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GEOLOGICAL SURVEY

Analytical results and sample locality map
of stream-sediment, heavy-mineral-concentrate, and rock samples
from the New Water Mountains Wilderness Study Area,
La Paz County, Arizona

By

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

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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 values, if any. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a geochemical survey of the New Water Mountains Wilderness Study Area (AZ-020-125), La Paz County, Arizona.

INTRODUCTION

In 1984 and 1985, the U.S. Geological Survey conducted a reconnaissance geochemical survey of New Water Mountains Wilderness Study Area, La Paz County, Arizona.

The part of the study area on which surveys were conducted comprises about 21,680 acres (34 mi²) (87 km²) in the La Paz County, Arizona, and lies about 11 mi (18 km) east-southeast of Quartzsite. Access to the study area is provided on the south by a pipeline road which intersects U.S. 95 approximately 5.5 mi south of Quartzsite and on the north by several dirt roads leading south from Interstate 10. Much of the area is inaccessible except by foot. Throughout this report, "study area" and "wilderness study area" refer only to the part of the study area mentioned above.

Most of the eastern two-thirds of the study area is underlain by Tertiary volcanic rocks. In the western third of the area, Mesozoic sedimentary rocks are exposed on the flanks of Black Mesa, which is capped by basalt of Tertiary and (or) Quaternary age.

The topographic relief in the study area is about 2,000 ft (610 m) with a maximum elevation of 3,639 ft (1,109 m) at the top of Black Mesa. The eastern border of the study area is marked by a narrow, steep-walled, and sharp-crested ridge dissected by numerous washes on both flanks. The central part of the study area consists of a poorly defined group of rounded hills and short ridges separated by dendritic washes. The topography of the western part of the study area is dominated by Black Mesa. The climate is arid to semiarid.

METHODS OF STUDY

Sample Media

Analyses of the stream-sediment samples represent the chemistry of the rock 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 mineralization. Heavy-mineral-concentrate samples provide information about the chemistry of certain minerals in rock material eroded from the drainage basin upstream from each sample site. The selective concentration of minerals, many of which may be ore related, permits determination of some elements that are not easily detected in stream-sediment samples.

Analyses of unaltered or unmineralized rock samples provide background geochemical data for individual rock units. On the other hand, analyses of altered or mineralized rocks, where present, may provide useful geochemical information about the major- and trace-element assemblages associated with a mineralizing system.

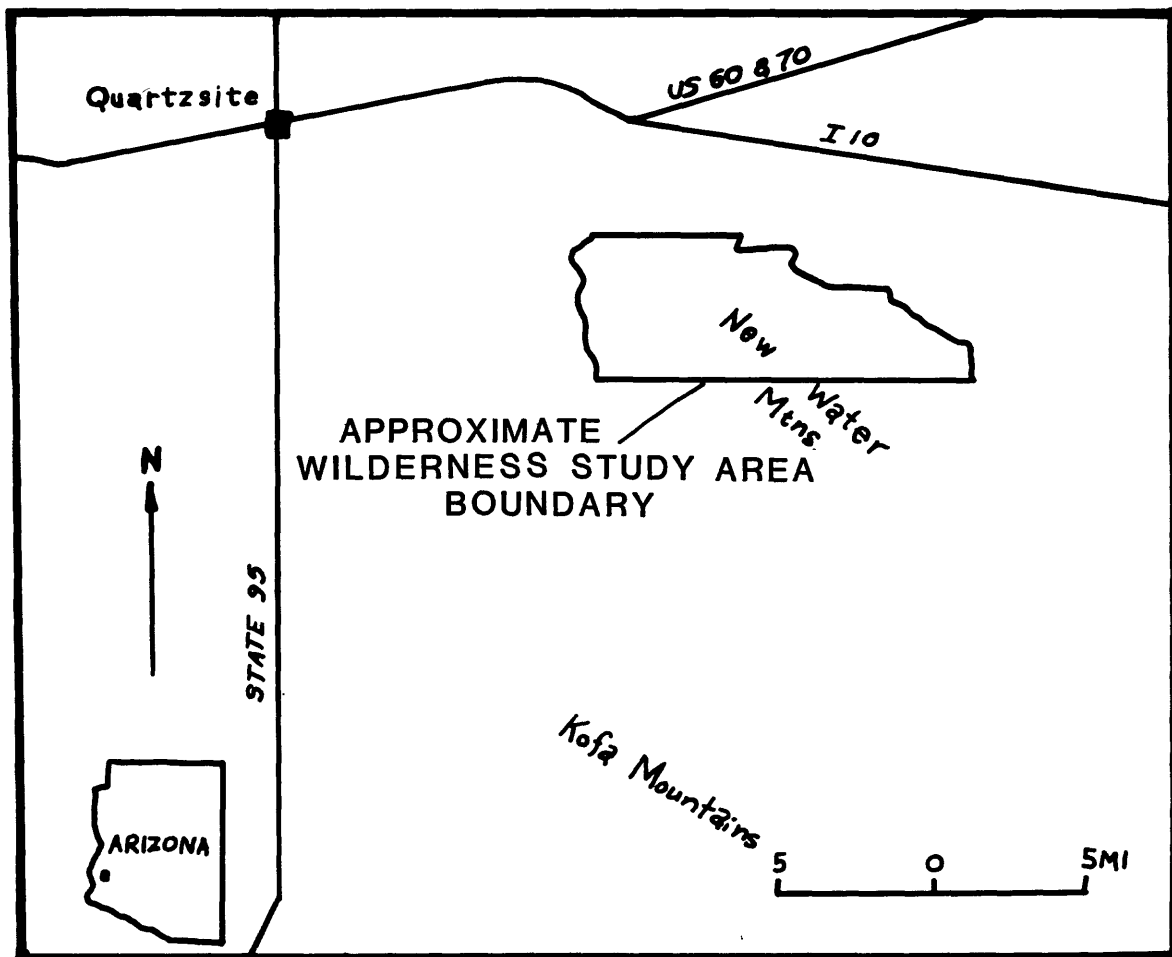


Figure 1. Location map of the New Water Mountains Wilderness Study Area, La Paz County, Arizona.

Sample Collection

Sediment samples were collected at 127 sites (plate 1). At nearly all of those sites, both a bulk stream-sediment sample and a heavy-mineral-concentrate sample were collected. The area of the drainage basins sampled ranged from 0.5 mi² to 5 mi². One hundred thirty rock samples were collected at 46 sites.

Stream-sediment samples

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 = 1:62,500). Each sample was composited from several localities within an area that may extend as much as 20 ft from the site plotted on the map.

Heavy-mineral-concentrate samples

Heavy-mineral-concentrate samples were collected from the same active alluvium as the stream-sediment samples. Each bulk sample was screened with a 2.0-mm (10-mesh) screen to remove the coarse material. The less than 2.0-mm fraction was panned until most of the quartz, feldspar, organic material, and clay-sized material were removed.

Rock samples

Rock samples were collected from outcrops or exposures in the vicinity of the plotted site location. Samples collected represent both unaltered and altered/mineralized rocks. Table 6 gives a brief description of the rock samples.

Sample Preparation

Stream-sediment samples

The stream-sediment samples were air dried, then sieved using 80-mesh (0.17-mm) stainless-steel sieves. The portion of the sediment passing through the sieve was saved for analysis.

Heavy-mineral-concentrate samples

After air drying, bromoform (specific gravity 2.8) was used to remove the remaining quartz and feldspar from the heavy-mineral-concentrate samples that had been panned in the field. The resultant heavy-mineral sample was separated into three fractions using a large electromagnet (in this case a modified Frantz Isodynamic Separator). The most magnetic material, primarily magnetite, was not analyzed. The second fraction, largely ferromagnesian silicates and iron oxides, was saved for archival storage. The third fraction (the least magnetic material which may include the nonmagnetic ore minerals, zircon, sphene, etc.) was split using a Jones splitter. One split was hand ground for spectrographic analysis; the other split was saved for mineralogical analysis. These magnetic separates are the same separates that would be produced by using a Frantz Isodynamic Separator set at a slope of 15° and a tilt of 10° with a current of 0.2 ampere to remove the magnetite and

ilmenite, and a current of 06 ampere to split the remainder of the sample into paramagnetic and nonmagnetic fractions.

Rock samples

Rock samples were crushed and then pulverized to minus 0.15 mm with ceramic plates.

Sample Analysis

Spectrographic method

The heavy-mineral-concentrate and rock samples were analyzed for 31 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their lower limits of determination are listed in table 1. 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 interval at the 83 percent confidence level and plus or minus two reporting intervals 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). Analytical data for samples from the New Water Mountains Wilderness Study Area are listed in tables 3-5.

Chemical methods

Other methods of analysis used on samples from the New Water Mountains WSA, are summarized in table 2.

Analytical results for stream-sediment, heavy-mineral-concentrate, and rock samples are listed in tables 3, 4, and 5, respectively.

ROCK ANALYSIS STORAGE SYSTEM

Upon completion of all analytical work, the analytical results were entered into a computer-based file called Rock Analysis Storage System (RASS). This data base contains both descriptive geological information and analytical data. Any or all of this information may be retrieved and converted to a binary form (STATPAC) for computerized statistical analysis or publication (VanTrump and Miesch, 1977).

DESCRIPTION OF DATA TABLES

Tables 3-5 list the results of analyses for the samples of stream sediment, heavy-mineral concentrate, and rock, respectively. For the three tables, 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 maps (plate 1). Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic analyses; "aa"

indicates atomic absorption analyses; "inst" indicates an instrumental technique; "cm" indicates colorimetric analyses; and "si" indicates specific ion analyses. 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 table 1. 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 tables 3-6 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 in these tables (Fe, Mg, Ca, Ti, Ag, and Be) 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.

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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 based on a 5-mg sample, and are therefore two reporting intervals higher than the limits given for rocks and stream sediments]

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

TABLE 2.--Chemical methods used

[AA = atomic absorption; FAA = flameless atomic absorption;
I = instrumental; SI = specific ion; CM = colorimetric;
and F = fluorometry]

Element or constituent determined	Sample type	Method	Determination limit (micrograms/gram or ppm)	Reference
Gold (Au)	sediments	FAA	0.002-0.008	Meier, 1980.
Gold (Au)	rocks	AA	0.05	Hubert and Chao, 1985.
Indium (In)		AA	0.05	
Tellurium (Te)	rocks	AA	0.05	
Thallium (Tl)	rocks & sediments	AA	0.1 or 0.2	
Mercury (Hg)	rocks & sediments	I	0.02	<u>Modification of</u> McNerney and others, 1972, and Vaughn and McCarthy, 1964.
Arsenic (As)	rocks & sediments	AA	5 or 10	O'Leary and Viets, 1986.
Antimony (Sb)	rocks & sediments	AA	2	
Zinc (Zn)	rocks & sediments	AA	5	
Bismuth (Bi)	rocks	AA	1	
Cadmium (Cd)	rocks	AA	0.1	
Silver (Ag)	sediments	AA	0.05	
Fluorine (F)	rocks	SI	100	Hopkins, 1977.
Tungsten (W)	rocks	CM	0.5	Welsch, 1983.
Uranium (U)	rocks	F	0.05	<u>Modification of</u> Centanni and others, 1956.

TABLE 3-- ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE NEW WATER MOUNTAINS BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.

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

Sample	Latitude	Longitude	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Ag-ppm aa	Sb-ppm aa	Au-ppm aa	Tl-ppm aa
KR001S	33 34 57	114 5 17	.02	10	40	.25	N	<.002	.35
KR002S	33 34 54	114 5 14	.02	N	45	<.05	N	.002	.40
KR003S	33 34 14	113 57 43	.02	N	50	.15	N	<.002	.45
KR004S	33 34 19	113 57 36	.02	10	40	.05	N	<.002	.30
KR005S	33 33 37	113 57 11	.04	N	65	N	N	.002	.40
KR006S	33 33 54	113 56 45	N	N	50	N	N	N	.40
KR007S	33 33 24	113 56 6	.02	10	40	N	4	N	.40
KR008S	33 33 47	113 55 31	.02	N	50	N	N	N	.30
KR009S	33 33 58	113 55 58	.04	N	55	N	N	N	.20
KR010S	33 34 1	113 55 51	N	N	55	N	N	.002	.25
KR013S	33 37 29	114 1 50	N	30	55	<.05	N	<.002	.40
KR014S	33 38 47	114 3 6	N	10	50	N	N	<.002	.25
KR015S	33 37 6	114 1 44	.02	N	55	N	N	N	.30
KR016S	33 37 4	114 1 38	.04	20	80	.10	2	<.002	.20
KR017S	33 37 56	114 0 58	N	10	65	N	N	<.002	.35
KR018S	33 37 54	114 0 11	N	20	70	N	N	<.003	.25
KR019S	33 33 13	113 58 57	.02	10	45	N	N	<.002	.40
KR020S	33 33 0	113 58 38	N	N	45	N	N	N	.35
KR021S	33 33 26	113 59 35	N	10	50	N	N	N	.30
KR022S	33 33 37	114 0 40	.02	10	50	<.05	N	<.002	.40
KR023S	33 34 37	114 1 36	N	N	45	N	N	.058	.35
KR024S	33 34 34	114 1 43	N	N	50	<.05	N	N	.40
KR025S	33 33 56	114 1 21	.02	10	55	.05	N	.006	.40
KR026S	33 33 50	114 1 31	N	N	55	N	N	<.002	.35
KR027S	33 34 36	114 2 34	.02	10	55	N	N	<.002	.30
KR028S	33 34 35	114 3 0	N	10	55	N	N	<.002	.30
KR029S	33 35 19	114 2 35	.04	10	270	.35	4	.002	.30
KR030S	33 35 47	114 3 16	N	20	55	N	N	N	.35
KR031S	33 36 13	114 3 23	N	20	50	N	N	N	.25
KR032S	33 32 32	113 58 26	N	20	50	N	N	<.002	.30
KR033S	33 32 13	113 57 46	.02	N	45	<.05	N	N	.15
KR034S	33 31 18	113 56 21	.02	N	55	.05	N	<.002	.30
KR035S	33 31 28	113 55 29	.02	10	50	<.05	6	N	.25
KR036S	33 31 24	113 54 44	N	N	55	.05	N	<.002	.30
KR037S	33 31 32	113 54 21	N	N	60	.05	N	<.002	.40
KR038S	33 32 8	113 53 57	.02	20	60	.10	6	<.002	.55
KR039S	33 32 57	113 55 51	N	30	85	N	26	<.002	.45
KR040S	33 33 4	113 55 51	N	30	35	<.05	4	<.004	.30
KR041S	33 33 11	113 55 1	.02	10	60	.05	N	<.002	.30
KR042S	33 33 8	113 54 43	N	10	65	.05	N	N	.30
KR043S	33 32 53	113 53 51	N	N	45	<.05	N	N	.30
KR044S	33 34 26	113 54 19	N	N	45	<.05	N	<.002	.30
KR045S	33 31 8	113 48 34	N	10	45	<.05	N	.002	.35
KR046S	33 31 17	113 49 7	N	10	90	<.05	N	<.002	.45
KR047S	33 31 28	113 49 28	N	10	65	<.05	N	N	.25

