1.50	500	N	N	N	50	2,000
TZC00012	38 23 15	117 53 13	1.00	5.00	15.0	1.50	1,000	20	N	N	30	200
TZC00013	38 23 24	117 53 50	2.00	5.00	10.0	.50	500	N	N	N	300	2,000
TZC00014	38 23 20	117 53 34	1.50	5.00	7.0	.15	500	7	N	N	100	150
TZC00015	38 23 24	117 53 9	2.00	7.00	10.0	.15	1,000	10	N	N	70	300
TZC00016	38 10 39	117 43 3	1.50	.70	5.0	.70	500	5	N	N	30	3,000
TZC00017	38 10 53	117 42 25	.70	.20	.5	>2.00	100	N	<500	N	20	>10,000
TZC00018	38 11 14	117 42 34	1.00	.20	1.5	>2.00	200	N	<500	N	<20	>10,000
TZC00019	38 11 40	117 43 9	1.00	.50	2.0	1.00	200	N	N	N	20	3,000
TZC00020	38 11 40	117 43 9	1.00	1.00	10.0	>2.00	700	N	N	N	70	>10,000
TZC00021	38 11 52	117 42 32	1.50	.70	5.0	2.00	300	N	N	N	50	3,000
TZC00022	38 11 31	117 41 12	5.00	3.00	10.0	>2.00	2,000	N	1,000	N	100	1,500
TZC00023	38 11 34	117 40 42	1.00	.70	10.0	2.00	500	N	N	N	70	1,000
TZC00024	38 12 6	117 40 19	1.00	.50	10.0	2.00	700	N	N	N	50	>10,000
TZC00025	38 12 9	117 39 51	1.50	1.00	10.0	2.00	700	N	N	N	70	1,000
TZC00026	38 12 25	117 37 48	1.50	1.50	15.0	2.00	700	N	N	N	50	3,000
TZC00027	38 9 41	117 42 39	.30	.20	2.0	.50	200	N	N	N	<20	>10,000
TZC00028	38 9 9	117 42 41	1.00	1.00	15.0	>2.00	1,000	N	N	N	150	>10,000
TZC00029	38 8 49	117 42 41	.20	.05	.2	.20	200	70	N	N	<20	>10,000
TZC00030	38 8 40	117 42 48	.20	.15	3.0	.30	300	N	N	N	20	>10,000
TZC00031	38 8 34	117 43 6	.50	1.00	7.0	1.00	300	N	N	N	100	1,500
TZC00032	38 7 59	117 42 31	1.50	1.00	10.0	2.00	1,000	N	N	N	50	5,000
TZC00033	38 6 57	117 42 42	.50	.20	3.0	.20	500	N	N	N	30	>10,000
TZC00034	38 6 32	117 42 44	1.00	1.00	10.0	2.00	1,000	N	N	N	50	>10,000
TZC00035	38 23 44	117 53 33	1.50	3.00	7.0	.50	300	N	1,000	N	200	300
TZC00036	38 23 31	117 53 0	1.00	5.00	10.0	.20	500	2	N	N	100	100
TZC00037	38 23 31	117 53 0	1.50	7.00	15.0	.70	1,000	15	N	N	300	700
TZC00038	38 23 37	117 52 10	2.00	5.00	10.0	.30	700	3	N	N	150	10,000
TZC00039	38 23 31	117 52 39	3.00	3.00	10.0	.20	1,000	<1	N	N	150	100
TZC00040	38 23 21	117 53 5	1.50	7.00	10.0	.30	700	15	N	N	100	100
TZC00041	38 23 16	117 52 42	7.00	5.00	10.0	.20	1,000	2	N	N	100	<50
TZC00042	38 23 9	117 53 15	.50	.30	7.0	>2.00	300	N	N	N	<20	<50
TZC00043	38 23 8	117 53 0	7.00	2.00	15.0	.50	3,000	10	N	N	30	200
TZC00044	38 23 8	117 53 0	1.50	3.00	15.0	1.00	1,000	100	N	N	100	3,000
TZC00045	38 23 17	117 52 18	5.00	3.00	10.0	.70	1,500	10	N	N	50	<50

Table 6. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral separates from stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZC00001	N	N	N	N	<20	N	70	N	N	N	N	N	N
TZC00002	N	N	N	N	<20	N	50	N	N	N	N	N	N
TZC00003	2	N	N	10	50	N	150	N	50	N	70	N	10
TZC00004	<2	N	N	15	100	30	300	100	70	N	1,500	<200	10
TZC00005	<2	N	N	20	100	<10	500	150	70	N	2,000	<200	20
TZC00006	N	30	N	10	70	70	150	200	70	N	5,000	700	10
TZC00007	N	N	300	20	100	1,000	150	700	70	50	30,000	5,000	<10
TZC00008	<2	N	N	15	100	30	150	N	50	10	1,500	N	10
TZC00009	<2	N	N	10	70	N	200	N	70	N	300	N	10
TZC00010	3	N	N	15	100	N	300	N	100	N	300	N	15
TZC00011	2	<20	N	30	100	N	300	N	70	N	50	N	15
TZC00012	<2	100	N	20	30	20	150	>5,000	N	N	1,000	N	N
TZC00013	N	N	N	15	100	15	100	10	N	N	20	N	15
TZC00014	N	100	N	10	50	<10	50	200	N	N	300	N	<10
TZC00015	2	<20	N	15	100	15	50	700	N	N	1,500	N	<10
TZC00016	<2	N	N	N	100	30	150	30	<50	N	3,000	N	10
TZC00017	N	70	N	N	20	N	100	N	300	N	70	N	15
TZC00018	<2	N	N	N	20	N	200	N	200	N	30	N	30
TZC00019	<2	N	N	N	30	N	150	N	70	N	100	N	10
TZC00020	7	50	N	10	50	N	700	N	200	N	20	N	30
