UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results and sample locality map for stream-sediment, nonmagnetic heavy-mineral concentrate, and rock samples from the Blue Eagle Wilderness Study Area (NV-060-158/199), Nye County, Nevada

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STUDIES RELATED TO WILDERNESS

Bureau of Land Management Wilderness Study Areas

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

INTRODUCTION

In August 1984, a reconnaissance geochemical survey of the Blue Eagle Wilderness Study Area (NV-060-158/199) was conducted. This report presents the analytical results of the survey, as well as a description of the sampling and analytical procedures used.

The Blue Eagle Wilderness Study Area comprises approximately 58,350 acres (91.25 sq mi) in eastern Nye County, Nevada (fig. 1), about 100 miles east of Tonopah and 55 miles southwest of Ely. The Bureau of Land Management requested surveys of 51,350 acres in the area; this geochemical survey pertains to the larger area. Access to the area is provided by well-maintained secondary gravel roads south of U.S. Highway 6, and there are a few jeep trails within the study area.

The study area is in the Grant Range, a north-trending uplift that stands in bold relief above Railroad Valley. The spectacular west front of the range rises nearly 5,000 ft above the valley to the top of Blue Eagle Mountain with an elevation of 9,561 ft. Higher elevations of the study area, particularly on the eastern side which has gentle relief, are forested with evergreen and aspen trees. Generally intermittent streams occupy deeply incised valleys and canyons. The climate is arid to semi-arid.

Geology of the Blue Eagle study area is complex. A thick section of Paleozoic rocks, chiefly miogeoclinal carbonate rocks with subordinate shale, are complexly folded and faulted by high- and low-angle faults (Kleinhampl and Ziony, 1985). Tertiary lacustrine and volcanic rocks, cut by high-angle faults, overlap the older rocks. No plutonic rocks are exposed in the study area, but rocks in the southern part are weakly metamorphosed, possibly reflecting a buried pluton such as the one at Troy Canyon, about six miles south of the study area. There are few mineral prospects in the study area and none are described in the literature, but two notable areas of prospecting were found during our work. The Galena claims, above Heath Canyon (fig. 1), have some small workings, and the GM claims near Blind Spring have some exploration drill holes but no mining activity.

METHODS OF STUDY

Sample Collection

A total of 106 stream-sediment samples were collected at 100 sites, some of which were outside of the boundaries of the Wilderness Study Areas (pl. 1). However, at least a portion of the drainage basin represented by each sample site extended into the study areas. Two samples were collected at each site. The first sample contained approximately 1 lb of sediment and was later sieved

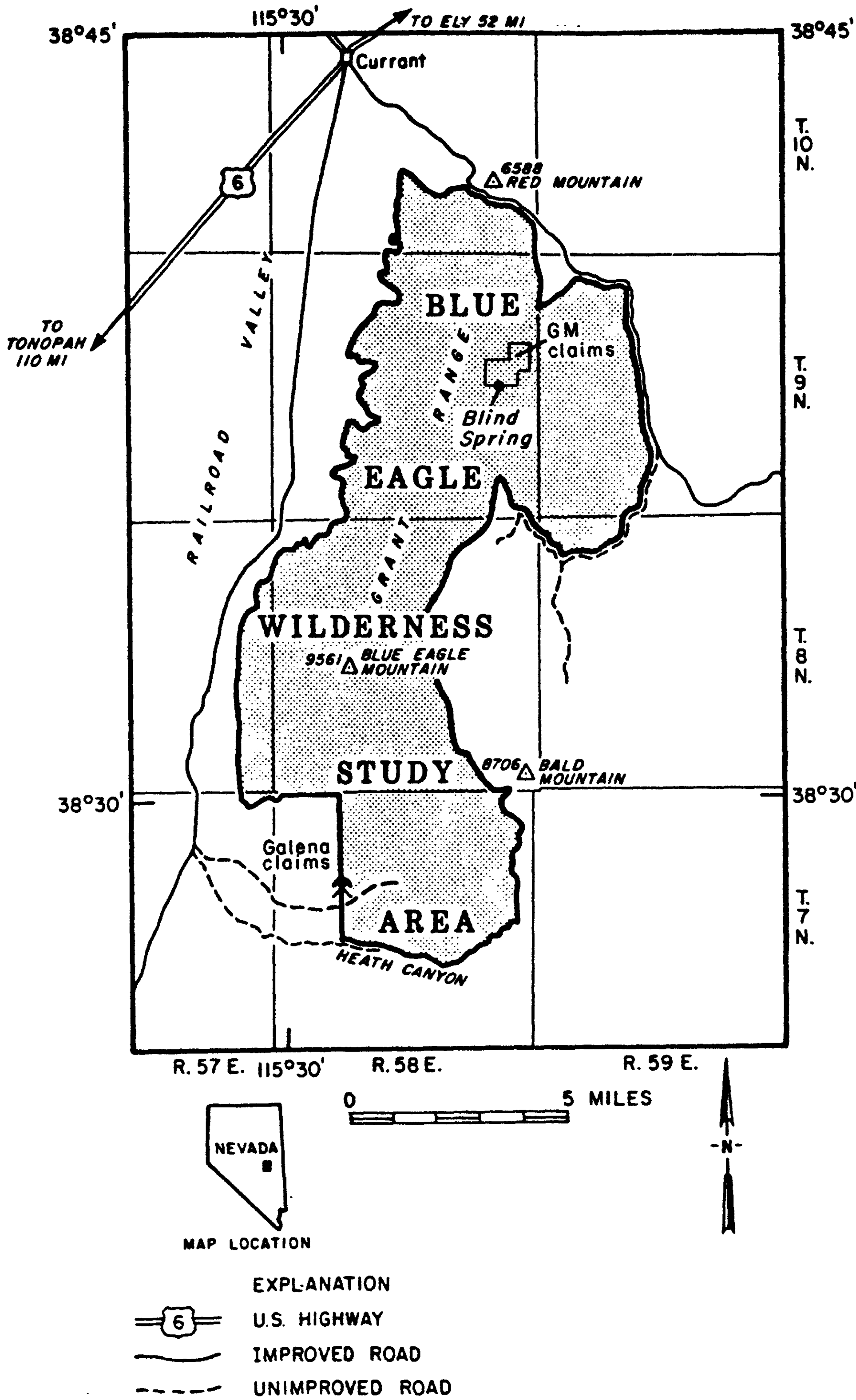

Figure 1.--Index map of the Blue Eagle Wilderness Study Area, Nye County, Nevada.

to minus 60 mesh. This sample is referred to as the stream-sediment sample. The second sample consisted of some 10-15 lb of sediment that was panned on site or at another location. This sample is referred to as the heavy-mineral concentrate. The sampling density is about one sample per 0.9 mi^2. Six replicate samples, noted by suffixes SD and XD, were prepared in the laboratory by splitting a sample with a Jones splitter.

Minus-60-mesh stream-sediment samples

Analyses of stream-sediment samples reflect the geochemical characteristics of the rocks underlying the drainage basin upstream from the sample site. The geochemical signature of the sample includes the contribution of elements adsorbed from the aqueous solution, as well as mechanically eroded and transported particulate rock or mineral material. Information of this variety is useful in identifying those basins which contain concentrations of elements that may be related to mineral deposits.

The stream-sediment samples consisted of active alluvium collected primarily from first-order (unbranched) and second-order (below the junction of two first-order) streams as shown on USGS topographic maps (scale = 1:24,000). Each sample was composited from several localities across and along the stream within a radius of 10 ft.

Heavy-mineral-concentrate samples

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

Rock samples

Outcropping rocks were sampled at 158 localities where alteration or metallization was observed, or to establish background levels in unaltered rocks. Several samples were from small mine workings and prospect pits.

Sample Preparation

The stream-sediment samples were sieved at the collection site through a 10-mesh (2-mm) screen and the minus-10-mesh (2-mm) material was retained. The samples were air dried and sieved to minus 60 mesh (0.25 mm) using stainless steel sieves, the minus-60-mesh fraction was used for all analytical procedures.

The panned sediment was placed in bromoform (specific gravity 2.86) to remove the remaining quartz and feldspar from the heavy-mineral concentrate. The heavy minerals were separated into three fractions using a large electromagnet (in this case a modified Frantz Isodynamic Separator). The most magnetic material (largely magnetite) was discarded. The second fraction (largely ferromagnesian silicates and iron oxides) was saved for archival storage. The third fraction (the least magnetic material including nonmagnetic minerals, zircon, sphene, etc.) was divided into two portions 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^{o} and a tilt of 10^{o} 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.

Rock samples were crushed and then pulverized using an agate shatterbox to attain a grain size smaller than 100 mesh (0.15 mm).

Sample Analysis

Spectrographic method

Stream-sediment and rock samples were analyzed by Malcolm for 31 elements using a semiquantitative, direct-current arc emission spectrographic method (Meyers and others, 1968). Heavy-mineral-concentrate samples and 12 rock samples were analyzed by Siems using a slight modification of the method described by Grimes and Marranzino (1968). 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). The limits of determination of this method are summarized in Table 1. 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).

Chemical Methods

Stream-sediment and rock samples were analyzed by wet chemical procedures (Table 2) for five elements (As, Bi, Cd, Sb, Zn) that have high detection limits by emission spectrography. Rock samples were analyzed for gold by atomic-absorption spectrometry (Table 2), and Te and Tl were determined in 12 rock samples using atomic absorption.

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).

RESULTS

Analytical results for stream-sediment samples are given in Table 3, results for heavy-mineral-concentrate samples are given in Table 4, and results for rock samples are given in Table 5. Geologic and geochemical interpretations of these data will be presented at a later time.

DESCRIPTION OF DATA TABLES

Analytical results are in tables 3-5. The data are arranged so that column 1 contains the USGS-assigned sample numbers. These numbers correspond to the numbers shown on the site location map (plate 1). Most sample numbers have a uniform coding. Sample numbers in the series BE01-BE100 are stream-sediment samples. The suffix S stands for -60 mesh fraction, and no suffix means nonmagnetic heavy-mineral concentrate. The suffix CD and SD denote samples collected at different but nearby localities as a test of stream sediment variability; the suffix XD denotes a laboratory split of the sample with SD suffix. Most rock samples are in the series with 4 or 5 in hundreds position (e.g. BE401 and NB501). Some rock samples were collected by geologists Karen Lund, Barbara Nevins, and L. S. Beard, and are identified by their initials; localities of these samples are not shown on Plate 1 but can be determined from latitude and longitude given in Table 5. Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic analyses; "icap" indicates results from ICAP method (Table 2), and "aa" indicates results from atomic absorption spectrometry. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination shown for that element in tables 1 and 2. If an element was observed but was below the lowest reporting value, a "less than" symbol (<) was entered in the tables in front of the lower limit of determination. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the tables in front of the upper limit of determination. If an element was not looked for in a sample, two dashes (--) are entered in place of an analytical value. Because of the formatting used in the computer program that produced tables 3-5, some of the elements listed carry one or more nonsignificant digits to the right of the significant digits. The analysts did not determine these elements to the accuracy suggested by the extra zeros.

Note:

Table 3. No data listed for As, Au, Bi, Cd, Nb, Sb, Sn, W, Zn, or Th; these elements looked for in spectrographic analyses but no samples contained more than the limit of determination (Table 1).

Table 4. No data listed for As, Au, Cd, Mo, or Th; these elements looked for in spectrographic analyses but no samples contained more than the limit of determination (Table 1).

Table 5. No data listed for Bi or Th; these elements looked for in spectrographic analyses but no samples contained more than the limit of determination (Table 1).

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TABLE 1.--Limits of determination for the spectrographic analysis of stream sediments and rocks, 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 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)	700	10,000
Gold (Au)	15	500
Boron (B)	10	2,000
Barium (Ba)	20	5,000
Beryllium (Be)	1	1,000
Bismuth (Bi)	10	1,000
Cadmium (Cd)	30	500
Cobalt (Co)	5	2,000
Chromium (Cr)	10	5,000
Copper (Cu)	5	20,000
Lanthanum (La)	30	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)	200	2,000

Table 2.--Chemical methods used for the analysis of stream-sediment and rock samples

Element	Analytical method	Determination limit (ppm)[1]	Reference
Au	Atomic absorption	0.1	Modification of Thompson and others, 1968.
Te	do	0.2	Modification of Hubert and Lakin, 1972.
Tl	do	0.2	do.
As	ICAP-AES[2]	5	Modification of O'Leary and Viets, 1985.
Bi	do	2	do.
Cd	do	0.1	do.
Sb	do	2	do.
Zn	do	5	do.

[1]The determination limit is dependent upon sample weight. Stated limits imply use of optimum sample weight; higher limits of determination result from use of small sample weights.

[2]ICAP-AES: inductively coupled argon plasma-atomic emission spectroscopy, after Crock and others, 1983.

