UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results and sample locality map of stream-sediment, heavy-mineral-concentrate, and rock samples from the Indian Pass (CDCA-355) and Picacho Peak (CDCA-355A) Wilderness Study Areas, Imperial County, California

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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 the Congress. This report presents the results of a mineral survey of the Picacho Peak (CDCA-355) and Indian Pass (CDCA-355A) Wilderness Study Areas, Imperial County, California.

INTRODUCTION

In March 1982, and April and November 1983, the U.S. Geological Survey conducted a reconnaissance geochemical survey of the Indian Pass and Picacho Peak Wilderness Study Areas, Imperial County, California.

The Indian Pass and Picacho Peak Wilderness Study Areas (WSA) comprise about 48 mi^2 (124 km^2) and 9 mi^2 (23 km^2), respectively. They are located in easternmost Imperial County, California, and lie about 25 mi (40 km) north-northwest of Yuma, Arizona (see figure 1). Access to the WSA's (henceforth referred to collectively as the study area) is provided on the south and west by gravel and unimproved roads, many of which can be traveled only by four-wheel drive vehicles.

Rock units exposed in the southern and western portions of the study area are dominantly Precambrian and/or Mesozoic quartzo-feldspathic gneiss, Mesozoic Orocopia Schist, and Tertiary basalt and conglomerate. The Orocopia Schist of Peter Kane Mountain in the western part of the study area is intruded and thermally metamorphosed by an Oligocene monzogranite. The portion of the study area north of Gavilan Wash and east of Peter Kane Mountain is underlain predominantly by Tertiary volcanic rocks with some exposures of monzogranite and metasediments of Mesozoic age. The individual formations are described in detail by Sherrod and others (1984). Other geologic studies involving portions of the study area include Haxel and Dillon (1973, 1978); Olmsted and others (1973); Dillon (1976); Haxel (1977); Crowe and others (1979); and Crowe (1973, 1978).

The topographic relief in the study area is about 1,800 ft (549 m), with a maximum elevation of 2,177 ft (664 m) at Quartz Peak. Intermittent streams have dissected the land into an intricate pattern of rounded hills, flat mesas, and steep-walled arroyos. The climate is arid.

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

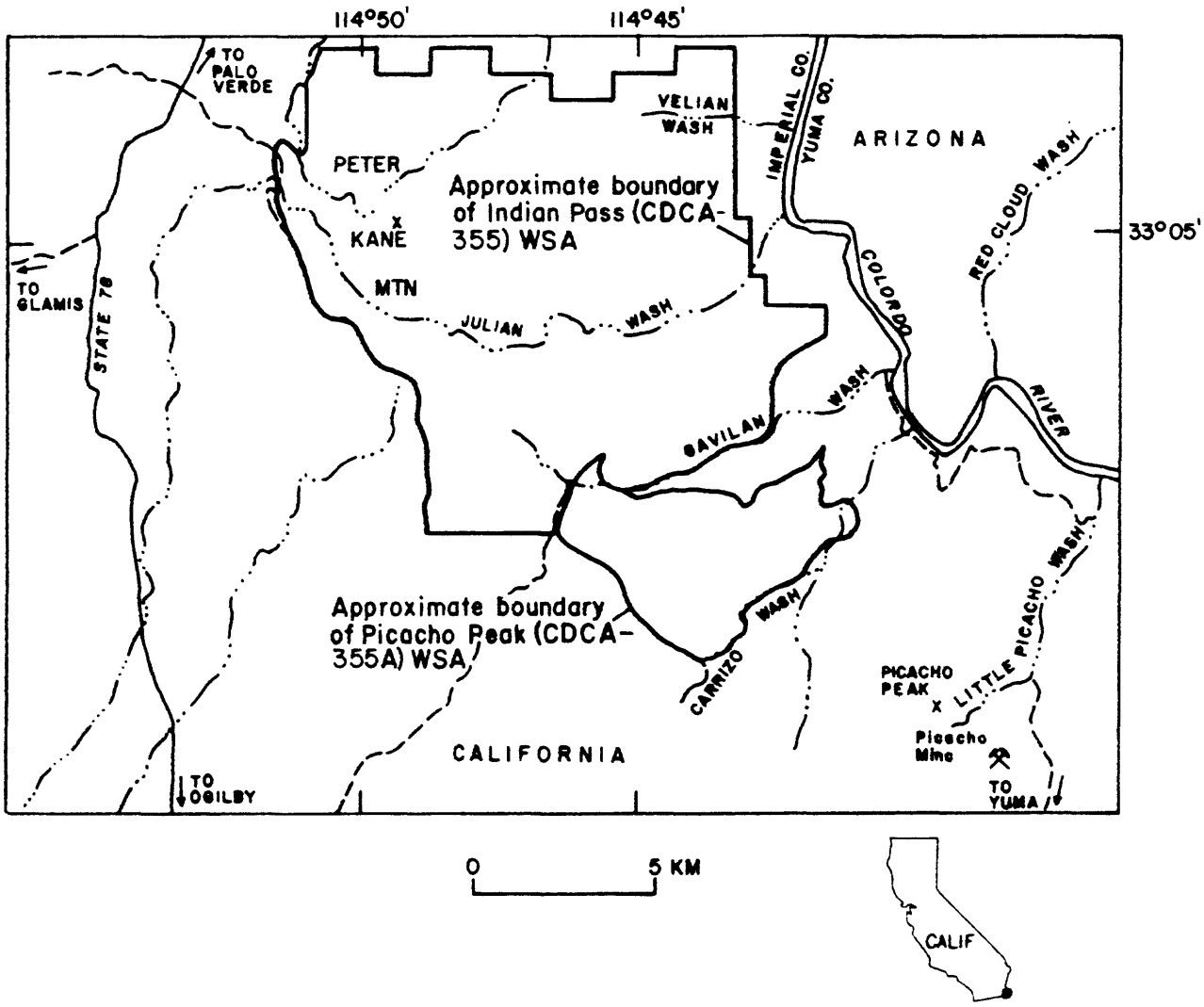

Figure 1. Index map of the Indian Pass and Picacho Peak Wilderness Study Area, Imperial County, California.

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.

Sample Collection

Both a stream-sediment sample and a heavy-mineral-concentrate sample were collected at 89 sites (plate 1). At 13 of these sites, duplicate sediment and concentrate samples were collected to determine the variation due to sampling. One hundred ninety-three rocks were collected (plate 2). Sampling density was about 1 sample site per 0.64 mi^2 for the stream sediments and heavy-mineral concentrates, and about 1 sample site per 0.30 mi^2 for the rocks.

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 50 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 were collected from (1) mines and prospects to determine geochemical signatures of mineralization, (2) areas of obvious alteration to determine if alteration might indicate mineralization, and (3) unaltered rocks to get an estimate of background geochemical values. Table 1 gives a brief description of the rock samples.

Sample Preparation

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.

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 analysis/archival storage. The third

fraction (the least magnetic material including the nonmagnetic ore minerals, zircon, sphene, etc.) was split using a Jones splitter. This split was hand-ground for spectrographic 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 0.1 ampere to remove the magnetite and ilmenite, and a current of 1.0 ampere to split the remainder of the sample into paramagnetic and nonmagnetic fractions.

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

Sample Analysis

Spectrographic method

The stream-sediment, 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 2. 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 study area are listed in tables 4-6.

Chemical Methods

Other methods of analysis used on samples from the study area are summarized in table 3.

Analytical results for stream-sediment, heavy-mineral-concentrate, and rock samples are listed in tables 4, 5, and 6, 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, 1976).

DESCRIPTION OF DATA TABLES

Tables 4-6 list the 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 (plates 1 and 2). Columns which show the letter "S" preceding the element symbol are emission spectrographic analyses; "AA" indicates atomic absorption 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 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 tables 4-6 in place of an analytical value. Because of the formatting used in the computer program that produced tables 4-6, 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.--Description of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas

Sample No.	Description
BPP001-BPP003	Quartz veins with secondary copper oxides
BPP004	Bleached, thin-bedded tuffaceous sediment
BPP005-BPP007	Zone of silica-clay alteration along low-angle structure in
BPP009-BPP011	metasediments
BPP008	Quartz-siderite vein with copper oxides
BPP800-BPP802	Iron-stained rhyolite porphyry
BPP803A	Quartz pod within Orocopia Schist
BPP803B	Breccia at contact of quartz pod and Orocopia Schist
BPP804	Monzogranite with minor iron staining
BPP805	Secondary copper minerals and stockwork calcite veinlets at contact of monzogranite and Orocopia Schist
BPP806-BPP809	Iron staining and secondary copper minerals in silicified aplite which intrudes Orocopia Schist
BPP810	Unmineralized Orocopia Schist
BPP811	Aplite with secondary copper minerals
BPP812	Aplite float with secondary copper minerals
BPP813-BPP815	Brecciated, silicified aplite
BPP816	Silicified material near contact of monzogranite and Orocopia Schist
BPP817	Quartz vein
BPP818	Aplite
BPP819	Quartz vein
BPP820-BPP823	Zone of secondary copper mineralization near contact of monzogranite and Orocopia Schist
BPP824-BPP826	Zone of iron staining and secondary copper minerals within monzogranite
BPP827A	White volcanic ash
BPP827B	Silicified zone beneath BPP827A
BPP828	Brecciated, silicified volcanic rock
BPP829	Silicified volcanic rock
BPP830-BPP831	Orocopia Schist with calcite veinlets

TABLE 1.--Description of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas (continued)

Sample No.	Description
BPP832	Pegmatite vein in Orocopia Schist (found in float)
BPP833	Metachert(?) zone in Orocopia Schist
BPP834	Orocopia Schist
BPP835	Pegmatite vein in Orocopia Schist
BPP836	Monzogranite
BPP837	Brecciated, silicified volcanic rock
BPP838	Brecciated volcanic with quartz crystals along fractures
BPP839	White, unwelded tuff
BPP840	Red, unwelded tuff
BPP841	Green, unwelded tuff
BPP842	Silicified, brecciated volcanic rock
BPP843	Calcite vein in metasediments. Metasediments bleached on each side of vein
BPP844	Metasediments
BPP845	Brecciated metasediments
BPP846	Quartz vein within metasediments
BPP847	Bleached metasediments
BPP850	Volcanic breccia
BPP851	White tuff
BPP852	Green tuff breccia
BPP853	Rhyodacite flow
BPP854	Volcanic breccia
BPP855	Silica-clay alteration and brecciation near fault zone
BPP856	Tuffaceous siltstone with calcite veinlets

TABLE 1.--Description of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas (continued)

Sample No.	Description
BPP857-BPP861	Shattered monzogranite, contains oxidized pyrite crystals and pyrite-bearing quartz veins
BPP862	Green volcanic
BPP863	Calcite vein
BPP864	Breccia along fault zone
BPP865	Calcite veinlets near fault zone
BPP866-BPP867	Breccia along fault zone
BPP868	Calcite veinlet
BPP878-BPP882	Metasediments along low-angle structure
BPP883	Small, sulfide-bearing quartz vein
BPP884-BPP886	Metasediments with calcite and quartz veinlets
BPP887	Metasediments with secondary copper minerals in quartz vein (found in float)
BPP917-BPP918	Tuffaceous siltstone, calcareous
BPP919-BPP923	Silica-clay alteration and brecciation near fault zone
BPP924	Tuffaceous siltstone
BPP925	Quartz vein
BPP926-BPP930	Silicified rhyodacite
BPP931	Iron-stained volcanic
BPP932	Orocopia Schist
BPP932A	Quartz vein
BPP933	Orocopia Schist
BPP933A	Quartz vein
BPP934	Orocopia Schist
BPP934A	Aplite
BPP935-BPP937	Orocopia Schist

TABLE 1.--Description of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas (continued)

Sample No.	Description
BPP938	Monzogranite
BPP939	Orocopia Schist
BPP939A	Quartz vein
BPP940-BPP941	Orocopia Schist
BPP942-BPP942A	Contact zone between monzogranite and Orocopia Schist
BPP943-BPP945	Orocopia Schist
BPP945A	Aplite, garnet-bearing
BPP946-BPP949	Orocopia Schist
BPP949A	Quartz vein
BPP950-BPP960	Orocopia Schist
BPP960A	Quartz vein
BPP961	Orocopia Schist
BPP962	Brecciated gneiss, cut by chalcedonic quartz-filled veinlets
BPP963	Limonite stained and brecciated gneiss
BPP964	Pyrite-bearing pegmatite
BPP965	Felsic gneiss
BPP966	Felsic gneiss
BPP967	Fault gouge
BPP968	Brecciated quartz vein
BPP969	Quartz with limonite boxworks from mine dump
BPP970-BPP972	Brecciated rhyolite
BPP973-BPP976	Brecciated gneiss
BPP977	Tourmaline-bearing, muscovite orthogneiss
BPP978	Chalcedonic, quartz-flooded zone

TABLE 1.--Description of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas (continued)

Sample No.	Description
BPP979	Brecciated gneiss cut by jasper and chalcedony veinlets
BPP980	Biotite quartzo-feldspathic gneiss
BPP981	Brecciated gneiss
BPP982-BPP984	Copper-stained quartz vein
BPP985	Brecciated quartz latite
BPP986	Calcareous sandstone and siltstone
BPP987	Quartz latite breccia
BPP988	Bleached and silicified quartz latite
BPP989	Limonite-stained quartz latite
BPP990	Rhyodacite dome containing oxidized pyrite
BPP991	Quartz latite
BPP992	Brecciated, pyrite-bearing monzogranite
BPP993	Metachert and marble of the Orocopia Schist
BPP994	Chalcedonic quartz vein that cuts monzogranite

TABLE 2.--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 3.--Chemical methods used

[AA = atomic absorption; I = instrumental; SI = specific ion; CM - colorimetric; T = HF digestion; and P = other digestions]

Element or constituent determined	Sample Type	Method	Determination limit (micrograms/ gram or ppm)	Reference
Thallium (Tl)	Rocks	AA-T	0.2	Hubert and Lakin, 1973.
Gold (Au)	Rocks	AA-P	0.05	Thompson and others, 1968.
Mercury (Hg)	Rocks	I	0.02	Modification of McNerney and others, 1972, and Vaughn, and McCarthy, 1964.
Arsenic (As)	Sediments and Rocks	AA-P	5 or 10	Modification of Viets, 1978.
Antimony (Sb)	Sediments and Rocks	AA-P	2	
Zinc (Zn)	Sediments and Rocks	AA-P	5	
Bismuth (Bi)	Sediments and Rocks	AA-P	1	
Cadmium (Cd)	Sediments and Rocks	AA-P	0.1	
Fluorine (F)	Rocks	SI	100	Hopkins, 1977.
Tungsten (W)	Rocks	CM-P	0.5 or 1	Welsch, 1983.