TZC00021	2	N	N	10	70	N	200	N	100	N	20	N	20
TZC00022	5	N	N	20	200	N	1,000	N	150	N	200	<200	50
TZC00023	10	N	N	10	50	N	700	N	70	N	30	<200	20
TZC00024	5	N	N	<10	30	N	500	N	100	N	30	N	20
TZC00025	5	N	N	10	70	N	300	N	150	N	30	N	50
TZC00026	7	N	N	15	30	N	500	N	50	N	<20	N	50
TZC00027	2	N	N	N	<20	N	100	N	N	N	30	N	10
TZC00028	7	N	N	20	100	N	700	N	200	N	20	N	100
TZC00029	N	N	N	N	<20	N	50	N	N	N	50	N	N
TZC00030	2	N	N	N	<20	N	100	N	N	10	20	N	10
TZC00031	3	N	N	10	30	10	200	N	70	N	20	N	10
TZC00032	2	N	N	10	50	N	700	N	150	N	20	N	15
TZC00033	2	N	N	N	<20	15	150	N	N	10	500	N	10
TZC00034	3	N	N	N	50	N	1,000	N	100	N	70	<200	20
TZC00035	N	N	N	50	150	<10	100	100	N	100	700	N	10
TZC00036	N	N	N	<10	70	<10	70	20	N	N	300	N	<10
TZC00037	<2	5,000	100	10	100	30	70	150	N	N	3,000	N	15
TZC00038	<2	<20	N	15	150	10	100	100	N	N	200	N	10
TZC00039	N	30	N	15	100	15	50	200	N	N	700	N	10
TZC00040	N	<20	N	N	50	10	70	3,000	N	N	700	N	10
TZC00041	N	20	N	50	70	200	50	700	N	100	700	N	10
TZC00042	N	200	N	N	<20	N	500	700	100	N	300	N	<10
TZC00043	<2	70	N	20	50	70	70	700	N	N	2,000	N	10
TZC00044	<2	1,000	N	20	50	30	300	5,000	N	N	10,000	N	<10
TZC00045	<2	50	N	20	70	300	150	2,000	N	N	5,000	N	10

Table 6. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral separates from stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
TZC00001	N	1,000	20	N	50	N	N	N
TZC00002	N	700	20	N	20	N	N	N
TZC00003	N	700	100	N	200	N	N	N
TZC00004	N	500	150	100	200	N	N	N
TZC00005	N	500	200	300	700	N	N	N
TZC00006	30	500	200	500	200	N	N	N
TZC00007	N	200	200	500	150	5,000	1,500	N
TZC00008	N	500	200	<100	150	N	N	N
TZC00009	N	700	100	N	150	N	N	N
TZC00010	N	300	200	N	200	N	N	N
TZC00011	N	300	150	N	200	N	N	N
TZC00012	100	700	100	20,000	70	N	1,500	N
TZC00013	N	2,000	150	150	30	N	2,000	N
TZC00014	N	300	50	500	<20	N	1,000	N
TZC00015	N	500	100	2,000	N	N	50	N
TZC00016	N	500	150	300	150	N	N	N
TZC00017	N	1,000	70	<100	100	N	N	N
TZC00018	N	1,000	100	100	200	N	N	N
TZC00019	N	300	100	N	150	N	N	N
TZC00020	30	700	200	N	700	N	>2,000	N
TZC00021	N	500	150	N	300	N	>2,000	N
TZC00022	N	500	200	N	700	N	>2,000	N
TZC00023	N	1,000	150	N	500	N	>2,000	N
TZC00024	N	1,500	150	N	500	N	>2,000	N
TZC00025	N	700	200	N	500	N	>2,000	N
TZC00026	N	1,000	150	N	500	N	>2,000	N
TZC00027	N	3,000	50	N	150	N	>2,000	N
TZC00028	N	1,500	200	N	1,000	500	>2,000	N
TZC00029	N	5,000	20	N	100	N	>2,000	N
TZC00030	N	2,000	30	<100	100	N	>2,000	N
TZC00031	N	1,500	100	N	150	N	>2,000	N
TZC00032	N	1,000	150	N	300	N	>2,000	N
TZC00033	N	3,000	50	N	100	N	>2,000	N
TZC00034	N	2,000	150	N	500	N	>2,000	N
TZC00035	N	1,000	150	2,000	50	N	>2,000	N
TZC00036	N	700	70	500	<20	2,000	700	N
TZC00037	200	1,000	200	2,000	70	5,000	2,000	N
TZC00038	N	700	100	700	20	1,500	500	N
TZC00039	N	1,000	150	1,500	<20	2,000	150	N
TZC00040	N	300	150	20,000	20	N	1,000	N
TZC00041	N	300	150	1,000	<20	N	700	N
TZC00042	20	200	150	5,000	200	N	2,000	N
TZC00043	N	200	150	1,500	30	N	150	N
TZC00044	50	700	500	7,000	70	N	>2,000	N
TZC00045	N	300	150	3,000	50	N	500	N

Table 6. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral separates from stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZC00046	38 22 57	117 52 58	1.50	10.00	20.0	.50	1,000	N	N	N	200	7,000
TZC00047	38 22 47	117 52 57	2.00	10.00	15.0	1.00	700	5	N	N	300	3,000
TZC00048	38 22 11	117 53 3	1.50	1.00	15.0	1.50	700	N	N	N	500	2,000
TZC00049	38 9 28	117 41 18	1.50	1.00	10.0	2.00	700	N	N	N	100	>10,000