Table 3. Spectrographic and chemical analyses of -60 mesh stream-sediment samples from the Blue Eagle Wilderness Study Area, Nye County, 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	B-ppm s	Ba-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
BE01S	38 36 3	115 20 32	1.5	3.0	15.0	.15	500	<.5	<10	500	<1.0	5	20
BE02S	38 35 17	115 21 16	1.5	.7	3.0	.15	300	<.5	15	700	1.5	5	30
BE03S	38 34 58	115 21 17	3.0	1.5	3.0	.30	1,000	<.5	20	700	1.5	7	30
BE04S	38 35 2	115 21 27	3.0	1.0	1.5	.20	1,000	<.5	20	1,000	1.5	7	30
BE05S	38 27 44	115 28 57	1.5	3.0	15.0	.15	300	<.5	15	300	<1.0	5	50
BE06S	38 28 2	115 29 0	.7	3.0	10.0	.07	150	<.5	<10	150	<1.0	<5	15
BE07S	38 28 7	115 29 1	.3	5.0	7.0	.05	150	<.5	<10	150	<1.0	<5	10
BE08S	38 34 46	115 29 29	1.0	7.0	15.0	.10	200	<.5	<10	300	<1.0	5	15
BE09CDS	38 34 47	115 29 24	1.0	5.0	7.0	.15	300	<.5	<10	300	<1.0	<5	20
BE10SDS	38 34 44	115 29 23	.7	5.0	7.0	.10	300	<.5	<10	300	<1.0	<5	30
BE10XDS	38 34 44	115 29 23	1.0	7.0	10.0	.15	300	<.5	10	300	<1.0	5	30
BE11S	38 35 18	115 29 13	.7	7.0	7.0	.05	200	<.5	<10	150	<1.0	<5	10
BE12S	38 34 25	115 30 16	.7	3.0	7.0	.07	150	<.5	<10	300	<1.0	<5	15
BE13S	38 33 15	115 30 30	.2	5.0	15.0	.03	100	<.5	<10	150	<1.0	<5	7
BE14S	38 32 18	115 30 30	1.0	7.0	10.0	.15	300	<.5	<10	300	<1.0	<5	30
BE15S	38 31 51	115 30 20	1.5	5.0	7.0	.15	500	<.5	20	500	<1.0	5	30
BE16S	38 34 0	115 30 24	.7	7.0	15.0	.10	200	<.5	<10	300	<1.0	<5	20
BE17S	38 34 47	115 27 12	1.0	5.0	15.0	.15	300	<.5	<10	300	<1.0	<5	20
BE18S	38 34 38	115 27 42	.7	7.0	7.0	.10	200	<.5	<10	200	<1.0	<5	20
BE19S	38 35 37	115 20 15	.5	5.0	5.0	.05	150	<.5	<10	150	<1.0	<5	15
BE20S	38 36 18	115 28 44	.7	5.0	5.0	.07	150	<.5	<10	200	1.0	<5	15
BE21S	38 36 51	115 28 34	.7	2.0	3.0	.07	300	<.5	10	200	<1.0	<5	15
BE22S	38 34 46	115 28 11	1.0	7.0	10.0	.15	300	<.5	<10	300	<1.0	<5	30
BE23S	38 37 22	115 27 13	1.5	7.0	7.0	.15	500	<.5	20	500	<1.0	<5	30
BE24S	38 38 12	115 28 6	.7	3.0	7.0	.07	150	<.5	10	300	<1.0	<5	15
BE25S	38 38 33	115 27 47	.7	3.0	7.0	.10	150	<.5	<10	1,500	1.0	<5	15
BE26S	38 41 3	115 27 5	1.5	1.5	3.0	.15	700	<.5	20	1,000	1.5	<5	15
BE27CDS	38 40 12	115 27 1	.7	.7	3.0	.10	300	<.5	20	1,000	1.0	<5	<10
BE28SDS	38 40 11	115 27 2	.7	1.0	3.0	.07	150	<.5	15	1,000	1.5	<5	15
BE28XDS	38 40 11	115 27 2	.5	.5	1.5	.03	150	<.5	10	700	1.0	<5	10
BE29S	38 27 42	115 26 56	.5	5.0	5.0	.03	150	<.5	<10	150	<1.0	<5	15
BE30S	38 27 37	115 26 52	.7	3.0	7.0	.07	200	<.5	<10	150	<1.0	<5	20
BE30SDS	38 27 37	115 26 52	1.0	2.0	7.0	.15	300	<.5	15	300	1.0	7	30
BE31S	38 27 23	115 27 22	.5	3.0	5.0	.03	150	<.5	<10	150	<1.0	<5	<10
BE32S	38 27 47	115 28 18	1.5	2.0	5.0	.15	300	<.5	30	300	1.5	5	30
BE33CDS	38 27 48	115 28 20	1.0	5.0	15.0	.15	300	<.5	<10	300	<1.0	5	30
BE34XDS	38 27 49	115 28 18	1.5	1.5	7.0	.15	300	<.5	20	300	1.0	7	30
BE35S	38 27 50	115 28 38	1.0	1.5	7.0	.10	200	<.5	15	300	<1.0	<5	20
BE36S	38 26 49	115 29 45	1.0	5.0	7.0	.15	500	<.5	10	500	<1.0	<5	20
BE37S	38 27 8	115 28 39	1.0	2.0	7.0	.10	200	<.5	20	300	1.0	7	30
BE38S	38 27 24	115 29 8	.7	1.5	15.0	.07	150	<.5	20	200	1.0	7	30
BE39S	38 27 38	115 24 11	2.0	1.5	7.0	.20	700	<.5	20	700	1.5	7	50
BE40S	38 28 17	115 23 56	2.0	.7	5.0	.20	700	<.5	50	500	1.5	7	70
BE41S	38 28 32	115 24 25	3.0	1.0	3.0	.30	300	.5	100	1,000	1.5	15	200
BE42S	38 28 52	115 24 13	2.0	.7	2.0	.20	500	<.5	70	300	1.5	15	70

Table 3. Spectrographic and chemical analyses of -60 mesh stream-sediment samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zr-ppm s	As-ppm icap	Zn-ppm icap	Cd-ppm icap	Bi-ppm icap	Sb-ppm icap
BE01S	10	<30	<5	15	20	5	150	30	15	50	<5	39	.7	<2	5
BE02S	7	30	<5	15	20	7	300	30	15	70	10	64	.8	<2	<2
BE03S	15	30	<5	15	20	7	500	70	15	200	<5	52	.5	<2	<2
BE04S	20	50	<5	15	30	7	500	70	15	150	5	62	.6	<2	<2
BE05S	15	<30	<5	10	15	5	300	30	15	50	6	45	.7	3	4
BE06S	7	<30	<5	7	15	<5	150	20	<10	30	6	28	.5	<2	6
BE07S	7	<30	<5	5	15	<5	<100	15	<10	20	<5	17	.3	<2	10
BE08S	10	<30	<5	10	10	<5	100	20	10	50	8	21	.4	<2	8
BE09CDS	15	<30	<5	7	20	5	150	30	10	100	<5	31	.4	<2	7
BE10SDS	10	<30	<5	10	20	5	150	30	10	70	<5	28	.4	<2	8
BE10XDS	10	50	<5	7	15	5	150	30	10	100	6	28	.5	<2	7
BE11S	7	<30	<5	7	15	<5	150	15	<10	30	<5	20	.3	<2	10
BE12S	7	30	<5	7	15	<5	150	15	<10	30	<5	19	.3	<2	8
BE13S	5	<30	<5	<5	<10	<5	100	10	<10	15	<5	9	.2	<2	8
BE14S	15	<30	<5	7	15	5	150	30	10	50	7	34	.3	<2	7
BE15S	15	<30	<5	10	15	5	200	30	10	100	<5	38	.6	<2	6
BE16S	10	30	<5	7	15	5	150	30	10	50	6	22	.4	<2	9
BE17S	10	<30	<5	10	150	<5	100	50	10	50	8	280	.6	<2	7
BE18S	10	<30	<5	7	15	<5	<100	30	<10	70	6	37	.4	<2	9
BE19S	7	<30	<5	7	15	<5	150	20	<10	30	6	26	.4	<2	9
BE20S	7	30	<5	7	15	<5	150	20	<10	50	27	40	.4	<2	<2
BE21S	7	<30	<5	7	10	<5	150	15	<10	30	<5	26	.3	<2	3
BE22S	10	50	<5	10	20	5	150	30	10	70	<5	35	.3	<2	8
BE23S	15	<30	<5	10	15	5	200	30	15	70	6	56	.6	<2	7
BE24S	7	<30	<5	7	15	<5	200	15	<10	30	<5	24	.3	<2	7
BE25S	<5	<30	<5	<5	15	<5	300	10	<10	50	<5	24	.2	<2	5
BE26S	7	100	<5	7	20	7	500	50	20	150	8	38	.3	<2	<2
BE27CDS	5	30	<5	<5	20	5	700	15	10	50	<5	29	.3	<2	<2
BE28SDS	<5	70	<5	5	15	<5	500	15	<10	30	5	18	.1	<2	<2
BE28XDS	<5	30	<5	<5	15	<5	500	10	<10	30	<5	17	.1	<2	<2
BE29S	7	<30	<5	5	15	<5	100	15	<10	30	<5	21	.3	<2	9
BE30S	7	<30	<5	7	15	<5	150	30	<10	30	8	29	.3	<2	2
BE30SDS	15	30	<5	10	30	7	300	30	10	70	9	53	.6	<2	3
BE31S	10	<30	<5	5	20	<5	<100	15	<10	30	5	38	.5	<2	8
BE32S	15	30	<5	10	20	5	300	50	10	70	5	60	.7	<2	3
BE33CDS	15	<30	<5	10	20	5	300	30	10	50	9	44	.6	<2	6
BE34XDS	15	50	<5	10	30	7	300	30	15	70	11	51	.7	<2	4
BE35S	10	30	<5	7	15	7	300	30	10	70	5	51	.4	<2	<2
BE36S	15	<30	<5	7	20	<5	150	30	10	50	<5	35	.5	<2	6
BE37S	15	<30	<5	10	15	7	300	30	<10	50	<5	44	.7	<2	2
BE38S	7	30	<5	15	15	7	300	30	10	30	<5	38	.6	<2	3
BE39S	30	70	<5	15	15	7	200	70	20	150	11	77	.7	<2	2
BE40S	20	300	<5	30	20	10	300	70	30	100	11	84	1.4	<2	<2
BE41S	70	50	7	100	15	15	300	150	30	150	13	234	1.4	<2	<2
BE42S	50	50	<5	50	20	10	150	70	20	100	12	153	1.2	<2	<2

Table 3. Spectrographic and chemical analyses of -60 mesh stream-sediment samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
BE43S	38 30 19	115 24 57	2.0	.7	3.0	.15	300	<.5	30	200	1.5	7	70
BE44S	38 30 43	115 25 18	1.5	1.5	3.0	.15	300	<.5	20	300	1.5	7	30
BE45S	38 30 49	115 25 14	1.5	1.5	1.5	.15	500	<.5	30	300	1.5	7	70
BE46S	38 30 7	115 27 20	.7	5.0	3.0	.07	200	<.5	<10	200	1.0	<5	15
BE47S	38 30 37	115 26 49	.7	5.0	7.0	.07	150	<.5	<10	150	1.0	<5	30
BE48S	38 30 10	115 26 20	2.0	3.0	10.0	.15	700	<.5	10	500	1.0	5	30
BE49S	38 30 40	115 26 25	2.0	3.0	10.0	.15	500	<.5	20	300	<1.0	7	70
BE50S	38 31 12	115 25 32	2.0	1.5	3.0	.20	700	<.5	30	300	1.0	7	70
BE51S	38 33 6	115 26 13	3.0	1.0	1.5	.30	700	<.5	50	300	1.5	10	70
BE52S	38 33 10	115 26 13	2.0	1.0	10.0	.20	500	<.5	20	300	1.0	5	70
BE53S	38 33 18	115 26 59	3.0	1.5	7.0	.15	700	<.5	20	300	1.0	7	70
BE54S	38 33 27	115 27 2	2.0	2.0	7.0	.20	700	<.5	20	500	1.0	7	70
BE55S	38 34 49	115 25 39	1.5	3.0	3.0	.15	300	<.5	20	300	1.5	7	30
BE56S	38 36 18	115 25 39	1.5	3.0	10.0	.15	500	<.5	10	500	1.0	5	30
BE57S	38 36 23	115 25 28	1.0	2.0	7.0	.15	300	<.5	15	300	1.0	5	30
BE58S	38 36 47	115 24 48	2.0	1.0	3.0	.20	500	<.5	10	1,500	1.5	5	30
BE59S	38 36 12	115 24 29	1.5	.3	1.5	.15	500	<.5	<10	1,500	1.5	7	<10
BE60S	38 36 22	115 25 22	.7	3.0	7.0	.10	300	<.5	20	300	1.5	<5	50
BE61S	38 35 42	115 23 59	3.0	1.0	1.5	.30	1,000	<.5	20	1,000	1.5	7	50
BE62S	38 34 48	115 22 28	3.0	.7	3.0	.30	500	<.5	10	1,000	1.5	7	30
BE63S	38 41 47	115 26 6	1.0	1.5	1.5	.15	300	<.5	70	700	1.5	<5	15
BE64CDS	38 41 48	115 26 3	1.5	1.0	3.0	.20	500	<.5	70	1,500	1.0	<5	15
BE65SDS	38 41 48	115 26 3	3.0	1.5	3.0	.30	500	<.5	70	1,500	1.0	7	20
BE65XDS	38 41 48	115 26 3	1.5	1.0	3.0	.15	300	<.5	50	700	1.5	5	10
BE66S	38 31 19	115 29 50	1.5	5.0	15.0	.15	300	<.5	<10	300	<1.0	5	30
BE67S	38 30 24	115 29 20	1.5	7.0	15.0	.15	300	<.5	<10	300	<1.0	5	30
BE68S	38 30 24	115 28 50	.7	5.0	7.0	.07	200	<.5	<10	300	1.0	<5	15
BE69S	38 29 25	115 29 5	.7	3.0	7.0	.15	200	<.5	15	300	1.0	<5	20
BE70S	38 28 58	115 27 54	.7	7.0	7.0	.10	200	<.5	<10	200	<1.0	<5	15
BE71S	38 28 42	115 27 51	.5	7.0	7.0	.03	200	<.5	<10	150	<1.0	<5	15
BE72S	38 28 56	115 29 17	.7	5.0	3.0	.05	150	<.5	<10	1,000	<1.0	<5	20
BE73S	38 29 47	115 29 53	1.5	2.0	3.0	.20	500	<.5	50	700	1.5	5	30
BE74S	38 39 26	115 25 52	.7	5.0	10.0	.15	200	<.5	<10	500	<1.0	<5	30
BE75S	38 39 48	115 26 3	1.0	1.5	3.0	.15	200	<.5	10	1,500	1.0	<5	20
BE76S	38 39 23	115 26 34	.7	.7	1.5	.07	150	<.5	20	1,500	1.5	<5	<10
BE77S	38 39 31	115 27 44	1.0	2.0	3.0	.15	200	<.5	<10	700	1.0	<5	15
BE78S	38 39 55	115 22 42	1.5	2.0	3.0	.15	300	<.5	30	500	1.5	7	30
BE79S	38 39 51	115 22 32	1.0	1.0	3.0	.15	300	<.5	20	1,000	1.5	5	15
BE80S	38 39 55	115 22 38	1.5	1.0	5.0	.20	700	<.5	20	700	1.0	5	30
BE81S	38 38 45	115 23 34	1.0	1.5	3.0	.15	300	<.5	20	700	1.5	<5	15
BE82S	38 38 54	115 23 33	2.0	1.5	3.0	.30	500	<.5	50	1,000	1.5	7	50
BE83S	38 38 53	115 23 29	3.0	1.0	1.5	.30	1,000	<.5	50	500	1.5	15	70
BE84CDS	38 38 54	115 23 27	3.0	1.0	1.5	.30	700	<.5	20	1,000	1.5	10	50
BE85SDS	38 38 53	115 23 26	1.5	1.5	1.5	.20	700	<.5	30	700	1.5	10	50
BE85XDS	38 38 53	115 23 26	1.5	1.5	.7	.20	700	<.5	30	700	1.5	7	30