TABLE 3-- ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE NEW WATER MOUNTAINS BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

Sample	Latitude	Longitude	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Ag-ppm aa	Sb-ppm aa	Au-ppm aa	Tl-ppm aa
KR048S	33 31 41	113 49 57	.06	N	40	.05	N	N	.20
KR049S	33 31 44	113 50 21	.02	10	40	.05	N	.004	.20
KR050S	33 31 57	113 50 38	.02	10	50	.05	N	.002	.25
KR051S	33 32 19	113 51 10	.04	10	60	.15	N	.002	.25
KR052S	33 32 36	113 51 30	.02	10	55	.05	N	.002	.25
KR053S	33 32 57	113 51 53	.02	10	50	.05	N	<.002	.25
KR055S	33 33 19	113 52 33	.02	20	50	.10	N	<.002	.20
KR056S	33 33 21	113 52 26	.04	10	50	.10	N	<.002	.30
KR057S	33 33 23	113 52 52	.02	10	50	.05	N	<.002	.20
KR058S	33 36 44	113 55 40	.02	N	60	.05	N	.002	.20
KR059S	33 36 10	113 55 27	.02	N	90	.10	N	.002	.15
KR060S	33 36 9	113 55 21	.02	20	160	.05	N	<.002	.25
KR061S	33 36 27	113 54 23	.06	20	120	.05	N	.002	.35
KR062S	33 36 18	113 53 46	.06	20	140	.05	N	<.002	.55
KR063S	33 35 51	113 52 56	.02	20	220	.10	N	<.002	.45
KR064S	33 35 3	113 52 15	.06	10	220	.15	N	<.002	.25
KR065S	33 34 27	113 59 29	.02	10	130	<.05	N	N	.25
KR066S	33 34 13	113 50 54	.02	10	65	.05	N	N	.20
KR067S	33 33 43	113 50 11	.04	20	60	.05	N	.006	.30
KR068S	33 32 53	113 48 59	N	10	45	N	N	<.002	.20
KR069S	33 32 13	113 48 27	.02	10	50	.05	N	<.008	.20
KR070S	33 33 34	113 53 40	.02	N	100	.05	N	.004	.20
KR071S	33 33 38	113 53 16	.02	10	55	N	N	N	.25
KR072S	33 33 36	113 53 4	.02	10	60	.05	N	<.002	.20
KR073S	33 36 58	113 56 41	.02	10	85	<.05	N	N	.15
KR074S	33 37 4	113 57 1	.02	10	65	.05	N	N	.25
KR076S	33 36 56	113 59 7	N	10	50	N	N	<.002	.30
KR077S	33 37 45	113 58 57	N	10	50	.05	N	.002	.35
KR078S	33 37 36	113 58 58	.02	10	55	.05	N	.002	.35
KR079S	33 38 24	113 58 29	.02	10	70	.15	N	<.008	.40
KR080S	33 38 16	113 59 26	N	10	45	.05	N	.006	.40
KR081S	33 38 21	113 59 39	.02	20	50	.05	16	<.004	.60
KR082S	33 37 35	113 58 16	.02	20	65	.05	N	<.002	.35
KR083S	33 37 11	113 57 48	.02	20	160	.10	N	N	.25
KR084S	33 37 5	113 57 43	.02	10	55	<.05	N	<.002	.15
KR085S	33 36 58	113 58 6	.02	10	80	.05	N	<.002	.40
KR086S	33 36 57	113 58 0	.02	10	130	.05	N	N	.20
KR087S	33 37 47	113 56 0	N	10	55	.05	N	.006	.20
KR088S	33 37 50	114 4 28	.02	20	55	.05	N	.002	.30
KR089S	33 37 3	114 4 49	.02	20	65	.05	N	<.002	.35
KR091S	33 36 29	114 3 32	N	20	65	.10	N	N	.40
KR092S	33 36 20	114 3 13	.04	20	65	<.05	N	N	.45
KR093S	33 37 26	114 3 13	N	10	55	<.05	N	.002	.40
KR094S	33 37 41	114 3 12	N	30	50	<.05	N	.004	.35
KR095S	33 37 36	114 3 11	.02	30	45	.05	N	N	.40

TABLE 3-- ANALYSES OF STREAM-SEDIMENT SAMPLES FROM THE NEW WATER MOUNTAINS OF THE WILDERNESS STUDY AREA, LAKE COUNTY, ARIZONA.--Continued

Sample	Latitude	Longitude	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Ag-ppm aa	Sb-ppm aa	Au-ppm aa	Tl-ppm aa
KR096S	33 37 36	114 4 2	.04	20	50	.05	N	.002	.30
KR097S	33 38 11	114 3 20	.02	10	55	<.05	N	N	.15
KR098S	33 39 22	114 1 27	.02	10	55	<.05	N	N	.20
KR099S	33 39 29	114 1 37	.02	10	50	<.05	N	N	.20
KR100S	33 39 40	114 2 12	.02	10	45	.05	N	N	.25
KR101S	33 39 57	114 2 46	.02	20	50	.05	N	N	.20
KR102S	33 39 27	114 3 52	.02	20	50	.05	N	N	.25
KR103S	33 39 9	114 4 52	N	20	55	<.05	N	N	.30
KR104S	33 39 14	114 5 0	N	10	50	<.05	N	<.002	.20
KR105S	33 38 9	114 4 40	N	10	45	N	N	N	.20
KR106S	33 38 26	114 4 56	N	10	45	N	N	.002	.25
KR107S	33 40 9	114 4 32	N	20	60	<.05	N	N	.20
KR108S	33 40 7	114 5 22	.06	20	45	N	N	<.002	.30
KR109S	33 39 38	114 5 41	.02	10	55	<.05	N	.004	.30
KR126S	33 33 42	114 4 20	N	20	35	N	N	N	.25
KR127S	33 32 14	114 2 17	N	20	40	<.05	N	<.008	.20
KR128S	33 32 26	114 1 32	<.02	20	50	.05	N	N	.30
KR129S	33 32 49	114 1 28	N	20	40	<.05	N	N	.25
KR130S	33 31 19	114 2 58	N	10	30	N	N	<.002	.20
KR131S	33 31 17	114 3 11	.02	20	40	<.05	N	<.002	.30
KR132S	33 31 2	114 3 45	N	10	25	N	N	<.002	.25
KR133S	33 31 4	114 3 11	N	10	25	N	N	N	.20
KR134S	33 31 17	114 4 27	N	10	20	N	N	N	.20
KR135S	33 32 19	114 4 39	.02	10	35	.05	N	N	.35
KR136S	33 33 0	114 5 3	N	10	30	.05	N	N	.35
KR137S	33 31 56	114 5 12	N	10	40	<.05	N	N	.35
KR142S	33 31 32	114 5 23	.04	10	30	<.05	N	.008	.40
KR143S	33 31 40	114 5 36	.04	10	40	N	N	.006	.30
KR148S	33 30 52	114 0 45	.08	<10	45	N	<2	N	.50
KR149S	33 30 24	113 59 57	.02	10	50	N	N	N	.25
KR150S	33 30 5	113 59 14	.02	20	60	<.05	<2	<.002	.25
KR151S	33 30 16	113 55 24	.04	20	60	.05	N	.012	.30
KR152S	33 30 26	113 53 48	.02	10	50	<.05	<2	.010	.45
KR153S	33 30 44	113 52 40	.06	10	50	<.05	N	.002	.45
KR154S	33 30 3	113 46 17	.06	10	55	<.05	<2	<.002	.25
KR187S	33 30 23	114 5 53	.02	N	30	<.05	<2	--	.40
KR188S	33 30 20	114 5 40	.02	N	35	<.05	N	N	.65

TABLE 4-- ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE NEW WATER MOUNTAINS BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.

[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
KR0001C	33 34 57	114 5 17	.20	2.00	5.0	2.00	100	1,500	N	N	50	10,000
KR0004C	33 34 19	113 57 36	.30	.15	1.0	>2.00	100	N	N	N	70	1,000
KR0005C	33 33 37	113 57 11	.20	.07	1.0	2.00	70	N	N	N	50	10,000
KR0006C	33 33 54	113 56 45	.50	.15	1.0	>2.00	100	N	N	N	70	500
KR0007C	33 33 24	113 56 6	.70	.20	2.0	1.00	150	N	3,000	N	30	10,000
KR0008C	33 33 47	113 55 31	.30	.20	2.0	.50	30	N	N	N	20	1,500
KR0009C	33 33 58	113 55 58	.50	.30	7.0	1.50	100	5	N	N	30	1,500
KR0010C	33 34 1	113 55 51	.50	.20	3.0	>2.00	70	N	N	N	50	2,000
KR0013C	33 37 29	114 1 50	.20	2.00	5.0	1.50	200	7	2,000	N	50	>10,000
KR0014C	33 38 47	114 3 6	.20	.15	1.5	2.00	70	N	N	N	20	10,000
KR0015C	33 37 6	114 1 44	.30	.20	5.0	1.00	200	N	N	N	100	>10,000
KR0017C	33 37 56	114 0 58	.20	1.00	5.0	>2.00	100	N	N	N	100	>10,000
KR0018C	33 37 54	114 0 11	.50	1.00	5.0	2.00	300	N	N	N	50	>10,000
KR0020C	33 33 0	113 58 38	.70	.20	5.0	>2.00	300	N	N	N	70	10,000
KR0021C	33 33 26	113 59 35	.70	.15	5.0	>2.00	700	N	N	N	70	>10,000
KR0022C	33 33 37	114 0 40	.50	.15	3.0	>2.00	150	N	N	N	100	5,000
KR0023C	33 34 37	114 1 36	.70	.30	3.0	>2.00	150	N	N	N	50	10,000
KR0024C	33 34 34	114 1 43	.30	.50	7.0	1.50	150	N	N	N	30	>10,000
KR0025C	33 33 56	114 1 21	.70	.50	5.0	>2.00	150	N	N	N	70	10,000
KR0026C	33 33 50	114 1 31	.70	.50	5.0	>2.00	200	N	N	N	100	5,000
KR0027C	33 34 36	114 2 34	.30	.50	3.0	>2.00	100	N	N	N	50	5,000
KR0028C	33 34 35	114 3 0	.30	.20	1.5	.70	50	7	N	N	50	1,500
KR0029C	33 35 19	114 2 35	.30	5.00	5.0	1.00	300	10	N	N	20	>10,000
KR0030C	33 35 47	114 3 16	.20	.15	3.0	2.00	100	N	N	N	30	1,000
KR0031C	33 36 13	114 3 23	.30	.50	5.0	2.00	200	N	N	N	50	1,000
KR0032C	33 32 32	113 58 26	.50	.20	2.0	2.00	70	N	N	N	30	1,500
KR0033C	33 32 13	113 57 46	.50	.30	2.0	.70	70	N	N	N	50	1,000
KR0034C	33 31 18	113 56 21	.20	.20	5.0	2.00	50	N	N	N	50	10,000
KR0035C	33 31 28	113 55 29	.70	.30	5.0	>2.00	200	N	N	N	100	1,500
KR0036C	33 31 24	113 54 44	.30	.20	2.0	2.00	50	N	N	N	20	700
KR0037C	33 31 32	113 54 21	.30	.20	3.0	2.00	50	N	N	N	50	1,000
KR0038C	33 32 8	113 53 57	.30	.50	3.0	2.00	300	N	7,000	N	30	>10,000
KR0039C	33 32 57	113 55 51	.30	.20	2.0	1.00	200	N	500	N	50	2,000
KR0041C	33 33 11	113 55 1	.50	.50	2.0	1.50	70	N	N	N	70	5,000
KR0042C	33 33 8	113 54 43	.30	.50	7.0	>2.00	150	N	N	N	20	>10,000
KR0043C	33 32 53	113 53 51	.50	.30	3.0	2.00	70	N	N	N	50	1,000
KR0044C	33 34 26	113 54 19	.30	.20	2.0	2.00	150	N	N	N	50	>10,000
KR0045C	33 31 8	113 48 34	.50	.50	2.0	2.00	100	N	N	N	70	2,000
KR0048C	33 31 41	113 49 57	.70	1.00	3.0	2.00	150	N	N	N	70	2,000
KR0049C	33 31 44	113 50 21	.50	.20	2.0	.70	100	N	N	N	20	1,500
KR0053C	33 32 57	113 51 53	.50	.50	3.0	2.00	100	N	N	N	100	3,000
KR0054C	33 33 2	113 52 14	.50	1.00	3.0	.70	100	N	N	N	70	2,000
KR0055C	33 33 19	113 52 33	.70	.70	3.0	2.00	150	N	N	N	50	1,500
KR0058C	33 36 44	113 55 40	.50	.20	5.0	>2.00	150	N	N	N	50	10,000
KR0059C	33 36 10	113 55 27	.20	.15	5.0	.50	150	N	N	N	20	>10,000