TZC00050	38 10 0	117 41 57	1.00	.50	10.0	2.00	500	N	N	N	70	2,000
TZC00053	38 9 13	117 41 35	1.00	.20	1.0	.50	200	N	N	N	<20	>10,000
TZC00054	38 10 51	117 39 59	.70	.30	7.0	.70	150	N	N	N	30	500
TZC00055	38 8 54	117 42 5	.70	.20	3.0	.30	200	N	N	N	30	>10,000
TZC00056	38 11 44	117 40 2	1.00	.50	5.0	1.00	300	N	N	N	50	1,000
TZC00057	38 11 44	117 40 2	.70	.50	5.0	.70	300	N	N	N	50	2,000
TZC00058	38 11 42	117 39 57	.50	.30	3.0	1.00	200	N	N	N	30	2,000
TZC00059	38 9 13	117 43 30	1.00	.50	10.0	2.00	700	200	N	N	50	>10,000
TZC00060	38 9 4	117 43 58	1.00	.30	5.0	1.00	200	N	N	N	50	1,000
TZC00061	38 8 3	117 44 21	.70	.50	10.0	1.00	200	N	N	N	50	500
TZC00062	38 5 57	117 43 1	.70	.20	2.0	.70	300	N	N	N	<20	>10,000
TZC00063	38 7 51	117 41 5	.50	.30	2.0	.30	150	N	N	N	20	1,500
TZC00064	38 7 43	117 41 35	.70	.30	3.0	.70	100	N	N	N	20	700
TZC00065	38 7 0	117 42 1	.50	.30	2.0	.70	200	N	N	N	20	>10,000
TZC00066	38 6 41	117 42 32	1.00	.30	7.0	1.50	500	N	N	N	<20	>10,000
TZC00067	38 7 57	117 43 6	1.00	.50	5.0	.70	200	N	N	N	30	2,000
TZC00068	38 7 28	117 43 3	1.00	.20	5.0	1.00	200	N	N	N	30	>10,000
TZC00072	38 7 27	117 43 15	1.50	.70	5.0	1.00	500	N	N	N	30	>10,000
TZC00073	38 7 8	117 43 38	1.50	.70	5.0	.70	500	N	N	N	30	1,000
TZC00074	38 7 14	117 44 25	1.00	.30	1.5	.50	200	N	N	N	<20	1,500
TZC00075	38 7 4	117 44 49	.70	.30	2.0	.50	50	N	N	N	20	1,000
TZC00076	38 7 4	117 44 49	1.00	.30	5.0	.70	150	N	N	N	50	1,000
TZC00077	38 6 25	117 44 26	2.00	1.00	5.0	1.00	700	N	N	N	50	700
TZC00078	38 5 54	117 44 13	.70	.30	1.5	.50	150	N	N	N	20	1,000
TZC00079	38 5 31	117 44 18	1.50	.50	5.0	1.50	500	7	N	N	30	>10,000
TZC00080	38 5 6	117 44 28	.15	.05	.5	.20	50	2	N	N	<20	>10,000
TZC00081	38 5 12	117 43 48	.70	.50	3.0	.50	150	N	N	N	30	700
TZC00082	38 5 5	117 43 34	.70	.20	5.0	.50	70	N	N	N	20	>10,000
TZC00083	38 5 6	117 44 1	1.50	.30	1.5	1.00	500	2	N	N	<20	>10,000
TZC00084	38 6 27	117 43 35	1.00	.50	2.0	1.00	500	N	N	N	20	10,000
TZC00085	38 6 19	117 45 37	1.50	.30	7.0	1.50	200	N	N	N	30	7,000
TZC00086	38 6 52	117 47 4	5.00	.70	7.0	1.50	1,000	N	<500	N	<20	>10,000
TZC00087	38 6 33	117 46 4	1.00	.50	7.0	2.00	300	N	N	N	30	>10,000
TZC00088	38 7 2	117 46 29	1.50	.70	5.0	1.00	700	N	N	N	30	10,000
TZC00093	38 7 8	117 47 30	.50	.20	5.0	2.00	500	N	N	N	<20	>10,000
TZC00095	38 7 29	117 48 17	1.50	1.00	10.0	2.00	700	N	N	N	50	2,000
TZC00096	38 8 11	117 48 30	1.00	1.00	2.0	.70	200	N	N	N	20	5,000
TZC00097	38 8 19	117 48 56	1.00	.50	2.0	1.00	200	N	N	N	<20	700
TZC00098	38 9 29	117 46 37	1.00	.20	3.0	.50	100	N	N	N	20	1,000
TZC00099	38 9 1	117 46 55	1.00	.50	5.0	1.00	200	N	N	N	20	>10,000
TZC00100	38 8 8	117 47 28	1.00	.30	2.0	1.00	200	N	N	N	30	>10,000

Table 6. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral separates from stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZC00046	<2	30	N	10	70	10	50	700	N	N	1,500	300	15
TZC00047	<2	20	N	10	100	10	100	N	<50	N	500	500	15
TZC00048	<2	N	N	N	70	30	500	N	50	10	10,000	1,000	15
TZC00049	5	N	N	15	50	N	700	100	150	N	50	N	30
TZC00050	5	N	N	10	50	N	500	200	100	N	N	<200	20
TZC00053	<2	N	N	10	<20	N	100	N	N	N	20	N	10
TZC00054	2	N	N	N	<20	10	150	N	<50	N	30	N	N
TZC00055	2	N	N	10	<20	10	150	N	N	20	30	N	<10
TZC00056	3	N	N	10	20	10	200	N	50	N	50	200	15
TZC00057	3	N	N	N	<20	10	200	N	50	10	20	N	10
TZC00058	3	N	N	N	<20	N	150	N	50	N	30	N	10
TZC00059	5	N	N	N	30	N	500	N	100	N	30	200	20
TZC00060	2	N	N	N	20	<10	150	N	50	N	20	N	N
TZC00061	2	N	N	N	20	N	300	N	50	N	20	N	10