Table 3. Spectrographic and chemical analyses of -60 mesh stream-sediment samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zr-ppm s	As-ppm icap	Zn-ppm icap	Cd-ppm icap	Bi-ppm icap	Sb-ppm icap
BE43S	20	50	<5	30	15	7	150	100	30	70	9	100	1.8	<2	<2
BE44S	15	30	<5	15	20	7	200	50	15	100	8	75	.7	<2	4
BE45S	20	30	<5	15	30	7	200	70	15	100	8	90	.9	<2	<2
BE46S	7	<30	<5	7	15	<5	150	20	10	70	<5	32	.4	<2	7
BE47S	7	30	<5	7	15	<5	150	30	<10	50	12	36	.3	<2	7
BE48S	20	<30	<5	15	20	7	150	70	15	70	<5	58	.6	<2	4
BE49S	20	30	<5	30	15	7	150	70	15	100	13	89	1.8	<2	3
BE50S	30	30	<5	30	15	7	200	70	15	70	10	87	1.3	<2	2
BE51S	30	50	<5	30	20	10	200	100	15	150	14	91	1.1	<2	<2
BE52S	15	50	<5	30	15	5	200	70	15	150	10	70	1.1	<2	<2
BE53S	30	<30	<5	30	15	7	200	70	20	70	7	77	1.4	<2	<2
BE54S	30	30	<5	20	15	7	200	70	20	100	7	89	1.2	<2	3
BE55S	10	30	<5	15	15	7	300	30	15	150	8	70	.6	<2	5
BE56S	15	<30	<5	15	15	5	200	50	15	100	18	69	.7	<2	5
BE57S	10	30	<5	10	15	7	200	30	15	70	7	50	.7	<2	5
BE58S	7	50	<5	7	20	5	1,000	50	15	150	7	36	.4	<2	<2
BE59S	<5	70	<5	<5	30	5	700	20	15	70	<5	41	.2	<2	<2
BE60S	10	30	<5	30	15	7	300	30	15	50	20	86	.6	<2	5
BE61S	20	70	<5	15	20	7	500	70	20	200	6	59	.5	<2	<2
BE62S	7	70	<5	10	20	7	3,000	100	20	150	<5	44	.2	<2	<2
BE63S	7	70	<5	7	20	<5	300	30	10	70	<5	23	.3	<2	8
BE64CDS	7	100	<5	5	30	7	700	50	15	100	18	46	.4	<2	2
BE65SDS	7	50	<5	7	20	10	700	100	20	300	21	39	.4	<2	2
BE65XDS	5	50	<5	5	20	7	500	30	15	70	19	42	.4	<2	<2
BE66S	15	<30	<5	10	15	5	200	30	10	50	6	25	.5	<2	7
BE67S	10	<30	<5	10	15	5	150	30	15	100	<5	30	.5	<2	6
BE68S	7	30	<5	5	15	<5	150	30	<10	70	6	28	.4	<2	7
BE69S	10	<30	<5	7	20	5	150	30	10	50	<5	36	.5	<2	7
BE70S	7	<30	<5	5	15	<5	<100	15	<10	50	<5	23	.4	<2	10
BE71S	7	<30	<5	7	15	<5	100	15	<10	30	<5	36	.4	<2	8
BE72S	7	<30	<5	7	15	<5	150	30	<10	70	8	37	.4	<2	7
BE73S	20	30	<5	15	20	7	300	50	<10	100	5	59	.6	<2	2
BE74S	7	<30	<5	10	15	<5	200	30	<10	50	8	27	.4	<2	7
BE75S	<5	<30	<5	5	20	5	700	30	15	150	<5	18	.2	<2	<2
BE76S	<5	30	<5	<5	20	<5	700	10	<10	30	<5	15	<.1	<2	<2
BE77S	<5	70	<5	<5	15	<5	300	30	<10	150	<5	16	.2	<2	3
BE78S	15	70	<5	10	20	7	300	30	15	100	9	55	.6	<2	2
BE79S	7	150	<5	7	20	7	300	30	15	150	7	55	.4	<2	<2
BE80S	15	50	<5	15	20	5	300	50	15	100	8	51	.6	<2	3
BE81S	7	30	<5	7	20	5	300	30	15	150	7	43	.3	<2	<2
BE82S	20	30	7	30	20	7	500	70	15	150	14	91	.6	<2	3
BE83S	20	50	<5	30	20	10	200	100	20	100	16	68	.7	<2	<2
BE84CDS	15	50	<5	20	20	7	500	70	15	200	7	62	.4	<2	<2
BE85SDS	15	70	<5	15	30	7	300	70	20	150	6	64	.6	<2	<2
BE85XDS	15	70	<5	15	30	7	300	70	15	150	8	62	.5	<2	2

Table 3. Spectrographic and chemical analyses of -60 mesh stream-sediment samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
BE86S	38 41 17	115 25 5	1.5	.7	3.0	.20	300	<.5	10	1,500	1.5	5	15
BE87S	38 40 7	115 24 53	.7	3.0	15.0	.10	300	<.5	<10	300	<1.0	<5	15
BE88S	38 40 19	115 24 44	.7	5.0	10.0	.10	200	<.5	<10	700	<1.0	<5	15
BE89S	38 36 38	115 20 59	3.0	2.0	5.0	.30	500	<.5	10	700	1.5	7	50
BE90S	38 37 28	115 21 0	7.0	1.0	3.0	.50	700	<.5	<10	1,500	1.5	15	50
BE91S	38 38 14	115 21 0	1.5	.7	1.5	.20	300	<.5	15	700	1.5	7	30
BE92S	38 39 17	115 21 6	2.0	1.0	2.0	.30	700	<.5	20	1,000	1.5	7	20
BE93CDS	38 39 32	115 21 2	1.5	.7	1.5	.15	700	<.5	20	700	1.5	7	30
BE94SDS	38 39 32	115 21 5	2.0	.7	2.0	.20	1,000	<.5	20	1,500	1.5	5	20
BE94XDS	38 39 32	115 21 5	1.0	.7	1.5	.15	700	<.5	15	700	1.5	<5	<10
BE95S	38 41 2	115 23 1	1.0	5.0	7.0	.15	300	<.5	<10	700	1.0	<5	15
BE96S	38 40 34	115 23 55	1.5	2.0	3.0	.15	300	<.5	20	700	1.0	5	30
BE97S	38 39 18	115 23 38	1.0	3.0	10.0	.15	500	<.5	10	500	<1.0	<5	30
BE98S	38 38 14	115 24 24	.7	1.5	3.0	.10	150	<.5	10	500	1.5	<5	15
BE99S	38 38 34	115 23 59	.7	1.5	3.0	.15	300	<.5	20	500	1.0	7	20
BE100S	38 38 47	115 23 51	1.5	1.5	5.0	.20	500	<.5	20	700	1.0	5	30

Table 3. Spectrographic and chemical analyses of -60 mesh stream-sediment samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zr-ppm s	As-ppm icap	Zn-ppm icap	Cd-ppm icap	Bi-ppm icap	Sb-ppm icap
BE86S	5	50	<5	5	20	7	700	50	15	150	7	36	.4	<2	<2
BE87S	7	<30	<5	5	15	<5	150	20	10	50	10	18	.3	<2	7
BE88S	5	30	<5	5	15	<5	300	15	<10	30	<5	13	.2	<2	6
BE89S	15	30	<5	15	20	7	500	150	15	200	<5	48	.7	<2	2
BE90S	10	70	<5	15	20	10	700	200	20	300	8	58	.8	<2	<2
BE91S	5	150	<5	7	30	7	300	70	30	300	7	44	.4	<2	<2
BE92S	10	50	<5	10	20	7	700	70	15	150	<5	46	.4	<2	<2
BE93CDS	7	30	<5	7	30	7	300	30	15	100	5	54	.3	<2	<2
BE94SDS	7	70	<5	7	30	5	700	70	15	200	<5	36	.2	<2	<2
BE94XDS	5	30	<5	7	30	<5	500	20	15	100	<5	41	.3	<2	<2
BE95S	7	30	<5	7	15	<5	200	20	<10	70	<5	21	.4	<2	6
BE96S	10	70	<5	7	20	7	150	30	15	70	31	75	.7	<2	5
BE97S	20	30	<5	10	20	5	150	30	10	50	9	55	.5	<2	5
BE98S	5	70	<5	7	15	<5	300	30	10	50	11	26	.3	<2	3
BE99S	10	50	<5	15	15	<5	300	30	10	70	14	51	.5	<2	3
BE100S	15	30	<5	15	15	7	300	50	10	150	9	45	.5	<2	3

Table 4. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral concentrates from stream-sediment samples, Blue Eagle Wilderness Study Area, Nye County, 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	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
BE01	38 36 3	115 20 32	.50	7.00	20	.150	100	N	20	2,000	<2	N	N
BE02	38 35 17	115 21 16	1.50	.30	20	.500	300	N	30	>10,000	2	N	N
BE03	38 34 58	115 21 17	.50	5.00	20	.200	150	N	<20	300	2	N	N
BE04	38 35 2	115 21 27	1.50	.30	15	.300	300	N	20	1,000	3	N	N
BE05	38 27 44	115 28 57	.50	.70	>50	.700	30	N	100	50	2	100	N
BE06	38 28 2	115 29 0	.20	10.00	30	.200	70	N	30	<50	<2	N	N
BE07	38 28 7	115 29 1	.30	10.00	30	.200	70	N	<20	70	<2	N	N
BE08	38 34 46	115 29 29	.10	10.00	30	.050	30	N	<20	<50	<2	N	N
BE09CD	38 34 47	115 29 24	.15	10.00	30	.015	50	N	<20	100	<2	N	N
BE10SD	38 34 44	115 29 23	.30	15.00	30	.050	70	N	<20	70	<2	N	N
BE10XD	38 34 44	115 29 23	.20	10.00	30	.050	70	N	<20	150	<2	N	N
BE11	38 35 18	115 29 13	2.00	10.00	30	.200	700	N	<20	70	<2	N	30
BE12	38 34 25	115 30 16	1.00	10.00	30	.200	200	N	<20	700	<2	N	20
BE13	38 33 15	115 30 30	.20	10.00	50	.050	70	N	<20	<50	N	N	N
BE14	38 32 18	115 30 30	.70	15.00	30	.070	200	N	<20	<50	<2	N	N
BE15	38 31 51	115 30 20	.70	10.00	20	.300	150	N	20	1,500	<2	N	N
BE16	38 34 4	115 30 24	.30	10.00	50	.050	70	N	<20	<50	<2	N	N
BE17	38 34 47	115 27 12	.15	10.00	30	.100	100	3	30	1,500	<2	N	N
BE18	38 34 38	115 27 42	.20	10.00	30	.020	70	N	20	150	<2	N	N
BE19	38 35 37	115 28 15	.50	10.00	30	.150	70	N	<20	200	<2	N	N
BE20	38 36 18	115 28 44	.50	15.00	30	.100	200	N	<20	70	<2	N	N
BE21	38 36 51	115 28 34	.20	10.00	30	.020	100	N	<20	<50	<2	N	N
BE22	38 34 46	115 28 11	.70	10.00	30	.050	200	N	<20	70	<2	N	20
BE23	38 37 22	115 27 13	1.00	10.00	30	.150	200	N	20	300	<2	N	N
BE24	38 38 12	115 28 6	.20	10.00	20	.200	70	N	<20	70	<2	N	N
BE25	38 38 33	115 27 47	1.00	10.00	30	.200	100	N	20	1,000	2	N	N
BE26	38 41 3	115 27 5	.70	3.00	10	.300	200	N	30	2,000	2	N	N
BE27CD	38 40 12	115 27 1	.50	5.00	10	.200	200	15	30	700	2	N	N
BE28SD	38 40 11	115 27 2	.50	3.00	10	.200	150	N	50	700	2	N	N
BE28XD	38 40 11	115 27 2	.30	3.00	15	.200	70	N	20	700	2	N	N
BE29	38 27 42	115 26 56	.10	10.00	30	.070	50	N	<20	<50	N	N	N
BE30	38 27 37	115 26 52	.50	10.00	30	.030	50	N	<20	100	<2	N	N
BE31	38 27 23	115 27 22	.20	10.00	50	.100	70	N	20	<50	<2	N	N
BE32	38 27 47	115 28 18	.50	10.00	30	.300	200	N	150	200	<2	N	N
BE33CD	38 27 48	115 28 20	.30	15.00	30	.300	150	2	<20	300	<2	150	N
BE34SD	38 27 49	115 28 18	.50	5.00	20	.500	200	N	70	3,000	<2	N	N
BE34XD	38 27 49	115 28 18	3.00	5.00	30	.700	200	2	200	700	<2	N	20
BE35	38 27 50	115 28 38	.30	5.00	30	2.000	100	5	100	300	<2	50	N
BE36	38 26 49	115 29 43	1.00	5.00	30	.500	150	N	70	700	2	N	N
BE37	38 27 8	115 28 39	.70	2.00	30	2.000	300	N	200	200	<2	N	N
BE38	38 27 24	115 29 8	.50	2.00	20	>2.000	100	70	200	100	<2	700	N
BE39	38 27 38	115 24 11	1.00	5.00	30	.200	300	N	30	500	<2	N	N
BE40	38 28 17	115 23 56	1.00	1.50	30	.200	200	N	70	1,500	2	N	N
BE41	38 28 32	115 24 25	.70	1.50	7	.100	100	5	20	>10,000	<2	N	N
BE42	38 28 52	115 24 13	1.00	.50	30	.150	100	N	70	>10,000	3	N	N