Table 4. Analyses of stream-sediment samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.

[N, NOT DETECTED; <, DETECTED BUT BELOW THE LIMIT OF DETERMINATION SHOWN; >, DETERMINED TO BE GREATER THAN THE VALUE SHOWN.]

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD	S-CO	S-CR
PP100	33 3 35	114 47 54	5	1.0	1	.3	700	N	N	N	30	700	1.0	N	N	15	100
PP101	33 3 28	114 47 57	5	1.0	1	.3	700	N	N	N	70	700	1.0	N	N	15	70
PP102	33 3 49	114 48 37	5	1.0	1	.3	700	N	N	N	70	500	1.0	N	N	15	70
PP103	33 3 48	114 49 18	5	1.0	1	.3	700	N	N	N	30	500	1.0	N	N	15	150
PP104	33 4 45	114 50 31	2	1.0	1	.2	300	N	N	N	30	500	3.0	N	N	10	70
PP105	33 5 19	114 50 52	3	1.0	1	.3	700	N	N	N	50	700	1.0	N	N	15	100
PP106	33 4 42	114 45 52	3	1.0	1	.2	500	N	N	N	30	700	2.0	N	N	15	70
PP107	33 5 54	114 51 30	3	1.0	1	.2	700	N	N	N	50	700	5.0	N	N	15	70
PP108	33 6 11	114 51 6	3	1.0	1	.2	700	N	N	N	30	500	1.0	N	N	15	50
PP109	33 5 41	114 50 18	3	1.0	1	.2	500	N	N	N	70	500	1.0	N	N	15	70
PP110	33 7 7	114 50 45	2	1.0	1	.3	700	N	N	N	20	500	1.0	N	N	10	50
PP111	33 6 34	114 50 21	2	1.0	1	.3	700	N	N	N	30	500	1.0	N	N	10	50
PP112	33 6 50	114 49 36	2	1.0	1	.3	500	N	N	N	15	500	1.0	N	N	10	50
PP113	33 7 28	114 49 40	5	1.0	1	.5	700	N	N	N	30	500	1.0	N	N	15	100
PP114	33 7 0	114 48 39	3	1.0	1	.3	500	N	N	N	30	500	1.0	N	N	10	70
PP115	33 6 8	114 48 44	3	1.0	1	.3	500	N	N	N	30	300	1.0	N	N	10	50
PP116	33 5 21	114 48 19	3	1.0	1	.3	500	N	N	N	30	300	1.0	N	N	10	50
PP117	33 4 41	114 47 34	3	1.0	1	.3	500	N	N	N	30	300	1.0	N	N	10	50
PP118	33 4 39	114 47 45	3	1.0	1	.5	500	N	N	N	50	300	1.0	N	N	10	70
PP119	33 4 33	114 47 9	5	1.0	1	.5	700	N	N	N	20	300	1.0	N	N	10	70
PP120	33 4 4	114 46 22	2	.7	2	.5	500	N	N	N	50	1,000	1.0	N	N	15	70
PP121	33 3 50	114 46 28	3	2.0	2	.5	500	N	N	N	50	700	1.0	N	N	15	100
PP122	33 1 47	114 46 36	3	2.0	2	.5	700	N	N	N	50	700	1.0	N	N	20	300
PP123	33 1 31	114 45 21	2	1.0	2	.3	500	N	N	N	50	1,000	1.0	N	N	10	100
PP124	33 1 27	114 45 31	2	2.0	2	.3	500	N	N	N	30	700	1.0	N	N	50	100
PP125A	33 1 41	114 44 16	2	2.0	2	.3	500	N	N	N	50	700	1.0	N	N	15	100
PP125B	33 1 41	114 44 16	2	1.0	2	.3	500	N	N	N	50	700	1.0	N	N	15	100
PP126	33 1 38	114 43 53	2	1.0	2	.3	500	<.5	N	N	30	700	1.0	N	N	10	70
PP127	33 1 58	114 43 0	2	1.0	2	.5	500	N	N	N	50	700	1.0	N	N	10	50
PP128	33 0 21	114 45 52	5	2.0	5	.7	1,500	N	N	N	100	2,000	1.0	N	N	15	150
PP129	33 1 0	114 47 25	7	3.0	7	1.0	1,500	N	N	N	100	700	1.0	N	N	20	200
PP130A	33 1 43	114 48 4	10	3.0	7	>1.0	1,500	N	N	N	100	1,500	1.5	N	N	20	150
PP130B	33 1 43	114 48 4	7	2.0	5	1.0	1,500	N	N	N	150	1,000	1.0	N	N	20	150
PP131	33 1 40	114 49 4	7	3.0	10	1.0	2,000	N	N	N	150	2,000	1.0	N	N	15	200
PP132	33 0 59	114 49 23	7	3.0	7	>1.0	1,500	N	N	N	100	2,000	1.0	N	N	20	150
PP133	33 1 55	114 49 58	10	2.0	7	>1.0	2,000	N	N	N	100	2,000	1.0	N	N	20	150
PP134	33 2 26	114 49 26	10	2.0	7	>1.0	3,000	N	N	N	150	1,000	<1.0	N	N	20	200
PP135A	33 3 3	114 47 23	7	2.0	5	1.0	1,500	N	N	N	100	2,000	<1.0	N	N	15	200
PP135B	33 3 3	114 47 23	10	3.0	10	1.0	1,500	N	N	N	200	2,000	1.0	N	N	20	200
PP136	33 3 0	114 47 17	5	2.0	5	.7	1,500	N	N	N	150	1,000	1.5	N	N	15	150
PP137	33 3 30	114 47 0	7	2.0	5	1.0	1,500	N	N	N	100	1,500	1.5	N	N	20	150
PP138	33 3 24	114 46 56	10	2.0	5	>1.0	2,000	N	N	N	70	700	1.0	N	N	15	200
PP139	33 3 14	114 45 56	5	2.0	7	.7	1,500	N	N	N	70	700	1.5	N	N	20	150
PP140A	33 3 22	114 45 11	5	2.0	5	1.0	1,500	N	N	N	70	1,000	1.0	N	N	15	100
PP140B	33 3 22	114 45 11	5	2.0	5	1.0	1,000	N	N	N	70	1,000	1.0	N	N	15	100

Table 4. Analyses of stream-sediment samples from the Indian Pass and Picacho Peak PLM Wilderness Study Areas, Imperial County, California.

SAMPLE	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH	AA-AS-P	AA-ZN-P	AA-SB-P
PP100	15	20	N	N	50	20	N	N	300	100	N	20	<200	200	N	10	30	N
PP101	15	20	N	N	20	20	N	N	300	100	N	30	<200	300	N	15	20	N
PP102	15	20	N	N	30	20	N	N	200	100	N	20	<200	200	N	5	15	N
PP103	15	20	N	N	50	20	N	N	300	100	N	20	<200	500	N	<5	15	N
PP104	15	20	N	N	30	20	N	N	200	70	N	20	<200	500	N	5	10	N
PP105	20	50	N	N	50	50	N	N	200	70	N	30	<200	200	N	5	15	N
PP106	15	20	N	N	50	15	N	N	200	70	N	20	<200	200	N	5	45	N
PP107	15	50	N	N	70	20	N	N	200	70	N	30	<200	300	N	<5	20	N
PP108	15	20	N	N	20	20	N	N	200	70	N	20	<200	200	N	5	30	N
PP109	15	20	N	N	20	20	N	N	200	70	N	30	<200	200	N	<5	30	N
PP110	15	50	N	N	10	20	N	N	200	50	N	20	<200	200	N	5	40	N
PP111	15	100	N	N	10	30	N	N	200	50	N	20	<200	300	N	5	35	N
PP112	10	20	N	N	10	10	N	N	200	50	N	20	N	300	N	<5	15	N
PP113	15	100	N	N	20	20	N	N	300	100	N	20	N	300	N	<5	20	N
PP114	30	30	N	N	10	70	N	N	200	50	N	20	<200	200	N	<5	90	N
PP115	15	20	N	N	20	20	N	N	200	50	N	20	N	300	N	<5	35	N
PP116	15	20	N	N	20	20	N	N	200	50	N	20	N	500	N	<5	30	N
PP117	10	30	N	N	20	30	N	N	200	50	N	20	N	200	N	<5	15	N
PP118	15	30	N	N	30	20	N	N	200	70	N	20	<200	1,000	N	<5	20	N
PP119	20	70	N	N	15	10	N	N	300	100	N	10	N	300	N	N	35	N
PP120	15	20	5	N	20	20	N	N	300	70	N	30	<200	500	N	<5	20	N
PP121	15	30	5	N	70	20	N	N	300	100	N	30	N	500	N	<5	15	N
PP122	15	30	5	N	70	20	N	N	300	100	N	30	<200	500	N	10	15	N
PP123	15	20	<5	N	5	20	N	N	300	100	N	30	<200	500	N	<5	15	N
PP124	15	20	<5	N	50	20	N	N	300	100	N	20	N	300	N	5	15	N
PP125A	15	20	N	N	30	20	N	N	300	100	N	20	<200	300	N	<5	25	N
PP125B	15	20	N	N	30	20	N	N	300	100	N	20	<200	300	N	<5	30	N
PP126	15	20	N	N	10	20	N	N	200	100	N	30	<200	300	N	<5	30	N
PP127	15	20	N	N	10	20	N	N	200	100	N	30	<200	500	N	5	25	N
PP128	20	100	N	<20	30	50	N	N	300	200	N	50	N	500	N	5	35	N
PP129	30	100	N	20	70	50	N	N	300	200	N	70	N	300	N	20	35	N
PP130A	50	150	N	<20	50	70	N	N	500	200	N	50	N	200	N	20	40	N
PP130B	50	100	N	<20	50	30	N	N	300	200	N	70	N	700	N	15	40	N
PP131	30	100	N	N	70	100	N	N	700	200	N	50	N	700	N	10	50	N
PP132	70	100	N	<20	50	150	N	N	500	200	N	50	N	500	N	10	50	N
PP133	50	100	N	<20	50	50	N	N	300	300	N	30	N	700	N	5	40	N
PP134	30	200	N	20	50	100	N	N	500	300	N	100	N	1,000	N	5	40	N
PP135A	20	150	N	20	30	30	N	N	300	300	N	70	N	1,000	N	<5	30	N
PP135B	70	150	N	20	50	70	N	N	500	300	N	70	N	>1,000	N	N	30	N
PP136	20	150	N	<20	30	30	N	N	500	150	N	70	N	500	N	5	30	N
PP137	30	100	N	<20	30	50	N	N	300	200	N	50	N	700	N	15	35	N
PP138	30	100	N	20	30	30	N	N	300	300	N	70	N	1,000	N	5	30	N
PP139	20	100	N	<20	30	50	N	N	700	150	N	50	N	500	N	<5	30	N
PP140A	20	100	N	20	20	70	N	N	700	150	N	50	N	700	N	5	35	N
PP140B	20	150	N	<20	20	30	N	N	500	150	N	50	N	500	N	5	35	N