TZC00062	N	N	N	10	20	N	200	N	70	N	N	N	10
TZC00063	N	N	N	N	<20	N	70	N	<50	N	20	N	N
TZC00064	N	N	N	N	<20	10	100	N	50	N	<20	N	10
TZC00065	N	N	N	N	<20	N	100	N	70	N	N	N	10
TZC00066	N	N	N	10	50	N	200	30	150	N	N	N	15
TZC00067	N	N	N	N	30	N	100	N	50	N	20	N	10
TZC00068	2	N	N	<10	<20	N	150	N	100	N	N	N	15
TZC00072	2	N	N	15	70	N	200	N	50	N	200	N	15
TZC00073	N	N	N	15	150	10	200	N	50	N	<20	N	10
TZC00074	N	N	N	<10	<20	<10	100	N	<50	N	N	N	<10
TZC00075	N	50	N	N	<20	N	50	N	N	N	<20	N	N
TZC00076	N	N	N	N	50	<10	100	N	50	N	30	N	10
TZC00077	2	N	N	15	100	20	300	N	50	N	30	N	15
TZC00078	N	N	N	<10	<20	<10	70	N	N	N	N	N	<10
TZC00079	N	N	N	20	50	N	500	N	100	N	50	N	50
TZC00080	N	N	N	N	<20	N	50	N	N	N	30	200	N
TZC00081	N	N	N	N	<20	N	70	N	<50	N	<20	N	<10
TZC00082	N	N	N	N	<20	10	70	N	<50	N	N	N	N
TZC00083	5	N	N	15	50	N	100	N	150	N	N	700	30
TZC00084	3	N	N	10	70	50	150	500	100	N	150	N	30
TZC00085	2	N	N	N	50	<10	200	N	70	N	30	N	20
TZC00086	N	N	N	20	200	N	500	N	150	N	N	N	20
TZC00087	N	N	N	<10	50	<10	200	N	150	N	100	N	20
TZC00088	<2	N	N	30	70	N	200	N	100	N	70	N	15
TZC00093	N	N	N	10	30	N	200	N	200	N	20	N	15
TZC00095	N	20	N	15	100	10	500	10	150	N	N	N	20
TZC00096	N	N	N	<10	50	N	150	N	50	N	N	N	10
TZC00097	N	N	N	10	20	N	200	N	50	N	N	N	10
TZC00098	N	N	N	<10	<20	N	100	N	N	N	N	N	<10
TZC00099	N	N	N	<10	20	N	150	N	70	N	N	N	10
TZC00100	N	N	N	10	30	20	150	N	70	N	N	300	10

Table 6. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral separates from stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
TZC00046	N	1,000	150	2,000	20	N	1,500	N
TZC00047	N	3,000	200	700	100	N	>2,000	N
TZC00048	30	1,500	200	N	300	N	>2,000	N
TZC00049	N	1,000	200	500	500	N	>2,000	N
TZC00050	N	700	150	700	500	N	>2,000	N
TZC00053	N	2,000	70	100	150	N	>2,000	N
TZC00054	N	1,500	70	N	50	N	>2,000	N
TZC00055	200	1,000	50	N	100	N	>2,000	N
TZC00056	N	1,000	100	N	150	N	>2,000	N
TZC00057	N	1,500	70	N	100	N	>2,000	N
TZC00058	N	1,000	70	N	150	N	>2,000	N
TZC00059	N	1,000	150	<100	500	N	>2,000	N
TZC00060	N	1,000	70	N	100	N	>2,000	N
TZC00061	N	1,000	100	N	150	N	>2,000	N
TZC00062	N	2,000	70	N	200	N	>2,000	N
TZC00063	N	700	20	N	30	N	>2,000	N
TZC00064	N	700	50	N	150	N	>2,000	N
TZC00065	N	1,000	50	N	200	N	>2,000	N
TZC00066	N	500	70	N	500	N	>2,000	N
TZC00067	N	700	70	N	150	N	>2,000	N
TZC00068	N	2,000	70	N	200	<500	>2,000	N
TZC00072	N	2,000	100	N	150	N	>2,000	N
TZC00073	N	700	100	N	150	N	>2,000	N
TZC00074	N	700	50	N	50	N	>2,000	N
TZC00075	N	700	30	N	30	N	>2,000	N
TZC00076	N	700	70	N	150	N	>2,000	N
TZC00077	N	1,000	150	150	200	N	>2,000	N
TZC00078	N	700	50	N	50	N	>2,000	N
TZC00079	N	1,000	150	N	500	500	>2,000	N
TZC00080	N	2,000	20	N	50	N	>2,000	N
TZC00081	N	700	50	N	50	N	>2,000	N
TZC00082	N	1,000	50	N	50	N	>2,000	N
TZC00083	N	1,500	70	N	300	N	>2,000	N
TZC00084	N	700	100	<100	300	500	>2,000	N
TZC00085	N	500	100	N	300	N	>2,000	200
TZC00086	200	700	200	N	500	N	>2,000	200
TZC00087	20	700	150	N	500	N	>2,000	N
TZC00088	N	500	100	N	200	N	>2,000	N
TZC00093	N	700	100	N	500	N	>2,000	N
TZC00095	20	200	200	N	700	N	>2,000	N
TZC00096	N	700	70	N	100	N	>2,000	N
TZC00097	N	700	100	N	150	N	>2,000	300
TZC00098	N	700	50	N	70	N	>2,000	N
TZC00099	N	700	70	N	150	N	>2,000	<200
TZC00100	N	1,500	100	N	50	N	>2,000	N

Table 6. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral separates from stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZC00101	38 8 7	117 47 25	1.00	.30	3.0	1.50	200	N	N	N	20	>10,000