Table 4. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral concentrates from stream-sediment samples, Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s
BE01	50	N	300	N	N	<20	N	N	N	300	70	N	200	N	>2,000
BE02	50	N	1,000	N	10	N	N	30	N	1,000	100	N	700	N	>2,000
BE03	20	N	150	N	N	<20	N	15	N	300	50	N	200	N	>2,000
BE04	30	N	700	N	N	N	N	70	N	700	100	N	500	N	>2,000
BE05	30	N	100	50	N	N	N	N	N	300	50	500	100	N	100
BE06	<20	N	100	N	N	50	N	N	N	N	50	N	<20	N	700
BE07	20	N	50	N	N	20	N	N	N	<200	30	N	<20	N	2,000
BE08	<20	N	N	N	N	N	N	N	N	<200	20	N	20	N	300
BE09CD	<20	N	N	N	N	N	N	N	N	<200	20	N	20	N	>2,000
BE10SD	<20	N	50	N	10	<20	N	N	N	N	30	N	<20	N	700
BE10XD	<20	N	<50	N	N	70	N	N	N	<200	30	N	<20	N	1,500
BE11	100	<10	100	N	30	70	N	N	N	N	70	N	30	N	2,000
BE12	70	<10	50	N	20	20	N	N	N	<200	50	N	20	N	300
BE13	<20	N	<50	N	<10	<20	N	N	N	N	20	N	<20	N	200
BE14	20	<10	50	N	N	<20	N	N	N	N	30	N	<20	N	1,000
BE15	<20	N	50	N	10	100	N	N	N	300	30	N	100	N	>2,000
BE16	20	N	150	N	<10	<20	N	N	N	N	30	N	<20	N	1,000
BE17	<20	10	<50	N	N	7,000	N	N	N	<200	300	N	20	20,000	>2,000
BE18	<20	<10	N	N	N	20	N	N	N	N	20	N	N	N	70
BE19	<20	N	<50	N	N	20	N	N	N	200	20	N	70	N	>2,000
BE20	30	N	70	N	N	20	N	N	N	N	20	N	20	N	>2,000
BE21	<20	N	N	N	N	N	N	N	N	<200	20	N	20	N	1,000
BE22	30	<10	50	N	10	50	N	N	N	N	30	N	<20	N	500
BE23	20	<10	<50	N	<10	50	N	N	N	<200	50	N	50	N	>2,000
BE24	20	N	70	N	N	150	N	N	N	<200	50	N	70	N	>2,000
BE25	30	150	150	N	N	150	N	10	N	200	70	N	100	1,000	>2,000
BE26	20	N	150	N	10	30	N	30	N	500	70	N	300	N	>2,000
BE27CD	<20	N	50	N	N	<20	N	15	N	500	30	N	200	N	>2,000
BE28SD	<20	N	100	N	<10	<20	N	15	N	500	50	N	200	N	>2,000
BE28XD	<20	N	70	N	N	N	N	15	N	500	50	N	150	500	>2,000
BE29	<20	N	N	N	N	50	N	N	N	N	20	N	N	N	20
BE30	<20	<10	N	N	N	<20	N	N	N	N	20	N	N	N	500
BE31	<20	N	<50	N	N	30	N	N	N	N	30	N	20	500	1,000
BE32	50	<10	50	N	10	300	N	N	N	300	70	N	30	500	>2,000
BE33CD	50	N	100	N	N	5,000	N	N	N	<200	500	100	20	N	1,500
BE34SD	30	10	150	N	N	3,000	N	N	N	500	300	300	100	500	>2,000
BE34XD	100	30	100	<50	15	7,000	N	N	N	500	500	1,000	100	N	2,000
BE35	100	N	300	100	N	2,000	N	10	N	500	200	300	100	N	>2,000
BE36	30	15	100	<50	N	500	N	N	N	500	200	N	100	N	>2,000
BE37	70	<10	70	200	N	20	N	N	<20	700	100	1,000	50	N	2,000
BE38	200	150	50	300	N	15,000	N	<10	70	700	200	7,000	100	N	2,000
BE39	50	<10	200	N	N	30	N	10	N	500	100	N	200	N	>2,000
BE40	100	10	1,000	N	10	50	N	15	N	1,000	150	N	700	N	>2,000
BE41	20	<10	50	N	<10	<20	N	N	N	2,000	50	N	50	N	2,000
BE42	100	30	1,000	N	15	50	N	10	N	2,000	100	N	500	N	>2,000

Table 4. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral concentrates from stream-sediment samples, Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
BE43	38 30 19	115 24 57	1.00	1.00	50	.100	100	2	50	3,000	3	N	N
BE44	38 30 43	115 25 18	.50	10.00	30	.200	200	N	20	70	<2	N	N
BE45	38 30 49	115 25 14	.50	10.00	30	.100	150	N	<20	500	N	N	N
BE46	38 30 7	115 27 20	.10	10.00	30	.050	50	10	<20	<50	N	N	N
BE47	38 30 37	115 26 49	.70	7.00	30	.070	150	N	<20	200	2	N	N
BE48	38 30 10	115 26 20	.20	10.00	30	.020	70	N	<20	70	N	N	N
BE49	38 30 40	115 26 25	1.00	3.00	30	.100	200	2	50	700	<2	N	N
BE50	38 31 12	115 25 32	1.00	7.00	30	.200	200	N	50	700	<2	N	N
BE51	38 33 6	115 26 13	1.00	.15	50	.070	300	N	30	200	5	N	N
BE52	38 33 10	115 26 13	.70	1.50	30	.300	300	N	100	300	5	N	N
BE53	38 33 18	115 26 59	2.00	2.00	30	.150	500	N	50	1,000	2	N	N
BE54	38 33 27	115 27 2	.50	10.00	30	.100	100	N	50	200	<2	N	N
BE55	38 34 49	115 25 39	.20	15.00	50	.100	100	N	<20	50	<2	N	N
BE56	38 36 19	115 25 39	.50	3.00	20	.150	500	N	70	>10,000	2	N	N
BE57	38 36 23	115 25 28	.70	15.00	30	.200	200	N	20	700	<2	N	N
BE58	38 36 47	115 24 48	.70	3.00	20	.300	1,000	N	20	>10,000	2	N	N
BE59	38 36 12	115 24 29	.50	.50	10	.700	500	N	30	300	3	N	N
BE61	38 35 42	115 23 59	.20	10.00	30	.100	70	3	<20	3,000	<2	N	N
BE62	38 34 48	115 22 28	.70	1.50	20	.200	300	N	20	1,000	2	N	N
BE63	38 41 47	115 26 6	.70	7.00	30	.300	500	N	70	>10,000	2	N	N
BE64	38 41 48	115 26 3	.70	1.50	10	1.000	300	N	100	500	3	N	N
BE64CD	38 41 48	115 26 3	.30	5.00	15	.200	200	N	50	10,000	2	N	N
BE65SD	38 41 48	115 26 3	.70	3.00	7	.500	500	N	100	5,000	2	N	N
BE65XD	38 41 48	115 26 3	1.00	5.00	20	.500	700	N	70	3,000	2	N	N
BE66	38 31 19	115 29 50	.50	10.00	50	.150	70	N	<20	<50	<2	N	N
BE67	38 30 24	115 29 20	.50	10.00	30	.700	100	N	50	200	<2	N	N
BE68	38 30 24	115 28 50	.30	15.00	50	.050	150	N	<20	70	<2	N	N
BE69	38 29 25	115 29 5	.30	10.00	30	.020	50	N	<20	50	<2	N	N
BE70	38 28 58	115 27 54	.20	10.00	30	.030	50	N	<20	700	<2	N	N
BE71	38 28 47	115 27 51	.30	10.00	50	.030	70	N	<20	50	<2	N	N
BE72	38 28 56	115 29 17	1.00	7.00	50	.500	50	N	<20	>10,000	2	N	N
BE73CS	38 29 47	115 29 53	.50	7.00	20	.500	200	N	50	500	2	N	N
BE74	38 39 26	115 25 52	.70	10.00	50	.100	150	N	<20	70	<2	N	N
BE75	38 39 48	115 26 3	1.00	10.00	30	.100	100	N	<20	500	<2	N	N
BE76	38 39 23	115 26 34	.30	3.00	10	.200	100	N	30	1,000	3	N	N
BE77	38 39 31	115 27 44	.50	15.00	30	.150	100	N	<20	300	<2	N	N
BE78	38 39 55	115 22 42	.50	7.00	20	.300	150	N	20	2,000	2	N	N
BE79	38 39 51	115 22 32	.70	1.50	7	.500	300	N	30	700	3	N	N
BE80	38 39 55	115 22 38	1.00	2.00	20	.300	300	N	50	10,000	2	N	N
BE81	38 38 45	115 23 34	.50	2.00	20	.300	500	2	50	500	2	N	N
BE83	38 38 53	115 23 29	.70	.50	10	.500	200	N	30	>10,000	2	N	N
BE84CD	38 38 54	115 23 27	1.00	1.00	10	.500	700	N	20	2,000	2	N	N
BE85CS	38 38 53	115 23 26	1.00	1.00	30	.500	300	N	70	>10,000	<2	N	N
BE85SD	38 38 53	115 23 26	.50	.70	7	.200	200	N	30	700	2	N	N
BE86	38 41 17	115 25 5	.70	2.00	7	.300	150	N	<20	3,000	3	N	N

Table 4. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral concentrates from stream-sediment samples, Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s
BE43	150	20	1,000	N	20	30	N	15	N	1,500	300	N	700	N	200
BE44	30	<10	70	N	N	30	N	N	N	200	50	N	100	N	>2,000
BE45	30	<10	200	N	<10	20	N	N	N	300	50	N	200	N	>2,000
BE46	<20	N	N	N	10	<20	N	N	N	N	20	N	<20	N	2,000
BE47	20	N	N	N	N	<20	N	N	N	<200	30	N	20	N	>2,000
BE48	<20	N	N	N	N	N	N	N	N	N	20	N	<20	N	500
BE49	100	15	1,000	N	15	70	N	10	N	1,000	200	N	700	N	2,000
BE50	100	10	500	N	<10	70	N	10	N	500	150	N	500	N	>2,000
BE51	100	15	1,000	N	20	20	N	20	N	1,000	200	N	1,000	N	1,000
BE52	100	<10	1,000	N	10	30	N	20	N	1,000	100	N	1,000	N	>2,000
BE53	100	20	1,000	N	30	20	N	15	N	1,000	200	N	700	N	>2,000
BE54	30	<10	100	N	N	20	N	N	N	300	70	N	100	N	>2,000
BE55	20	N	50	N	N	N	N	N	N	200	20	N	20	N	>2,000
BE56	<20	<10	500	N	N	20	N	N	N	1,000	30	N	200	5,000	>2,000
BE57	20	N	70	N	N	20	N	N	N	500	50	N	100	N	>2,000
BE58	20	N	300	N	N	<20	N	50	N	2,000	70	N	500	N	>2,000
BE59	<20	N	500	N	N	20	N	100	20	1,000	70	N	500	N	>2,000
BE61	50	<10	70	N	10	<20	N	N	N	500	30	N	100	N	>2,000
BE62	<20	N	300	N	10	30	N	10	N	1,000	50	N	300	N	>2,000
BE63	20	N	300	N	10	50	N	<10	N	500	50	N	100	N	>2,000
BE64	50	N	300	<50	N	N	N	30	N	1,000	100	N	500	N	>2,000
BE64CD	<20	N	100	N	10	N	N	20	N	500	50	N	300	N	>2,000
BE65SD	20	N	150	N	N	N	N	20	N	700	70	N	200	N	>2,000
BE65XD	70	N	300	<50	N	<20	N	30	N	500	100	N	200	N	>2,000
BE66	20	N	70	N	N	<20	N	N	N	<200	30	N	20	N	>2,000
BE67	20	N	70	70	N	<20	N	N	N	<200	30	N	50	N	2,000
BE68	20	N	N	N	20	20	N	N	N	N	30	N	<20	N	2,000
BE69	<20	N	N	N	N	<20	N	N	N	N	20	N	<20	N	200
BE70	<20	N	<50	N	N	N	N	N	N	N	30	N	N	N	200
BE71	20	N	<50	N	15	50	N	N	N	N	30	N	20	N	1,500
BE72	20	<10	70	N	N	100	N	<10	N	1,000	70	N	150	N	>2,000
BE73CS	20	N	50	N	N	100	N	20	N	300	100	N	200	N	>2,000
BE74	50	N	50	N	N	20	N	N	N	<200	30	N	<20	N	1,000
BE75	<20	N	<50	N	N	N	N	N	N	<200	20	N	70	N	>2,000
BE76	<20	N	100	N	20	20	N	10	N	1,000	20	N	150	N	>2,000
BE77	50	N	50	N	N	100	N	<10	N	<200	50	N	100	N	>2,000
BE78	50	N	70	N	N	150	N	20	N	300	70	N	200	N	>2,000
BE79	20	N	200	N	<10	N	200	100	N	700	100	N	700	700	>2,000
BE80	100	15	1,000	N	15	<20	N	20	N	1,500	100	N	500	N	>2,000
BE81	50	N	700	N	N	N	N	20	N	1,000	70	N	300	N	>2,000
BE83	30	N	200	N	N	<20	N	20	N	1,000	70	N	500	N	>2,000
BE84CD	20	N	200	N	N	N	N	50	20	1,000	50	N	500	N	>2,000
BE85CS	70	N	500	N	10	N	N	20	N	1,000	150	N	500	N	>2,000
BE85SD	<20	N	200	N	N	N	N	50	N	1,000	50	N	500	N	>2,000
BE86	<20	N	50	N	N	<20	N	30	N	700	50	N	300	N	>2,000

Table 4. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral concentrates from stream-sediment samples, Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
BE86XD	38 41 17	115 25 5	2.00	1.00	10	.500	500	N	50	2,000	2	N	N
BE87	38 40 7	115 24 53	.15	10.00	50	.070	70	N	<20	200	<2	N	N
BE88	38 40 19	115 24 44	.20	10.00	50	.100	100	N	50	100	<2	N	N
BE89	38 36 38	115 20 59	1.00	5.00	20	.300	300	N	50	700	2	N	N
BE90	38 37 28	115 21 0	.30	2.00	5	.200	70	N	20	500	3	N	N
BE91	38 38 14	115 21 24	.70	2.00	10	.500	300	N	50	700	2	N	N
BE92	38 39 17	115 21 6	.50	7.00	15	.300	200	N	20	200	2	N	N
BE93CD	38 39 32	115 21 2	2.00	2.00	7	.300	1,500	N	20	300	2	N	10
BE94SD	38 39 32	115 21 5	.70	1.50	20	.300	1,000	N	20	300	2	N	N
BE94XD	38 39 32	115 21 5	1.00	.70	20	.500	1,500	N	20	700	2	N	N
BE95	38 41 2	115 23 1	.30	10.00	30	.100	100	N	<20	3,000	<2	N	N
BE96CS	38 40 34	115 23 55	.30	5.00	10	.200	70	N	<20	300	2	N	N
BE97	38 39 18	115 23 38	1.50	5.00	20	.700	700	N	30	>10,000	2	N	N
BE98	38 38 14	115 24 24	.50	7.00	30	.150	150	N	20	2,000	2	N	N
BE99	38 38 34	115 23 59	.30	10.00	30	.150	150	N	<20	200	<2	N	N
BE100	38 38 47	115 23 51	.70	7.00	20	.500	200	N	20	1,500	<2	N	N

Table 4. Spectrographic analyses of the nonmagnetic fraction of heavy-mineral concentrates from stream-sediment samples, Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s
BE86XD	20	N	200	<50	N	30	N	50	N	700	100	N	500	N	>2,000
BE87	20	N	50	N	<10	<20	N	N	N	N	20	N	30	N	>2,000
BE88	30	N	<50	N	N	<20	N	N	N	N	20	N	30	N	>2,000
BE89	20	N	300	N	N	<20	N	20	50	700	50	N	300	N	>2,000
BE90	<20	N	70	N	<10	N	N	20	N	700	30	N	200	N	>2,000
BE91	50	N	300	N	10	100	N	30	N	700	150	N	500	1,500	>2,000
BE92	30	N	150	N	N	N	N	15	N	500	30	N	200	N	>2,000
BE93CD	50	N	700	N	15	N	N	10	N	500	100	N	150	N	>2,000
BE94SD	<20	N	700	N	N	N	N	10	N	1,500	30	N	200	N	>2,000
BE94XD	30	N	1,000	N	N	N	N	15	N	2,000	70	N	500	N	>2,000
BE95	<20	N	50	N	N	N	N	N	N	200	30	N	100	N	>2,000
BE96CS	<20	N	<50	N	N	N	N	70	N	200	50	N	500	N	>2,000
BE97	30	N	500	70	N	70	N	20	N	2,000	100	N	300	N	>2,000
BE98	30	<10	150	N	N	N	N	10	N	500	50	N	200	N	>2,000
BE99	20	N	50	N	N	N	N	N	N	<200	30	N	70	N	>2,000
BE100	50	N	150	N	N	20	N	30	N	700	50	N	200	N	>2,000