TABLE 4-- ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE NEW WATER MOUNTAINS BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

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
KR0001C	<2	N	N	N	N	15	<50	N	<50	15	10,000
KR0004C	2	N	N	N	N	N	<50	N	<50	10	30
KR0005C	3	N	N	N	N	N	N	N	N	20	N
KR0006C	N	N	N	<10	N	N	N	N	70	<10	100
KR0007C	N	N	N	<10	N	<10	N	N	N	10	<20
KR0008C	N	N	N	<10	N	N	N	N	N	N	N
KR0009C	N	N	N	N	N	N	N	N	<50	20	50
KR0010C	N	N	N	N	N	N	N	N	50	N	200
KR0013C	N	N	N	<10	<20	15	100	30	<50	<10	10,000
KR0014C	N	N	N	N	N	N	N	N	N	<10	300
KR0015C	N	N	N	<10	N	N	150	N	N	10	500
KR0017C	<2	N	N	N	20	<10	<50	N	100	10	2,000
KR0018C	<2	N	N	N	<20	N	200	<10	<50	10	150
KR0020C	3	N	N	<10	N	N	<50	N	50	10	50
KR0021C	3	N	N	<10	N	N	100	N	70	10	50
KR0022C	2	N	N	N	N	<10	N	N	50	10	150
KR0023C	<2	N	N	<10	20	N	200	N	100	<10	20
KR0024C	N	N	N	N	N	N	N	N	<50	<10	20
KR0025C	2	N	N	<10	N	10	100	N	70	<10	3,000
KR0026C	2	N	N	10	<20	<10	<50	N	100	<10	100
KR0027C	N	N	N	<10	N	N	N	N	50	<10	500
KR0028C	<2	N	N	<10	N	200	N	N	N	15	1,000
KR0029C	N	N	N	N	N	50	100	N	N	10	10,000
KR0030C	2	N	N	N	N	<10	100	N	N	30	200
KR0031C	2	N	N	<10	N	<10	100	N	N	15	2,000
KR0032C	N	N	N	<10	N	N	N	N	N	N	50
KR0033C	N	N	N	<10	N	N	N	N	N	<10	20
KR0034C	N	N	N	N	N	N	N	N	N	20	N
KR0035C	N	N	N	<10	<20	N	100	N	70	<10	1,000
KR0036C	N	N	N	N	N	<10	N	N	N	N	100
KR0037C	N	N	N	N	N	N	N	N	N	10	N
KR0038C	<2	N	N	N	N	N	<50	N	N	20	20
KR0039C	N	N	N	N	N	70	N	N	N	N	N
KR0041C	N	N	N	<10	N	N	N	N	N	N	500
KR0042C	<2	N	N	N	N	N	100	N	50	10	20
KR0043C	<2	N	N	<10	N	N	N	N	N	10	70
KR0044C	3	N	N	<10	N	N	100	N	N	10	300
KR0045C	N	N	N	<10	N	N	N	N	N	<10	200
KR0048C	N	N	N	N	100	N	100	N	N	15	N
KR0049C	N	N	N	<10	N	N	<50	N	N	10	300
KR0053C	N	N	N	<10	N	20	N	N	N	10	100
KR0054C	N	N	N	N	N	<10	N	N	N	<10	200
KR0055C	N	N	N	<10	50	N	N	N	N	15	50
KR0058C	<2	N	N	N	20	<10	<50	N	<50	10	N
KR0059C	N	N	N	N	N	N	N	N	N	<10	200

TABLE 4-- ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE NEW WATER MOUNTAINS BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

Sample	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	Th-ppm s
KR0001C	N	<10	N	1,500	200	150	500	N	>2,000	N
KR0004C	N	20	N	N	100	N	700	N	>2,000	N
KR0005C	N	20	N	N	50	N	700	N	>2,000	N
KR0006C	N	N	N	<200	150	N	200	N	>2,000	<200
KR0007C	N	N	N	700	50	N	300	N	>2,000	N
KR0008C	N	N	N	1,000	20	N	100	N	>2,000	N
KR0009C	N	N	N	N	50	N	150	N	>2,000	N
KR0010C	N	N	<20	<200	100	N	200	N	>2,000	N
KR0013C	N	N	N	2,000	300	2,000	200	N	>2,000	N
KR0014C	N	<10	N	N	150	<100	500	N	>2,000	500
KR0015C	N	N	100	500	150	N	500	N	>2,000	N
KR0017C	N	<10	N	700	300	N	500	N	>2,000	N
KR0018C	N	N	N	700	100	N	500	1,000	>2,000	N
KR0020C	N	20	N	500	150	N	1,000	N	>2,000	N
KR0021C	N	<10	N	500	150	N	1,000	N	>2,000	N
KR0022C	N	N	N	300	100	N	300	N	>2,000	200
KR0023C	N	<10	<20	500	100	N	500	N	>2,000	<200
KR0024C	N	N	N	700	70	N	300	N	>2,000	N
KR0025C	N	N	100	700	150	N	200	N	>2,000	N
KR0026C	N	N	N	500	100	N	500	1,000	>2,000	N
KR0027C	N	N	N	<200	200	200	200	N	>2,000	N
KR0028C	N	N	N	<200	70	N	200	N	>2,000	N
KR0029C	N	N	N	700	1,000	N	700	10,000	>2,000	N
KR0030C	N	<10	N	N	70	N	700	N	>2,000	N
KR0031C	N	N	N	N	200	N	300	N	>2,000	N
KR0032C	N	N	<20	500	30	N	150	N	>2,000	N
KR0033C	N	N	N	500	20	N	150	N	>2,000	N
KR0034C	N	<10	N	1,000	50	N	200	N	>2,000	N
KR0035C	N	N	N	500	100	N	200	N	>2,000	<200
KR0036C	N	N	N	300	50	N	200	N	>2,000	N
KR0037C	N	<10	N	500	70	N	200	N	>2,000	N
KR0038C	N	N	N	>10,000	70	N	300	N	>2,000	N
KR0039C	N	<10	N	<200	30	N	500	N	>2,000	N
KR0041C	N	N	N	1,000	50	N	200	N	>2,000	N
KR0042C	N	N	N	2,000	100	N	700	N	>2,000	N
KR0043C	N	N	N	N	50	N	300	N	>2,000	N
KR0044C	N	30	N	1,000	70	N	1,000	N	>2,000	N
KR0045C	N	N	N	N	70	N	500	N	>2,000	N
KR0046C	N	N	N	N	70	N	200	N	>2,000	N
KR0049C	N	N	N	<200	200	N	200	N	>2,000	N
KR0053C	N	N	N	500	50	N	200	N	>2,000	N
KR0054C	N	N	N	<200	20	N	200	N	>2,000	N
KR0055C	N	N	N	500	50	N	300	N	>2,000	N
KR0058C	N	N	<20	500	100	N	300	N	>2,000	N
KR0059C	N	N	N	500	20	N	200	N	>2,000	N

TABLE 4-- ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE NEW WATER MOUNTAINS BLM WILDERNESS STUDY AREA, LA
PAZ COUNTY, ARIZONA.--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
KR0060C	33 36 9	113 55 21	.10	.10	5.0	1.00	70	N	N	N	<20	>10,000
KR0061C	33 36 27	113 54 23	N	.05	.2	.10	50	N	N	N	<20	>10,000
KR0062C	33 36 18	113 53 46	.20	.15	1.5	.20	100	N	N	N	30	>10,000
KR0063C	33 35 51	113 52 56	.50	.20	10.0	1.50	150	N	500	N	50	>10,000
KR0064C	33 35 3	113 52 15	.20	.20	1.5	.70	50	N	N	N	30	>10,000
KR0065C	33 34 27	113 59 29	.50	.70	5.0	2.00	200	N	N	N	50	3,000
KR0066C	33 34 13	113 50 54	.70	.20	2.0	1.00	150	N	N	N	30	1,500
KR0067C	33 33 43	113 50 11	1.00	1.50	5.0	2.00	500	N	N	N	50	>10,000
KR0068C	33 32 53	113 48 59	.50	.50	5.0	.20	70	N	N	N	50	1,500
KR0070C	33 33 34	113 53 40	.50	.50	2.0	1.00	100	N	N	N	30	>10,000
KR0071C	33 33 38	113 53 16	.50	.30	1.5	1.50	100	N	N	N	50	3,000
KR0072C	33 33 36	113 53 4	.70	.70	3.0	1.00	100	N	N	N	50	3,000
KR0073C	33 36 58	113 56 41	.50	.30	2.0	1.50	100	N	N	N	50	10,000
KR0074C	33 37 4	113 57 1	.30	.10	2.0	2.00	70	N	N	N	50	>10,000
KR0076C	33 36 56	113 59 7	1.00	.30	5.0	>2.00	300	N	N	N	30	2,000
KR0077C	33 37 45	113 58 57	.30	.10	2.0	.50	100	N	N	N	20	>10,000
KR0078C	33 37 36	113 58 58	.30	.20	2.0	1.00	100	N	N	N	50	1,000
KR0079C	33 38 24	113 58 29	.50	.20	5.0	2.00	300	15	N	N	50	>10,000
KR0080C	33 38 16	113 59 26	.30	.10	5.0	.50	500	N	N	N	30	>10,000
KR0081C	33 38 21	113 59 39	.20	.05	1.5	.05	100	N	N	N	<20	>10,000
KR0083C	33 37 11	113 57 48	.20	.07	1.0	2.00	100	N	N	N	<20	5,000
KR0084C	33 37 5	113 57 43	.20	.10	1.0	>2.00	50	N	N	N	20	700
KR0085C	33 36 58	113 58 6	.10	.05	1.0	1.00	70	N	N	N	70	2,000
KR0088C	33 37 50	114 4 28	.50	.20	1.5	1.00	100	N	N	N	50	5,000
KR0089C	33 37 3	114 4 49	.20	1.00	2.0	1.50	100	N	N	N	50	>10,000
KR0091C	33 36 29	114 3 32	.20	.20	2.0	>2.00	100	N	N	N	50	5,000
KR0092C	33 36 20	114 3 13	.30	.30	5.0	2.00	100	N	N	N	100	>10,000
KR0093C	33 37 26	114 3 13	.50	.50	5.0	>2.00	300	N	N	N	100	>10,000
KR0094C	33 37 41	114 3 12	1.00	2.00	5.0	>2.00	200	N	1,000	N	100	>10,000
KR0095C	33 37 36	114 3 11	.20	.20	2.0	.50	200	10	5,000	N	30	>10,000
KR0096C	33 37 36	114 4 2	.30	1.00	3.0	2.00	200	N	N	N	50	10,000
KR0098C	33 39 22	114 1 27	.30	.50	3.0	2.00	150	N	N	N	30	1,500
KR0099C	33 39 29	114 1 37	.50	.70	3.0	2.00	100	N	N	N	50	5,000
KR0100C	33 39 40	114 2 12	.30	.20	2.0	>2.00	100	N	N	N	50	5,000
KR0101C	33 39 57	114 2 46	.50	1.00	3.0	>2.00	150	N	N	N	70	1,500
KR0102C	33 39 27	114 3 52	.70	.50	2.0	2.00	150	N	N	N	50	1,000
KR0105C	33 38 9	114 4 40	.30	.20	3.0	2.00	70	N	N	N	20	10,000
KR0106C	33 38 26	114 4 56	.50	.20	5.0	>2.00	70	10	N	N	30	10,000
KR0107C	33 40 9	114 4 32	1.00	2.00	3.0	>2.00	200	N	N	N	50	>10,000
KR0108C	33 40 7	114 5 22	.70	10.00	10.0	.70	1,000	N	<500	N	200	7,000
KR0109C	33 39 38	114 5 41	.30	5.00	5.0	.70	200	5	N	N	30	1,500
KR0126C	33 33 42	114 4 20	.30	.30	5.0	>2.00	100	N	N	N	70	3,000
KR0127C	33 32 14	114 2 17	.70	.20	2.0	>2.00	150	N	N	N	200	>10,000
KR0128C	33 32 26	114 1 32	.50	.20	5.0	>2.00	100	N	N	N	100	>10,000
KR0130C	33 31 19	114 2 58	.30	.10	3.0	>2.00	100	N	N	N	50	10,000

TABLE 4-- ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE NEW WATER MOUNTAINS BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