TZC00102	38 8 8	117 47 28	.50	.20	1.5	.70	150	N	N	N	30	>10,000
TZC00104	38 9 16	117 47 35	1.50	1.50	3.0	1.00	300	N	N	N	30	>10,000
TZC00105	38 9 38	117 47 36	1.00	.50	5.0	1.00	200	N	N	N	20	>10,000
TZC00106	38 8 26	117 49 55	1.50	1.00	10.0	2.00	700	N	N	N	50	2,000
TZC00108	38 9 16	117 48 41	1.00	.50	10.0	1.00	300	N	N	N	20	2,000
TZC00109	38 10 17	117 49 31	1.00	1.00	5.0	.70	200	N	N	N	20	>10,000
TZC00110	38 10 21	117 49 36	.70	.20	3.0	.20	150	N	N	N	20	3,000
TZC00111	38 26 4	117 54 53	2.00	1.00	10.0	1.50	500	N	N	N	30	1,500
TZC00112	38 25 23	117 54 38	2.00	.50	2.0	.70	300	N	N	N	20	7,000
TZC00113	38 25 7	117 54 36	1.00	.70	3.0	.70	200	N	N	N	30	300
TZC00114	38 25 0	117 53 30	1.50	1.00	10.0	1.50	500	N	N	N	50	2,000
TZC00115	38 24 52	117 53 14	1.50	1.00	5.0	.70	300	N	N	N	150	1,500
TZC00116	38 24 6	117 52 32	1.50	1.00	3.0	.50	300	N	N	N	50	500
TZC00117	38 23 7	117 51 22	3.00	5.00	10.0	.70	1,500	N	N	N	100	150
TZC00118	38 22 5	117 51 36	1.50	.20	1.5	1.00	150	N	N	N	300	2,000
TZC00119	38 22 5	117 51 36	1.50	.50	1.5	.70	300	N	N	N	200	2,000
TZC00120	38 21 47	117 51 37	1.00	.20	1.5	.70	100	N	N	N	200	10,000
TZC00121	38 20 58	117 52 17	1.00	.50	7.0	1.50	200	N	N	N	300	7,000
TZC00122	38 20 13	117 52 22	3.00	.70	7.0	2.00	700	N	N	N	200	3,000
TZC00123	38 19 26	117 51 51	1.50	.20	3.0	1.50	200	N	N	N	100	>10,000
TZC00124	38 21 30	117 54 54	1.50	.30	3.0	1.50	300	N	N	N	70	5,000
TZC00125	38 21 30	117 54 54	3.00	.15	1.5	1.00	500	N	N	N	150	5,000
TZC00126	38 23 46	117 58 20	1.50	.50	7.0	1.00	200	N	N	N	50	>10,000
TZC00127	38 23 23	117 58 6	1.50	.50	7.0	2.00	300	N	N	N	70	10,000
TZC00128	38 22 43	117 57 46	1.00	.20	7.0	2.00	300	N	N	N	50	>10,000
TZC00129	38 22 57	117 57 45	5.00	.50	3.0	2.00	700	N	N	N	150	3,000
TZC00132	38 23 30	117 56 3	3.00	1.00	7.0	2.00	700	N	N	N	100	700
TZC00135	38 23 55	117 57 3	2.00	1.00	5.0	2.00	500	N	N	N	150	1,000
TZC00136	38 23 58	117 57 5	2.00	.70	10.0	2.00	500	N	N	N	100	5,000
TZC00137	38 24 11	117 57 41	2.00	1.50	7.0	2.00	700	N	N	N	150	700
TZC00141	38 22 40	117 57 9	1.50	.70	7.0	1.50	300	N	N	N	70	>10,000
TZC00142	38 22 47	117 56 38	1.50	.30	7.0	1.50	300	N	N	N	50	>10,000
TZC00143	38 22 47	117 56 38	.70	.20	7.0	1.50	150	2	N	N	50	>10,000
TZC00146	38 22 33	117 55 6	1.50	2.00	7.0	2.00	500	N	N	N	100	1,000
TZC00147	38 21 30	117 54 45	2.00	1.00	5.0	2.00	500	N	N	N	150	1,500
TZC00148	38 25 57	117 55 36	1.50	1.50	7.0	2.00	500	N	N	N	50	3,000
TZC00149	38 26 2	117 55 42	1.00	.50	2.0	1.00	200	N	N	N	70	1,000
TZC00150	38 27 23	117 56 33	1.50	1.00	10.0	1.50	500	N	N	N	50	3,000
TZC00151	38 26 39	117 56 56	1.50	1.50	5.0	1.50	700	3	N	N	100	5,000
TZC00152	38 27 15	117 58 20	1.50	.70	7.0	1.00	300	N	N	N	<20	10,000
TZC00153	38 26 36	117 58 29	1.00	.70	7.0	2.00	300	N	N	N	30	5,000
TZC00154	38 25 45	117 58 10	2.00	1.50	7.0	2.00	700	N	N	N	50	1,500
TZC00158	38 18 57	117 57 29	.50	.20	10.0	1.50	500	10	N	20	20	>10,000
TZC00159	38 19 17	117 57 5	1.00	.70	7.0	.70	500	N	N	N	100	10,000

Table 6. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral separates from stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZC00101	N	N	N	N	20	20	150	10	70	N	20	1,000	15
TZC00102	N	N	N	<10	20	20	150	N	50	N	20	300	<10
TZC00104	N	N	N	10	50	20	150	N	70	N	<20	1,500	15
TZC00105	N	N	N	10	50	N	150	N	100	N	<20	N	15
TZC00106	N	N	N	15	100	N	300	N	100	N	200	N	20
TZC00108	N	N	N	<10	50	N	300	N	100	N	<20	N	20
TZC00109	N	N	N	10	20	N	150	N	<50	N	<20	500	10