Table 5. Spectrographic and chemical analyses of rock samples from the Blue Eagle Wilderness Study Area, Nye County, 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	Be-ppm s
BE05	38 27 44	115 28 57	.150	7.000	1.50	<.002	150	<.5	<700	<15	<10	<20	<1.0
BE13	38 33 15	115 30 30	<.050	7.000	5.00	<.002	30	<.5	<700	<15	<10	<20	<1.0
BE21	38 36 51	115 28 34	.050	<.020	.07	.015	50	<.5	<700	<15	<10	30	<1.0
BE25	38 38 33	115 27 47	<.050	.300	.30	.002	30	<.5	<700	<15	<10	<20	<1.0
BE401	38 35 38	115 17 38	.700	.150	1.50	.070	150	<.5	<700	<15	10	500	1.0
BE402	38 35 12	115 17 30	.500	.150	>20.00	.007	300	<.5	<700	<15	<10	7	<1.0
BE403	38 35 12	115 17 36	.200	.100	7.00	.010	150	<.5	<700	<15	20	30	<1.0
BE404	38 35 13	115 17 37	.100	.070	20.00	.007	50	<.5	<700	<15	<10	15	<1.0
BE405	38 28 7	115 29 1	1.500	3.000	>20.00	.150	150	<.5	<700	<15	<10	150	<1.0
BE406	38 28 7	115 29 1	1.500	.070	.50	.015	20	.7	<700	<15	<10	70	<1.0
BE407	38 34 27	115 20 54	7.000	.200	3.00	.020	1,500	<.5	<700	<15	<10	150	<1.0
BE408	38 34 28	115 26 54	.150	7.000	>20.00	.030	70	<.5	<700	<15	<10	<20	<1.0
BE409	38 34 28	115 26 54	<.050	.700	>20.00	<.002	100	<.5	<700	<15	<10	<20	<1.0
BE410	38 27 34	115 28 46	10.000	2.000	3.00	.070	700	200.0	<700	<15	<10	150	<1.0
BE411	38 27 33	115 28 51	15.000	.200	.50	.100	30	70.0	<700	<15	<10	50	<1.0
BE412	38 27 33	115 28 33	.700	1.500	20.00	.050	100	<.5	<700	<15	<10	50	<1.0
BE413	38 27 31	115 28 33	1.500	1.000	10.00	.070	100	50.0	<700	<15	<10	70	<1.0
BE414	38 27 32	115 28 31	.700	1.500	10.00	.030	100	2.0	<700	<15	20	50	<1.0
BE415	38 27 32	115 28 31	1.500	1.500	15.00	.150	150	100.0	<700	<15	<10	150	<1.0
BE416	38 27 49	115 28 18	.700	3.000	>20.00	.100	150	<.5	<700	<15	10	100	<1.0
BE416	38 29 49	115 28 18	7.000	3.000	3.00	.700	500	<.5	<700	<15	<10	500	<1.0
BE417	38 27 49	115 28 18	.200	<.020	.30	<.002	10	<.5	<700	<15	<10	50	<1.0
BE418	38 30 27	115 25 7	.700	2.000	15.00	.070	100	<.5	<700	<15	<10	70	<1.0
BE418A	38 30 27	115 25 7	.300	.070	.15	.070	100	<.5	<700	<15	30	100	<1.0
BE419	38 30 27	115 25 7	.070	.700	>20.00	.007	30	<.5	<700	<15	<10	<20	<1.0
BE420	38 29 32	115 24 28	7.000	.100	1.00	.030	2,000	<.5	<700	<15	<10	150	<1.0
BE421	38 29 32	115 24 28	1.500	.150	.15	.030	30	<.5	<700	<15	15	70	<1.0
BE422	38 33 30	115 26 16	>20.000	.100	.30	.070	300	<.5	<700	<15	10	50	2.0
BE423	38 34 46	115 25 40	.300	.100	3.00	.020	50	<.5	<700	<15	10	50	<1.0
BE424	38 34 49	115 25 39	.150	1.500	15.00	.003	70	.5	<700	<15	<10	<20	<1.0
BE425	38 34 49	115 25 39	.050	7.000	>20.00	.007	30	<.5	<700	<15	<10	<20	<1.0
BE426	38 36 18	115 25 11	.300	.070	.70	.030	70	<.5	<700	<15	15	150	<1.0
BE427	38 36 18	115 25 11	.300	.050	.30	.030	50	<.5	<700	<15	10	70	<1.0
BE427	38 36 18	115 25 11	.100	.700	>20.00	.015	70	<.5	<700	<15	<10	30	<1.0
BE428	38 30 22	115 28 52	1.500	.070	.10	.030	30	<.5	<700	<15	10	50	<1.0
BE429	38 30 22	115 28 52	>20.000	.150	.20	.015	30	<.5	<700	<15	2,564	50	<1.0
BE430	38 29 0	115 29 21	.300	.500	1.50	.030	70	<.5	<700	<15	10	200	10.0
BE431	38 29 25	115 29 5	.100	1.500	1.50	.007	70	<.5	<700	<15	15	70	<1.0
BE432	38 29 10	115 29 24	.700	.200	.30	.050	30	<.5	<700	<15	10	150	5.0
BE433	38 29 47	115 29 53	.300	.200	3.00	.030	70	<.5	<700	<15	<10	70	1.5
BE434	38 29 47	115 29 53	.150	.300	20.00	.015	70	<.5	<700	<15	<10	20	<1.0
BE435	38 28 59	115 27 57	.070	.700	1.00	.003	15	<.5	<700	<15	<10	30	<1.0
BE436	38 28 58	115 27 54	.200	.070	1.50	<.002	150	<.5	<700	<15	<10	<20	<1.0
BE437	38 39 56	115 22 39	1.500	.100	2.00	.010	100	<.5	<700	<15	<10	700	1.5
BE438	38 39 56	115 22 39	.300	.150	7.00	.015	150	<.5	<700	<15	30	150	<1.0

Table 5. Spectrographic and chemical analyses of rock samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s
BE05	<30	<5	<10	<5	<30	5	<20	5	<10	<100	<5	<10	<100	<10
BE13	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
BE21	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
BE25	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
BE401	<30	<5	<10	<5	30	<5	<20	<5	30	<100	<5	<10	300	10
BE402	<30	<5	70	<5	<30	<5	<20	7	10	<100	<5	<10	300	15
BE403	<30	<5	15	7	<30	<5	<20	7	<10	<100	<5	<10	<100	<10
BE404	<30	<5	15	<5	<30	<5	<20	5	20	<100	<5	<10	300	<10
BE405	<30	7	50	7	<30	<5	<20	15	<10	<100	7	<10	2,000	50
BE406	<30	<5	<10	15	<30	70	<20	<5	10	<100	<5	<10	<100	<10
BE407	<30	5	30	10	<30	5	<20	30	10	<100	5	<10	100	70
BE408	<30	<5	15	5	<30	<5	<20	7	15	<100	<5	<10	100	10
BE409	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
BE410	700	5	30	700	<30	<5	<20	15	>20,000	200	<5	30	150	15
BE411	<30	<5	20	300	<30	<5	<20	<5	20,000	<100	5	20	<100	20
BE412	<30	<5	20	5	<30	<5	<20	7	20	<100	5	<10	700	15
BE413	70	7	15	300	<30	<5	<20	15	>20,000	<100	<5	10	300	15
BE414	<30	<5	15	70	<30	<5	<20	7	300	<100	<5	<10	150	10
BE415	70	5	30	500	<30	<5	<20	10	>20,000	<100	5	30	500	30
BE416	<30	<5	30	10	<30	<5	<20	7	30	<100	<5	<10	2,000	10
BE416	<30	30	15	30	<30	<5	<20	15	10	<100	30	<10	500	300
BE417	<30	<5	<10	10	<30	<5	<20	15	50	<100	<5	<10	<100	<10
BE418	<30	<5	30	10	<30	<5	<20	7	10	<100	5	<10	700	15
BE418A	<30	<5	15	7	<30	<5	<20	15	<10	<100	<5	<10	<100	15
BE419	<30	<5	15	<5	<30	<5	<20	<5	<10	<100	<5	<10	1,500	15
BE420	<30	<5	10	7	<30	<5	<20	10	<10	<100	5	<10	<100	30
BE421	<30	7	10	7	<30	<5	<20	15	<10	<100	<5	<10	<100	30
BE422	<30	15	15	5	<30	20	<20	50	<10	<100	7	<10	<100	70
BE423	<30	<5	<10	7	<30	<5	<20	5	<10	<100	<5	<10	<100	<10
BE424	<30	<5	<10	7	<30	<5	<20	<5	70	<100	5	<10	100	<10
BE425	<30	<5	15	<5	<30	<5	<20	<5	<10	<100	<5	<10	300	<10
BE426	<30	<5	15	10	<30	<5	<20	20	<10	<100	<5	<10	<100	10
BE427	<30	<5	<10	15	30	<5	<20	15	<10	<100	<5	<10	<100	<10
BE427	<30	<5	30	<5	<30	<5	<20	<5	<10	<100	<5	<10	700	15
BE428	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
BE429	<30	<5	<10	30	<30	10	<20	20	150	<100	<5	2,564	<100	70
BE430	<30	<5	15	7	<30	7	<20	5	<10	<100	<5	<10	<100	<10
BE431	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
BE432	<30	<5	10	7	<30	<5	<20	<5	<10	<100	<5	<10	<100	15
BE433	<30	<5	15	7	<30	<5	<20	10	20	<100	<5	<10	<100	10
BE434	<30	<5	10	<5	<30	<5	<20	5	<10	<100	<5	<10	150	<10
BE435	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
BE436	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	5	<10	<100	<10
BE437	<30	<5	10	7	<30	70	<20	10	<10	<100	<5	<10	100	100
BE438	<30	<5	10	7	<30	<5	<20	20	<10	<100	<5	<10	100	15

Table 5. Spectrographic and chemical analyses of rock samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm icap	Zn-ppm icap	Cd-ppm icap	Bi-ppm icap	Sb-ppm icap	Tl-ppm aa	Te-ppm aa
BE05	<50	<10	<200	10	N	--	<5	<2	.2	<2	12	--	--
BE13	<50	<10	<200	<10	<.05	--	<5	<2	<.1	<2	13	--	--
BE21	<50	<10	<200	30	N	--	<5	<2	.1	<2	<2	--	--
BE25	<50	<10	<200	15	N	--	<5	<2	<.1	<2	<2	--	--
BE401	<50	30	<200	100	N	--	<5	18	.2	<2	<2	--	--
BE402	<50	20	<200	<10	N	--	<5	27	.3	<2	<2	--	--
BE403	<50	<10	<200	10	<.05	--	<5	28	.3	<2	<2	--	--
BE404	<50	<10	<200	20	<.05	--	<5	25	.2	<2	<2	--	--
BE405	<50	10	<200	30	N	--	6	12	.4	<2	2	--	--
BE406	<50	<10	<200	15	<.05	--	150	4	.3	5	7	--	--
BE407	<50	20	<200	30	N	--	50	130	7.0	<2	2	--	--
BE408	<50	<10	<200	15	<.05	--	9	<2	.1	<2	9	--	--
BE409	<50	<10	<200	<10	<.05	--	<5	2	<.1	<2	<2	--	--
BE410	<50	<10	>10,000	30	.10	--	<5	32,000	460.0	<2	160	--	--
BE411	<50	<10	7,000	30	.10	--	150	4,900	34.0	<2	54	--	--
BE412	<50	<10	<200	20	N	--	9	8	.6	<2	4	--	--
BE413	<50	<10	10,000	20	2.10	--	33	9,600	71.0	<2	32	--	--
BE414	<50	<10	700	15	1.30	--	41	710	13.0	6	4	--	--
BE415	50	<10	5,000	30	3.40	--	23	4,700	85.0	<2	92	--	--
BE416	<50	15	<200	30	.15	--	<5	19	.4	<2	3	--	--
BE416	<50	30	<200	150	N	--	<5	80	1.0	<2	<2	--	--
BE417	<50	<10	<200	15	N	--	<5	15	.3	<2	2	--	--
BE418	<50	<10	<200	20	<.05	--	<5	16	.5	<2	<2	--	--
BE418A	<50	<10	<200	30	N	--	16	34	<.1	<2	2	--	--
BE419	<50	15	<200	15	<.05	--	<5	8	.2	<2	<2	--	--
BE420	<50	20	<200	20	N	--	14	6	1.7	<2	<2	--	--
BE421	<50	15	<200	200	N	--	<5	12	.2	<2	<2	--	--
BE422	<50	50	<200	20	N	--	12	44	7.5	6	<2	--	--
BE423	<50	<10	<200	<10	N	--	7	8	<.1	<2	<2	--	--
BE424	<50	<10	500	10	<.05	--	<5	130	1.2	<2	2	--	--
BE425	<50	<10	<200	<10	N	--	<5	<2	.2	<2	7	--	--
BE426	<50	<10	<200	15	N	--	8	43	.2	<2	3	--	--
BE427	<50	15	<200	20	N	--	16	30	<.1	<2	2	--	--
BE427	<50	15	<200	15	N	--	<5	10	.2	<2	<2	--	--
BE428	<50	<10	<200	150	N	--	9	72	.8	<2	<2	--	--
BE429	<50	<10	5,000	30	N	--	100	1,400	6.6	<2	<2	--	--
BE430	<50	<10	<200	20	<.05	--	19	13	.2	<2	3	--	--
BE431	<50	<10	<200	15	N	--	<5	<2	<.1	<2	<2	--	--
BE432	<50	<10	<200	15	N	--	51	9	.1	<2	4	--	--
BE433	<50	<10	<200	10	N	--	14	36	.1	<2	6	--	--
BE434	<50	<10	<200	10	N	--	6	11	.3	<2	2	--	--
BE435	<50	<10	<200	<10	N	--	<5	4	<.1	<2	<2	--	--
BE436	<50	<10	<200	<10	N	--	<5	3	<.1	<2	<2	--	--
BE437	<50	<10	<200	10	N	--	100	41	.7	<2	3	--	--
BE438	<50	<10	<200	15	N	--	33	44	.4	<2	<2	--	--