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
KR0060C	N	N	N	N	N	<10	N	N	N	<10	1,500
KR0061C	N	N	N	N	100	100	N	N	N	N	500
KR0062C	N	N	N	<10	<20	20	N	N	N	<10	2,000
KR0063C	N	N	N	N	N	15	N	N	N	30	1,000
KR0064C	N	N	N	<10	N	N	N	N	N	10	50
KR0065C	<2	N	N	<10	20	N	N	N	N	10	500
KR0066C	5	N	N	N	N	N	N	N	N	15	N
KR0067C	N	N	N	<10	100	N	<50	N	50	15	N
KR0068C	N	N	N	N	N	N	N	N	N	<10	N
KR0070C	2	N	N	N	N	N	N	N	N	10	N
KR0071C	N	N	N	<10	N	N	N	N	N	<10	50
KR0072C	N	N	N	<10	N	N	N	N	N	<10	<20
KR0073C	N	N	N	<10	N	<10	N	N	N	<10	N
KR0074C	N	N	N	<10	N	N	N	N	N	<10	<20
KR0076C	2	N	N	N	N	N	100	N	N	10	20
KR0077C	2	N	N	N	N	N	N	N	N	10	<20
KR0078C	N	N	N	<10	N	N	N	N	N	<10	N
KR0079C	2	N	N	<10	N	10	100	30	70	<10	1,500
KR0080C	N	N	N	<10	N	N	200	N	N	<10	20
KR0081C	<2	N	N	N	N	N	N	N	N	20	N
KR0083C	<2	N	N	N	N	N	N	N	N	20	1,500
KR0084C	N	N	N	N	N	N	N	N	N	15	N
KR0085C	2	N	N	N	N	N	N	N	N	10	<20
KR0088C	N	N	N	N	N	N	N	N	N	N	1,000
KR0089C	2	N	N	N	N	N	N	100	N	10	3,000
KR0091C	3	N	N	N	N	N	100	N	<50	20	100
KR0092C	N	N	N	N	N	N	<50	N	N	<10	1,000
KR0093C	N	N	N	N	<20	N	150	N	50	<10	3,000
KR0094C	<2	N	N	N	N	N	500	N	200	10	50
KR0095C	N	N	N	N	N	50	<50	50	N	10	20,000
KR0096C	2	N	N	<10	N	200	<50	70	N	15	150
KR0098C	2	30	N	N	N	N	<50	N	N	20	<20
KR0099C	<2	N	N	N	N	N	100	N	N	20	150
KR0100C	3	N	N	N	N	N	100	70	<50	20	200
KR0101C	2	N	N	N	N	N	<50	N	N	<10	20
KR0102C	<2	N	N	<10	N	<10	N	N	<50	30	150
KR0105C	2	N	N	<10	N	N	N	50	N	15	1,000
KR0106C	3	N	N	N	N	N	<50	N	<50	30	3,000
KR0107C	<2	N	N	N	N	N	300	N	N	10	1,000
KR0108C	N	N	N	N	<20	10	N	N	N	<10	200
KR0109C	N	N	N	<10	N	N	<50	N	N	<10	1,000
KR0126C	2	N	N	N	N	<10	<50	N	50	10	50
KR0127C	2	N	N	15	20	<10	N	N	100	10	500
KR0128C	<2	N	N	N	N	<10	N	500	50	<10	1,500
KR0130C	3	N	N	N	N	200	<50	N	<50	10	1,000

TABLE 4-- ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE NEW WATER MOUNTAINS BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

Sample	Sb-ppm S	Sc-ppm S	Sn-ppm S	Si-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S
KR0060C	N	N	200	7,000	200	N	200	N	>2,000	N
KR0061C	N	N	N	10,000	100	N	20	N	>2,000	N
KR0062C	N	N	N	3,000	500	N	100	N	>2,000	N
KR0063C	N	N	N	1,000	200	N	500	N	>2,000	N
KR0064C	N	N	150	5,000	30	N	150	N	>2,000	N
KR0065C	N	N	100	500	150	N	500	N	>2,000	200
KR0066C	N	N	N	N	50	N	500	N	>2,000	N
KR0067C	N	N	N	700	100	N	300	N	>2,000	200
KR0068C	N	N	N	500	20	N	100	N	>2,000	N
KR0070C	N	N	N	10,000	50	N	300	N	>2,000	N
KR0071C	N	N	N	<200	30	N	200	N	>2,000	N
KR0072C	N	N	N	300	50	N	100	N	>2,000	N
KR0073C	N	N	N	N	50	N	150	<500	>2,000	N
KR0074C	N	N	N	1,500	70	N	300	N	>2,000	N
KR0076C	N	<10	<20	500	100	N	1,000	N	>2,000	N
KR0077C	N	N	N	500	50	N	300	N	>2,000	N
KR0078C	N	N	N	500	50	N	150	N	>2,000	N
KR0079C	N	N	N	1,000	150	N	300	7,000	>2,000	N
KR0080C	N	<10	N	700	20	N	500	N	>2,000	N
KR0081C	N	<10	N	<200	<20	N	700	N	>2,000	N
KR0083C	N	20	N	N	100	N	700	700	>2,000	N
KR0084C	N	20	N	N	70	N	700	N	>2,000	N
KR0085C	N	20	N	N	20	N	700	N	>2,000	N
KR0088C	N	N	N	N	70	N	200	N	>2,000	N
KR0089C	N	30	N	>10,000	500	N	500	500	>2,000	N
KR0091C	N	30	N	N	100	N	700	N	>2,000	200
KR0092C	N	<10	N	1,500	50	N	300	N	>2,000	N
KR0093C	N	N	N	1,500	500	N	200	N	>2,000	N
KR0094C	N	N	70	500	70	N	500	N	>2,000	N
KR0095C	N	N	N	2,000	1,500	500	500	<500	>2,000	700
KR0096C	N	N	N	<200	100	N	500	N	>2,000	N
KR0098C	N	N	70	2,000	50	N	500	N	>2,000	N
KR0099C	N	N	N	1,000	70	N	300	N	>2,000	N
KR0100C	N	50	N	1,000	100	N	1,000	N	>2,000	1,000
KR0101C	N	20	100	N	100	N	700	1,000	>2,000	N
KR0102C	N	N	N	<200	100	N	300	N	>2,000	N
KR0105C	N	N	N	<200	200	N	500	N	>2,000	N
KR0106C	N	<10	N	500	200	N	1,000	N	>2,000	N
KR0107C	N	N	N	500	50	N	300	N	>2,000	N
KR0108C	N	N	N	500	50	N	100	N	>2,000	N
KR0109C	N	N	N	N	70	N	200	1,000	>2,000	N
KR0126C	N	<10	<20	N	100	N	1,000	N	>2,000	N
KR0127C	N	<10	70	500	150	N	500	2,000	>2,000	N
KR0128C	N	15	70	500	200	200	500	N	>2,000	N
KR0130C	N	N	50	500	100	N	1,000	N	>2,000	N

TABLE 4-- ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE NEW WATER MOUNTAINS BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Hg-pct. S	Cd-pct. S	Tl-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	P-ppm S	Pb-ppm S
KR0131C	33 31 17	114 3 11	.50	.20	3.0	>2.00	100	20	N	N	200	3,000
KR0132C	33 31 2	114 3 45	.50	.10	3.0	>2.00	100	N	N	N	30	>10,000
KR0133C	33 31 4	114 3 11	.30	.15	2.0	>2.00	150	N	N	N	50	3,000
KR0134C	33 31 17	114 4 27	.20	.20	2.0	>2.00	150	N	N	N	50	3,000
KR0135C	33 32 19	114 4 39	.15	.05	.5	2.00	50	10	N	N	20	10,000
KR0136C	33 33 0	114 5 3	.70	.20	5.0	>2.00	200	N	N	N	70	10,000
KR0137C	33 31 56	114 5 12	.30	.05	1.0	>2.00	70	N	N	N	50	5,000
KR0142C	33 31 32	114 5 23	1.00	.10	5.0	>2.00	150	N	N	N	30	>10,000
KR0143C	33 31 40	114 5 36	1.00	.15	.5	>2.00	100	N	N	N	100	3,000
KR0148C	33 30 52	114 0 45	.30	.10	1.0	2.00	100-	N	N	N	30	5,000
KR0149C	33 30 24	113 59 57	.50	.20	3.0	>2.00	100	N	N	N	50	10,000
KR0150C	33 30 5	113 59 14	.30	.10	.7	>2.00	100	N	N	N	50	>10,000
KR0151C	33 30 16	113 55 24	.50	.20	5.0	>2.00	100	N	N	N	20	200
KR0152C	33 30 26	113 53 48	.30	.20	5.0	>2.00	70	N	N	N	50	5,000
KR0153C	33 30 44	113 52 40	.50	.15	2.0	>2.00	100	N	N	N	70	10,000
KR0154C	33 30 3	113 46 17	.20	.20	2.0	.50	50	N	N	N	30	700
KR0187C	33 30 23	114 5 53	.50	.10	3.0	.20	200	N	N	N	50	>10,000
KR0188C	33 30 20	114 5 40	.30	.10	3.0	2.00	200	N	N	N	20	10,000

TABLE 4-- ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE NEW WATER MOUNTAINS BLM WILDERNESS STUDY AREA, LA
PAZ COUNTY, ARIZONA.--Continued

Sample	Re-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
KR0131C	<2	N	N	<10	N	10	N	300	50	<10	5,000
KR0132C	2	N	N	N	N	N	100	N	N	20	200
KR0133C	3	N	N	<10	N	N	N	N	<50	20	200
KR0134C	3	N	N	N	N	<10	N	N	<50	10	20
KR0135C	2	N	N	N	N	10	<50	70	N	30	3,000
KR0136C	2	N	N	10	<20	<10	<50	N	50	N	200
KR0137C	5	N	N	N	N	<10	<50	N	50	20	20
KR0142C	2	N	N	N	N	<10	200	N	50	15	<20
KR0143C	<2	N	N	15	50	<10	<50	N	200	N	20
KR0148C	2	N	N	N	N	N	<50	N	N	20	100
KR0149C	<2	N	N	<10	N	N	N	N	50	10	<20
KR0150C	2	N	N	N	N	N	N	N	<50	15	N
KR0151C	N	N	N	<10	N	N	N	N	N	10	N
KR0152C	N	N	N	<10	N	N	N	N	50	N	100
KR0153C	2	N	N	<10	<20	N	200	N	50	N	N
KR0154C	N	N	N	<10	N	N	N	N	N	20	N
KR0187C	N	N	N	N	N	N	150	N	N	20	200
KR0188C	N	N	N	N	N	N	150	N	N	20	20

TABLE 4-- ANALYSES OF HEAVY-MINERAL-CONCENTRATE SAMPLES FROM THE NEW WATER MOUNTAINS BLM WILDERNESS STUDY AREA, LA
PAZ COUNTY, ARIZONA.--Continued

Sample	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	Th-ppm s
KR0131C	N	N	30	N	100	500	500	N	>2,000	N
KR0132C	N	30	N	<200	70	200	1,000	N	>2,000	N
KR0133C	N	<10	200	N	100	N	1,000	N	>2,000	N
KR0134C	N	N	N	N	100	N	2,000	N	>2,000	N
KR0135C	N	30	70	700	70	500	700	N	>2,000	N
KR0136C	N	N	1,000	500	100	300	500	N	>2,000	N
KR0137C	N	20	N	500	70	N	1,500	N	>2,000	N
KR0142C	N	20	N	1,000	100	N	1,000	N	>2,000	N
KR0143C	N	N	50	700	150	<100	200	N	>2,000	N
KR0148C	N	<10	N	<200	50	N	700	N	>2,000	N
KR0149C	N	N	100	5,000	70	N	300	N	>2,000	N
KR0150C	N	50	200	500	100	N	700	N	>2,000	N
KR0151C	N	<10	N	500	70	N	500	N	>2,000	N
KR0152C	500	N	N	700	100	N	300	N	>2,000	200
KR0153C	N	<10	20	N	200	N	500	N	>2,000	N
KR0154C	N	N	<20	<200	30	N	150	N	>2,000	N
KR0187C	N	<10	N	700	50	N	700	N	>2,000	N
KR0188C	N	30	N	N	50	N	500	N	>2,000	N