TZC00110	N	N	N	N	<20	N	<50	N	N	N	N	N	N
TZC00111	N	N	N	15	100	<10	200	10	50	N	N	N	20
TZC00112	N	N	N	10	70	20	150	N	N	N	50	N	<10
TZC00113	N	N	N	N	30	N	150	N	<50	N	200	N	10
TZC00114	N	N	N	15	200	<10	200	N	70	N	50	N	20
TZC00115	5	N	N	10	150	10	150	10	50	N	50	N	20
TZC00116	N	N	N	<10	50	N	70	150	<50	N	<20	N	10
TZC00117	2	20	N	<10	100	30	150	200	N	N	100	N	10
TZC00118	2	N	N	10	100	50	100	N	<50	N	20	N	10
TZC00119	<2	N	N	<10	100	50	100	N	50	N	30	N	10
TZC00120	N	N	N	N	100	30	100	N	<50	N	N	N	10
TZC00121	N	N	N	20	150	20	300	N	70	N	50	N	15
TZC00122	N	N	N	20	150	100	1,000	N	70	N	20	<200	15
TZC00123	N	N	N	<10	50	70	150	N	70	N	50	N	20
TZC00124	2	N	N	<10	200	70	150	N	70	N	100	N	20
TZC00125	3	N	N	15	200	70	200	<10	50	N	100	N	15
TZC00126	N	N	N	20	70	20	1,000	<10	50	N	100	N	<10
TZC00127	N	N	N	10	200	<10	200	100	100	N	200	N	30
TZC00128	N	N	N	N	150	10	300	N	100	N	150	N	30
TZC00129	N	N	N	20	300	30	500	N	70	N	50	N	15
TZC00132	N	N	N	20	200	10	500	N	100	N	30	N	30
TZC00135	N	N	N	15	200	30	300	<10	70	N	70	<200	15
TZC00136	N	N	N	15	150	10	200	N	100	N	1,500	700	20
TZC00137	N	N	N	20	150	10	1,000	10	100	N	500	N	15
TZC00141	N	N	N	10	70	30	200	N	70	N	300	10,000	10
TZC00142	N	N	<50	15	20	20	500	100	50	N	1,000	7,000	15
TZC00143	N	N	N	N	30	10	200	N	50	N	500	5,000	10
TZC00146	N	N	N	15	200	N	200	15	100	N	N	N	20
TZC00147	N	N	N	15	150	20	200	20	100	N	1,000	300	15
TZC00148	N	N	N	20	150	<10	200	10	100	N	20	N	20
TZC00149	N	N	N	<10	50	N	150	N	50	N	N	N	10
TZC00150	N	N	N	10	100	10	200	30	70	N	20	N	30
TZC00151	N	N	N	15	100	20	200	50	70	N	300	N	10
TZC00152	N	N	N	10	70	10	150	N	50	N	N	N	15
TZC00153	N	N	N	20	50	N	200	20	50	N	70	N	30
TZC00154	N	N	N	20	100	30	300	15	150	N	100	5,000	20
TZC00158	N	N	N	N	20	N	300	N	70	N	300	N	20
TZC00159	N	N	N	<10	100	20	300	N	<50	N	<20	N	10

Table 6. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral separates from stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
TZC00101	N	1,000	100	<100	150	N	>2,000	N
TZC00102	N	1,500	70	N	100	N	>2,000	N
TZC00104	N	1,000	100	N	150	N	>2,000	N
TZC00105	N	1,000	70	N	200	N	>2,000	<200
TZC00106	N	500	150	N	300	N	>2,000	N
TZC00108	N	500	100	N	300	N	>2,000	N
TZC00109	N	1,000	70	N	100	N	>2,000	N
TZC00110	N	1,000	20	N	30	N	1,500	N
TZC00111	<20	500	150	150	200	N	>2,000	N
TZC00112	N	1,000	100	<100	100	N	>2,000	N
TZC00113	N	700	70	<100	100	N	>2,000	N
TZC00114	N	700	150	200	300	N	>2,000	N
TZC00115	N	700	200	100	150	N	>2,000	N
TZC00116	N	1,000	70	2,000	50	N	>2,000	N
TZC00117	N	500	150	1,000	50	<500	1,000	N
TZC00118	N	500	150	N	100	N	>2,000	N
TZC00119	N	200	150	N	70	N	>2,000	N
TZC00120	N	700	100	<100	100	N	2,000	N
TZC00121	N	5,000	150	100	300	N	>2,000	N
TZC00122	N	700	200	150	500	N	>2,000	300
TZC00123	N	700	150	100	200	N	>2,000	N
TZC00124	N	7,000	150	N	200	N	>2,000	N
TZC00125	N	7,000	150	100	150	N	>2,000	N
TZC00126	N	2,000	100	150	150	N	>2,000	N
TZC00127	30	500	100	100	500	N	>2,000	N
TZC00128	N	1,000	150	300	500	500	>2,000	<200
TZC00129	N	500	200	150	200	N	>2,000	N
TZC00132	N	500	200	<100	500	N	>2,000	200
TZC00135	20	2,000	150	<100	200	N	>2,000	N
TZC00136	N	700	70	100	300	1,000	>2,000	N
TZC00137	N	500	150	150	300	N	>2,000	N
TZC00141	30	2,000	100	N	200	1,000	>2,000	N
TZC00142	N	2,000	100	N	150	500	>2,000	N
TZC00143	N	1,000	70	<100	150	<500	>2,000	N
TZC00146	N	3,000	150	500	150	N	>2,000	N
TZC00147	20	2,000	150	<100	200	N	>2,000	N
TZC00148	N	300	150	500	500	N	>2,000	200
TZC00149	N	700	100	200	150	N	>2,000	N