Table 5. Spectrographic and chemical analyses of rock samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
BE439	38 39 56	115 22 39	.200	.500	>20.00	.010	100	<.5	<700	<15	<10	30	<1.0
BE440	38 39 55	115 22 43	.500	.070	.20	.100	30	<.5	<700	<15	<10	150	1.5
BE441	38 39 47	115 22 32	1.500	.300	1.50	.150	200	<.5	<700	<15	<10	1,500	1.0
BE442	38 38 27	115 23 44	3.000	1.000	.50	.200	500	<.5	<700	<15	70	200	1.5
BE443	38 23 42	115 38 25	.100	.300	>20.00	.002	150	<.5	<700	<15	<10	200	<1.0
BE444	38 38 25	115 23 42	.150	.300	>20.00	<.002	150	<.5	<700	<15	<10	50	<1.0
BE445	38 38 26	115 23 39	2.000	.500	2.00	.300	300	<.5	<700	<15	<10	2,000	1.0
BE446	38 38 12	115 23 42	.500	.500	>20.00	.005	70	<.5	<700	<15	<10	30	<1.0
BE447	38 38 45	115 23 38	.150	.020	1.50	.010	30	.5	<700	<15	<10	700	1.0
BE448	38 38 49	115 23 37	.300	.070	.15	.070	50	<.5	<700	<15	15	100	<1.0
BE449	38 38 52	115 23 34	.150	.050	.20	.030	100	<.5	<700	<15	10	200	<1.0
BE450	38 38 54	115 23 33	.070	.030	.30	.003	70	.5	<700	<15	<10	150	<1.0
BE451	38 38 54	115 23 33	.500	.100	.15	.050	50	<.5	<700	<15	20	150	<1.0
BE452	38 38 54	115 23 33	.200	<.020	.30	.015	70	<.5	<700	<15	15	300	<1.0
BE453	38 40 58	115 24 50	1.000	.050	.50	.070	50	<.5	<700	<15	15	200	2.0
BE454	38 40 24	115 24 42	.070	.070	3.00	.007	70	<.5	<700	<15	50	150	3.0
BE455	38 40 24	115 24 42	.070	.150	10.00	<.002	500	<.5	<700	<15	10	70	<1.0
BE456	38 40 23	115 24 43	.150	<.020	.30	.005	50	<.5	<700	<15	100	150	1.5
BE457	38 40 23	115 24 43	.500	.150	.20	.100	30	<.5	<700	<15	30	150	1.0
BE458	38 40 7	115 24 53	.200	7.000	10.00	.015	30	<.5	<700	<15	<10	15	<1.0
BE459	38 40 28	115 24 2	.300	1.500	1.50	.020	15	2.0	<700	<15	10	300	<1.0
BE460	38 40 34	115 23 55	3.000	.700	1.50	.030	70	<.5	700	<15	<10	150	<1.0
BE461	38 38 18	115 24 32	.500	.020	.30	.007	70	<.5	<700	<15	<10	70	1.5
BE462	38 38 21	115 24 31	.700	<.002	.30	.020	150	<.5	<700	<15	<10	150	<1.0
BE463	38 38 23	115 24 32	.300	.020	.10	.030	50	<.5	<700	<15	10	100	<1.0
BE464	38 38 14	115 24 28	.300	<.020	.10	.030	70	<.5	<700	<15	<10	70	<1.0
BE465	38 38 13	115 24 26	1.500	.020	.15	.100	30	<.5	<700	<15	10	300	<1.0
BE466	38 38 12	115 24 27	20.000	.300	3.00	.030	2,000	<.5	<700	<15	10	200	<1.0
BE467	38 38 27	115 24 24	.150	.150	20.00	.015	100	<.5	<700	<15	<10	70	<1.0
BE468	38 38 27	115 24 29	.300	.030	.15	.030	30	<.5	<700	<15	10	200	<1.0
BE469	38 38 35	115 24 31	.700	1.000	20.00	.070	500	<.5	<700	<15	<10	100	<1.0
BE469	38 38 35	115 24 31	.150	.020	.70	.015	70	<.5	<700	<15	20	70	<1.0
BE470	38 38 37	115 24 32	<.001	.150	>20.00	<.002	150	<.5	<700	<15	<10	<20	<1.0
BE471	38 38 39	115 24 32	.150	.100	3.00	.007	30	<.5	<700	<15	<10	150	<1.0
BE476	38 40 58	115 24 50	<.050	.020	.10	.003	10	<.5	<700	<15	<10	<20	<1.0
NBE500	38 27 35	115 28 52	15.000	1.000	.20	.050	20	10.0	N	20	50	150	1.0
NBE501	38 27 36	115 28 52	1.000	3.000	10.00	.070	100	2.0	N	N	150	200	<1.0
NBE502	38 27 38	115 28 54	10.000	.500	5.00	.050	70	200.0	N	50	10	150	1.0
NBE503	38 27 40	115 28 35	1.500	2.000	5.00	.070	100	N	N	N	50	100	1.0
NBE510	38 38 20	115 24 34	5.000	.200	.30	.070	20	N	N	N	50	200	1.5
NBE511	38 38 25	115 24 40	1.000	.150	.30	.050	100	N	N	N	70	150	<1.0
NBE512	38 38 22	115 23 55	3.000	1.000	.70	.200	300	N	N	N	300	500	1.0
NBE513	38 38 35	115 24 25	.500	.100	1.50	.050	20	N	N	N	50	70	<1.0
NBE514	38 38 35	115 24 25	.500	.100	1.00	.050	20	N	N	N	50	100	<1.0
NBE515	38 38 40	115 23 52	.500	.100	.15	.050	10	N	N	N	30	500	1.0

Table 5. Spectrographic and chemical analyses of rock samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s
BE439	<30	<5	15	5	<30	5	<20	7	<10	<100	<5	<10	500	15
BE440	<30	<5	20	7	<30	15	<20	<5	<10	<100	<5	<10	150	30
BE441	<30	<5	<10	5	150	<5	<20	<5	20	<100	7	<10	500	20
BE442	<30	10	100	20	<30	5	<20	50	20	<100	10	<10	150	100
BE443	<30	<5	30	7	<30	<5	<20	<5	<10	<100	<5	<10	1,000	30
BE444	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	500	15
BE445	<30	5	<10	5	100	<5	<20	<5	20	<100	7	<10	500	50
BE446	<30	<5	<10	15	<30	5	<20	10	100	<100	<5	<10	200	20
BE447	<30	<5	15	<5	<30	70	<20	5	<10	<100	<5	<10	<100	30
BE448	<30	<5	10	5	<30	<5	<20	<5	<10	<100	<5	<10	<100	15
BE449	<30	<5	<10	7	<30	15	<20	<5	<10	<100	<5	<10	<100	15
BE450	<30	<5	<10	15	<30	30	<20	5	<10	<100	<5	<10	<100	70
BE451	<30	<5	20	20	<30	10	<20	10	<10	<100	<5	<10	<100	30
BE452	<30	<5	<10	7	<30	30	<20	7	<10	<100	<5	<10	<100	10
BE453	<30	<5	15	7	<30	5	<20	<5	<10	<100	<5	<10	<100	10
BE454	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	300	<10
BE455	<30	<5	<10	7	<30	<5	<20	<5	<10	<100	<5	<10	500	<10
BE456	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
BE457	<30	<5	<10	7	<30	<5	<20	<5	<10	<100	<5	<10	100	10
BE458	<30	<5	<10	<5	<30	<5	<20	5	10	<100	<5	<10	<100	<10
BE459	<30	<5	10	7	<30	<5	<20	<5	<10	<100	<5	<10	<100	10
BE460	<30	<5	15	7	<30	150	<20	15	<10	<100	<5	<10	<100	20
BE461	<30	<5	20	10	<30	<5	<20	10	10	<100	<5	<10	<100	20
BE462	<30	<5	10	7	<30	<5	<20	<5	<10	<100	<5	<10	<100	15
BE463	<30	<5	15	7	<30	5	<20	5	<10	<100	<5	<10	<100	15
BE464	<30	<5	10	10	<30	<5	<20	<5	<10	<100	<5	<10	<100	15
BE465	<30	<5	30	5	<30	<5	<20	5	<10	<100	<5	<10	<100	50
BE466	<30	10	15	10	<30	10	<20	15	<10	<100	5	<10	150	30
BE467	<30	<5	15	5	<30	7	<20	5	150	<100	<5	<10	300	<10
BE468	<30	<5	15	7	<30	15	<20	7	<10	<100	<5	<10	<100	<10
BE469	<30	<5	15	7	<30	<5	<20	5	10	<100	5	<10	700	15
BE469	<30	<5	<10	7	<30	<5	<20	7	<10	<100	<5	<10	<100	<10
BE470	<30	<5	15	<5	<30	<5	<20	<5	<10	<100	<5	<10	150	15
BE471	<30	<5	<10	7	<30	<5	<20	7	<10	<100	<5	<10	<100	<10
BE476	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
NBE500	N	20	N	700	20	N	N	20	5,000	N	N	N	N	100
NBE501	N	N	N	20	<20	N	N	N	500	N	N	N	300	30
NBE502	100	15	N	1,500	<20	7	N	20	>20,000	200	N	150	200	50
NBE503	N	N	N	15	<20	N	N	N	150	N	N	N	N	50
NBE510	N	N	100	20	<20	20	N	10	30	N	5	N	100	300
NBE511	N	10	20	10	<20	50	N	15	20	N	7	N	100	50
NBE512	N	10	500	50	50	7	N	70	20	N	N	N	100	100
NBE513	N	N	20	7	<20	N	N	5	15	N	N	N	N	20
NBE514	N	N	100	5	<20	N	N	N	10	N	N	N	N	100
NBE515	N	N	10	<5	<20	70	N	N	10	N	N	N	N	50

Table 5. Spectrographic and chemical analyses of rock samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm icap	Zn-ppm icap	Cd-ppm icap	Bi-ppm icap	Sb-ppm icap	Tl-ppm aa	Te-ppm aa
BE439	<50	15	<200	15	<.05	--	5	39	.4	<2	<2	--	--
BE440	<50	<10	<200	50	N	--	33	5	.1	<2	<2	--	--
BE441	<50	30	<200	200	N	--	<5	33	.2	<2	<2	--	--
BE442	<50	20	<200	70	N	--	9	130	1.1	<2	2	--	--
BE443	<50	<10	<200	<10	.05	--	<5	<2	.1	2	<2	--	--
BE444	<50	<10	<200	<10	<.05	--	<5	<2	.1	<2	<2	--	--
BE445	<50	20	<200	150	N	--	<5	49	.4	<2	<2	--	--
BE446	<50	<10	<200	10	N	--	13	13	.3	2	3	--	--
BE447	<50	<10	<200	15	N	--	12	10	.1	<2	3	--	--
BE448	<50	<10	<200	30	N	--	10	3	.1	<2	<2	--	--
BE449	<50	<10	<200	20	N	--	7	6	.1	<2	<2	--	--
BE450	<50	10	<200	10	N	--	<5	12	.1	<2	<2	--	--
BE451	<50	10	<200	30	N	--	14	34	.2	<2	2	--	--
BE452	<50	10	<200	20	N	--	<5	17	.2	<2	<2	--	--
BE453	<50	<10	<200	70	N	--	85	6	.2	<2	5	--	--
BE454	<50	<10	<200	30	N	--	19	<2	<.1	<2	<2	--	--
BE455	<50	<10	<200	<10	N	--	14	<2	.3	<2	<2	--	--
BE456	<50	<10	<200	30	N	--	31	<2	.2	<2	<2	--	--
BE457	<50	<10	<200	70	N	--	72	20	.3	<2	<2	--	--
BE458	<50	<10	<200	10	<.05	--	39	<2	.3	<2	16	--	--
BE459	<50	<10	<200	15	N	--	22	5	.3	<2	6	--	--
BE460	<50	10	<200	30	N	--	790	10	.3	<2	45	--	--
BE461	<50	<10	<200	<10	.05	--	8	23	.2	<2	<2	--	--
BE462	<50	<10	<200	15	N	--	11	4	.2	<2	2	--	--
BE463	<50	<10	<200	20	N	--	17	17	.1	<2	<2	--	--
BE464	<50	<10	<200	15	N	--	11	<2	.2	<2	3	--	--
BE465	<50	<10	<200	30	N	--	45	5	.3	<2	4	--	--
BE456	<50	10	<200	15	N	--	55	22	13.0	<2	<2	--	--
BE467	<50	<10	<200	<10	N	--	<5	29	.3	<2	3	--	--
BE468	<50	<10	<200	20	N	--	6	18	.1	<2	<2	--	--
BE469	<50	15	<200	30	N	--	<5	14	.3	<2	<2	--	--
BE469	<50	<10	<200	15	N	--	12	51	.2	<2	<2	--	--
BE470	<50	10	<200	<10	<.05	--	<5	23	.4	<2	<2	--	--
BE471	<50	<10	<200	<10	.25	--	16	37	.5	<2	2	--	--
BE476	<50	<10	<200	20	N	--	<5	<2	.2	<2	<2	--	--
NBE500	N	N	10,000	10	13.00	.12	N	>2,000	--	20	28	.30	.05
NBE501	N	N	N	20	.65	.04	N	580	--	N	N	.30	N
NBE502	1,000	10	5,000	15	19.00	.48	70	>2,000	--	N	110	.15	<.05
NBE503	N	10	N	10	.05	.04	180	60	--	N	20	.75	N
NBE510	N	10	N	20	N	.08	140	50	--	N	18	2.50	.05
NBE511	N	10	N	20	N	.76	60	45	--	N	20	1.80	N
NBE512	N	50	200	70	N	.24	40	310	--	N	8	1.70	N
NBE513	N	10	N	10	N	2.20	50	100	--	N	10	1.50	.05
NBE514	N	10	N	10	N	1.60	30	60	--	N	8	.75	N
NBE515	N	N	N	10	N	.04	10	15	--	N	10	.20	N