TABLE 5-- ANALYSES OF ROCK SAMPLES FROM THE NEW WATER MOUNTAINS, BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.
[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	P-ppm S	Ba-ppm S
KR0011R	33 31 17	113 48 0	3.00	5.00	5.00	.500	1,000	.5	N	N	20	500
KR0012RA	33 37 54	113 55 56	7.00	5.00	5.00	.500	>5,000	N	<200	N	70	>5,000
KR0012RB	33 37 54	113 55 56	10.00	5.00	5.00	.700	5,000	N	N	N	20	1,500
KR0012RC	33 37 54	113 55 56	3.00	1.50	2.00	.150	>5,000	N	1,000	N	30	>5,000
KR0012RD	33 37 54	113 55 56	7.00	5.00	5.00	.700	>5,000	N	N	N	50	5,000
KR0025R	33 33 56	114 1 21	.20	.10	2.00	.002	300	N	N	N	20	50
KR0028R	33 34 32	114 2 42	7.00	.30	20.00	.050	5,000	N	N	N	50	500
KR0044R	33 34 26	113 54 19	1.00	1.00	1.00	.150	500	N	N	N	30	1,500
KR0073R	33 36 58	113 56 41	2.00	.70	15.00	.300	>5,000	5.0	N	N	70	700
KR0075RA	33 37 14	113 56 45	1.00	.10	.20	.100	300	100.0	N	N	70	>5,000
KR0075RB	33 37 14	113 56 45	5.00	.15	.20	.050	1,000	70.0	500	N	500	>5,000
KR0088R	33 37 18	114 3 36	.07	.03	<.05	.003	70	N	N	N	20	300
KR0090RA	33 37 18	114 3 36	2.00	1.00	20.00	.003	1,000	1,000.0	N	N	20	N
KR0090RB	33 37 18	114 3 36	7.00	.03	<.05	.010	50	30.0	N	N	20	N
KR0090RC	33 37 18	114 3 36	7.00	<.02	<.05	.020	50	5.0	N	N	20	<20
KR1137R	33 35 46	113 53 40	5.00	1.00	2.00	.500	300	20.0	N	N	150	1,000
KR1138R	33 35 46	113 53 40	.20	.05	.07	.030	70	100.0	500	N	30	>5,000
KR1162R	33 35 46	113 53 40	.20	.05	.50	.070	200	15.0	N	N	50	200
KR1163R	33 36 29	113 54 10	3.00	.10	1.00	.150	150	.5	N	N	20	300
KR1164R	33 36 29	113 54 10	2.00	.10	.70	.100	100	N	N	N	50	500
KR1165R	33 36 29	113 54 10	10.00	5.00	.10	1.000	1,000	.5	N	N	10	2,000
KR1166R	33 36 42	113 54 21	1.50	.15	.15	.200	100	20.0	N	N	50	1,500
KR1168R	33 34 2	113 51 21	3.00	1.50	1.50	.500	700	N	N	N	30	2,000
KR1169R	33 34 2	113 51 21	5.00	1.00	1.50	.500	700	N	N	N	30	2,000
KR1170R	33 34 2	113 51 21	5.00	1.50	2.00	.500	700	N	N	N	30	2,000
KR1171R	33 34 3	113 51 2	10.00	3.00	3.00	1.000	2,000	N	N	N	100	3,000
KR1172R	33 34 3	113 51 2	10.00	5.00	2.00	1.000	2,000	N	N	N	500	5,000
KR1173R	33 34 3	113 51 2	10.00	5.00	2.00	1.000	2,000	N	N	N	500	5,000
KR1174R	33 34 58	113 52 0	7.00	7.00	2.00	1.000	1,000	<.5	N	N	10	N
KR1175R	33 35 31	113 53 52	1.50	.30	.70	.150	500	N	N	N	30	1,500
KR1176R	33 35 31	113 53 52	2.00	.50	.70	.150	500	N	N	N	50	1,500
KR1177R	33 35 1	113 58 56	10.00	5.00	2.00	.700	1,000	N	N	N	10	700
KR1178R	33 36 54	114 0 23	3.00	.70	1.00	.200	700	N	N	N	20	2,000
KR1179R	33 37 45	113 58 42	5.00	2.00	2.00	.150	1,500	100.0	N	N	100	>5,000
KR1180R	33 37 45	113 58 42	2.00	.50	>20.00	.020	>5,000	50.0	N	N	N	>5,000
KR1181R	33 37 45	113 58 42	7.00	2.00	.50	.500	3,000	100.0	N	N	20	1,500
KR1182R	33 37 45	113 58 42	2.00	<.02	1.00	.002	200	N	N	N	N	70
KR1183R	33 37 45	113 58 42	7.00	2.00	.50	.500	2,000	100.0	N	N	10	1,500
KR1184R	33 38 45	114 4 53	1.00	.05	.05	.070	70	N	N	N	10	1,000
KR1185R	33 38 45	114 4 53	1.00	.03	<.05	.050	50	N	N	N	15	500
KR1186R	33 38 45	114 4 53	1.50	.05	.10	.020	150	N	N	N	20	300
KR1187R	33 38 45	114 4 53	.70	.20	20.00	.015	>5,000	200.0	N	N	N	500
KR1188R	33 37 41	114 4 29	10.00	.05	N	.030	300	200.0	N	N	30	150
KR1189R	33 37 41	114 4 29	5.00	.03	N	.002	70	70.0	N	N	20	70
KR1190R	33 37 41	114 4 29	1.50	<.02	N	N	300	200.0	N	N	15	N

TABLE 5-- ANALYSES OF ROCK SAMPLES FROM THE NEW WATER MOUNTAINS, BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

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
KR0011R	N	N	N	50	100	50	50	N	N	50	20	N
KR0012RA	<1.0	N	N	50	100	200	<20	150	N	50	5,000	N
KR0012RB	<1.0	N	N	50	100	100	50	5	N	70	100	N
KR0012RC	1.0	N	N	50	70	1,500	50	1,000	N	30	>20,000	N
KR0012RD	<1.0	N	N	50	100	150	50	20	N	70	2,000	N
KR0025R	N	N	N	N	N	<5	N	N	<20	5	N	N
KR0028R	<1.0	N	N	10	<10	3,000	100	10	N	<5	200	N
KR0044R	1.5	N	N	5	N	10	100	N	N	<5	50	N
KR0073R	1.0	N	N	10	<10	>20,000	<20	N	N	5	50	N
KR0075RA	1.0	N	N	5	15	>20,000	N	100	N	<5	5,000	N
KR0075RB	1.0	N	30	<5	1,500	>20,000	N	30	N	N	>20,000	7,000
KR0088R	N	N	N	N	N	150	N	N	N	<5	20	N
KR0090RA	N	N	N	<5	N	>20,000	N	100	N	5	50	100
KR0090RB	N	N	N	<5	<10	20,000	N	100	N	<5	N	500
KR0090RC	N	N	N	<5	10	700	N	5	N	<5	N	N
KR1137R	1.5	N	N	20	20	15	<20	N	N	10	50	N
KR1138R	N	N	<20	5	<10	20,000	N	N	N	<5	500	200
KR1162R	N	N	N	5	N	5	N	N	N	5	50	N
KR1163R	2.0	N	N	<5	50	<5	<20	N	20	5	20	N
KR1164R	1.5	N	N	<5	N	<5	50	N	20	5	20	N
KR1165R	1.0	N	N	70	500	70	<20	<5	N	200	20	N
KR1166R	2.0	N	N	5	N	5,000	100	N	N	5	15	N
KR1168R	1.5	N	N	20	20	20	70	N	N	30	50	N
KR1169R	1.0	N	N	20	20	20	70	N	N	30	50	N
KR1170R	1.5	N	N	20	20	15	50	N	N	30	30	N
KR1171R	1.5	N	N	50	20	100	150	N	<20	50	100	N
KR1172R	1.0	N	N	50	20	100	200	N	<20	30	150	N
KR1173R	1.0	N	N	50	20	100	150	N	N	50	150	N
KR1174R	1.0	N	N	50	200	50	N	N	N	100	<10	N
KR1175R	2.0	N	N	5	N	5	70	N	<20	10	50	N
KR1176R	1.5	N	N	5	N	5	100	<5	N	7	50	N
KR1177R	N	N	N	70	200	100	N	N	N	100	N	N
KR1178R	2.0	N	N	15	<10	5	<20	N	N	7	15	N
KR1179R	3.0	N	<20	10	<10	50	N	5	N	7	7,300	N
KR1180R	7.0	N	200	N	N	150	N	N	N	N	20,300	N
KR1181R	10.0	N	N	30	50	30	50	5	<20	70	1,000	N
KR1182R	<1.0	N	N	5	N	N	N	N	N	5	N	N
KR1183R	3.0	N	N	30	70	15	50	<5	<20	70	700	N
KR1184R	1.5	N	N	<5	N	N	<20	N	N	<5	N	N
KR1185R	1.0	N	N	<5	N	<5	<20	N	N	<5	N	N
KR1186R	<1.0	N	N	<5	N	5	N	N	N	<5	N	N
KR1187R	2.0	N	N	N	N	N	N	5	N	N	10	N
KR1188R	<1.0	50	<20	30	10	10,000	N	15	N	15	10,000	N
KR1189R	N	20	<20	5	<10	5,000	N	100	N	5	7,000	N
KR1190R	N	150	N	5	N	2,000	N	500	N	<5	>20,300	N

TABLE 5-- ANALYSES OF ROCK SAMPLES FROM THE NEW WATER MOUNTAINS, BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

Sample	Sc-ppm S	Sn-ppm S	Si-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S	Au-ppm aa	Hg-ppm inst
KR0011R	20	N	500	150	N	20	N	50	N	.10	<.02
KR0012RA	20	N	2,000	300	N	30	300	100	N	.15	.06
KR0012RB	30	N	700	200	N	30	<200	150	N	.10	.02
KR0012RC	15	N	>5,000	1,000	N	20	500	50	N	.90	.02
KR0012RD	30	N	700	200	N	30	300	100	N	.15	.04
KR0025R	N	N	N	<10	N	N	N	N	N	.05	.06
KR0028R	15	N	500	100	N	150	N	20	N	.05	.02
KR0044R	<5	N	200	20	N	20	N	100	N	.05	<.02
KR0073R	15	N	500	150	N	20	N	50	N	.10	.12
KR0075RA	N	N	2,000	50	N	<10	1,000	30	N	.55	2.80
KR0075RB	N	N	200	500	N	20	2,000	N	N	1.10	1.10
KR0088R	N	N	N	10	N	<10	N	N	N	.10	.02
KR0090RA	15	N	<100	10	N	100	N	N	N	.35	.42
KR0090RB	N	N	N	10	N	<10	N	N	N	.15	.38
KR0090RC	N	N	N	10	N	N	N	<10	N	.35	.30
KR1137R	15	N	200	100	N	50	N	150	N	N	.10
KR1138R	N	N	500	15	N	10	200	70	N	N	.20
KR1162R	N	N	N	20	N	<10	N	500	N	N	.04
KR1163R	N	N	<100	30	N	30	N	150	N	.05	.02
KR1164R	N	N	N	30	N	30	N	150	N	N	.02
KR1165R	30	N	<100	200	N	30	<200	100	N	N	.08
KR1166R	N	N	N	200	N	20	N	150	N	.10	.02
KR1168R	10	N	700	100	N	20	N	200	N	N	.02
KR1169R	10	N	700	100	N	20	N	200	N	N	.02
KR1170R	10	N	1,000	100	N	20	N	200	N	N	N
KR1171R	20	N	1,500	200	N	50	N	500	N	N	.02
KR1172R	20	N	2,000	200	N	50	N	200	N	N	.02
KR1173R	20	N	2,000	200	N	50	300	300	N	N	.08
KR1174R	20	N	200	300	N	30	N	150	N	N	.02
KR1175R	N	N	<100	20	N	20	N	150	N	N	N
KR1176R	N	N	200	20	N	20	N	100	N	N	N
KR1177R	30	N	500	200	N	30	N	150	N	N	N
KR1178R	10	N	300	100	N	20	N	100	N	N	N
KR1179R	5	N	<100	100	N	15	5,000	150	N	N	.10
KR1180R	N	N	1,000	20	N	20	3,000	N	N	N	.34
KR1181R	15	N	200	100	N	20	5,000	200	N	N	.26
KR1182R	N	N	N	10	N	10	N	N	N	11.00	.24
KR1183R	15	N	200	100	N	20	3,000	200	N	N	.24
KR1184R	<5	N	N	10	N	20	N	70	N	N	.02
KR1185R	N	N	N	10	N	15	N	100	N	N	.02
KR1186R	N	N	N	10	N	10	N	70	N	23.00	.08
KR1187R	N	N	700	15	N	N	N	N	N	N	.06
KR1188R	<5	N	<100	15	N	10	1,500	10	N	.15	.42
KR1189R	N	N	N	10	N	10	.700	N	N	.15	.14
KR1190R	N	N	<100	10	N	10	200	N	N	.50	.20