TZC00150	N	500	150	300	500	<500	>2,000	200
TZC00151	20	2,000	150	200	50	N	>2,000	N
TZC00152	50	200	100	<100	300	N	>2,000	N
TZC00153	N	500	150	200	700	N	>2,000	200
TZC00154	N	500	150	300	300	N	>2,000	N
TZC00158	N	1,000	150	200	300	N	>2,000	<200
TZC00159	N	700	100	N	200	N	>2,000	N

Table 6. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral separates from stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
TZC00161	38 20 18	117 57 11	1.50	.30	5.0	1.50	500	N	N	N	100	>10,000
TZC00162	38 19 39	117 57 6	1.00	.30	2.0	1.00	300	N	N	N	30	>10,000
TZC00163	38 19 37	117 58 41	1.00	.30	2.0	.30	100	N	N	N	20	1,000
TZC00164	38 19 4	117 59 0	1.50	.50	2.0	.50	300	N	N	N	100	5,000
TZC00165	38 19 3	117 59 4	2.00	1.00	7.0	1.50	700	N	N	N	70	10,000
TZC00166	38 17 35	117 58 15	1.00	.20	1.0	.30	200	N	N	N	30	5,000
TZC00168	38 20 5	117 55 0	2.00	.30	5.0	2.00	700	N	N	N	70	5,000
TZC00169	38 20 58	117 55 58	1.50	.20	1.5	1.00	200	N	N	N	100	>10,000
TZC00170	38 20 40	117 55 43	3.00	.70	3.0	2.00	500	N	N	N	70	1,500
TZC00171	38 20 55	117 55 22	2.00	.30	2.0	1.50	300	N	N	N	100	>10,000
TZC00172	38 21 15	117 55 11	1.50	.15	1.0	1.00	200	N	N	N	100	>10,000
TZC31A01	38 24 30	117 54 50	5.00	1.50	10.0	>2.00	2,000	10	N	N	300	2,000
TZC31A02	38 24 30	117 55 0	3.00	1.50	10.0	>2.00	1,500	7	N	N	200	7,000
TZC31A03	38 24 35	117 56 0	3.00	1.00	7.0	>2.00	1,500	N	N	N	150	1,500
TZC31A04	38 24 40	117 57 20	3.00	1.50	7.0	>2.00	2,000	5	N	N	150	700
TZC31A05	38 24 45	117 57 20	2.00	1.50	7.0	>2.00	2,000	N	N	N	100	1,000
TZC31A06	38 24 50	117 58 30	5.00	1.50	7.0	>2.00	5,000	2	N	N	70	1,000
TZC31A07	38 24 25	117 58 30	3.00	1.50	7.0	>2.00	2,000	N	N	N	200	5,000
TZC31A08	38 25 10	117 58 50	2.00	2.00	10.0	>2.00	1,500	N	N	N	30	>10,000
TZC31A09	38 25 55	117 58 55	5.00	2.00	7.0	>2.00	2,000	N	N	N	100	5,000
TZC31A10	38 26 40	117 58 5	3.00	1.50	7.0	>2.00	2,000	N	N	N	300	5,000
TZC31A11	38 25 50	117 57 10	3.00	2.00	10.0	>2.00	2,000	N	N	N	150	1,000
TZC31A12	38 25 10	117 55 50	3.00	1.50	5.0	>2.00	2,000	5	N	N	100	700
TZC31A13	38 25 35	117 54 20	10.00	3.00	7.0	>2.00	3,000	20	N	100	300	2,000
TZC31A15	38 26 40	117 56 40	2.00	2.00	3.0	1.50	1,500	N	N	N	50	>10,000
TZC31A16	38 27 15	117 58 5	5.00	1.50	10.0	2.00	2,000	50	1,000	N	500	5,000
TZC31A17	38 26 36	117 58 29	3.00	2.00	10.0	>2.00	1,500	5	N	N	200	5,000
TZC31A20	38 27 23	117 56 33	5.00	3.00	7.0	>2.00	2,000	5	N	N	100	>10,000
TZC31A21	38 27 15	117 56 30	3.00	2.00	7.0	>2.00	2,000	15	N	N	70	7,000
TZC31A22	38 27 10	117 56 30	5.00	2.00	7.0	>2.00	5,000	2	N	N	50	10,000
TZC31A23	38 26 40	117 56 0	3.00	2.00	7.0	>2.00	2,000	2	N	N	70	10,000
TZC31A24	38 25 45	117 55 35	7.00	3.00	5.0	>2.00	3,000	2	N	N	70	10,000
TZC31A25	38 25 57	117 55 36	7.00	2.00	5.0	>2.00	2,000	30	N	N	70	7,000
TZC31A26	38 26 2	117 55 42	3.00	2.00	7.0	>2.00	2,000	5	N	<20	70	1,000
TZC31A27	38 26 35	117 55 45	7.00	2.00	5.0	>2.00	3,000	20	N	N	50	2,000
TZC31A28	38 24 0	117 58 25	7.00	1.50	7.0	>2.00	2,000	3	N	N	200	10,000
TZC31A29	38 24 0	117 58 5	3.00	1.00	7.0	>2.00	1,500	15	N	N	200	3,000

Table 6. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral separates from stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
TZC00161	N	N	N	15	70	N	300	N	70	N	20	N	15
TZC00162	N	N	N	N	50	N	150	N	50	N	30	N	10
TZC00163	<2	N	N	<10	<20	15	100	N	N	N	200	N	N
TZC00164	N	N	N	10	30	50	150	N	<50	N	300	N	<10
TZC00165	N	N	N	15	100	150	300	N	70	N	500	N	15
TZC00166	N	N	N	N	20	20	100	N	N	N	300	N	<10