Table 4. Analyses of stream-sediment samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD	S-CO	S-CR
PP141	33 3 32	114 45 2	5	2.0	5	.7	2,000	N	N	N	100	1,500	1.5	N	N	15	300
PP142	33 3 38	114 45 12	5	2.0	5	1.0	2,000	N	N	N	150	2,000	1.5	N	N	20	150
PP143	33 4 1	114 45 1	7	3.0	7	.7	1,500	N	N	N	100	2,000	3.0	N	N	20	150
PP144	33 5 9	114 45 3	7	3.0	5	1.0	1,500	N	N	N	100	2,000	1.0	N	N	20	150
PP145A	33 5 45	114 45 52	5	2.0	7	.7	1,000	N	N	N	70	1,000	1.5	N	N	15	150
PP145B	33 5 45	114 45 52	7	1.5	7	1.0	1,500	N	N	N	100	700	1.5	N	N	15	200
PP146	33 5 39	114 46 3	7	2.0	10	>1.0	1,000	N	N	N	100	1,500	1.0	N	N	20	150
PP147	33 6 24	114 47 4	7	2.0	7	.7	1,000	N	N	N	100	1,500	1.5	N	N	15	150
PP148	33 6 37	114 47 51	7	2.0	7	1.0	2,000	N	N	N	150	700	1.5	N	N	20	150
PP149	33 7 16	114 46 53	7	2.0	7	1.0	1,500	N	N	N	150	1,000	1.5	N	N	15	100
PP150A	33 7 12	114 46 47	5	1.5	10	.7	1,500	N	N	N	150	700	1.0	N	N	15	150
PP150B	33 7 12	114 46 47	5	1.5	5	1.0	1,000	N	N	N	100	700	1.5	N	N	15	200
PP151	33 7 33	114 46 8	7	2.0	10	1.0	1,500	N	N	N	70	700	1.0	N	N	20	100
PP152	33 6 58	114 44 17	10	3.0	10	>1.0	>5,000	N	N	N	50	5,000	<1.0	N	N	150	150
PP153	33 7 2	114 43 50	15	2.0	7	>1.0	5,000	N	N	N	100	5,000	<1.0	N	N	50	300
PP154	33 6 58	114 43 20	10	3.0	7	>1.0	3,000	N	N	N	150	700	1.0	N	N	30	150
PP155A	33 6 12	114 43 20	7	3.0	10	>1.0	3,000	N	N	N	200	1,000	1.0	N	N	30	200
PP155B	33 6 12	114 43 20	7	5.0	10	1.0	2,000	N	N	N	500	1,000	1.5	N	N	30	150
PP156	33 6 1	114 43 19	7	3.0	7	>1.0	3,000	N	N	N	300	700	1.5	N	N	50	150
PP157	33 6 18	114 44 8	7	2.0	10	>1.0	2,000	N	200	N	300	1,500	1.5	N	N	20	150
PP158	33 6 24	114 44 45	7	3.0	7	1.0	2,000	N	N	N	200	500	1.0	N	N	20	150
PP159	33 5 48	114 44 11	7	2.0	5	1.0	2,000	N	N	N	200	1,000	1.5	N	N	15	100
PP160A	33 5 45	114 43 20	7	2.0	5	1.0	2,000	N	N	N	150	700	1.5	N	N	15	100
PP160B	33 5 45	114 43 20	7	2.0	7	1.0	2,000	N	N	N	100	1,000	1.5	N	N	20	150
PP161	33 5 26	114 43 19	7	2.0	7	1.0	1,500	N	N	N	100	1,000	1.0	N	N	20	150
PP162	33 5 15	114 43 42	7	3.0	7	.7	2,000	N	N	N	150	1,000	1.0	N	N	20	150
PP163	33 5 20	114 43 55	7	2.0	10	1.0	1,500	5.0	N	N	150	700	1.0	N	N	20	200
PP164	33 5 26	114 43 58	7	2.0	10	1.0	1,500	N	N	N	100	700	1.0	N	N	15	150
PP165A	33 5 32	114 44 21	5	1.5	10	.7	1,000	N	N	N	100	1,000	1.5	N	N	15	150
PP165B	33 5 32	114 44 21	7	1.5	10	>1.0	1,500	N	N	N	100	1,000	1.0	N	N	15	150
PP166	33 5 7	114 44 22	7	3.0	10	1.0	1,500	N	N	N	150	1,000	1.0	N	N	15	150
PP167	33 4 26	114 44 22	7	2.0	10	>1.0	1,500	N	N	N	150	1,000	1.0	N	N	15	150
PP168	33 4 23	114 44 26	5	1.5	7	.7	1,000	N	N	N	100	1,000	1.0	N	N	15	100
PP169	33 4 13	114 43 34	10	2.0	10	1.0	1,500	N	N	N	200	700	1.0	N	N	20	200
PP170A	33 4 36	114 43 8	7	2.0	5	1.0	2,000	N	N	N	200	1,000	1.0	N	N	50	100
PP170B	33 4 36	114 43 8	7	2.0	5	1.0	2,000	N	N	N	300	2,000	1.0	N	N	50	100
PP171	33 4 10	114 42 48	5	2.0	7	.7	1,500	N	N	N	200	2,000	2.0	N	N	15	100
PP172	33 3 44	114 43 17	5	1.5	5	1.0	1,500	N	N	N	100	1,000	1.5	N	N	15	150
PP173	33 3 39	114 43 17	5	1.5	7	.7	1,500	N	N	N	70	700	1.5	N	N	15	100
PP174	33 3 22	114 42 48	5	1.5	7	.7	1,000	.5	N	N	100	1,000	1.5	N	N	15	100
PP175A	33 2 56	114 43 4	7	2.0	5	1.0	2,000	N	N	N	100	1,000	1.0	N	N	15	150
PP175B	33 2 56	114 43 4	5	1.5	5	1.0	1,000	N	N	N	70	1,000	1.5	N	N	15	150
PP176	33 2 40	114 43 54	5	3.0	7	1.0	2,000	N	N	N	100	1,000	1.0	N	N	20	200
PP177	33 1 50	114 41 50	7	2.0	7	1.0	3,000	N	N	N	150	1,000	1.5	N	N	15	150
PP178	33 0 30	114 41 50	7	3.0	10	1.0	2,000	N	N	N	100	700	1.5	N	N	20	200

Table 4. Analyses of stream-sediment samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH	AA-AS-P	AA-ZN-P	AA-SB-P
PP141	20	100	N	<20	30	70	N	N	700	150	N	70	N	700	N	<5	30	N
PP142	30	150	N	<20	30	30	N	N	500	200	N	50	N	700	N	10	40	N
PP143	30	150	N	20	30	50	N	N	300	200	N	70	N	700	N	10	40	N
PP144	20	100	N	<20	30	50	N	N	300	200	N	50	N	1,000	N	15	35	N
PP145A	20	100	N	<20	20	30	N	N	700	200	N	50	N	500	N	5	30	N
PP145B	20	200	N	20	30	50	N	N	500	200	N	70	N	>1,000	N	10	30	N
PP146	30	150	N	20	30	20	N	N	500	200	N	150	N	700	N	5	30	N
PP147	20	200	N	<20	20	50	N	N	500	150	N	50	N	>1,000	N	5	30	N
PP148	30	150	N	<20	30	70	N	N	500	200	N	70	N	1,000	N	5	40	N
PP149	30	150	N	<20	30	100	N	N	500	200	N	50	N	1,000	N	5	40	N
PP150A	20	100	N	<20	30	50	N	N	500	150	N	50	N	700	N	5	30	N
PP150B	15	100	N	20	20	30	N	N	300	200	N	50	N	>1,000	N	5	30	N
PP151	15	100	N	20	30	30	N	N	700	200	N	30	N	700	N	10	30	1
PP152	70	700	N	50	30	100	N	N	700	300	N	70	N	500	N	70	40	2
PP153	50	500	N	30	50	100	N	N	700	500	N	50	N	700	N	50	70	7
PP154	30	150	N	20	30	100	N	N	1,000	200	N	50	N	1,000	N	40	75	3
PP155A	30	200	N	20	50	70	N	N	700	200	N	50	N	700	N	40	60	3
PP155B	30	100	5	<20	50	50	N	N	1,000	200	N	70	N	500	N	50	65	3
PP156	30	150	<5	30	50	50	N	N	1,000	300	N	50	N	1,000	N	70	65	5
PP157	50	150	7	20	30	100	N	N	1,000	300	N	70	N	700	N	85	60	9
PP158	20	100	N	<20	30	20	N	N	500	200	N	70	N	500	N	15	60	2
PP159	30	100	N	<20	20	100	N	N	500	200	N	50	N	700	N	5	60	8
PP160A	30	100	N	<20	30	50	N	N	500	200	N	50	N	500	N	10	50	3
PP160B	30	150	N	<20	20	50	N	N	500	300	N	50	N	500	N	15	90	2
PP161	30	100	N	20	30	30	N	N	700	300	N	70	N	700	N	N	45	N
PP162	50	100	7	20	50	50	N	N	300	300	N	70	N	700	N	N	45	N
PP163	30	150	N	20	50	70	N	N	500	200	N	50	N	500	N	N	35	N
PP164	30	100	N	20	30	50	N	N	500	300	N	70	N	1,000	N	N	35	4
PP165A	20	70	N	20	20	30	N	N	300	200	N	70	N	700	N	N	30	4
PP165B	20	100	N	20	30	30	N	N	500	200	N	70	N	500	N	N	30	N
PP166	20	100	N	20	30	50	N	N	300	200	N	70	N	1,000	N	N	35	3
PP167	30	70	N	20	30	50	N	N	500	300	N	50	N	700	N	N	35	N
PP168	20	100	N	20	20	30	N	N	300	300	N	70	N	1,000	N	N	35	N
PP169	50	100	N	20	30	50	N	N	500	300	N	50	N	700	N	N	50	N
PP170A	100	150	7	<20	30	100	N	N	300	200	N	100	N	1,000	N	25	90	5
PP170B	100	200	5	<20	20	100	N	N	300	300	N	70	N	1,000	N	20	80	N
PP171	20	300	N	<20	20	50	N	N	500	150	N	50	N	700	N	10	75	N
PP172	20	100	N	20	20	50	N	N	300	200	N	50	N	>1,000	N	10	40	N
PP173	20	100	N	<20	20	70	N	N	500	150	N	50	N	500	N	5	45	N
PP174	20	100	<5	20	20	100	N	N	500	150	N	50	N	700	N	5	40	N
PP175A	20	100	N	20	20	50	N	N	500	200	N	30	N	1,000	N	5	40	N
PP175B	20	150	N	<20	30	30	N	N	700	200	N	50	N	1,000	N	N	65	N
PP176	20	150	N	<20	30	50	N	N	700	200	N	50	N	>1,000	N	5	40	N
PP177	20	150	N	20	30	100	N	N	700	200	N	70	N	>1,000	N	5	60	N
PP178	30	100	<5	20	30	50	N	N	700	200	N	100	N	700	N	5	50	N

Table 4. Analyses of stream-sediment samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD	S-CO	S-CR
PP179	33 1 15	114 42 51	7	3.0	10	1.0	2,000	N	N	N	150	1,000	2.0	N	N	20	300
PP180A	33 0 6	114 42 37	7	3.0	5	1.0	2,000	N	N	N	100	1,000	1.5	N	N	30	500
PP180B	33 0 6	114 42 37	7	2.0	5	.7	1,500	N	N	N	100	2,000	1.5	N	N	20	500
PP181	32 59 47	114 43 13	7	2.0	7	1.0	1,500	N	N	N	100	1,000	1.0	N	N	15	200
PP182	33 0 2	114 43 53	5	2.0	7	.7	2,000	N	N	N	150	700	1.5	N	N	15	300
PP183	33 0 8	114 44 48	7	3.0	5	1.0	1,000	N	N	N	100	1,000	1.0	N	N	15	300
PP184	32 59 29	114 44 26	7	1.0	7	>1.0	2,000	N	N	N	150	700	1.0	N	N	15	200
PP185A	32 59 27	114 44 15	7	1.5	7	1.0	2,000	N	N	N	100	700	1.5	N	N	15	300
PP185B	32 59 27	114 44 15	7	2.0	5	1.0	2,000	N	N	N	100	1,500	1.5	N	N	20	200
PP186	32 59 1	114 43 56	7	2.0	5	1.0	1,000	N	N	N	100	1,000	1.5	N	N	15	150
PP187	32 58 57	114 43 58	5	1.5	7	.7	1,500	N	N	N	100	1,000	1.5	N	N	15	150
PP188	32 59 15	114 43 23	7	2.0	5	.7	1,500	N	N	N	70	1,500	1.5	N	N	15	150

Table 4. Analyses of stream-sediment samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH	AA-AS-P	AA-ZN-P	AA-SB-P
PP179	50	100	N	20	70	70	N	N	500	200	N	70	N	500	N	<5	100	N
PP180A	50	100	N	20	200	150	N	N	700	300	N	70	N	300	N	10	145	N
PP180B	30	100	N	<20	150	100	N	N	300	200	N	50	N	300	N	5	60	4
PP181	30	150	N	20	50	100	N	N	500	300	N	50	N	700	N	5	45	1
PP182	30	100	5	20	70	100	N	N	500	200	N	70	N	500	N	5	60	3
PP183	30	100	<5	20	70	70	N	N	500	200	N	50	N	500	N	5	70	2
PP184	30	100	N	20	50	100	N	N	700	300	N	70	N	1,000	N	10	70	N
PP185A	20	100	N	20	30	100	N	N	700	300	N	70	N	700	N	10	80	N
PP185B	30	150	<5	20	50	50	N	N	500	300	N	70	N	700	N	5	75	2
PP186	20	100	N	<20	50	50	N	N	500	200	N	50	N	200	N	5	90	N
PP187	20	150	N	<20	30	100	N	N	500	200	N	50	N	300	N	5	50	N
PP188	50	150	N	20	50	100	N	N	700	300	N	70	N	500	N	20	55	3

Table 5. Analyses of heavy-mineral-concentrate samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.

[N, NOT DETECTED; <, DETECTED BUT BELOW THE LIMIT OF DETERMINATION SHOWN; >, DETERMINED TO BE GREATER THAN THE VALUE SHOWN.]