Table 5. Spectrographic and chemical analyses of rock samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
NBE516	38 38 40	115 23 52	.200	.100	.10	.050	10	N	N	N	30	200	1.5
NBE517	38 38 42	115 23 52	.300	.100	.05	.030	10	N	N	N	20	150	1.0
4BN002A	38 34 26	115 25 47	.700	.030	.70	.030	300	<.5	<700	<15	15	70	<1.0
4BN004A	38 34 48	115 25 12	.150	.300	>20.00	.002	50	<.5	<700	<15	<10	<20	<1.0
4BN005A	38 34 41	115 25 31	.700	.070	.30	.020	500	<.5	<700	<15	15	30	<1.0
4BN010A	38 34 13	115 25 21	<.050	7.000	5.00	<.002	30	<.5	<700	<15	<10	30	<1.0
4BN011A	38 34 13	115 21 14	.070	.030	3.00	.020	15	<.5	<700	<15	30	30	<1.0
4BN014A	38 34 18	115 25 51	.300	.030	.30	.030	30	<.5	<700	<15	15	30	<1.0
4BN021A	38 32 54	115 25 41	.700	<.020	1.00	.010	20	<.5	<700	<15	50	70	<1.0
4BN025A	38 32 36	115 25 48	.050	.700	15.00	.003	15	<.5	<700	<15	<10	<20	<1.0
4BN047A	38 35 28	115 24 38	.070	.200	20.00	.003	70	<.5	<700	<15	<10	<20	<1.0
4BN058A	38 35 51	115 24 44	.070	.500	20.00	<.002	30	<.5	<700	<15	<10	<20	<1.0
4BN062A	38 39 58	115 22 39	.700	.030	.70	.030	50	<.5	<700	<15	<10	300	1.5
4BN063A	38 39 30	115 23 15	.070	<.020	.10	.007	<10	<.5	<700	<15	<10	150	<1.0
4BN064A	38 39 3	115 23 50	.200	.020	.30	.007	50	<.5	<700	<15	20	70	<1.0
4BN065A	38 38 39	115 23 52	.150	.030	.30	.015	<10	<.5	<700	<15	<10	70	<1.0
4BN066A	38 38 38	115 24 14	.150	.030	1.00	.030	30	<.5	<700	<15	15	150	<1.0
4BN067A	38 38 40	115 24 19	.200	.030	.50	.030	10	<.5	<700	<15	15	70	<1.0
4BN068A	38 38 43	115 24 24	.200	.030	.70	.015	30	<.5	<700	<15	15	150	<1.0
4BN069A	38 38 39	115 24 26	.200	.020	.50	.015	15	<.5	<700	<15	15	100	<1.0
4BN069B	38 38 39	115 24 26	.300	.070	1.50	.030	20	<.5	<700	<15	15	150	<1.0
4BN070A	38 38 32	115 24 30	.150	.020	.50	.007	<10	<.5	<700	<15	<10	100	<1.0
4BN071A	38 38 30	115 24 35	.300	.070	.15	.030	30	<.5	<700	<15	10	100	<1.0
4BN072A	38 38 25	115 24 25	.200	.030	.10	.030	30	<.5	<700	<15	10	150	<1.0
4BN073A	38 38 27	115 24 21	.150	.020	.07	.020	15	<.5	<700	<15	<10	100	<1.0
4BN074A	38 38 31	115 23 45	.200	.030	.15	.030	15	<.5	<700	<15	10	150	<1.0
4BN075A	38 39 6	115 23 30	.150	.070	.15	.030	<10	<.5	<700	<15	<10	200	1.0
4BN076A	38 39 32	115 22 10	1.500	.300	2.00	.150	150	<.5	<700	<15	<10	3,000	1.0
4BN077A	38 39 27	115 22 4	1.500	.150	1.50	.300	150	<.5	<700	<15	15	2,000	1.5
4BN078A	38 39 27	115 21 59	.700	.300	1.50	.100	150	<.5	<700	<15	70	300	1.5
4BN079A	38 39 26	115 21 52	1.500	.700	.30	.150	300	<.5	<700	<15	10	1,500	1.5
4BN080A	38 39 23	115 21 35	.700	.150	.70	.070	300	<.5	<700	<15	30	150	1.5
4BN080B	38 39 23	115 21 35	.700	.200	.70	.070	150	<.5	<700	<15	20	300	1.5
4BN081A	38 39 55	115 21 44	.700	.300	1.50	.100	150	<.5	<700	<15	<10	1,000	1.5
4BN081B	38 39 55	115 21 44	.700	.150	1.50	.150	70	<.5	<700	<15	<10	1,000	1.0
4BN082A	38 39 58	115 21 39	.700	.700	1.50	.100	150	<.5	<700	<15	50	300	1.5
4BN083A	38 40 1	115 21 41	.700	.700	1.50	.070	300	<.5	<700	<15	30	700	1.5
4BN084A	38 39 55	115 21 35	.700	.300	1.00	.070	150	<.5	<700	<15	70	300	1.5
4BN085A	38 39 53	115 21 25	.700	.150	.70	.030	150	<.5	<700	<15	15	300	1.5
4BN086A	38 39 52	115 21 18	.700	.150	.70	.030	100	<.5	<700	<15	15	500	1.5
4BN087A	38 39 53	115 21 14	.700	.150	.50	.050	300	<.5	<700	<15	30	200	1.5
4BN088A	38 39 53	115 21 11	.700	.200	.50	.070	150	<.5	<700	<15	20	300	1.5
4BN089A	38 36 14	115 28 35	.050	<.020	.07	.002	15	<.5	<700	<15	<10	20	<1.0
4BN090A	38 36 23	115 28 34	<.050	5.000	5.00	<.002	15	<.5	<700	<15	<10	<20	<1.0
4BN091A	38 36 22	115 28 22	.070	.070	.20	.002	30	<.5	<700	<15	<10	30	<1.0

Table 5. Spectrographic and chemical analyses of rock samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s
NBE516	N	N	N	N	<20	20	N	N	10	N	N	N	N	20
NBE517	N	N	N	N	<20	50	N	N	10	N	N	N	N	20
4BN002A	<30	7	10	5	30	5	<20	20	<10	<100	<5	<10	<100	50
4BN004A	<30	<5	15	<5	<30	<5	<20	<5	<10	<100	<5	<10	200	<10
4BN005A	<30	<5	<10	<5	<30	<5	<20	15	<10	<100	<5	<10	<100	20
4BN010A	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	200	<10
4BN011A	<30	<5	15	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
4BN014A	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
4BN021A	<30	<5	10	7	<30	<5	<20	15	<10	<100	<5	<10	<100	10
4BN025A	<30	<5	15	<5	<30	<5	<20	<5	<10	<100	<5	<10	300	<10
4BN047A	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
4BN058A	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	300	<10
4BN062A	<30	<5	30	7	<30	7	<20	5	<10	<100	<5	<10	<100	30
4BN063A	<30	<5	<10	<5	<30	5	<20	7	<10	<100	<5	<10	<100	<10
4BN064A	<30	<5	<10	300	<30	15	<20	15	<10	<100	<5	<10	<100	<10
4BN065A	<30	<5	<10	<5	<30	10	<20	<5	<10	<100	<5	<10	<100	<10
4BN066A	<30	<5	<10	7	<30	<5	<20	30	<10	<100	<5	<10	<100	<10
4BN067A	<30	<5	<10	7	<30	<5	<20	7	<10	<100	<5	<10	<100	<10
4BN068A	<30	<5	<10	7	<30	<5	<20	7	<10	<100	<5	<10	<100	<10
4BN069A	<30	<5	<10	7	<30	<5	<20	10	<10	<100	<5	<10	<100	<10
4BN069B	<30	<5	<10	10	<30	<5	<20	20	<10	<100	<5	<10	<100	<10
4BN070A	<30	<5	<10	5	<30	<5	<20	7	<10	<100	<5	<10	<100	<10
4BN071A	<30	<5	<10	7	<30	<5	<20	7	<10	<100	<5	<10	<100	<10
4BN072A	<30	<5	10	<5	<30	5	<20	5	<10	<100	<5	<10	<100	<10
4BN073A	<30	<5	<10	<5	<30	<5	<20	7	<10	<100	<5	<10	<100	<10
4BN074A	<30	<5	<10	5	<30	10	<20	<5	<10	<100	<5	<10	<100	<10
4BN075A	<30	<5	<10	<5	<30	10	<20	<5	<10	<100	<5	<10	<100	70
4BN076A	<30	<5	<10	<5	150	<5	<20	<5	15	<100	5	<10	700	30
4BN077A	<30	<5	<10	<5	150	<5	20	<5	15	<100	7	<10	700	30
4BN078A	<30	<5	<10	<5	30	<5	<20	<5	15	<100	<5	<10	200	<10
4BN079A	<30	<5	<10	<5	<30	<5	<20	<5	20	<100	7	<10	<100	15
4BN080A	<30	<5	<10	<5	30	<5	<20	<5	30	<100	<5	<10	150	<10
4BN080B	<30	<5	<10	<5	50	<5	<20	<5	20	<100	<5	<10	200	10
4BN081A	<30	<5	<10	<5	70	<5	20	<5	20	<100	<5	<10	700	10
4BN081B	<30	<5	<10	<5	70	<5	<20	5	15	<100	<5	<10	300	15
4BN082A	<30	<5	<10	<5	50	<5	<20	<5	15	<100	<5	<10	200	15
4BN083A	<30	5	<10	<5	70	<5	<20	<5	15	<100	<5	<10	700	30
4BN084A	<30	<5	<10	<5	50	<5	<20	<5	15	<100	<5	<10	300	<10
4BN085A	<30	<5	<10	<5	50	<5	<20	<5	20	<100	<5	<10	150	<10
4BN086A	<30	<5	<10	<5	70	<5	<20	<5	20	<100	<5	<10	150	<10
4BN087A	<30	<5	<10	<5	30	<5	<20	<5	30	<100	<5	<10	200	<10
4BN088A	<30	<5	<10	<5	30	<5	<20	<5	20	<100	<5	<10	200	<10
4BN089A	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
4BN090A	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10
4BN091A	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	<100	<10

Table 5. Spectrographic and chemical analyses of rock samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm icap	Zn-ppm icap	Cd-ppm icap	Bi-ppm icap	Sb-ppm icap	Tl-ppm aa	Te-ppm aa
NBE516	N	N	N	10	N	.04	N	5	--	N	8	.10	N
NBE517	N	N	N	10	N	.06	N	5	--	N	8	.05	N
4BN002A	<50	15	<200	70	--	--	21	58	1.0	<2	<2	--	--
4BN004A	<50	<10	<200	<10	--	--	<5	8	.1	<2	<2	--	--
4BN005A	<50	15	<200	70	--	--	22	44	1.1	<2	<2	--	--
4BN010A	<50	<10	<200	<10	--	--	<5	<2	.1	<2	12	--	--
4BN011A	<50	<10	<200	<10	--	--	6	9	.3	<2	<2	--	--
4BN014A	<50	<10	<200	150	--	--	<5	12	.2	<2	<2	--	--
4BN021A	<50	<10	<200	20	--	--	54	86	.3	<2	<2	--	--
4BN025A	<50	<10	<200	15	--	--	<5	17	.3	<2	<2	--	--
4BN047A	<50	<10	<200	<10	--	--	6	11	.3	<2	<2	--	--
4BN058A	<50	<10	<200	<10	--	--	<5	<2	.1	<2	<2	--	--
4BN062A	<50	<10	<200	15	--	--	32	13	.3	<2	<2	--	--
4BN063A	<50	<10	<200	<10	--	--	12	29	.1	<2	<2	--	--
4BN064A	<50	<10	<200	<10	--	--	37	49	.2	<2	5	--	--
4BN065A	<50	<10	<200	<10	--	--	8	6	<.1	<2	<2	--	--
4BN066A	<50	<10	<200	<10	--	--	<5	30	<.1	<2	<2	--	--
4BN067A	<50	<10	<200	15	--	--	23	30	<.1	<2	2	--	--
4BN068A	<50	<10	<200	10	--	--	23	25	<.1	<2	<2	--	--
4BN069A	<50	<10	<200	10	--	--	18	30	<.1	<2	3	--	--
4BN069B	<50	10	<200	15	--	--	35	61	.2	<2	7	--	--
4BN070A	<50	<10	<200	<10	--	--	8	30	.1	<2	<2	--	--
4BN071A	<50	<10	<200	10	--	--	23	22	<.1	<2	<2	--	--
4BN072A	<50	<10	<200	15	--	--	7	18	<.1	<2	<2	--	--
4BN073A	<50	<10	<200	10	--	--	<5	15	<.1	<2	<2	--	--
4BN074A	<50	<10	<200	15	--	--	6	15	<.1	<2	<2	--	--
4BN075A	<50	<10	<200	10	--	--	<5	20	.1	<2	<2	--	--
4BN076A	<50	30	<200	100	--	--	<5	26	.2	<2	<2	--	--
4BN077A	<50	30	<200	150	--	--	8	32	<.1	<2	<2	--	--
4BN078A	<50	10	<200	150	--	--	<5	22	.1	<2	<2	--	--
4BN079A	<50	15	<200	50	--	--	<5	27	.2	<2	<2	--	--
4BN080A	<50	10	<200	50	--	--	<5	12	<.1	<2	<2	--	--
4BN080B	<50	<10	<200	70	--	--	6	23	.1	<2	<2	--	--
4BN081A	<50	15	<200	70	--	--	5	11	<.1	<2	<2	--	--
4BN081B	<50	15	<200	150	--	--	<5	11	.1	<2	<2	--	--
4BN082A	<50	15	<200	50	--	--	<5	12	.1	<2	<2	--	--
4BN083A	<50	10	<200	70	--	--	<5	36	.2	<2	<2	--	--
4BN084A	<50	10	<200	70	--	--	<5	17	.1	<2	<2	--	--
4BN085A	<50	15	<200	70	--	--	<5	26	.1	<2	<2	--	--
4BN086A	<50	15	<200	70	--	--	<5	22	.2	<2	<2	--	--
4BN087A	<50	<10	<200	70	--	--	<5	13	.1	<2	<2	--	--
4BN088A	<50	<10	<200	70	--	--	6	24	.1	<2	<2	--	--
4BN089A	<50	<10	<200	<10	--	--	<5	<2	<.1	<2	<2	--	--
4BN090A	<50	<10	<200	<10	--	--	<5	<2	<.1	<2	13	--	--
4BN091A	<50	<10	<200	50	--	--	<5	<2	<.1	<2	<2	--	--