TZC00168	N	N	N	15	50	20	500	N	100	N	50	N	20
TZC00169	<2	N	N	10	70	20	200	N	70	N	70	N	15
TZC00170	<2	N	N	20	100	30	500	N	100	N	20	N	20
TZC00171	3	N	N	15	100	100	300	N	100	N	100	N	20
TZC00172	5	N	N	10	100	100	200	N	70	N	100	N	15
TZC31A01	3	100	N	20	200	100	700	50	100	30	1,000	1,500	30
TZC31A02	2	N	N	20	100	20	700	15	100	<10	150	N	20
TZC31A03	5	N	N	20	200	100	1,000	20	100	50	2,000	500	70
TZC31A04	5	N	N	20	500	100	1,500	20	150	50	200	500	70
TZC31A05	3	N	N	20	150	150	1,000	20	100	70	1,000	N	50
TZC31A06	7	N	N	50	500	150	1,500	20	150	70	200	N	70
TZC31A07	3	N	N	30	500	100	1,500	20	100	50	1,500	N	50
TZC31A08	3	N	N	15	100	70	700	30	100	100	100	N	30
TZC31A09	3	N	N	30	300	100	1,500	30	150	100	1,500	15,000	50
TZC31A10	5	N	N	30	200	100	1,000	30	100	100	5,000	N	30
TZC31A11	3	N	N	20	200	70	1,000	20	100	30	500	N	50
TZC31A12	5	N	N	20	300	100	1,500	15	100	20	700	700	50
TZC31A13	5	N	N	50	300	150	1,000	20	100	50	3,000	3,000	70
TZC31A15	2	N	N	20	150	70	500	20	50	70	1,000	N	50
TZC31A16	3	N	N	30	200	100	1,000	20	100	50	10,000	10,000	50
TZC31A17	5	N	N	30	200	100	700	50	200	70	1,500	10,000	50
TZC31A20	2	N	N	30	500	100	700	10	70	50	1,000	N	70
TZC31A21	3	N	N	20	500	70	700	10	100	20	700	N	70
TZC31A22	5	N	N	30	200	50	500	15	100	10	200	N	50
TZC31A23	2	N	N	30	700	30	500	10	100	100	300	<200	50
TZC31A24	2	N	N	30	500	70	500	20	150	50	300	<200	70
TZC31A25	2	20	<50	50	500	200	1,000	200	100	70	5,000	<200	50
TZC31A26	2	N	N	30	500	30	700	20	100	50	200	N	70
TZC31A27	5	N	<50	50	700	150	1,000	10	100	70	5,000	<200	70
TZC31A28	5	N	50	30	1,000	70	>2,000	15	100	70	1,000	2,000	50
TZC31A29	3	N	N	20	500	70	2,000	10	100	50	5,000	500	30

Table 6. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral separates from stream-sediment samples, southwest part of the Tonopah 1 x 2 degree quadrangle, Nevada - (cont.)

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
TZC00161	N	200	150	N	200	N	>2,000	N
TZC00162	50	2,000	100	N	150	N	>2,000	N
TZC00163	N	700	70	N	70	N	>2,000	N
TZC00164	N	700	100	N	100	N	>2,000	N
TZC00165	N	700	200	N	300	N	>2,000	N
TZC00166	N	500	50	N	70	N	>2,000	N
TZC00168	N	500	150	150	500	N	>2,000	<200
TZC00169	N	1,500	100	<100	200	N	>2,000	200
TZC00170	N	300	150	N	300	N	>2,000	500
TZC00171	N	5,000	150	150	300	N	>2,000	<200
TZC00172	N	7,000	150	<100	200	N	>2,000	N
TZC31A01	N	700	300	700	300	700	>2,000	N
TZC31A02	N	1,000	300	150	300	N	>2,000	N
TZC31A03	30	700	300	150	700	N	>2,000	500
TZC31A04	N	500	300	100	700	N	>2,000	N
TZC31A05	N	500	300	700	500	500	>2,000	300
TZC31A06	N	500	300	300	500	N	>2,000	500
TZC31A07	N	500	300	200	500	<500	>2,000	N
TZC31A08	N	2,000	200	300	300	N	>2,000	<200
TZC31A09	N	2,000	300	700	500	1,000	>2,000	500
TZC31A10	N	1,000	300	300	500	500	>2,000	500
TZC31A11	N	5,000	500	150	500	N	>2,000	<200
TZC31A12	N	500	300	<100	500	700	>2,000	300
TZC31A13	N	500	500	200	300	2,000	>2,000	N
TZC31A15	N	5,000	200	200	300	<500	>2,000	N
TZC31A16	N	1,000	300	100	300	700	>2,000	<200
TZC31A17	300	2,000	300	500	500	N	>2,000	200
TZC31A20	N	1,000	500	100	300	500	>2,000	N
TZC31A21	50	1,000	300	200	500	N	>2,000	<200
TZC31A22	100	1,000	500	500	500	N	>2,000	200
TZC31A23	N	1,000	300	150	200	N	>2,000	N
TZC31A24	N	700	500	500	300	N	>2,000	N
TZC31A25	N	500	300	500	300	2,000	>2,000	200
TZC31A26	20	700	300	700	300	N	>2,000	200
TZC31A27	N	500	500	200	500	2,000	>2,000	300
TZC31A28	N	500	300	N	500	N	>2,000	<200
TZC31A29	N	700	300	N	500	700	>2,000	200