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
PP500	33 3 35	114 47 54	.50	.30	10.0	>2.000	300	N	N	N	100	3,000	N	N	N
PP501	33 3 28	114 47 57	.70	.50	5.0	>2.000	500	N	N	N	200	2,000	N	N	N
PP502	33 3 49	114 48 37	.50	.50	5.0	>2.000	300	<1	N	100	200	5,000	N	N	N
PP503	33 3 48	114 49 18	.70	.20	3.0	>2.000	200	N	N	N	300	5,000	<2	N	N
PP504	33 4 45	114 50 31	.70	.70	5.0	>2.000	300	N	N	N	200	7,000	N	N	N
PP505	33 5 19	114 50 52	.50	.50	7.0	>2.000	500	2	N	N	150	5,000	N	N	N
PP506	33 4 42	114 49 52	.50	.70	3.0	>2.000	500	N	N	N	200	2,000	<2	N	N
PP507	33 5 54	114 51 30	.30	.30	5.0	>2.000	200	N	N	N	20	5,000	<2	N	N
PP508	33 6 11	114 51 6	.50	.50	7.0	>2.000	700	N	N	N	70	7,000	<2	200	N
PP509	33 5 41	114 50 18	.70	.50	5.0	1.500	500	N	N	N	20	1,500	2	1,000	N
PP510	33 7 7	114 50 45	1.00	.50	5.0	>2.000	700	N	N	N	300	7,000	N	50	N
PP511	33 6 34	114 50 21	1.00	.70	7.0	>2.000	1,000	N	N	N	100	10,000	<2	<20	N
PP512	33 6 50	114 49 36	.70	.50	5.0	>2.000	500	N	N	N	200	2,000	<2	N	N
PP513	33 7 28	114 49 40	.50	.50	3.0	>2.000	200	N	N	N	20	300	N	N	N
PP514	33 7 0	114 48 39	.50	.30	7.0	>2.000	700	N	N	N	200	2,000	<2	<20	N
PP515	33 6 8	114 48 44	.50	.50	7.0	>2.000	700	N	N	N	70	2,000	<2	N	N
PP516	33 5 21	114 48 19	.50	.50	1.5	2.000	300	1	N	N	150	5,000	<2	N	N
PP517	33 4 41	114 47 34	.70	.50	5.0	>2.000	500	N	N	N	200	5,000	<2	300	N
PP518	33 4 39	114 47 45	.30	.30	3.0	>2.000	200	N	N	N	50	10,000	<2	N	N
PP519	33 4 33	114 47 9	15.00	3.00	7.0	>2.000	2,000	N	N	N	500	5,000	N	N	N
PP520	33 4 4	114 46 22	.50	.70	10.0	>2.000	500	N	N	N	70	7,000	<2	N	N
PP521	33 3 50	114 46 28	.50	.50	3.0	>2.000	200	N	N	N	100	300	<2	N	N
PP522	33 1 47	114 46 36	1.00	.70	5.0	>2.000	300	N	N	N	70	5,000	<2	N	N
PP523	33 1 31	114 45 21	.70	.50	5.0	>2.000	500	N	N	N	200	700	<2	N	N
PP524	33 1 27	114 45 31	.70	.70	7.0	>2.000	500	N	N	N	300	2,000	<2	N	N
PP525A	33 1 41	114 44 16	.70	1.00	3.0	>2.000	500	N	N	N	100	1,500	<2	N	N
PP525B	33 1 41	114 44 16	1.00	.70	3.0	>2.000	200	N	N	N	70	2,000	<2	N	N
PP526	33 1 38	114 43 53	1.00	1.00	5.0	>2.000	700	N	N	N	500	500	<2	N	N
PP527	33 1 58	114 43 0	.50	.70	7.0	>2.000	300	N	N	N	70	3,000	<2	N	N
PP528	33 0 21	114 45 52	.70	.50	7.0	>2.000	500	N	N	N	100	700	N	N	N
PP529	33 1 0	114 47 25	.50	.50	7.0	>2.000	500	N	<500	N	70	7,000	N	N	N
PP530A	33 1 43	114 48 4	.70	.50	7.0	>2.000	500	N	500	N	70	7,000	N	N	N
PP530B	33 1 43	114 48 4	1.50	1.00	7.0	>2.000	700	N	N	N	200	7,000	N	N	N
PP531	33 1 40	114 49 4	.70	.50	7.0	>2.000	300	N	N	N	100	7,000	N	N	N
PP532	33 0 59	114 49 23	.50	.50	10.0	>2.000	500	N	N	N	50	10,000	<2	N	N
PP533	33 1 55	114 49 58	.50	.50	3.0	>2.000	200	N	N	N	50	2,000	<2	N	N
PP534	33 2 26	114 49 26	.70	.70	3.0	>2.000	500	N	N	N	100	5,000	<2	N	N
PP535A	33 3 3	114 47 23	.30	.50	5.0	>2.000	200	N	N	N	30	1,500	<2	N	N
PP535B	33 3 3	114 47 23	.50	.50	3.0	N	200	N	N	N	50	1,000	<2	N	N
PP536	33 3 0	114 47 17	.70	.50	2.0	N	300	N	N	N	70	7,000	2	N	N
PP537	33 3 30	114 47 0	.50	.50	2.0	N	200	N	N	N	50	700	<2	N	N
PP538	33 3 24	114 46 56	1.50	1.00	3.0	N	500	N	N	N	150	1,500	<2	N	N
PP539	33 3 14	114 45 56	1.50	1.00	5.0	N	700	N	N	N	200	1,000	<2	N	N
PP540A	33 3 22	114 45 11	.70	.70	3.0	N	500	N	N	N	70	1,500	<2	N	N
PP541	33 3 32	114 45 2	1.00	1.00	3.0	N	500	N	N	N	200	500	N	N	N

Table 5. Analyses of heavy-mineral-concentrate samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.

SAMPLE	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
PP500	N	70	10	100	N	<50	10	200	N	50	1,000	100	N	300	N	>2,000	N
PP501	N	70	50	150	N	<50	10	200	N	150	200	150	N	700	N	>2,000	N
PP502	N	50	<10	150	N	N	10	300	N	20	500	100	N	500	N	>2,000	N
PP503	N	50	30	150	<10	<50	10	150	N	20	500	100	N	500	N	>2,000	N
PP504	N	70	15	150	N	50	15	70	N	20	700	150	N	300	N	>2,000	N
PP505	N	50	10	150	N	<50	10	150	N	30	500	100	500	500	N	>2,000	N
PP506	N	50	10	200	N	50	10	20	N	<20	200	70	<100	500	N	>2,000	N
PP507	N	20	<10	50	N	<50	10	700	N	<20	700	50	1,000	200	N	>2,000	N
PP508	N	20	10	100	N	<50	10	50	N	<20	200	70	200	500	N	>2,000	N
PP509	N	<20	<10	N	N	N	N	50	N	N	200	30	N	100	N	>2,000	N
PP510	10	70	70	500	20	50	10	1,000	N	50	500	200	1,500	700	N	>2,000	500
PP511	10	50	100	1,500	N	<50	10	700	N	100	500	200	700	1,000	N	>2,000	700
PP512	N	70	<10	300	N	<50	10	50	N	20	200	100	100	500	N	>2,000	<200
PP513	N	50	<10	300	<10	100	10	20	N	30	N	100	300	500	N	>2,000	300
PP514	N	30	100	300	15	<50	N	1,000	N	20	700	100	150	300	N	>2,000	N
PP515	N	20	20	150	50	<50	10	3,000	N	30	200	200	2,000	300	N	>2,000	200
PP516	N	30	30	200	20	<50	10	2,000	N	20	500	200	1,000	300	N	>2,000	500
PP517	N	50	<10	150	N	<50	10	150	N	200	200	70	300	300	N	>2,000	<200
PP518	N	30	50	100	N	<50	10	200	N	30	500	100	300	200	N	>2,000	N
PP519	20	1,000	30	500	N	<50	100	500	N	30	200	200	<100	500	N	>2,000	N
PP520	N	100	70	300	N	<50	10	200	N	700	200	150	300	700	N	>2,000	200
PP521	N	50	N	200	N	N	N	100	N	30	N	100	N	500	N	>2,000	N
PP522	10	70	50	200	N	50	10	2,000	N	100	200	150	N	500	<500	>2,000	<200
PP523	N	100	10	300	N	<50	N	200	N	50	N	100	N	1,000	N	>2,000	N
PP524	N	150	50	300	N	<50	15	300	N	50	200	200	N	700	N	>2,000	N
PP525A	N	150	<10	150	N	<50	10	50	N	<20	200	70	N	500	N	>2,000	<200
PP525B	N	50	N	150	N	50	10	20	N	N	300	50	N	200	N	>2,000	N
PP526	N	200	10	500	N	<50	10	100	N	50	200	150	N	1,000	N	>2,000	N
PP527	N	70	100	150	N	<50	N	50	N	50	200	100	N	700	N	>2,000	N
PP528	N	150	50	200	N	50	10	50	N	30	200	200	N	700	N	>2,000	N
PP529	N	30	10	150	<10	50	10	70	N	50	500	150	1,000	500	N	>2,000	N
PP530A	N	30	10	200	N	100	10	30	N	20	300	100	<100	500	N	>2,000	N
PP530B	10	70	15	200	N	70	15	50	N	20	500	150	N	500	N	>2,000	N
PP531	N	50	15	200	N	50	10	50	N	20	500	100	N	500	N	>2,000	N
PP532	N	30	10	200	<10	50	10	30	N	20	700	200	N	700	N	>2,000	N
PP533	N	20	<10	100	N	<50	N	20	N	N	500	70	N	200	N	>2,000	N
PP534	N	50	10	150	N	<50	N	50	N	N	300	100	N	200	N	>2,000	N
PP535A	N	20	N	100	N	N	10	100	N	<20	200	70	N	500	N	>2,000	N
PP535B	N	20	N	150	N	<50	N	50	N	20	200	70	N	500	N	>2,000	N
PP536	N	50	<10	100	N	<50	N	50	N	30	200	100	N	700	N	>2,000	N
PP537	N	<20	<10	100	N	<50	N	70	N	20	200	50	N	200	N	>2,000	N
PP538	N	70	<10	200	N	<50	10	30	N	70	200	100	N	700	N	>2,000	<200
PP539	10	150	<10	150	N	<50	15	2,000	N	100	200	700	N	500	N	>2,000	N
PP540A	N	50	10	150	N	N	10	700	N	30	200	150	N	700	N	>2,000	N
PP541	10	200	<10	200	N	<50	10	500	N	50	N	150	N	500	N	>2,000	N

Table 5. Analyses of heavy-mineral-concentrate samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
PP542	33 3 38	114 45 12	1.00	.70	5.0	N	500	N	N	N	150	700	<2	N	N
PP543	33 4 1	114 45 1	2.00	1.00	5.0	N	1,000	N	N	N	100	2,000	15	N	N
PP544	33 5 9	114 45 3	.50	.50	5.0	N	300	N	N	N	100	3,000	<2	N	N
PP545A	33 5 45	114 45 52	1.00	1.00	5.0	N	500	N	N	N	300	5,000	<2	N	N
PP545B	33 5 45	114 45 52	.50	.50	2.0	N	300	N	N	N	70	3,000	2	N	N
PP546	33 5 39	114 46 3	1.00	1.00	5.0	N	700	N	N	N	300	2,000	<2	N	N
PP547	33 6 24	114 47 4	.70	.70	3.0	N	500	N	N	30	300	3,000	<2	N	N
PP548	33 6 37	114 47 51	1.00	.50	7.0	N	500	N	N	N	100	3,000	<2	N	N
PP549	33 7 16	114 46 53	.50	.50	5.0	>2.000	300	N	N	N	50	1,500	<2	N	N
PP550A	33 7 12	114 46 47	1.00	.70	5.0	N	700	N	N	N	100	700	<2	N	N
PP550B	33 7 12	114 46 47	.70	.50	3.0	N	500	N	N	N	200	500	<2	N	N
PP551	33 7 33	114 46 8	1.00	.70	5.0	N	300	N	N	N	70	3,000	2	N	N
PP552	33 6 58	114 44 17	1.00	.70	7.0	>2.000	500	N	500	N	30	>10,000	N	N	N
PP553	33 7 2	114 43 50	.50	.20	5.0	2.000	200	N	N	N	20	>10,000	N	N	N
PP554	33 6 58	114 43 20	.70	.70	7.0	>2.000	300	N	<500	N	70	>10,000	N	N	N
PP555A	33 6 12	114 43 20	.70	.70	20.0	>2.000	500	1	2,000	N	50	>10,000	N	N	N
PP555B	33 6 12	114 43 20	.70	.50	10.0	>2.000	500	N	1,000	N	100	10,000	N	N	N
PP556	33 6 1	114 43 19	.50	.70	7.0	>2.000	200	N	5,000	N	>5,000	7,000	<2	N	N
PP557	33 6 18	114 44 8	.70	1.00	7.0	>2.000	500	N	10,000	N	1,000	>10,000	N	N	N
PP558	33 6 24	114 44 45	2.00	1.00	10.0	>2.000	1,500	N	1,000	N	300	10,000	N	N	N
PP559	33 5 48	114 44 11	.70	.50	5.0	>2.000	500	<1	N	N	100	5,000	N	N	N
PP560A	33 5 45	114 43 20	.50	.50	5.0	>2.000	300	N	N	N	50	10,000	<2	N	N
PP560B	33 5 45	114 43 20	1.00	.50	5.0	>2.000	500	N	<500	N	150	10,000	N	N	N
PP561	33 5 26	114 43 18	1.00	1.00	5.0	>2.000	700	N	N	N	150	3,000	<2	N	N
PP562	33 5 15	114 43 42	1.50	.70	5.0	>2.000	300	N	N	N	50	10,000	N	N	N
PP563	33 5 20	114 43 55	1.00	1.00	5.0	>2.000	500	N	N	N	70	2,000	<2	N	N
PP564	33 5 26	114 43 58	.70	.70	3.0	>2.000	300	N	N	N	50	5,000	2	N	N
PP565A	33 5 32	114 44 21	3.00	1.00	5.0	>2.000	1,000	N	N	N	200	3,000	<2	N	N
PP565B	33 5 32	114 44 21	.70	.20	5.0	>2.000	700	N	N	N	150	1,000	2	N	N
PP566	33 5 7	114 44 22	1.50	2.00	5.0	>2.000	1,000	N	N	N	150	1,000	<2	N	N
PP567	33 4 26	114 44 22	.70	.50	5.0	>2.000	300	N	N	N	70	3,000	<2	N	N
PP568	33 4 23	114 44 26	.50	.30	5.0	>2.000	200	N	N	N	100	2,000	<2	N	N
PP569	33 4 13	114 43 34	.50	.50	2.0	>2.000	200	N	N	N	50	5,000	<2	N	N
PP570A	33 4 36	114 43 8	1.00	.50	2.0	>2.000	300	N	700	N	500	>10,000	<2	200	N
PP570B	33 4 36	114 43 8	1.00	.50	3.0	>2.000	300	N	500	N	1,500	>10,000	<2	50	N
PP571	33 4 10	114 42 48	.70	.50	2.0	>2.000	300	N	N	N	300	10,000	3	N	N
PP572	33 3 44	114 43 17	1.00	.50	3.0	>2.000	500	N	N	N	500	3,000	<2	N	N
PP573	33 3 39	114 43 17	1.00	.70	2.0	>2.000	500	N	N	N	50	500	<2	N	N
PP574	33 3 22	114 42 48	.70	.50	3.0	>2.000	300	N	N	N	100	5,000	2	N	N
PP575A	33 2 56	114 43 4	.50	.50	3.0	>2.000	200	70	N	N	150	2,000	<2	N	N
PP575B	33 2 56	114 43 4	.70	1.00	3.0	>2.000	300	N	N	N	200	500	<2	N	N
PP576	33 2 40	114 43 54	.50	.70	2.0	>2.000	300	N	N	N	200	500	<2	N	N
PP577	33 1 50	114 41 50	.50	.50	7.0	>2.000	300	N	N	N	100	10,000	<2	N	N
PP578	33 0 30	114 41 50	.50	.70	7.0	>2.000	300	N	N	N	200	5,000	2	N	N
PP579	33 1 15	114 42 51	.50	.50	7.0	>2.000	300	N	N	N	200	7,000	<2	N	N