Table 5. Spectrographic and chemical analyses of rock samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
4KL005A	38 34 26	115 25 58	7.000	.070	.30	.030	50	<.5	700	<15	<10	150	<1.0
4KL007A	38 34 5	115 26 32	<.050	.300	20.00	<.002	30	<.5	<700	<15	<10	<20	<1.0
4KL012A	38 33 54	115 26 13	1.000	.030	.15	.300	<10	1.5	<700	<15	15	300	<1.0
4KL013A	38 33 53	115 26 16	7.000	.070	1.00	.020	50	<.5	<700	<15	<10	300	1.5
4KL032A	38 32 18	115 26 40	.150	.500	>20.00	.010	30	<.5	<700	<15	<10	<20	<1.0
4KL074A	38 31 27	115 26 8	.300	.700	15.00	.030	30	<.5	<700	<15	15	30	<1.0
4KL092A	38 31 23	115 26 54	.150	.070	1.00	.015	70	<.5	<700	<15	15	50	<1.0
4KL144A	38 30 34	115 26 55	.500	1.000	15.00	.030	300	<.5	<700	<15	<10	70	<1.0
4SB002A	38 36 29	115 25 12	.300	.050	.30	.030	100	<.5	<700	<15	30	150	1.5
4SB006A	38 36 16	115 25 28	.070	.300	>20.00	.007	50	<.5	<700	<15	<10	<20	<1.0
4SB007A	38 34 49	115 26 28	.200	.070	1.00	.030	70	<.5	<700	<15	15	150	<1.0
4SB009A	38 34 25	115 26 57	.050	.700	>20.00	<.002	70	<.5	<700	<15	<10	<20	<1.0
4SB011A	38 34 31	115 26 18	.150	.050	>20.00	.020	30	<.5	<700	<15	50	20	<1.0
4SB015A	38 35 12	115 26 28	.150	.700	>20.00	.015	70	<.5	<700	<15	<10	<20	<1.0
4SB016A	38 34 44	115 25 38	1.000	.200	.30	.150	150	<.5	<700	<15	15	30	<1.0
4SB021A	38 35 0	115 25 33	.150	.500	>20.00	.020	70	<.5	<700	<15	<10	<20	<1.0
4SB021B	38 35 0	115 25 33	.150	.100	7.00	.010	50	<.5	<700	<15	<10	30	<1.0
4SB021C	38 35 0	115 25 33	<.050	.150	20.00	<.002	30	<.5	<700	<15	<10	<20	<1.0
4SB036A	38 36 1	115 25 4	<.050	7.000	7.00	<.002	30	<.5	<700	<15	<10	<20	<1.0
4SB038A	38 35 9	115 24 59	.700	3.000	3.00	.150	200	<.5	<700	<15	50	100	<1.0
4SB039A	38 35 10	115 25 1	1.000	.070	1.00	.150	30	<.5	<700	<15	15	300	<1.0
4SB068A	38 35 51	115 26 26	.300	.070	1.00	.030	70	<.5	<700	<15	15	70	<1.0
4SB071A	38 35 47	115 25 48	<.050	.700	>20.00	<.002	30	<.5	<700	<15	<10	<20	<1.0

Table 5. Spectrographic and chemical analyses of rock samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s
4KL005A	<30	<5	150	15	<30	7	<20	30	<10	<100	<5	<10	<100	700
4KL007A	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	150	<10
4KL012A	<30	<5	300	20	70	7	20	15	30	150	<5	<10	<100	150
4KL013A	<30	<5	300	70	30	10	<20	50	<10	<100	<5	<10	150	700
4KL032A	<30	<5	30	<5	<30	<5	<20	7	<10	<100	<5	<10	150	15
4KL074A	<30	<5	30	<5	30	<5	<20	7	<10	<100	<5	<10	200	15
4KL092A	<30	<5	<10	<5	<30	<5	<20	5	<10	<100	<5	<10	<100	<10
4KL144A	<30	<5	15	20	<30	<5	<20	5	<10	<100	<5	<10	150	15
4SB002A	<30	<5	70	300	<30	<5	<20	7	<10	<100	<5	<10	<100	30
4SB006A	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	700	10
4SB007A	<30	<5	<10	7	50	7	<20	5	<10	<100	<5	<10	<100	<10
4SB009A	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	150	<10
4SB011A	<30	<5	20	<5	<30	<5	<20	<5	<10	<100	<5	<10	500	15
4SB015A	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	150	10
4SB016A	<30	5	15	7	30	<5	<20	15	<10	<100	<5	<10	<100	15
4SB021A	<30	<5	15	<5	<30	<5	<20	<5	<10	<100	<5	<10	500	15
4SB021B	<30	<5	<10	7	<30	<5	<20	5	<10	<100	<5	<10	<100	15
4SB021C	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	100	<10
4SB036A	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	150	<10
4SB038A	<30	<5	70	20	30	<5	<20	15	<10	<100	5	<10	150	70
4SB039A	<30	<5	300	50	70	<5	<20	<5	15	150	5	<10	700	100
4SB068A	<30	<5	<10	15	30	<5	<20	15	10	<100	<5	<10	<100	10
4SB071A	<30	<5	<10	<5	<30	<5	<20	<5	<10	<100	<5	<10	100	<10

Table 5. Spectrographic and chemical analyses of rock samples from the Blue Eagle Wilderness Study Area, Nye County, Nevada--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm icap	Zn-ppm icap	Cd-ppm icap	Bi-ppm icap	Sb-ppm icap	Tl-ppm aa	Te-ppm aa
4KL005A	<50	<10	300	15	--	--	530	120	1.4	<2	8	--	--
4KL007A	<50	<10	<200	<10	--	--	<5	<2	.1	2	<2	--	--
4KL012A	<50	15	<200	150	--	--	24	26	.3	<2	<2	--	--
4KL013A	<50	<10	700	15	--	--	310	420	3.3	<2	9	--	--
4KL032A	<50	15	<200	10	--	--	<5	26	.4	<2	<2	--	--
4KL074A	<50	10	<200	70	--	--	<5	41	.4	<2	<2	--	--
4KL092A	<50	<10	<200	15	--	--	<5	12	.2	<2	<2	--	--
4KL144A	<50	<10	<200	30	--	--	<5	9	.2	<2	<2	--	--
4SB002A	<50	<10	<200	30	--	--	28	33	.1	<2	5	--	--
4SB006A	<50	<10	<200	10	--	--	<5	4	<.1	<2	<2	--	--
4SB007A	<50	<10	<200	15	--	--	12	17	.2	<2	<2	--	--
4SB009A	<50	<10	<200	<10	--	--	<5	<2	<.1	<2	<2	--	--
4SB011A	<50	<10	<200	15	--	--	8	13	.3	<2	<2	--	--
4SB015A	<50	<10	<200	15	--	--	<5	2	.1	<2	<2	--	--
4SB016A	<50	15	<200	300	--	--	6	23	.4	<2	<2	--	--
4SB021A	<50	<10	<200	15	--	--	6	19	.2	<2	<2	--	--
4SB021B	<50	<10	<200	15	--	--	5	9	.2	<2	<2	--	--
4SB021C	<50	<10	<200	<10	--	--	<5	7	.1	<2	<2	--	--
4SB036A	<50	<10	<200	<10	--	--	<5	<2	<.1	<2	14	--	--
4SB038A	<50	15	<200	100	--	--	22	47	.6	<2	6	--	--
4SB039A	<50	20	<200	70	--	--	51	9	.4	<2	3	--	--
4SB068A	<50	<10	<200	20	--	--	37	46	.2	<2	6	--	--
4SB071A	<50	<10	<200	<10	--	--	<5	<2	<.1	<2	<2	--	--

Appendix 1. Description of analyzed rock samples from Blue Eagle Wilderness Study Area, Nye County, Nevada

BE05R--Altered dolomite with Fe-Mn oxide coatings
BE13R--Gray dolomite
BE25R--Quartzite, brown weathering surfaces
BE401--Basal vitrophyre of felsic welded tuff
BE402--Hematitic red, recrystallized limestone
BE403--Brown chert derived from limestone
BE404--Limestone with cherty nodules
BE405--Calcite veined dolomite with iron oxides
BE406--Quartz with abundant Fe-Mn oxides, float near 405
BE407--Iron stained sandstone, float
BE408--Quartz-carbonate iron-oxide vein and breccia
BE409--Calcite vein in fault zone
BE410--Galena claim, sample from prospect pit with Fe-Pb-Cu sulfide and oxides
BE411--As above, another prospect pit, mostly oxides
BE412--Quartz vein with abundant Fe-oxides, prospect pit
BE413--Quartz-sulfide vein material from lower adit, Galena claim
BE414--Oxidized quartz-sulfide vein material, upper adit
BE415--As above, from stoped part of vein, upper adit
BE416--Mafic dike
BE417--Milky vein quartz with iron oxides, float
BE418--Altered buff colored limestone
BE418A--Silicified, pyritic zone in limestone
BE419--Calcite veined fossiliferous limestone
BE420--Fe-Mn oxide stained sandstone
BE421--Gray unaltered sandstone next to 420
BE422--Vuggy quartz vein in sandstone with iron oxides
BE423--Red and gray chalcedonic quartz, chert, or jasperoid, as float
BE424--Gray to pale red chalcedonic quartz, 1 to 3 inch lenses in limestone
BE425--Gray limestone
BE426--Gray to pale red cherty quartz
BE427--Gray limestone host rock to chert of 426
BE428--Brecciated quartzite with abundant iron oxides, float
BE429--Iron-oxide-rich float, some boxwork textures, float pieces up to 12 inches
BE430--Silicified limestone with iron oxide staining
BE431--Silicified limestone with iron oxides
BE432--Iron oxide stained silicified limestone
BE433--Gray silicified limestone
BE434--Gray slightly iron-stained limestone next to 433
BE435--Gray chert or jasperoid, abundant float from limestone bedrock
BE436--Iron stained quartz-calcite vein material
BE437--Silicified limestone with iron oxides, brecciated and massive
BE438--Silicified limestone (jasperoid) locally rich in iron oxides
BE439--Less altered limestone adjacent to 438
BE440--Brecciated, silicified limestone with heavy iron oxide staining
BE441--Altered pale yellow rhyolite
BE442--Black shale, Chainman?, chips from drill hole
BE443--Dense gray limestone with red iron-oxide stains
BE444--Calcite cemented breccia in limestone
BE445--Weakly altered gray ashflow tuff
BE446--Altered limestone at contact with rhyolite, silicified and stained by iron oxides

BE447--Gray silicified zone in limestone
BE448--Red-brown silicified zone in limestone (jasperoid)
BE449--Brecciated brown jasperoid
BE450--Milky white quartz veining in brown jasperoid
BE451--Brown jasperoid, brecciated, stained by iron oxides
BE452--Brown jasperoid, heavy iron-oxide stains
BE453--Brown jasperoid, float
BE454--Brown chert or jasperoid alteration of limestone
BE455--Gray silicified limestone adjacent to 454
BE456--Brown silicified zone 18 inches wide in limestone
BE457--Tan altered limestone adjacent to 456
BE458--Silicified limestone with iron staining
BE459--Silicified breccia with iron oxides in matrix
BE460--Silicified limestone, produces red soil
BE461--Brown jasperoid in limestone, heavy iron-oxide staining
BE462--Silicified breccia, abundant iron oxides
BE463--Chalcedonic silicification of limestone with abundant iron oxide
BE464--Large area of brown jasperoid near Blind Spring
BE465--As above, 150 ft from 464
BE466--As above, 100 ft from 465
BE467--Jasperoid, weathered orange-yellow
BE468--As above
BE469--Silicified breccia, cemented by gray silica
BE470--Recrystallized limestone near 469
BE471--Brown jasperoid
BE472--Brown silicified limestone breccia
NBE500--Vein quartz and iron oxide material from prospect pit, Galena claim
NBE501--Milky quartz and iron oxide vein material, dump from prospect pit
NBE502--Dump material with iron oxides and quartz veinlets
NBE503--Galena claim portal, vein material richest in iron oxides
NBE510--Blind Spring area, GM claimblock, red-brown silicified limestone
NBE511--Brown silicified limestone (jasperoid), not much iron oxide
NBE512--Cuttings rotary drill holes, chiefly black shale, below silicified zone
NBE513--Silicified limestone breccia, picked reddest parts (not much iron oxide)
NBE514--Silicified limestone breccia, picked red-orange parts
NBE515--Red-brown jasperoid with crosscutting milky quartz
NBE516--Red-brown jasperoid 100 ft N of 515
NBE517--Red-brown jasperoid and milky quartz cutting jasperoid, low iron oxide content
4BN002A--Tannish-white sandstone
4BN004A--Gray fossiliferous limestone
4BN005A--Tan to red weathering white sandstone
4BN010A--Light gray chalky limestone
4BN011A--Red silicified breccia in fault zone
4BN014A--Olive tan sandstone with calcite cement
4BN021A--Silicified breccia zone
4BN025A--Gray fossiliferous limestone with chert
4BN047A--Gray limestone with calcite veins
4BN058A--Chalky weathering, olive-gray limestone
4BN062A--Tan to dark red breccia of silicified limestone
4BN063A--Bright to dull-earthy red, recemented breccia of silicified limestone
4BN064A--Dark red to gray jasperoid breccia

4BN065A--Gray to red brecciated jasperoid
4BN066A--Dark to bright red silicified limestone
4BN067A--Red jasperoid breccia with vugs and calcite cement
4BN068A--Gray to dark red jasperoid
4BN069A--Bright to dark-earthy red jasperoid breccia
4BN069B--Yellow to red jasperoid
4BN070A--Breccia of blood red jasperoid and gray limestone
4BN071A--Red jasperoid
4BN072A--Dull red to orange cryptocrystalline jasperoid
4BN073A--Red to orange jasperoid
4BN074A--Red jasperoid breccia with calcite veins and manganese stains
4BN075A--Tan to red jasperoid
4BN076A--Light gray porphyritic rhyolite
4BN077A--Brick-red volcaniclastic conglomerate
4BN078A--Buff to tannish pink porphyritic rhyolite
4BN079A--Light red porphyritic welded tuff
4BN080A--Black obsidian
4BN080B--Red rhyolite
4BN081A--
4BN081B--Volcaniclastic conglomerate
4BN082A--Pale green crystal-lithic tuff
4BN083A--Olive-green volcaniclastic sandstone
4BN084A--Buff crystal-lithic rhyolite
4BN085A--Pink to red crystal-lithic rhyolite
4BN086A--Pink crystal-lithic ignimbrite
4BN087A--Black densely welded ignimbrite
4BN088A--Red crystal-lithic tuff
4BN089A--Light gray fractured quartzite
4BN090A--Dark gray brecciated dolomite with calcite veins in fractures
4BN091A--Light gray fractured quartzite
4KL005A--Tan to red brecciated jasperoid with manganese staining and Fe-oxides in vugs
4KL007A--Dark gray fossiliferous limestone
4KL012A--Tan-orange or green silicified shale
4KL013A--Reddish-black brecciated jasperoid with vuggy Fe-oxides and Mn-oxides
4KL032A--Yellowish-red limestone with chert
4KL074A--Pinkish-yellow weathering argillaceous limestone
4KL092A--Silicified limestone breccia with Fe-oxides in veins
4KL144A--Orange-olive phyllitic limestone with pyrite
4SB002A--Reddish-ochre jasperoid
4SB006A--Light gray fossiliferous limestone
4SB007A--Refractured jasperoid rib
4SB009A--Gray fossiliferous limesstone with calcite veins
4SB011A--Yellowish-red weathering afgillaceous limestone
4SB015A--Dark gray fossiliferous limestone with calcite veins in fractures
4SB016A--Yellowish-olive fine-grained sandstone
4SB021A--Red weathering gray limestone
4SB021B--Bright red jasperoid breccia
4SB021C--Gray limestone
4SB036A--Chalky white limestone
4SB038A--Yellowish-tan weathering, dark gray siltstone
4SB039A--Scarlet-brown-green jasperoid at fault contact
4SB068A--Anastomosing jasperoid in brecciated limestone
4SB071A--Dark gray limestone