TABLE 5-- ANALYSES OF ROCK SAMPLES FROM THE NEW WATER MOUNTAINS, BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

Sample	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	Tl-ppm aa	W-ppm cm	F-ppm si	U-inst
KR0011R	--	5	45	1.6	N	N	.60	1.5	400	1.20
KR0012RA	--	320	790	.1	N	8	16.00	4.0	300	.60
KR0012RB	--	45	110	N	1	2	1.40	.5	200	.25
KR0012RC	--	2,000	890	4.0	1	80	73.00	15.0	100	1.10
KR0012RD	--	65	650	N	2	2	7.10	1.5	300	.20
KR0025R	--	10	5	.1	2	N	.20	N	N	.20
KR0028R	--	45	45	1.9	1	2	.60	3.0	100	11.00
KR0044R	--	N	<5	N	1	N	.60	1.5	100	.30
KR0073R	--	20	25	.6	N	N	.50	N	200	2.60
KR0075RA	--	35	700	3.3	N	20	.20	N	100	1.40
KR0075RB	--	170	2,000	1.9	N	820	N	N	N	4.60
KR0088R	--	10	N	N	1	N	N	N	100	.15
KR0090RA	--	85	5	1.1	N	140	N	N	N	1.20
KR0090RB	--	15	10	.1	13	200	N	.5	N	1.00
KR0090RC	--	40	5	.1	N	2	N	1.0	N	.25
KR1137R	--	N	60	.1	N	4	1.20	1.0	200	.70
KR1138R	--	160	140	3.0	N	130	N	1.0	N	.70
KR1162R	--	N	10	.6	N	N	.20	.5	N	N
KR1163R	--	5	5	.1	N	N	3.20	1.5	100	.10
KR1164R	--	<5	N	.1	N	N	2.60	1.0	100	.05
KR1165R	--	25	160	.1	N	N	4.00	7.0	700	.10
KR1166R	--	85	5	.5	N	N	2.00	3.0	100	.15
KR1168R	--	N	45	N	N	N	.60	1.0	200	.05
KR1169R	--	N	45	N	N	N	.60	.5	200	.05
KR1170R	--	N	25	N	N	N	2.80	.5	N	.15
KR1171R	--	20	100	N	N	N	1.00	1.5	500	.35
KR1172R	--	30	140	N	N	N	2.20	2.0	700	.25
KR1173R	--	30	210	N	N	N	2.00	1.5	700	.30
KR1174R	--	N	70	N	N	N	N	1.0	300	.05
KR1175R	--	N	10	N	N	N	.60	1.0	100	.15
KR1176R	--	N	N	N	N	N	2.80	3.5	N	.05
KR1177R	--	5	50	N	N	N	N	1.0	700	.40
KR1178R	--	N	20	.1	N	N	.40	.5	100	.10
KR1179R	--	95	2,600	3.9	N	4	.60	4.5	500	1.50
KR1180R	--	320	1,100	94.0	N	14	1.20	7.5	3,500	3.20
KR1181R	--	40	2,600	1.4	N	22	1.80	31.0	1,200	.65
KR1182R	--	N	5	.2	N	N	N	7.0	N	.10
KR1183R	--	15	1,700	1.2	N	N	2.40	27.0	800	.20
KR1184R	--	N	10	N	N	N	.40	5.0	N	.55
KR1185R	--	N	5	N	N	N	.20	4.0	N	.30
KR1186R	--	N	15	.2	N	N	.20	7.0	N	.25
KR1187R	--	60	130	3.1	N	N	N	.5	200	.40
KR1188R	--	140	650	5.2	60	52	N	N	N	5.00
KR1189R	--	15	350	5.0	27	16	N	1.5	N	3.20
KR1190R	--	10	100	2.7	130	28	N	1.0	N	3.30

TABLE 5-- ANALYSES OF ROCK SAMPLES FROM THE NEW WATER MOUNTAINS, BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

Sample	Latitude	Longitude	Fe-pct. S	Hg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	P-ppm S	Ba-ppm S
KR1191R	33 37 28	114 4 43	15.00	.02	7.00	<.002	100	10.0	N	N	20	N
KR1192R	33 37 28	114 4 43	2.00	.20	5.00	.005	300	1,000.0	N	N	20	50
KR1193R	33 37 28	114 4 43	3.00	3.00	>20.00	.007	2,000	300.0	N	N	N	N
KR1194R	33 37 28	114 4 43	15.00	2.00	20.00	.005	1,500	50.0	N	N	10	N
KR1195R	33 37 28	114 4 43	10.00	.20	10.00	.010	500	200.0	1,000	N	50	N
KR1196R	33 37 24	114 3 47	.70	.10	.07	.100	20	2.0	N	N	100	300
KR1197R	33 37 24	114 3 47	3.00	.10	1.50	.030	50	10.0	N	N	50	50
KR1198R	33 37 24	114 3 47	2.00	.50	5.00	.300	500	1.5	N	N	100	500
KR1199R	33 36 40	114 3 19	.50	.20	.70	.070	100	N	N	N	100	200
KR1200R	33 36 40	114 3 19	5.00	1.50	.10	.500	150	N	N	N	100	1,000
KR1201R	33 33 8	114 5 34	.70	.50	5.00	.050	500	5.0	N	N	200	100
KR1202R	33 33 8	114 5 34	7.00	5.00	10.00	.500	1,500	N	N	N	>2,000	70
KR1203R	33 33 8	114 5 34	5.00	3.00	.20	1.000	50	N	N	N	>2,000	2,000
KR1204R	33 33 8	114 5 34	>20.00	.02	1.00	.002	300	2.0	300	N	70	70
KR1205R	33 33 8	114 5 34	2.00	3.00	20.00	.007	>5,000	.5	N	N	100	50
KR1209R	33 36 3	114 1 45	20.00	.10	N	<.002	2,000	20.0	N	N	70	N
KR1210R	33 36 3	114 1 45	20.00	10.00	10.00	.007	>5,000	150.0	N	N	50	30
KR1211R	33 35 59	113 54 53	2.00	.10	.10	.150	50	100.0	N	N	50	2,000
KR1212R	33 35 59	113 54 53	1.00	.30	.15	.300	200	10.0	N	N	20	2,000
KR1213R	33 35 55	113 54 58	3.00	.10	.50	.500	1,000	500.0	700	N	100	>5,000
KR1223R	33 37 3	113 59 15	.70	.50	.70	.150	500	N	N	N	30	1,000
KR1224R	33 37 3	113 59 15	1.00	1.00	.70	.200	200	N	N	N	50	700
KR1225R	33 37 3	113 59 15	1.50	1.00	2.00	.200	700	N	N	N	30	500
KR1226R	33 37 3	113 59 15	3.00	1.00	1.00	.200	500	N	N	N	50	700
KR1227R	33 37 3	113 59 15	1.50	.50	10.00	.050	1,000	N	N	N	30	200
KR1228R	33 37 3	113 59 15	.50	.15	20.00	.015	3,000	N	N	N	N	200
KR1229R	33 37 18	113 59 17	5.00	1.50	1.50	.500	1,000	N	N	N	20	1,000
KR2000R	33 33 9	114 5 38	7.00	3.00	15.00	.200	2,000	N	N	N	>2,000	N
KR2001R	33 33 9	114 5 38	2.00	.05	.10	.015	30	N	N	N	500	<20
KR2002R	33 33 9	114 5 38	2.00	.10	.10	.500	10	1.0	N	N	1,000	N
KR2003R	33 33 9	114 5 38	7.00	2.00	.30	1.000	300	N	N	N	2,000	700
KR2004R	33 33 9	114 5 38	>20.00	.20	.05	.050	50	7.0	500	N	>2,000	N
KR2008R	33 37 27	114 4 37	5.00	.10	5.00	.050	2,000	100.0	N	N	50	100
KR2009R	33 37 27	114 4 37	3.00	.70	>20.00	.007	3,000	1.0	N	N	N	N
KR2010R	33 37 27	114 4 37	15.00	N	5.00	<.002	10	100.0	N	N	30	<20
KR2011R	33 36 5	114 1 48	20.00	.05	.05	.010	20	100.0	500	N	50	N
KR2012R	33 36 5	114 1 48	20.00	3.00	5.00	<.002	1,000	20.0	500	N	20	N
KR2013R	33 36 5	114 1 48	>20.00	.50	.15	.050	200	5.0	500	N	70	70
KR2014R	33 36 5	114 1 48	.50	10.00	20.00	.015	150	<.5	N	N	N	N
KR2015R	33 37 13	114 0 56	>20.00	.70	1.00	N	300	5.0	500	N	50	200
KR2016R	33 35 45	113 53 43	.20	.05	.10	.050	70	30.0	1,000	N	50	>5,000
KR2017R	33 35 22	113 54 0	2.00	.07	.07	.150	20	30.0	N	N	30	1,000
KR2018R	33 35 22	113 55 7	1.50	.20	.20	.200	150	10.0	N	N	30	2,000
KR2019R	33 35 25	113 55 34	5.00	.20	.30	.500	1,000	200.0	300	N	100	3,000
KR2020R	33 37 44	113 58 42	10.00	.30	20.00	.020	>5,000	150.0	N	N	30	5,000

TABLE 5-- ANALYSES OF ROCK SAMPLES FROM THE NEW WATER MOUNTAINS, BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

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
KR1191R	<1.0	N	30	10	10	500	N	5	N	<5	7,000	N
KR1192R	<1.0	<10	>500	30	N	20,000	N	<5	N	10	>20,000	N
KR1193R	N	30	200	30	N	200	N	10	N	10	>20,000	150
KR1194R	N	15	30	100	15	100	N	20	N	30	>20,000	N
KR1195R	<1.0	20	500	150	10	>20,000	N	100	N	50	>20,000	N
KR1196R	1.0	N	N	<5	N	>20,000	N	10	N	5	100	N
KR1197R	N	N	N	5	<10	20,000	N	5	N	7	30	N
KR1198R	1.5	N	N	10	20	1,000	50	N	N	15	1,500	N
KR1199R	<1.0	N	N	5	N	50	N	<5	N	<5	15	N
KR1200R	1.5	N	N	10	20	20	50	N	N	7	30	N
KR1201R	N	N	N	5	N	50	N	N	N	5	20	N
KR1202R	1.0	N	N	20	50	200	100	N	N	20	70	N
KR1203R	2.0	N	N	15	20	150	100	5	N	10	30	N
KR1204R	N	50	N	50	N	7,000	N	500	N	15	100	1,000
KR1205R	N	N	N	10	N	700	N	20	N	N	50	N
KR1209R	1.0	N	300	7	N	50	N	N	N	<5	5,000	N
KR1210R	N	N	>500	15	N	1,500	N	10	N	10	20,000	N
KR1211R	1.5	N	20	5	N	20,000	50	70	N	N	200	N
KR1212R	1.0	N	<20	5	N	200	100	100	N	30	200	N
KR1213R	2.0	N	<20	20	50	>20,000	N	N	N	N	200	N
KR1223R	2.0	N	N	5	N	20	70	N	<20	<5	30	N
KR1224R	1.0	N	N	5	<10	15	<20	N	N	5	N	N
KR1225R	1.0	N	N	7	<10	10	50	N	N	5	10	N
KR1226R	1.5	N	N	10	10	50	50	N	N	7	<10	N
KR1227R	<1.0	N	N	<5	N	10	N	N	N	5	10	N
KR1228R	N	N	N	N	N	7	N	N	N	N	30	N
KR1229R	1.0	N	N	30	10	100	50	10	N	20	20	N
KR2000R	1.5	N	N	10	20	500	N	<5	N	15	20	N
KR2001R	N	<10	N	5	N	3,000	N	500	N	<5	<10	100
KR2002R	N	300	N	7	N	150	N	100	N	<5	30	200
KR2003R	2.0	10	N	20	50	5,000	50	100	N	15	50	<100
KR2004R	1.5	100	N	100	N	15,000	N	700	N	15	150	2,000
KR2008R	1.0	N	500	50	N	5,000	N	150	N	10	20,000	N
KR2009R	N	N	100	10	N	100	<20	N	N	N	1,000	N
KR2010R	N	N	20	N	N	1,500	N	N	N	N	>20,000	N
KR2011R	N	150	50	<5	N	1,500	N	50	N	5	5,000	700
KR2012R	N	70	30	<5	20	3,000	N	10	N	5	5,000	700
KR2013R	1.0	70	30	N	70	2,000	N	15	N	N	7,000	700
KR2014R	N	N	N	N	<10	20	N	N	N	N	100	N
KR2015R	1.5	200	N	N	50	2,000	N	30	N	N	>20,000	1,000
KR2016R	N	N	30	5	30	20,000	N	N	N	5	700	500
KR2017R	1.5	N	N	5	N	20,000	50	50	N	<5	200	N
KR2018R	1.0	N	N	5	N	200	70	200	N	<5	200	N
KR2019R	1.5	N	20	30	70	>20,000	<20	100	N	50	500	N
KR2020R	10.0	N	20	N	N	700	N	10	N	N	2,000	150

TABLE 5-- ANALYSES OF ROCK SAMPLES FROM THE NEW WATER MOUNTAINS, BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

Sample	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	Tl-ppm aa	H-ppm cm	F-ppm si	U-inst
KR1191R	--	250	650	31.0	N	6	N	.5	N	1.10
KR1192R	--	35	>2,000	>100.0	5	32	N	N	100	2.70
KR1193R	--	5	1,100	77.0	17	90	N	1.0	N	1.10
KR1194R	--	15	350	16.0	7	12	N	2.0	N	.60
KR1195R	--	700	>2,000	>100.0	10	52	N	N	N	2.70
KR1196R	--	5	25	.5	N	2	N	1.5	100	21.00
KR1197R	--	25	45	1.2	N	10	N	.5	N	22.00
KR1198R	--	10	230	2.5	1	2	.60	1.0	300	2.20
KR1199R	--	N	N	.1	N	N	N	N	N	.15
KR1200R	--	N	35	N	N	N	.60	1.5	300	.15
KR1201R	--	N	15	.1	N	N	N	8.0	N	.30
KR1202R	--	5	5	.9	N	10	N	42.0	400	.60
KR1203R	--	N	N	N	1	6	1.80	12.0	300	.30
KR1204R	--	180	200	1.0	130	1,000	N	47.0	N	7.40
KR1205R	--	25	30	1.0	N	20	N	43.0	100	2.60
KR1209R	--	60	>2,000	>100.0	N	42	1.00	10.5	100	15.00
KR1210R	--	65	>2,000	>100.0	N	12	N	4.0	100	7.30
KR1211R	--	25	35	1.5	N	12	2.00	3.0	100	.35
KR1212R	--	5	40	2.3	N	2	1.80	1.5	100	.20
KR1213R	--	550	20	6.5	N	14	2.40	N	200	4.80
KR1223R	--	N	30	N	N	2	.60	1.0	100	.08
KR1224R	--	N	25	N	N	3	.40	1.0	100	.13
KR1225R	--	30	30	<.1	N	3	.40	1.0	100	.18
KR1226R	--	25	30	N	N	3	.60	4.0	100	.48
KR1227R	--	55	20	.2	N	3	<.20	2.6	200	.48
KR1228R	--	45	10	.8	N	3	1.20	3.6	N	.67
KR1229R	--	N	40	N	N	6	.60	3.0	100	.42
KR2000R	--	10	15	1.4	5	8	N	29.0	N	.40
KR2001R	--	40	30	N	22	110	<.20	12.5	N	1.90
KR2002R	--	20	55	.1	500	300	<.20	>50.0	N	1.10
KR2003R	--	25	80	.5	8	72	.90	6.0	400	1.70
KR2004R	--	520	300	1.8	300	>1,000	.30	>50.0	N	21.00
KR2008R	--	65	>2,000	>100.0	3	32	.30	1.0	N	3.60
KR2009R	--	N	>2,000	70.0	1	2	<.20	.5	N	.10
KR2010R	--	240	1,100	14.0	2	68	.30	N	N	.25
KR2011R	--	510	>2,000	17.0	100	650	.20	6.5	N	1.20
KR2012R	--	500	>2,000	13.0	52	750	.20	1.5	N	1.40
KR2013R	--	500	>2,000	9.3	92	730	.90	6.5	700	2.30
KR2014R	--	N	300	.3	N	2	.20	.5	200	.20
KR2015R	--	680	>2,000	2.4	490	>1,000	.20	25.0	200	2.70
KR2016R	--	970	160	9.7	N	180	.40	N	N	1.10
KR2017R	--	15	10	.4	N	10	1.40	1.0	N	.25
KR2018R	--	5	10	N	N	2	1.60	2.0	N	<.05
KR2019R	--	330	15	8.5	N	14	3.80	3.5	200	3.10
KR2020R	--	210	1,500	14.0	N	150	.40	45.0	N	.45