Table 5. Analyses of heavy-mineral-concentrate samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
PP542	10	70	10	200	N	N	10	70	N	50	300	150	N	700	N	>2,000	N
PP543	10	150	10	200	N	50	15	50	N	70	300	100	N	500	N	>2,000	N
PP544	N	70	<10	150	N	<50	N	150	N	20	N	100	N	700	N	>2,000	<200
PP545A	10	200	<10	500	N	N	10	50	N	50	200	200	N	1,000	N	>2,000	200
PP545P	N	50	N	200	N	N	N	50	N	20	200	100	N	700	N	>2,000	N
PP546	10	150	10	200	N	<50	10	100	N	50	300	100	N	500	N	>2,000	N
PP547	N	150	70	300	N	<50	10	50	N	30	200	150	N	1,000	N	>2,000	200
PP548	10	20	10	100	10	N	10	20	N	30	200	70	1,000	500	N	>2,000	300
PP549	N	50	<10	150	<10	<50	10	100	N	30	200	150	150	700	N	>2,000	<200
PP550A	10	100	10	300	N	<50	10	70	N	50	200	150	N	1,000	N	>2,000	N
PP550P	10	100	10	300	N	<50	10	30	N	50	N	150	N	700	N	>2,000	N
PP551	10	50	N	150	N	<50	10	70	N	50	300	100	N	200	N	>2,000	N
PP552	10	20	N	200	N	<50	N	50	N	N	2,000	200	N	300	N	>2,000	N
PP553	N	N	N	150	N	N	N	70	N	N	2,000	50	N	300	N	>2,000	N
PP554	N	50	<10	300	N	N	N	500	N	<20	7,000	150	N	700	N	>2,000	N
PP555A	N	20	N	300	N	50	N	70	N	20	7,000	100	N	1,000	N	>2,000	N
PP555B	N	50	<10	300	N	<50	10	20	N	<20	5,000	100	N	1,000	N	>2,000	N
PP556	N	N	<10	100	N	<50	N	20	200	N	10,000	50	N	300	N	>2,000	N
PP557	N	30	<10	150	10	N	N	30	300	N	10,000	70	N	700	N	>2,000	N
PP558	10	150	10	200	N	<50	20	100	N	<20	5,000	150	N	500	N	>2,000	N
PP559	N	20	10	150	N	N	N	100	N	N	200	70	N	200	N	>2,000	N
PP560A	N	20	<10	100	<10	<50	N	50	N	<20	1,000	70	N	300	N	>2,000	N
PP560B	10	50	10	300	<10	<50	10	100	N	30	1,500	100	N	700	N	>2,000	<200
PP561	10	200	10	300	N	<50	15	50	N	30	200	150	N	700	N	>2,000	<200
PP562	30	20	20	500	100	70	10	150	N	30	200	100	N	700	N	>2,000	200
PP563	10	200	15	200	N	<50	15	70	N	30	N	100	N	700	N	>2,000	N
PP564	N	30	N	100	N	<50	N	30	N	N	200	50	N	300	N	>2,000	N
PP565A	10	150	10	200	N	<50	15	50	N	20	200	100	N	500	N	>2,000	N
PP565B	N	100	<10	200	N	N	10	70	N	N	200	100	N	500	N	>2,000	N
PP566	20	500	15	300	10	<50	30	100	N	30	200	150	N	700	N	>2,000	<200
PP567	N	50	10	200	N	<50	10	70	N	20	200	200	N	500	N	>2,000	N
PP568	N	50	<10	150	N	<50	N	70	N	1,000	N	100	N	700	N	>2,000	N
PP569	N	20	20	200	N	<50	N	200	N	200	N	150	N	700	N	>2,000	N
PP570A	15	20	50	150	150	<50	10	1,000	N	100	2,000	100	N	700	N	>2,000	N
PP570B	15	20	70	150	100	<50	10	700	N	100	1,500	100	N	1,000	N	>2,000	N
PP571	N	70	N	200	N	N	10	50	N	150	2,000	100	N	1,000	N	>2,000	N
PP572	N	150	70	500	N	<50	10	50	N	70	200	150	N	700	N	>2,000	<200
PP573	10	50	<10	150	N	<50	10	50	N	200	N	100	N	700	N	>2,000	N
PP574	N	150	300	300	N	N	10	10,000	N	70	500	150	N	1,000	700	>2,000	N
PP575A	10	150	10	500	N	N	10	100	N	100	N	150	N	1,000	N	>2,000	N
PP575B	10	100	50	200	N	<50	20	50	N	30	200	100	N	500	N	>2,000	N
PP576	N	100	N	300	N	<50	10	50	N	500	N	100	N	700	N	>2,000	N
PP577	10	100	<10	150	N	<50	10	50	N	30	1,500	100	N	700	N	>2,000	N
PP578	N	50	N	300	N	<50	10	50	N	20	1,500	100	N	500	N	>2,000	<200
PP579	N	100	10	50	N	50	10	50	N	50	2,000	150	N	300	N	>2,000	N

Table 5. Analyses of heavy-mineral-concentrate samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County,California.--CONTINUED

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
PP580A	33 0 6	114 42 37	.70	.50	10.0	>2.000	500	N	N	N	300	3,000	<2	N	N
PP580B	33 0 6	114 42 37	.50	.70	10.0	>2.000	300	N	N	N	300	3,000	<2	N	N
PP581	32 59 47	114 43 13	.50	.50	10.0	>2.000	300	N	N	N	100	5,000	N	N	N
PP582	33 0 2	114 43 53	.70	.50	10.0	>2.000	500	N	N	N	200	2,000	N	N	N
PP583	33 0 8	114 44 48	.15	.10	5.0	>2.000	150	N	N	N	30	500	N	N	N
PP584	32 59 28	114 44 26	.20	.10	5.0	>2.000	200	N	N	N	30	3,000	N	N	N
PP585A	32 59 27	114 44 15	.15	.15	5.0	>2.000	200	N	N	N	20	200	<2	N	N
PP585B	32 59 27	114 44 15	.30	.30	7.0	>2.000	300	N	N	N	70	300	N	N	N
PP586	32 59 1	114 43 56	.50	.20	7.0	>2.000	300	N	N	N	20	2,000	N	N	N
PP587	32 58 57	114 43 58	.50	.20	10.0	>2.000	500	N	N	N	100	1,500	N	N	N
PP588	32 59 15	114 43 23	.50	.20	10.0	>2.000	300	N	N	N	50	1,000	<2	N	N

Table 5. Analyses of heavy-mineral-concentrate samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
PP580A	N	150	<10	150	N	<50	15	70	N	30	1,000	200	N	500	N	>2,000	N
PP580B	N	150	<10	100	N	50	15	30	N	30	700	200	N	500	N	>2,000	N
PP581	10	100	10	200	N	50	10	50	N	30	1,000	150	N	700	N	>2,000	N
PP582	10	100	10	100	N	50	10	70	N	20	700	200	N	500	N	>2,000	N
PP583	N	30	N	N	N	70	N	20	N	<20	200	100	N	200	N	>2,000	N
PP584	N	30	N	50	N	50	N	20	N	30	1,000	150	N	300	N	>2,000	N
PP585A	N	30	N	100	N	50	N	20	N	20	500	100	N	500	N	>2,000	N
PP585B	10	70	<10	150	N	<50	10	100	N	30	500	100	N	700	N	>2,000	<200
PP586	N	50	<10	100	N	50	10	30	N	30	200	150	N	500	N	>2,000	N
PP587	N	50	<10	200	N	70	N	30	N	50	200	200	N	1,000	N	>2,000	N
PP588	N	50	<10	200	N	50	10	50	N	30	500	100	N	500	N	>2,000	N

Table 6. Analyses of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.

[N, NOT DETECTED; <, DETECTED BUT BELOW THE LIMIT OF DETERMINATION SHOWN; >, DETERMINED TO BE GREATER THAN THE VALUE SHOWN.]

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
BPP001	33 3 10	114 48 45	2.00	1.00	.50	.300	500	70.0	N	N	50	1,000	1.0	N	N
BPP002	33 3 10	114 48 48	1.00	.20	.20	.010	200	5.0	N	N	1,000	500	N	N	N
BPP003	33 3 4	114 48 56	.20	.10	2.00	.050	500	N	N	N	10	50	N	N	N
BPP004	33 4 37	114 43 51	1.00	.50	1.00	.100	500	N	N	N	20	300	5.0	N	N
BPP005	33 4 4	114 43 59	.20	.05	1.00	.010	300	N	N	N	200	50	<1.0	N	N
BPP006	33 4 4	114 43 59	.50	<.02	.50	.050	100	N	>10,000	N	20	100	<1.0	N	N
BPP007	33 4 4	114 43 59	2.00	<.02	.50	.300	20	N	>10,000	N	300	200	<1.0	N	N
BPP008	33 2 0	114 43 0	2.00	.05	2.00	.200	1,000	70.0	N	N	15	200	<1.0	<10	N
BPP009	33 4 2	114 44 6	1.00	1.00	10.00	.070	2,000	N	N	N	20	150	1.0	N	N
BPP010	33 4 2	114 44 6	3.00	1.00	.20	.300	1,000	N	700	N	50	200	2.0	N	N
BPP011	33 4 2	114 44 6	1.00	.50	.05	.300	20	N	1,500	N	30	200	1.0	N	N
BPP800	33 6 28	114 51 4	2.00	.30	5.00	.300	1,000	N	N	N	100	500	3.0	N	N
BPP801	33 6 28	114 51 4	1.50	.70	3.00	.300	1,000	N	N	N	50	500	3.0	N	N
BPP802	33 6 28	114 51 4	7.00	2.00	3.00	.500	2,000	N	N	N	50	700	3.0	N	N
BPP803A	33 6 24	114 50 23	.05	.02	.10	.005	70	N	N	N	20	20	N	N	N
BPP803B	33 6 24	114 50 23	.70	.20	5.00	.030	700	1.5	N	N	30	500	2.0	N	N
BPP804	33 6 23	114 50 17	1.00	.50	.70	.300	1,000	.5	N	N	20	500	3.0	N	N
BPP805	33 6 12	114 50 9	5.00	.70	2.00	.050	5,000	10.0	N	N	100	100	2.0	50	70
BPP806	33 6 9	114 49 48	.20	.05	.50	.020	150	3.0	N	N	50	50	5.0	N	N
BPP807	33 6 9	114 49 48	1.00	.20	.50	.070	20	15.0	N	N	70	100	3.0	1,000	N
BPP808	33 6 9	114 49 48	.20	.02	.15	.030	70	.5	N	N	30	30	2.0	N	N
BPP809	33 6 9	114 49 48	2.00	1.00	20.00	.030	100	1.0	N	N	70	150	1.5	150	50
BPP810	33 6 9	114 49 48	2.00	.70	1.00	.300	1,000	N	N	N	20	700	3.0	N	N
BPP811	33 6 9	114 49 48	3.00	.10	.50	.030	200	15.0	N	N	50	300	3.0	>1,000	N
BPP812	33 6 9	114 49 48	.50	.05	.20	.020	100	1.0	N	N	30	<20	2.0	N	N
BPP813	33 6 19	114 49 59	.70	.15	.50	.200	500	N	N	N	30	100	3.0	N	N
BPP814	33 6 19	114 49 59	.70	.20	3.00	.200	1,000	N	N	N	100	200	2.0	N	N
BPP815	33 6 19	114 49 59	1.50	.30	10.00	.020	1,500	N	N	N	50	100	3.0	N	N
BPP816	33 6 13	114 49 59	3.00	1.00	1.00	.500	2,000	N	N	N	30	700	2.0	N	N
BPP817	33 6 13	114 49 59	.50	.20	.30	.100	200	1.0	N	N	20	500	1.5	N	N
BPP818	33 6 13	114 49 59	.15	.07	.50	.030	150	N	N	N	30	300	3.0	N	N
BPP819	33 6 15	114 50 0	<.05	<.02	.15	<.002	30	N	N	N	20	<20	N	N	N
BPP820	33 6 17	114 50 3	1.50	.70	.70	.300	1,000	10.0	N	N	30	500	2.0	N	<20
BPP821	33 6 17	114 50 3	1.00	.30	.50	.200	500	15.0	N	N	30	500	2.0	N	N
BPP822	33 6 17	114 50 3	7.00	1.50	1.00	.500	1,500	2.0	N	N	20	700	2.0	N	N
BPP823	33 6 17	114 50 3	1.00	.20	.15	.020	2,000	10.0	N	N	30	500	1.5	100	<20
BPP824	33 6 30	114 50 15	2.00	.30	1.00	.300	1,500	7.0	N	N	20	700	2.0	N	N
BPP825	33 6 30	114 50 15	.50	.05	1.00	.030	500	N	N	N	20	100	5.0	N	N
BPP826	33 6 30	114 50 15	5.00	.20	.15	.500	>5,000	100.0	N	N	50	500	2.0	1,000	20
BPP827A	33 11 5	114 45 10	1.50	.50	2.00	.200	100	N	N	N	20	500	5.0	N	N
BPP827B	33 11 5	114 48 10	.15	.15	15.00	.015	5,000	N	N	N	50	1,000	<1.0	N	N
BPP828	33 4 57	114 48 14	1.00	.10	10.00	.070	1,000	N	N	N	50	300	5.0	N	N
BPP829	33 5 9	114 48 19	.20	.15	20.00	.030	>5,000	N	N	N	50	300	7.0	N	N
BPP830	33 5 15	114 48 29	.30	.10	3.00	.050	2,000	N	N	N	15	100	2.0	N	N
BPP831	33 5 15	114 48 29	2.00	.50	2.00	.500	1,500	N	N	N	20	500	2.0	N	N

Table 6. Analyses of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.

SAMPLE	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
BPP001	15	100	>20,000	N	N	N	10	10	N	7	N	200	100	N	20	N	200	N
BPP002	5	10	10,000	20	70	N	5	N	500	<5	N	N	30	N	10	N	N	N
BPP003	5	10	50	N	N	N	5	N	N	<5	N	100	10	N	N	N	N	N
BPP004	5	10	20	N	N	<20	5	30	N	5	N	200	10	N	20	N	50	N
BPP005	N	<10	5	20	N	N	<5	N	N	<5	N	100	10	N	N	N	<10	N
BPP006	N	10	10	N	N	N	N	N	<100	5	N	N	10	N	<10	N	10	N
BPP007	N	20	10	20	20	N	N	10	N	10	N	N	30	N	10	N	100	N
BPP008	10	30	>20,000	20	N	N	5	30	N	7	N	200	50	N	10	N	100	N
BPP009	5	10	20	20	N	N	<5	70	N	7	N	1,000	10	N	100	N	30	N
BPP010	15	20	50	50	N	N	20	10	N	10	N	100	50	N	20	N	200	N
BPP011	5	20	10	50	30	N	<5	10	N	5	N	100	50	N	10	N	100	N
BPP800	10	20	15	<20	N	N	10	50	N	10	N	300	70	N	30	N	200	N
BPP801	10	10	20	<20	N	N	10	10	N	7	N	300	70	N	10	N	150	N
BPP802	30	200	70	50	N	20	300	20	N	15	N	500	200	N	20	<200	100	N
BPP803A	5	<10	<5	N	N	<20	5	<10	N	N	N	N	10	N	N	N	30	N
BPP803B	5	<10	700	<20	N	<20	5	150	N	N	N	300	50	N	<10	N	50	N
BPP804	5	10	100	<20	N	N	5	30	N	7	10	200	50	N	20	N	150	N
BPP805	10	15	15,000	50	N	N	20	2,000	N	5	100	200	70	500	30	2,000	30	N
BPP806	5	<10	300	N	N	N	<5	70	N	N	N	N	<10	N	30	N	50	N
BPP807	N	<10	15,000	N	N	N	5	300	N	N	10	200	20	N	50	N	50	N
BPP808	<5	<10	150	N	N	N	5	50	N	N	N	N	<10	N	20	N	30	N
BPP809	20	<10	10,000	N	15	N	N	300	N	<5	20	700	30	N	50	200	20	N
BPP810	10	30	200	50	N	<20	20	30	N	10	N	300	70	N	30	N	100	N
BPP811	15	<10	20,000	N	10	N	N	2,000	N	<5	N	150	100	N	70	N	100	N
BPP812	5	N	2,000	N	N	N	5	70	N	N	N	N	<10	N	50	N	30	N
BPP813	5	<10	100	50	N	N	5	50	N	<5	N	N	15	N	30	N	100	N
BPP814	5	<10	20	N	N	N	5	30	N	<5	N	N	20	N	30	N	100	N
BPP815	<5	<10	100	<20	N	N	5	70	N	<5	N	<100	20	N	50	N	30	N
BPP816	10	20	70	<20	N	N	20	30	N	10	N	500	100	N	20	300	150	N
BPP817	<5	<10	50	N	N	N	5	100	N	N	N	<100	20	N	20	N	20	N
BPP818	<5	<10	10	N	N	N	5	50	N	N	N	N	10	N	30	N	150	N
BPP819	<5	<10	<5	N	N	<20	5	N	N	N	N	N	<10	N	N	N	N	N
BPP820	5	10	200	<20	N	N	5	200	N	7	N	200	50	N	10	500	100	N
BPP821	5	<10	500	<20	N	N	5	300	N	<5	N	150	30	N	15	1,500	50	N
BPP822	15	70	150	70	N	<20	50	300	N	15	N	500	150	N	30	500	150	N
BPP823	20	<10	10,000	N	N	N	10	2,000	N	N	N	150	10	N	15	>10,000	30	N
BPP824	5	10	70	<20	N	N	5	700	N	5	N	200	50	N	15	300	100	N
BPP825	N	<10	20	N	N	N	5	50	N	N	N	N	10	N	50	N	30	N
BPP826	70	20	20,000	<20	100	N	5	20,000	N	10	50	300	100	N	30	10,000	150	N
BPP827A	5	10	200	70	N	N	5	100	N	5	N	1,500	50	N	20	<200	100	N
BPP827B	<5	<10	50	N	N	N	5	20	N	N	N	200	30	N	N	N	<10	N
BPP828	N	<10	20	70	N	<20	5	50	N	<5	N	300	30	N	20	N	150	N
BPP829	N	<10	20	50	N	<20	5	200	N	N	N	300	20	N	30	N	70	N
BPP830	<5	<10	10	50	N	N	5	50	N	N	N	200	15	N	30	N	70	N
BPP831	10	50	10	50	N	N	15	10	N	10	N	200	100	N	20	N	100	N

Table 6. Analyses of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.

SAMPLE	AA-AU-P	INST-HG	AA-AS-P	AA-ZN-P	AA-CD-P	AA-BI-P	AA-SB-P	AA-TL-T	CM-W-P	SI-F
BPP001	.20	.08	150	30	.4	N	4	.7	<.5	200
BPP002	.25	.04	140	5	.6	N	900	.4	2.0	<100
BPP003	N	.02	15	5	.2	N	N	N	1.0	<100
BPP004	N	<.02	10	25	.2	N	<1	.9	2.0	200
BPP005	N	.02	100	5	.1	N	4	N	.5	<100
BPP006	N	.18	180,000	35	.2	N	65	.5	1.5	<100
BPP007	N	.16	140,000	25	1.6	N	20	.5	1.5	<100
BPP008	.35	.10	1,800	60	.9	5	2	.3	3.0	<100
BPP009	N	.10	140	35	.5	N	2	.5	.5	100
BPP010	N	.06	3,000	110	.3	N	7	.7	1.5	200
BPP011	N	<.02	4,200	5	.1	N	2	.4	1.5	200
BPP800	N	<.02	<5	65	.3	<2	N	--	2.0	360
BPP801	N	.02	<5	30	.1	<2	1	--	5.0	280
BPP802	N	<.02	<5	65	.1	<2	2	--	8.0	640
BPP803A	N	<.02	N	<5	N	2	N	--	2.0	120
BPP803B	N	<.02	N	35	1.0	<2	N	--	2.0	240
BPP804	N	.02	10	70	N	2	N	--	3.0	400
BPP805	N	.08	N	>200	48.0	72	5	--	87.0	400
BPP806	N	.02	15	15	1.3	<2	N	--	4.0	160
BPP807	N	N	N	30	1.9	>100	5	--	4.0	200
BPP808	N	<.02	N	5	.1	N	1	--	3.0	130
BPP809	N	<.02	35	200	40.0	120	3	--	5.0	640
BPP810	N	<.02	N	65	.1	N	N	--	3.0	360
BPP811	N	<.02	10	130	2.9	1,900	8	--	13.0	160
BPP812	N	<.02	N	30	.2	32	N	--	4.0	160
BPP813	N	.20	N	30	N	2	N	--	3.0	280
BPP814	N	<.02	N	35	.2	<2	N	--	4.0	320
BPP815	N	<.02	N	55	.5	N	N	--	6.0	160
BPP816	N	N	N	>200	.8	N	N	--	4.0	560
BPP817	N	.06	N	35	.5	N	N	--	3.0	180
BPP818	N	.28	N	10	.2	N	N	--	2.0	130
BPP819	N	<.02	N	<5	N	N	N	--	5.0	160
BPP820	N	<.02	N	>200	8.5	N	N	--	5.0	360
BPP821	N	.16	N	>200	.9	2	N	--	6.0	420
BPP822	N	.54	N	>200	1.8	N	N	--	4.0	600
BPP823	N	<.02	N	>200	5.0	90	N	--	3.0	160
BPP824	N	<.02	N	>200	8.9	N	N	--	3.0	320
BPP825	N	.04	<5	40	.8	<2	N	--	7.0	130
BPP826	N	.02	35	>200	10.0	1,100	N	--	5.0	360
BPP827A	N	<.02	N	95	N	N	N	--	6.0	360
BPP827B	N	.02	5	10	.3	N	N	--	6.0	120
BPP828	N	>5.00	20	35	.3	<2	N	--	5.0	240
BPP829	N	.08	35	60	.9	N	N	--	6.0	240
BPP830	N	.32	N	10	.1	<2	N	--	2.0	200
BPP831	N	.50	N	80	N	N	N	--	4.0	480

Table 6. Analyses of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
BPP832	33 5 15	114 48 33	.50	.02	.50	.010	100	N	N	N	20	N	7.0	N	N
BPP833	33 5 19	114 48 43	.07	.03	.50	.007	50	N	N	N	20	500	3.0	N	N
BPP834	33 5 19	114 48 39	5.00	.70	.70	.500	700	N	N	N	10	700	1.5	N	N
BPP835	33 5 19	114 48 39	.30	.05	.20	.015	150	1.0	N	N	20	100	3.0	10	N
BPP836	33 5 19	114 48 39	2.00	.50	1.00	.500	1,000	N	N	N	10	700	2.0	N	N
BPP837	33 6 48	114 42 35	3.00	.20	1.00	.500	1,000	N	N	N	50	700	3.0	N	N
BPP838	33 6 48	114 42 35	5.00	.20	1.50	.500	700	N	N	N	50	700	2.0	N	N
BPP839	33 6 46	114 42 37	1.00	.20	.30	.030	150	N	N	N	20	100	2.0	N	N
BPP840	33 6 46	114 42 37	5.00	1.50	2.00	.700	1,000	N	N	N	50	700	2.0	N	N
BPP841	33 6 46	114 42 37	2.00	.50	.70	.300	150	<.5	N	N	50	300	2.0	N	N
BPP842	33 6 46	114 42 41	1.50	.20	.70	.200	200	N	N	N	50	700	2.0	N	N
BPP843	33 4 3	114 44 1	2.00	.30	20.00	.200	2,000	N	300	N	100	500	1.5	N	N
BPP844	33 4 3	114 44 1	2.00	.30	.20	.500	150	1.0	200	N	200	700	1.5	N	N
BPP845	33 4 3	114 44 1	2.00	.50	2.00	.150	1,500	N	N	N	70	500	1.5	N	N
BPP846	33 4 3	114 44 1	.70	.20	5.00	.020	3,000	N	N	N	70	50	1.0	N	N
BPP847	33 4 2	114 44 2	1.00	.30	.20	.200	50	N	1,000	N	100	700	1.0	N	N
BPP850	33 6 27	114 44 48	5.00	1.00	2.00	.500	1,000	N	N	N	150	700	1.0	N	N
BPP851	33 6 27	114 44 48	1.00	.70	2.00	.100	700	N	N	N	200	500	3.0	N	N
BPP852	33 6 26	114 44 46	10.00	1.50	1.50	.500	1,000	N	N	N	200	700	1.5	N	N
BPP853	33 6 26	114 44 46	3.00	1.00	1.50	.500	700	N	N	N	20	700	1.0	N	N
BPP854	33 6 24	114 44 41	5.00	2.00	3.00	.500	1,000	N	N	N	100	500	1.0	N	N
BPP855	33 6 22	114 44 36	.20	1.00	10.00	.020	700	N	1,500	N	150	<20	N	N	N
BPP856	33 6 19	114 44 22	.70	2.00	20.00	.030	1,500	N	300	N	200	70	N	N	N
BPP857	33 6 18	114 44 14	1.00	.30	.50	.200	150	N	N	N	100	1,000	1.5	N	N
BPP858	33 6 18	114 44 14	2.00	.50	.70	.200	500	N	N	N	20	1,000	1.5	N	N
BPP859	33 6 18	114 44 14	1.00	.20	.70	.050	500	N	N	N	20	700	1.5	N	N
BPP860	33 6 18	114 44 14	5.00	1.00	5.00	.050	5,000	N	<200	N	50	1,000	1.5	N	N
BPP861	33 6 20	114 44 14	3.00	.50	.30	.500	150	N	N	N	20	1,000	1.0	N	N
BPP862	33 6 16	114 44 2	10.00	5.00	5.00	.700	2,000	N	N	N	100	1,000	1.0	N	N
BPP863	33 6 7	114 43 43	.20	.30	20.00	.100	>5,000	N	N	N	20	1,000	1.0	N	N
BPP864	33 6 4	114 43 32	1.50	.50	2.00	.500	1,000	N	N	N	30	1,500	1.0	N	N
BPP865	33 5 57	114 43 29	2.00	1.00	2.00	.500	700	N	N	N	50	500	2.0	N	N
BPP866	33 5 57	114 43 29	.70	.20	20.00	.200	>5,000	N	N	N	10	300	<1.0	N	N
BPP867	33 5 57	114 43 25	2.00	1.50	1.00	.300	1,000	N	N	N	100	700	1.5	N	N
BPP868	33 5 57	114 43 25	1.00	.30	2.00	.200	150	N	N	N	70	1,000	2.0	N	N
BPP878	33 4 4	114 44 6	1.50	.50	2.00	.300	1,000	N	N	N	2,000	70	1.5	N	N
BPP879	33 4 4	114 44 6	1.50	.50	2.00	.200	1,500	N	N	N	100	100	1.5	N	N
BPP880	33 4 4	114 44 6	1.50	.70	20.00	.100	5,000	N	N	N	50	100	1.0	N	N
BPP881	33 4 4	114 44 6	2.00	.10	.20	.500	100	N	>10,000	N	50	500	1.0	N	N
BPP882	33 4 5	114 44 10	2.00	.20	20.00	.050	3,000	N	<200	N	10	100	3.0	N	N
BPP883	33 4 5	114 44 13	3.00	.10	1.00	.070	200	.7	N	N	50	150	1.5	N	N
BPP884	33 4 13	114 44 12	.50	.15	10.00	.100	3,000	N	N	N	200	100	<1.0	N	N
BPP885	33 4 13	114 44 12	5.00	1.00	.70	.500	700	N	N	N	100	700	1.5	N	N
BPP886	33 4 13	114 44 12	1.50	.50	10.00	.200	3,000	N	N	N	70	150	<1.0	N	N
BPP887	33 4 3	114 44 9	.20	.10	3.00	.030	1,500	1.0	N	N	10	N	N	N	N