TABLE 5-- ANALYSES OF ROCK SAMPLES FROM THE NEW WATER MOUNTAINS, BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

Sample	Sc-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S	Au-ppm aa	Hg-ppm inst
KR1191R	N	N	300	10	N	15	500	N	N	N	.42
KR1192R	N	N	200	10	N	50	10,000	N	N	<.05	.18
KR1193R	N	N	2,000	<10	N	30	3,000	N	N	N	.24
KR1194R	N	N	1,500	10	N	30	500	N	N	N	.24
KR1195R	N	N	200	10	N	15	>10,000	N	N	.45	.60
KR1196R	N	N	300	20	N	<10	<200	50	N	N	.12
KR1197R	N	N	N	20	N	<10	<200	<10	N	N	.04
KR1198R	10	N	<100	50	N	30	300	100	N	N	.10
KR1199R	N	N	<100	15	N	10	N	15	N	N	.08
KR1200R	15	N	200	50	N	50	N	150	N	N	.08
KR1201R	N	N	N	15	N	10	N	15	N	.20	.08
KR1202R	15	N	500	50	N	30	N	150	N	N	.06
KR1203R	50	N	300	100	N	100	N	200	N	N	.06
KR1204R	N	N	N	100	200	N	500	N	N	2.70	.12
KR1205R	10	N	300	70	50	70	N	N	N	N	.02
KR1209R	N	N	N	10	N	20	>10,000	N	N	N	3.20
KR1210R	N	N	N	10	N	20	>10,000	N	N	N	4.00
KR1211R	5	N	<100	300	N	20	<200	150	N	N	.08
KR1212R	<5	N	<100	50	N	30	N	150	N	N	.04
KR1213R	10	N	500	150	N	10	N	70	N	N	.34
KR1223R	N	N	<100	20	N	20	N	200	N	<.05	.04
KR1224R	<5	N	200	50	N	10	N	100	N	N	.02
KR1225R	<5	N	300	50	N	20	N	150	N	N	.04
KR1226R	5	N	200	70	N	20	N	150	N	N	.08
KR1227R	N	N	200	50	N	50	N	100	N	N	.04
KR1228R	N	N	500	10	N	50	N	N	N	N	.10
KR1229R	15	N	200	100	N	30	N	100	N	<.05	.04
KR2000R	10	N	700	100	N	50	N	100	N	.10	.02
KR2001R	N	N	N	15	N	N	N	N	N	N	.02
KR2002R	<5	N	<100	10	1,500	N	N	N	N	.15	.40
KR2003R	30	N	200	100	100	100	N	200	N	<.05	.06
KR2004R	N	N	N	500	200	N	1,000	10	N	1.20	2.10
KR2008R	<5	N	300	20	N	15	7,000	15	N	N	.56
KR2009R	10	N	3,000	10	N	200	3,000	N	N	<.05	.26
KR2010R	N	N	1,000	10	N	N	1,000	N	N	<.05	3.60
KR2011R	N	N	N	<10	N	N	7,000	N	N	.70	>10.00
KR2012R	N	N	N	150	N	N	5,000	N	N	.60	6.30
KR2013R	N	N	<100	150	N	N	7,000	<10	N	<.05	.04
KR2014R	N	N	<100	20	N	N	N	N	N	<.05	.04
KR2015R	N	200	500	100	N	N	7,000	10	N	.60	.23
KR2016R	N	N	500	15	N	10	200	50	N	.05	.10
KR2017R	N	N	<100	100	N	20	N	150	N	N	.06
KR2018R	N	N	<100	70	N	30	N	150	N	.10	.02
KR2019R	15	N	<100	100	N	10	<200	100	N	N	.30
KR2020R	N	N	500	50	N	50	1,500	N	N	<.05	.50

TABLE 5-- ANALYSES OF ROCK SAMPLES FROM THE NEW WATER MOUNTAINS, BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

Sample	Latitude	Longitude	Fe-ppt. s	Mg-ppt. s	Ca-ppt. s	Ti-pct. s	Mn-ppt. s	Ag-ppt. s	As-ppt. s	Au-ppt. s	B-ppt. s	Ba-ppt. s
KR2021R	33 37 44	113 58 42	5.00	.50	20.00	.005	>5,000	1,000.0	N	N	30	>5,000
KR2022R	33 37 44	113 58 42	1.00	.20	>20.00	.005	>5,000	500.0	N	N	N	2,000
KR2066R	33 37 44	113 58 42	1.50	.20	>20.00	.005	>5,000	500.0	N	N	N	1,500
KR2067R	33 37 27	114 4 37	10.00	.15	2.00	.070	100	20.0	500	N	70	200
KR3013R	33 37 53	113 55 53	10.00	10.00	5.00	.700	1,500	N	N	N	20	1,000
KR3038R	33 37 53	113 55 53	2.00	1.00	3.00	.100	>5,000	N	1,000	N	100	>5,000
KR5043R	33 33 10	114 5 37	N	<.02	.30	N	10	1.0	N	N	20	N
KR5044R	33 33 10	114 5 37	5.00	2.00	.10	.700	1,000	<.5	N	N	>2,000	1,000
KR5045R	33 33 10	114 5 37	3.00	5.00	20.00	.150	2,000	N	N	N	2,000	300
KR5046R	33 33 10	114 5 37	.20	.10	.20	.050	30	N	N	N	300	200
KR5047R	33 33 10	114 5 37	<.05	N	N	.002	50	N	N	N	<10	N
KR5048R	33 33 10	114 5 37	.30	.07	1.00	.050	200	N	N	N	200	300
KR5049R	33 33 23	114 5 44	1.00	.50	10.00	.050	2,000	1.0	N	N	>2,000	150
KR5050R	33 33 23	114 5 44	N	<.02	.10	<.002	15	N	N	N	100	N
KR5051R	33 37 51	114 4 46	5.00	.02	.50	.005	200	7.0	N	N	10	100
KR5052R	33 37 51	114 4 46	10.00	2.00	1.00	1.000	1,000	N	N	N	10	700
KR5053R	33 37 51	114 4 46	1.50	.10	.15	.100	150	N	N	N	<10	500
KR5054R	33 37 51	114 4 46	<.05	<.02	.70	N	100	N	N	N	<10	50
KR5055R	33 37 51	114 4 46	7.00	1.00	1.00	.700	700	N	N	N	20	500
KR5056R	33 37 51	114 4 46	<.05	<.02	<.05	<.002	10	N	N	N	<10	30
KR5057R	33 37 51	114 4 46	1.50	.20	.20	.150	200	N	N	N	10	700
KR5058R	33 37 51	114 4 46	1.50	.50	.70	.070	500	N	N	N	30	700
KR5059R	33 37 51	114 4 46	.15	.05	N	.030	200	N	N	N	<10	100
KR5060R	33 37 51	114 4 46	2.00	.70	.30	.100	50	N	N	N	70	1,000
KR5061R	33 37 29	114 4 37	.30	<.02	.05	N	50	N	N	N	<10	N
KR5062R	33 37 29	114 4 37	2.00	.50	1.50	.500	10	2.0	N	N	100	700
KR5063R	33 37 29	114 4 37	2.00	.20	N	.200	70	.5	N	N	200	500
KR5064R	33 37 29	114 4 37	.05	.30	>20.00	.010	15	N	N	N	N	N
KR5065R	33 37 29	114 4 37	.20	10.00	20.00	.002	300	N	N	N	N	N
KR5066R	33 37 29	114 4 37	.20	10.00	20.00	.007	700	N	N	N	N	50
KR5067R	33 37 29	114 4 37	5.00	3.00	2.00	1.000	1,000	N	N	N	N	200
KR5068R	33 37 29	114 4 37	.20	.10	.50	.050	50	.5	N	N	20	200
KR5069R	33 37 29	114 4 37	7.00	5.00	2.00	1.000	1,000	1.0	N	N	10	700
KR5070R	33 37 29	114 4 37	3.00	2.00	5.00	.050	5,000	N	N	N	50	500
KR5071R	33 37 55	113 55 52	.15	.05	.20	.010	>5,000	N	1,500	N	200	>5,000
KR5072R	33 37 55	113 55 52	5.00	2.00	2.00	.700	1,000	N	N	N	20	700
KR5073R	33 37 55	113 55 52	2.00	1.00	1.00	.300	5,000	N	N	N	50	5,000
KR5074R	33 37 55	113 55 52	.30	.30	1.50	.005	>5,000	N	1,000	N	100	>5,000
KR5075R	33 37 55	113 55 52	3.00	1.50	10.00	.200	>5,000	N	300	N	50	>5,000
KR5175R	33 33 12	114 5 37	>20.00	.10	<.05	<.002	200	N	<200	N	150	N
KR5176R	33 33 8	114 5 39	.50	.05	.20	.020	500	1.5	N	N	10	200

TABLE 5-- ANALYSES OF ROCK SAMPLES FROM THE NEW WATER MOUNTAINS, BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

Sample	Re-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
KR2021R	15.0	N	30	N	N	100	N	N	N	N	5,000	N
KR2022R	15.0	N	20	N	N	50	N	10	N	N	200	N
KR2066R	1.5	N	50	N	N	100	N	N	N	N	20,000	N
KR2067R	<1.0	N	N	20	20	700	N	20	N	7	500	N
KR3013R	1.0	N	N	30	100	50	50	N	N	70	50	N
KR3038R	1.5	N	N	N	70	1,000	<20	500	N	15	>20,000	N
KR5043R	N	N	N	N	N	100	N	N	N	<5	N	N
KR5044R	2.0	<10	N	70	20	2,000	50	100	N	5	50	100
KR5045R	<1.0	N	N	10	10	20	<20	7	N	10	20	N
KR5046R	<1.0	N	N	N	N	N	N	N	N	<5	N	N
KR5047R	N	N	N	N	N	<5	N	N	N	<5	N	N
KR5048R	<1.0	N	N	N	N	15	N	N	N	<5	N	N
KR5049R	<1.0	N	N	<5	<10	20	<20	N	N	5	20	N
KR5050R	N	N	N	N	N	N	N	N	N	<5	N	N
KR5051R	N	20	N	5	<10	20,000	N	N	N	<5	100	N
KR5052R	1.5	N	N	15	10	70	<20	N	N	<5	<10	N
KR5053R	1.5	N	N	N	N	50	50	N	N	<5	15	N
KR5054R	N	N	N	N	N	N	N	N	N	<5	N	N
KR5055R	1.5	N	N	15	10	70	<20	N	N	<5	10	N
KR5056R	N	N	N	N	N	N	N	N	N	<5	N	N
KR5057R	1.0	N	N	<5	N	<5	<20	N	N	<5	10	N
KR5058R	1.5	N	N	<5	N	<5	<20	N	N	<5	N	N
KR5059R	N	N	N	N	N	N	N	N	N	5	N	N
KR5060R	1.5	N	N	7	<10	<5	<20	N	N	20	30	N
KR5061R	N	N	N	N	N	15	N	7	N	N	15	N
KR5062R	1.5	N	N	N	50	100	50	5	N	<5	700	N
KR5063R	1.5	N	N	<5	20	50	N	N	N	7	10	N
KR5064R	N	N	N	N	10	N	N	N	N	N	30	N
KR5065R	<1.0	N	N	5	N	<5	N	N	N	5	15	N
KR5066R	N	N	N	5	N	<5	N	N	N	7	<10	N
KR5067R	<1.0	N	N	20	100	50	<20	N	<20	50	N	N
KR5068R	N	N	N	<5	5	5	<20	N	N	<5	N	N
KR5069R	1.0	N	N	15	150	50	<20	N	<20	100	<10	N
KR5070R	1.0	N	N	5	<10	15	N	5	N	5	70	N
KR5071R	1.0	N	N	<5	20	700	50	700	N	5	>20,000	300
KR5072R	1.0	N	N	20	70	50	<20	<5	N	70	100	N
KR5073R	1.0	N	N	7	15	70	N	20	N	15	200	N
KR5074R	1.0	N	N	<5	20	2,000	50	1,500	N	15	20,000	200
KR5075R	1.0	N	N	10	50	200	<20	70	N	30	7,000	N
KR5175R	1.0	70	N	200	30	2,000	N	300	N	50	100	500
KR5176R	1.5	N	N	5	<10	50	N	7	N	5	300	N