Table 6. Analyses of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
BPP832	<5	N	70	N	N	N	5	70	N	N	N	N	<10	N	30	N	50	N
BPP833	<5	<10	<5	N	N	<20	5	30	N	N	N	200	<10	N	N	N	30	N
BPP834	10	50	100	50	N	N	15	30	N	10	N	300	100	N	20	N	150	N
BPP835	5	<10	100	N	N	N	5	70	N	N	N	<100	10	N	50	N	50	N
BPP836	10	10	<5	<20	N	N	10	30	N	10	N	200	50	N	20	N	50	N
BPP837	5	<10	15	50	N	N	<5	20	N	10	N	300	20	N	20	N	150	N
BPP838	5	<10	15	50	N	<20	<5	20	N	10	N	300	20	N	20	N	150	N
BPP839	5	<10	5	<20	N	N	5	30	N	N	N	500	20	N	10	N	150	N
BPP840	20	150	70	50	N	<20	150	30	N	20	N	500	100	N	30	N	150	N
BPP841	7	10	10	<20	N	<20	5	30	N	10	N	500	50	N	15	N	150	N
BPP842	5	<10	10	50	N	<20	<5	30	N	5	N	200	20	N	20	N	150	N
BPP843	5	10	<5	50	50	N	5	50	N	10	N	500	50	N	50	N	100	N
BPP844	5	20	<5	<20	7	N	5	30	N	15	N	<100	100	N	30	N	200	N
BPP845	10	10	50	50	N	N	5	10	N	10	N	200	70	N	30	N	100	N
BPP846	5	<10	10	N	10	N	5	N	N	5	N	200	20	N	10	N	30	N
BPP847	<5	20	5	N	<5	N	5	<10	N	5	N	150	100	N	10	N	150	N
BPP850	15	50	20	70	N	N	50	20	N	15	N	500	150	N	20	N	100	N
BPP851	5	10	15	<20	N	<20	7	20	N	5	N	500	30	N	10	N	50	N
BPP852	10	20	20	<20	N	N	10	30	N	5	N	300	50	N	15	N	100	N
BPP853	10	10	7	<20	N	N	<5	30	N	10	N	500	100	N	20	N	150	N
BPP854	20	100	50	50	N	N	100	10	N	15	N	700	150	N	20	N	100	N
BPP855	5	<10	<5	N	N	N	5	N	200	N	N	700	10	N	N	N	N	N
BPP856	N	10	7	N	10	N	<5	N	N	N	N	3,000	20	N	10	N	10	N
BPP857	5	<10	5	100	N	N	<5	30	N	<5	N	200	20	N	15	N	100	N
BPP858	10	10	7	100	N	N	10	N	N	7	N	<100	70	N	70	N	150	N
BPP859	5	N	<5	N	N	N	5	<10	N	<5	N	200	20	N	10	N	50	N
BPP860	15	<10	10	<20	10	N	20	10	N	5	N	200	50	N	20	N	20	N
BPP861	15	10	5	50	10	N	<5	N	N	10	N	200	70	N	10	N	300	N
PPP862	30	500	5	N	N	N	150	<10	N	20	N	300	200	N	20	200	50	N
BPP863	5	10	10	<20	N	N	7	20	N	5	N	700	30	N	50	N	30	N
BPP864	5	<10	50	100	N	N	<5	50	N	10	N	200	50	N	30	N	200	N
BPP865	15	20	30	<20	N	N	20	10	N	10	N	300	100	N	20	N	100	N
BPP866	N	10	N	N	N	N	N	<10	N	5	N	500	500	N	10	N	30	N
BPP867	15	15	50	<20	N	N	30	20	N	10	N	500	150	N	20	N	200	N
BPP868	5	N	5	100	N	N	<5	10	N	5	N	300	30	N	30	N	150	N
BPP878	10	20	7	N	N	N	10	<10	N	7	N	300	100	N	20	N	50	N
BPP879	10	10	7	<20	N	N	7	20	N	5	N	200	70	N	20	200	70	N
BPP880	10	10	<5	<20	N	N	10	30	N	10	N	700	30	N	30	N	50	N
BPP881	N	20	20	<20	150	N	<5	20	N	7	N	200	100	N	10	N	150	N
BPP882	N	<10	7	N	N	N	N	50	N	10	N	700	50	N	50	N	20	N
BPP883	20	<10	200	N	50	N	10	150	N	<5	N	<100	50	N	10	N	20	N
BPP884	N	<10	7	N	N	N	N	50	N	7	N	700	30	N	20	N	<10	N
BPP885	15	20	15	N	N	N	20	N	N	10	N	<100	100	N	20	N	50	N
BPP886	10	20	15	<20	N	N	7	30	N	7	N	700	50	N	20	N	20	N
BPP887	N	<10	700	N	N	N	<5	N	N	N	N	500	10	N	20	N	N	N

Table 6. Analyses of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	AA-AU-P	INST-HG	AA-AS-P	AA-ZN-P	AA-CD-P	AA-BI-P	AA-SB-P	AA-TL-T	CM-W-P	SI-F
BPP832	N	.02	N	5	N	N	N	--	3.0	100
BPP833	N	<.02	N	10	N	N	N	--	2.0	100
BPP834	N	.02	N	70	N	N	N	--	2.0	440
BPP835	N	<.02	N	10	N	9	N	--	3.0	180
BPP836	N	<.02	N	60	N	<2	N	--	2.0	300
BPP837	N	<.02	5	55	N	<2	N	--	3.0	360
BPP838	N	.04	5	60	.1	<2	N	--	3.0	360
BPP839	N	.02	N	30	N	N	N	--	<1.0	900
BPP840	N	.02	15	90	.1	N	2	--	<1.0	480
BPP841	N	.06	5	70	.2	2	N	--	<1.0	240
BPP842	N	.02	15	45	N	N	4	--	1.0	260
BPP843	N	.18	340	130	.4	<2	5	--	3.0	160
BPP844	N	.02	300	70	.1	<2	3	--	2.0	600
BPP845	N	<.02	30	90	.3	N	2	--	<1.0	280
BPP846	N	<.02	50	30	.1	N	N	--	<1.0	120
BPP847	N	.08	1,100	5	.1	N	4	--	1.0	150
BPP850	N	<.02	50	70	.1	N	11	--	2.0	300
BPP851	N	<.02	30	50	.1	N	6	--	<1.0	240
BPP852	N	.14	30	65	.1	N	7	--	<1.0	330
BPP853	N	.02	10	85	.2	N	5	--	1.0	240
BPP854	.90	<.02	80	70	N	N	9	--	8.0	250
BPP855	N	.20	950	10	N	N	110	--	N	680
BPP856	N	.10	350	20	.1	N	6	--	<1.0	560
BPP857	N	<.02	30	50	.1	N	2	--	<1.0	160
BPP858	N	<.02	10	30	.2	N	N	--	<1.0	170
BPP859	N	<.02	N	10	.1	N	N	--	<1.0	100
BPP860	N	<.02	110	35	.4	N	3	--	1.0	130
BPP861	N	<.02	50	20	.1	N	5	--	<1.0	300
BPP862	N	<.02	10	240	.1	N	4	--	<1.0	440
BPP863	N	<.02	N	15	.1	N	4	--	<1.0	200
BPP864	N	<.02	90	70	N	N	5	--	1.0	330
BPP865	N	<.02	20	75	N	N	4	--	2.0	400
BPP866	.05	<.02	10	15	.4	N	4	--	3.0	180
BPP867	N	.02	70	60	N	N	41	--	1.0	360
BPP868	N	<.02	25	20	N	15	6	--	2.0	160
BPP878	N	<.02	10	80	.1	N	N	--	4.0	120
BPP879	N	.02	5	200	.4	<2	3	--	2.0	<100
BPP880	N	.02	10	35	1.9	N	1	--	1.0	<100
BPP881	N	.36	>2,000	60	.4	N	8	--	5.0	<100
BPP882	N	.24	700	100	1.4	N	1	--	2.0	<100
BPP883	1.00	1.20	120	30	.5	N	4	--	8.0	<100
BPP884	N	.04	N	20	.7	<2	2	--	2.0	<100
BPP885	N	N	N	100	.2	<2	2	--	2.0	170
BPP886	N	.10	N	45	1.0	<2	2	--	1.0	130
BPP887	N	.18	N	5	.5	<2	1	--	1.0	<100

Table 6. Analyses of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
BPP917	33 6 17	114 44 24	5.00	5.00	20.00	.200	2,000	N	1,500	N	700	500	1.5	N	N
BPP918	33 6 21	114 44 27	2.00	10.00	20.00	.100	1,500	N	300	N	1,500	200	3.0	N	N
BPP919	33 6 22	114 44 36	2.00	7.00	20.00	.150	3,000	N	3,000	N	200	100	5.0	N	N
BPP920	33 6 22	114 44 36	1.50	1.00	.30	.300	150	N	1,500	N	2,000	1,000	5.0	N	N
BPP921	33 6 22	114 44 36	1.50	1.50	.20	.100	150	N	300	N	500	1,000	5.0	N	N
BPP922	33 6 22	114 44 36	.50	.70	.20	.100	50	N	500	N	1,000	500	3.0	N	N
BPP923	33 6 22	114 44 36	1.50	1.50	15.00	.100	5,000	N	700	N	300	300	3.0	N	N
BPP924	33 6 18	114 44 39	1.00	.30	.50	.100	200	N	N	N	70	1,000	5.0	N	N
BPP925	33 4 50	114 48 22	.05	.10	1.00	.005	150	N	N	N	20	150	1.5	N	N
BPP927	33 4 45	114 48 19	1.00	.07	5.00	.100	700	N	N	N	100	500	7.0	N	N
BPP928	33 4 50	114 48 17	.70	.10	5.00	.070	1,000	N	N	N	100	500	3.0	N	N
BPP929	33 4 55	114 48 10	.70	.10	2.00	.050	1,000	N	N	N	50	100	10.0	N	N
BPP930	33 4 55	114 48 10	1.00	.07	5.00	.050	500	N	N	N	50	70	10.0	N	N
BPP931	33 4 55	114 48 10	2.00	.20	.30	.050	200	N	N	N	100	150	10.0	N	N
BPP932	33 4 42	114 48 37	10.00	5.00	1.50	1.000	1,000	N	N	N	100	1,000	1.5	N	N
BPP932A	33 4 42	114 48 37	.20	.20	.20	.010	200	N	N	N	10	70	1.0	N	N
BPP933	33 4 46	114 48 47	7.00	3.00	1.00	.700	1,000	N	N	N	10	1,500	2.0	N	N
BPP933A	33 4 46	114 48 47	N	<.02	.05	.002	15	N	N	N	10	N	1.0	N	N
BPP934	33 5 13	114 48 42	5.00	1.00	1.00	.500	700	N	N	N	20	1,000	3.0	N	N
BPP934A	33 5 13	114 48 42	1.00	.20	.50	.100	200	N	N	N	20	150	5.0	N	N
BPP935	33 5 38	114 48 39	7.00	1.50	1.00	.500	1,000	N	N	N	50	1,000	2.0	N	N
BPP936	33 5 42	114 48 47	5.00	1.00	1.50	.500	1,000	<.5	N	N	100	1,000	3.0	N	N
BPP937	33 6 5	114 48 39	10.00	7.00	2.00	.500	2,000	N	N	N	20	300	2.0	N	N
BPP938	33 5 57	114 48 56	1.50	.30	1.00	.200	300	N	N	N	100	500	3.0	N	N
BPP939	33 5 56	114 49 11	5.00	1.00	1.00	.500	700	N	N	N	50	1,000	3.0	N	N
BPP939A	33 5 56	114 49 11	N	<.02	.05	<.002	20	N	N	N	10	N	<1.0	N	N
BPP940	33 6 0	114 49 21	5.00	.70	.70	.500	1,000	N	N	N	20	1,000	3.0	N	N
BPP941	33 5 45	114 49 38	15.00	.50	10.00	.020	>5,000	3.0	N	N	100	100	3.0	<10	30
BPP942	33 6 12	114 50 9	5.00	.70	2.00	.500	1,000	N	N	N	20	2,000	2.0	N	N
BPP942A	33 6 12	114 50 9	20.00	1.00	10.00	.100	>5,000	7.0	N	N	200	200	15.0	150	20
BPP943	33 6 9	114 50 5	10.00	2.00	1.00	.500	2,000	N	N	N	70	1,500	2.0	N	N
BPP944	33 6 23	114 49 56	5.00	1.00	1.00	.500	1,000	N	N	N	50	1,500	3.0	N	N
BPP945	33 5 54	114 49 39	5.00	1.00	1.50	.500	1,000	N	N	N	50	1,000	3.0	N	N
BPP945A	33 5 54	114 49 39	.70	.03	.20	.010	3,000	N	N	N	30	150	10.0	N	N
BPP946	33 6 22	114 49 45	7.00	1.00	1.50	.500	5,000	N	N	N	10	1,000	3.0	N	N
BPP947	33 6 12	114 49 26	7.00	2.00	1.00	.500	700	N	N	N	100	500	1.5	N	N
BPP948	33 6 18	114 49 9	10.00	5.00	1.00	.500	2,000	N	N	N	20	1,000	5.0	N	N
BPP949	33 6 30	114 49 3	5.00	1.00	1.00	.500	1,000	N	N	N	30	1,000	2.0	N	N
BPP949A	33 6 30	114 49 3	N	.02	.20	.002	30	N	N	N	20	20	3.0	N	N
BPP950	33 6 30	114 49 9	5.00	1.50	1.50	.500	700	N	N	N	70	1,500	3.0	N	N
BPP951	33 6 35	114 49 22	10.00	2.00	.70	.500	3,000	N	N	N	200	1,000	5.0	N	N
BPP952	33 6 37	114 49 39	7.00	2.00	1.00	.500	1,000	N	N	N	50	1,000	2.0	N	N
BPP953	33 6 38	114 50 0	3.00	.70	1.50	.500	500	N	N	N	10	1,000	2.0	N	N
BPP954	33 4 15	114 49 36	3.00	1.00	.70	.500	1,000	N	N	N	30	700	2.0	N	N
BPP955	33 4 26	114 49 42	5.00	.70	1.00	.500	500	N	N	N	20	1,000	3.0	N	N