TABLE 5-- ANALYSES OF ROCK SAMPLES FROM THE NEW WATER MOUNTAINS, RLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

Sample	Sc-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst
KR2021R	N	1,000	20	N	30	5,000	N	N	.10	3.80
KR2022R	N	1,500	20	N	20	500	N	N	.10	.38
KR2066R	N	700	200	N	50	2,000	N	N	.10	.40
KR2067R	5	<100	20	N	10	200	10	N	.10	.36
KR3013R	30	500	150	N	30	300	150	N	N	.18
KR3038R	10	5,000	500	N	15	500	20	N	.10	.22
KR5043R	N	N	<10	N	N	N	N	N	N	.02
KR5044R	30	200	150	50	100	<200	500	N	<.05	.04
KR5045R	7	300	100	<50	30	N	100	N	N	.04
KR5046R	N	N	20	N	N	N	20	N	N	N
KR5047R	N	N	<10	N	N	N	N	N	N	N
KR5048R	N	N	15	N	<10	N	150	N	N	N
KR5049R	<5	500	50	N	50	N	20	N	N	.10
KR5050R	N	N	<10	N	N	N	N	N	N	N
KR5051R	N	N	30	N	N	<200	N	N	.10	1.20
KR5052R	30	<100	100	N	30	<200	150	N	N	.02
KR5053R	5	<100	10	N	50	N	200	N	N	N
KR5054R	N	N	N	N	<10	N	N	N	N	.02
KR5055R	30	<100	100	N	30	300	200	N	N	N
KR5056R	N	N	N	N	<10	N	N	N	N	N
KR5057R	5	N	<10	N	20	N	200	N	N	N
KR5058R	5	N	10	N	20	N	150	N	N	N
KR5059R	N	N	<10	N	10	N	N	N	N	N
KR5060R	7	N	30	N	30	<200	300	N	N	N
KR5061R	N	N	N	N	N	200	N	N	N	<.02
KR5062R	15	100	100	N	30	<200	150	N	N	.24
KR5063R	10	150	30	N	30	200	200	N	N	.08
KR5064R	N	200	N	N	N	N	N	N	N	.10
KR5065R	N	300	<10	N	<10	N	N	N	N	.04
KR5066R	N	150	N	N	<10	N	N	N	N	N
KR5067R	30	1,000	200	N	20	N	70	N	N	N
KR5068R	<5	N	10	N	<10	N	30	N	N	.06
KR5069R	20	500	150	N	20	N	100	N	N	<.02
KR5070R	5	200	20	N	20	N	70	N	N	N
KR5071R	N	5,000	700	N	<10	300	N	N	N	.10
KR5072R	20	500	150	N	30	200	150	N	<.05	N
KR5073R	7	1,000	50	N	10	200	150	N	N	N
KR5074R	N	>5,000	1,000	N	N	200	N	N	<.05	.56
KR5075R	10	1,500	200	N	N	<200	50	N	N	.18
KR5175R	N	N	20	300	N	200	N	N	3.50	.08
KR5176R	N	<100	15	N	N	1,000	20	N	.15	.10

TABLE 5-- ANALYSES OF ROCK SAMPLES FROM THE NEW WATER MOUNTAINS, BLM WILDERNESS STUDY AREA, LA PAZ COUNTY, ARIZONA.--Continued

Sample	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa	Tl-ppm aa	H-ppm cm	F-ppm sl	U-inst
KR2021R	--	45	>2,000	18.0	N	22	.40	18.0	500	1.20
KR2022R	--	30	600	9.0	1	8	.30	2.4	300	.70
KR2066R	--	85	>2,000	50.0	N	16	.30	4.5	N	2.50
KR2067R	--	700	700	1.9	N	8	.30	1.5	100	2.60
KR3013R	--	5	210	N	N	1	.60	.5	300	.20
KR3038R	--	1,400	250	.3	N	98	100.00	1.0	200	1.80
KR5043R	.30	N	<5	N	N	N	N	13.0	N	.30
KR5044R	1.70	50	100	.8	600	70	1.10	70.0	600	5.60
KR5045R	N	20	20	.4	N	2	.30	120.0	400	8.90
KR5046R	N	N	<5	.1	N	N	.25	3.0	100	.25
KR5047R	.30	N	N	N	N	N	N	.5	N	.15
KR5048R	N	N	N	N	N	N	.20	3.5	100	.30
KR5049R	N	N	10	.9	N	N	N	1.0	200	2.60
KR5050R	N	N	N	.1	N	N	N	N	N	.15
KR5051R	.45	10	65	.4	30	8	N	N	N	12.00
KR5052R	N	N	90	.1	N	N	.50	1.0	400	.80
KR5053R	N	N	<5	N	N	N	.25	2.0	100	1.10
KR5054R	N	N	<5	N	N	N	N	N	N	.05
KR5055R	N	N	270	.3	N	N	.30	2.0	500	1.30
KR5056R	N	N	<5	N	N	N	N	N	N	.30
KR5057R	.05	N	5	N	N	N	.35	1.5	300	1.90
KR5058R	N	N	<5	N	N	N	.40	2.0	300	.40
KR5059R	N	N	<5	N	N	N	N	.5	N	.25
KR5060R	N	N	<5	N	N	N	.75	1.5	400	.30
KR5061R	N	N	250	2.7	N	N	N	N	N	.35
KR5062R	N	30	110	1.7	N	N	1.00	8.0	400	2.50
KR5063R	N	50	170	.5	N	2	.60	6.0	300	2.30
KR5064R	N	N	5	.2	N	N	N	3.5	100	.45
KR5065R	N	N	80	.2	N	N	.05	3.5	100	.30
KR5066R	N	N	40	.2	N	N	.05	6.5	100	.45
KR5067R	N	20	75	.1	N	N	N	4.5	200	.80
KR5068R	<.05	N	<5	N	N	N	.20	4.5	100	.25
KR5069R	N	10	75	.1	N	N	.15	.5	300	.25
KR5070R	N	140	100	1.2	N	<2	.75	1.0	200	2.70
KR5071R	N	2,700	490	.1	N	240	100.00	1.0	N	.65
KR5072R	N	20	200	N	N	<2	.50	.5	200	1.50
KR5073R	N	50	50	N	N	<2	3.60	N	400	1.10
KR5074R	N	1,800	500	N	N	130	240.00	3.5	600	1.90
KR5075R	N	500	170	N	N	50	67.00	.5	200	1.00
KR5175R	150.00	120	.20	.8	270	400	N	>500.0	N	20.00
KR5176R	.20	10	120	1.0	2	4	.25	3.0	100	.85

TABLE 6.--Description of rock samples from the New Water Mountains WSA

Sample Number	Rock Description
KR-0011R	Volcanic rock
KR-0012RA	Vesicular volcanics
KR-0012RB	Volcanic rock with Mn-oxide veinlets
KR-0012RC	Vesicular volcanic with Mn oxides
KR-0012RD	Vesicular volcanics
KR-0025R	Quartz vein with siderite
KR-0028R	Quartz vein with siderite and oxidized sulfides
KR-0044R	Vitrophyre
KR-0073R	Vesicular volcanics with Cu oxide in vugs
KR-0075RA	Fault breccia of volcanics and Cu oxides
KR-0075RB	Fault breccia of volcanics and Cu oxides
KR-0088R	Quartz vein with oxidized sulfides
KR-0090RA	Brecciated quartz vein with calcite and Fe and Cu oxides
KR-0090RB	Quartz vein with boxwork limonite and minor Cu oxides
KR-0090RC	Brecciated quartz vein with limonite boxworks
KR-1137R	Shale
KR-1138R	Quartz vein with Cu oxides
KR-1162R	Quartzite
KR-1163R	Rhyolite
KR-1164R	Rhyolite
KR-1165R	Fe-oxide stained rhyolite
KR-1166R	Brecciated vein of Cu oxides and Fe oxides
KR-1168R	Dacite flow
KR-1169R	Dacite flow
KR-1170R	Dacite flow
KR-1171R	Basalt
KR-1172R	Basalt flow
KR-1173R	Basalt flow
KR-11174R	Siltstone
KR-1175R	Rhyolite flow
KR-1176R	Obsidian
KR-1177R	Basalt flow
KR-1178R	Rhyolite plug
KR-1179R	Quartz vein
KR-1180R	Mn-oxide rich vein
KR-1181R	Vein of quartz, calcite, Mn-Fe oxides
KR-1182R	Dark, gray, calcite vein
KR-1183R	Graywacke with Fe-oxide vein
KR-1184R	Andesite
KR-1185R	Fe-oxide stained adamellite with quartz vein
KR-1186R	Quartz vein with Fe oxides
KR-1187R	Quartz vein
KR-11884	Quartz vein with Fe and Cu oxides and sulfides
KR-1189R	Quartz vein with Fe and Cu oxides and sulfides
KR-1190R	Quartz vein
KR-1191R	Quartz vein with calcite, Fe oxides, and pyrite

TABLE 6.--Continued

KR-1192R	Quartz veing with Cu and Fe oxides
KR-1193R	Quartz vein with galena, pyrite, and Fe oxides
KR-1194R	Calcite vein with pyrite
KR-1195R	Calcite and quartz vein with sulfides and Cu and Fe oxides
KR-1196R	Shear zone containing Fe and Cu oxides
KR-1197R	Brecciated quartz vein with Fe and Cu oxides
KR-1198R	Fe-stained felsite
KR-1199R	Sandstone
KR-1200R	Siltstone
KR-1201R	Sandstone
KR-1202R	Mineralized quartz vein
KR-1203R	Phyllite
KR-1204R	Mineralized quartz vein
KR-1205R	Mineralized quartz vein
KR-1209R	Mineralized quartz vein
KR-1210R	Mineralized quartz vein
KR-1211R	Rhyolite with Cu oxides and Fe staining
KR-1212R	Rhyolite
KR-1213R	Basalt with Fe-stained quartz veins and Cu oxides
KR-1223R	Rhyolite plug
KR-1224R	Sandstone
KR-1225R	Sandstone
KR-1226R	Sandstone
KR-1227R	Fe-stained sandstone with quartz and calcite veins
KR-1228R	Calcite vein
KR-1229R	Dacite
KR-2000R	Tourmaline schist
KR-2001R	Quartz vein with limonite pseudomorphs after pyrite and minor copper staining
KR-2002R	Limonite boxworks
KR-2003R	Micaceous phyllite with limonite pseudomorphs
KR-2004R	Quartz vein with hematite and malachite
KR-2008R	Quartz vein with galena and copper staining
KR-2009R	Calcite vein with pyrite
KR-2010R	Black, brecciated calcite, limonite, quartz, and gypsum
KR-2011R	Limonite
KR-2012R	Dolomite breccia cemented by Fe oxides
KR-2013R	Limonite
KR-2014R	Black, carbonaceous dolomite
KR-2015R	Fe-stained siliceous vein
KR-2016R	Quartzite breccia with copper staining
KR-2017R	Silicic volcanics with chrysocolla
KR-2018R	Rhyolite
KR-2019R	Rhyolite breccia with copper staining
KR-2020R	Black, brecciated calcite
KR-2021R	Quartz with Mn oxides
KR-2022R	Black calcite vein
KR-2066R	Mn-oxide rich rock

TABLE 6.--Continued

KR-2067R	Quartz vein with limonite boxworks, calcite, and gypsum
KR-3013R	Volcanic rock
KR-3038R	Quartz and Mn oxides
KR-5043R	Cu-stained quartz vein
KR-5044R	Micaceous phyllite
KR-5045R	Brown, dolomitic phyllite
KR-5046R	Sulfide-bearing quartz vein
KR-5047R	Quartz vein
KR-5048R	Quartzite
KR-5049R	Dolomitic sandstone with quartz and tourmaline veins
KR-5050R	Quartz vein
KR-5051R	Brecciated quartz vein with Cu oxides, hematite, and siderite
KR-5052R	Sandy metamorphic rock
KR-5053R	Quartz monzonite
KR-5054R	Quartz vein with siderite
KR-5055R	Sandy metamorphics with oxidized sulfides
KR-5056R	Quartz vein
KR-5057R	Quartz monzonite
KR-5058R	Quartz vein
KR-5059R	Quartz vein
KR-5060R	Muscovite-rich phyllite
KR-5061R	Quartz vein
KR-5062R	Altered phyllite with pyrite
KR-5063R	Phyllite with pyrite
KR-5064R	Dark, siliceous marble
KR-5065R	Quartz and marble
KR-5066R	Siliceous dolomite
KR-5067R	Mafic dike
KR-5068R	Quartzite
KR-5069R	Fine-grained quartz-feldspar-chlorite metamorphic rock
KR-5070R	Quartz in phyllite
KR-5071R	Black, siliceous rock
KR-5072R	Vuggy, andesitic volcanics
KR-5073R	Altered andesitic volcanics
KR-5074R	Black, silica veinlets
KR-5075R	Black, silica veinlets
KR-5175R	Limonite pseudomorphs after pyrite
KR-5176R	Quartz vein