Table 6. Analyses of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
BPP917	10	20	50	<20	20	N	30	10	N	10	N	5,000	70	N	20	N	50	N
BPP918	5	N	30	N	10	N	15	15	N	<5	N	>5,000	50	N	<10	N	10	N
BPP919	5	10	30	N	5	N	20	10	1,500	7	N	5,000	50	N	10	N	30	N
BPP920	5	20	15	<20	<5	20	10	20	100	7	N	500	70	N	<10	N	200	N
BPP921	<5	N	5	N	N	<20	5	30	100	<5	N	300	15	N	<10	N	50	N
BPP922	<5	N	<5	N	N	<20	5	N	300	N	N	500	15	N	<10	N	150	N
BPP923	5	<10	10	N	N	N	10	30	<100	5	N	1,000	20	N	20	N	30	N
BPP924	N	N	<5	50	N	N	5	20	N	<5	N	200	20	N	10	N	70	N
BPP925	N	N	<5	<20	N	N	5	N	N	N	N	N	<10	N	N	N	N	N
BPP927	N	N	N	70	N	<20	<5	20	N	<5	N	300	10	N	20	N	300	N
BPP928	N	N	7	N	N	N	5	20	N	<5	N	150	15	N	10	N	50	N
BPP929	N	N	<5	<20	N	20	5	30	N	N	N	150	10	N	50	N	200	N
BPP930	N	N	<5	50	<5	<20	5	50	N	N	N	150	<10	N	50	N	200	N
BPP931	N	N	5	<20	N	30	<5	30	N	N	N	N	15	N	30	N	200	N
BPP932	30	500	100	50	<5	N	300	20	N	20	N	200	300	N	30	<200	300	N
BPP932A	N	N	10	N	N	N	15	N	N	N	N	N	<10	N	N	N	N	N
BPP933	15	70	70	50	N	N	70	20	N	15	N	200	150	N	30	<200	300	N
BPP933A	N	N	N	N	N	N	5	N	N	N	N	N	<10	N	N	N	N	N
BPP934	10	50	70	50	N	N	30	30	N	15	N	500	100	N	30	N	300	N
BPP934A	N	N	N	N	N	N	5	20	N	N	N	N	10	N	20	N	50	N
BPP935	10	100	50	50	N	N	50	30	N	20	N	300	300	N	30	<200	200	N
BPP936	15	50	50	50	N	N	50	20	N	15	N	200	150	N	100	N	300	N
BPP937	50	500	100	N	N	N	200	10	N	50	N	300	300	N	30	N	50	N
BPP938	5	N	N	N	N	N	5	20	N	5	N	150	15	N	10	N	70	N
BPP939	15	70	70	50	N	N	20	50	N	10	N	200	100	N	30	<200	300	N
BPP939A	N	N	<5	N	N	N	5	N	N	N	N	N	N	N	N	N	N	N
BPP940	10	50	50	50	N	N	20	20	N	10	N	150	100	N	20	N	200	N
BPP941	10	20	500	<20	N	N	30	70	N	5	100	500	30	500	30	700	15	N
BPP942	10	50	100	50	N	N	20	20	N	10	N	300	100	N	30	N	200	N
BPP942A	30	50	1,000	50	N	N	50	500	N	5	500	500	100	2,000	150	700	10	N
BPP943	20	50	15	50	N	N	50	20	N	20	N	300	100	N	20	200	150	N
BPP944	10	70	15	50	N	N	30	20	N	10	N	300	100	N	20	N	200	N
BPP945	10	50	10	70	N	N	20	20	N	10	N	500	70	N	20	N	200	N
BPP945A	N	N	30	N	N	N	5	50	N	5	N	N	<10	N	100	N	100	N
BPP946	20	50	50	50	N	N	50	20	N	10	N	300	100	N	50	<200	200	N
BPP947	15	100	100	<20	N	N	150	<10	N	20	N	200	200	N	20	N	100	N
BPP948	30	100	150	50	N	<20	150	30	N	20	N	300	200	N	50	<200	200	N
BPP949	10	100	30	50	N	N	100	15	N	10	N	200	150	N	20	N	150	N
BPP949A	N	N	N	<20	N	N	N	N	N	N	N	N	<10	N	<10	N	N	N
BPP950	10	50	50	70	N	<20	30	20	N	15	N	500	100	N	30	N	300	N
BPP951	50	70	200	100	N	N	200	30	N	20	N	300	150	N	100	200	200	N
BPP952	15	100	100	N	N	N	70	<10	N	20	N	300	200	N	20	N	100	N
BPP953	10	50	50	70	N	N	20	20	N	10	N	500	70	N	30	N	500	N
BPP954	10	30	20	50	N	N	20	<10	N	10	N	300	50	N	20	N	300	N
BPP955	10	20	10	50	N	N	20	15	N	10	N	500	70	N	10	N	200	N

Table 6. Analyses of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	AA-AU-P	INST-HG	AA-AS-P	AA-ZN-P	AA-CD-P	AA-BI-P	AA-SB-P	AA-TL-T	CM-W-P	SI-F
BPP917	N	.06	450	40	N	1	10	--	N	800
BPP918	N	.16	200	10	N	2	8	--	N	700
BPP919	N	.26	1,700	10	N	1	640	--	N	1,900
BPP920	N	.18	700	50	N	3	26	--	N	800
BPP921	N	.04	200	35	N	2	42	--	N	700
BPP922	N	.04	200	15	N	1	16	--	N	500
BPP923	N	.18	400	50	N	N	14	--	N	500
BPP924	N	.10	N	20	N	1	<2	--	N	26,000
BPP925	N	.14	N	<5	N	1	<2	--	N	1,800
BPP927	N	.06	N	25	N	1	<2	--	N	200
BPP928	N	.04	N	10	N	<1	<2	--	N	100
BPP929	N	.10	N	25	N	N	<2	--	N	100
BPP930	N	.10	10	25	.5	N	N	--	N	200
BPP931	N	.16	<10	15	N	N	<2	--	N	200
BPP932	N	.18	N	100	N	N	N	--	N	300
BPP932A	N	.04	N	<5	N	1	N	--	N	200
BPP933	N	.04	N	100	N	1	N	--	N	300
BPP933A	N	.30	N	N	N	1	N	--	N	100
BPP934	N	N	N	90	N	1	N	--	N	500
BPP934A	N	.08	N	15	N	1	N	--	N	200
BPP935	N	N	N	120	N	N	N	--	1.5	300
BPP936	N	.02	N	80	N	N	N	--	1.0	400
BPP937	N	.02	N	30	N	N	N	--	1.5	300
BPP938	N	.02	N	30	N	N	N	--	N	200
BPP939	N	N	N	100	N	N	N	--	1.5	400
BPP939A	N	.02	N	<5	N	N	N	--	N	200
BPP940	<.05	N	N	80	N	N	<2	--	1.0	200
BPP941	.10	N	N	690	5.9	3	<2	--	>500.0	200
BPP942	<.05	N	N	40	N	N	N	--	7.0	300
BPP942A	.05	N	N	430	3.6	84	N	--	>500.0	300
BPP943	N	N	N	120	N	1	N	--	7.5	400
BPP944	N	N	N	100	N	2	N	--	1.0	300
BPP945	N	N	N	55	N	N	N	--	1.0	300
BPP945A	N	N	N	5	N	N	N	--	1.0	100
BPP946	N	N	N	100	N	N	N	--	1.0	400
BPP947	N	.02	N	60	N	1	N	--	.5	300
BPP948	N	.02	N	120	N	1	N	--	1.0	400
BPP949	N	N	N	60	N	1	N	--	N	200
BPP949A	N	N	N	N	N	N	N	--	N	100
BPP950	N	.08	N	70	N	N	<2	--	1.0	400
BPP951	N	N	N	130	N	N	<2	--	2.5	300
BPP952	N	N	N	65	N	N	<2	--	N	200
BPP953	N	N	N	40	N	N	<2	--	N	200
BPP954	N	N	N	65	N	N	<2	--	.5	300
BPP955	N	N	N	70	N	N	<2	--	N	300

Table 6. Analyses of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
BPP956	33 4 42	114 50 2	5.00	.70	1.00	.500	700	N	N	N	30	1,500	3.0	N	N
BPP957	33 4 59	114 50 0	7.00	1.50	1.00	.700	500	N	N	N	50	700	2.0	N	N
BPP958	33 5 14	114 50 6	7.00	2.00	1.00	.500	1,000	N	N	N	50	1,500	2.0	70	N
BPP959	33 5 33	114 49 48	10.00	3.00	1.50	.700	1,500	N	N	N	50	700	3.0	N	N
BPP960	33 5 24	114 49 17	10.00	2.00	1.00	.500	1,000	<.5	N	N	50	1,000	3.0	N	N
BPP960A	33 5 24	114 49 17	.10	.05	.05	.005	50	N	N	N	20	N	N	N	N
BPP961	33 5 0	114 49 17	7.00	2.00	1.50	.500	1,000	N	N	N	10	1,500	3.0	N	N
BPP962	33 1 44	114 46 42	2.00	.30	2.00	.200	700	1.0	N	N	20	1,000	1.0	N	N
BPP963	33 1 44	114 46 42	1.50	.30	.10	.150	500	5.0	<200	N	70	200	2.0	N	N
BPP964	33 1 40	114 46 41	.50	.02	.05	.015	70	.5	N	N	10	500	1.5	N	N
BPP965	33 1 40	114 46 41	2.00	.30	.70	.500	500	1.0	N	N	50	500	2.0	N	N
BPP966	33 1 41	114 46 37	1.50	.15	.10	.200	150	1.0	N	N	30	700	1.0	N	N
BPP967	33 1 34	114 46 16	1.50	.50	1.00	.200	200	.5	N	N	30	500	<1.0	N	N
BPP968	33 9 25	114 50 37	3.00	1.00	.70	.300	500	.5	N	N	20	70	N	N	N
BPP969	33 9 25	114 50 37	3.00	.05	.70	.050	150	5.0	N	10	20	50	N	N	N
BPP970	33 11 28	114 51 10	1.00	.03	.70	.150	50	N	N	N	30	500	2.0	N	N
BPP971	33 11 30	114 50 30	.50	.05	.20	.070	70	N	N	N	50	200	2.0	N	N
BPP972	33 11 42	114 50 30	.50	.02	.10	.050	50	N	N	N	50	200	2.0	N	N
BPP973	32 59 31	114 47 8	.50	.07	1.50	.150	50	N	N	N	30	200	N	N	N
BPP974	32 59 33	114 47 5	.70	.30	.50	.200	70	N	N	N	70	150	1.0	N	N
BPP975	32 59 32	114 46 59	.50	.30	.50	.150	50	N	N	N	20	100	<1.0	N	N
BPP976	32 59 29	114 46 58	1.50	.02	1.00	.200	500	N	N	N	10	500	N	N	N
BPP977	32 59 36	114 47 14	1.50	1.00	1.00	.300	500	N	N	N	100	700	1.5	N	N
BPP978	33 1 44	114 46 42	2.00	.30	.70	.200	700	1.0	N	N	50	500	1.5	N	N
BPP979	33 1 40	114 46 25	1.50	1.00	2.00	.200	1,000	1.0	<200	N	50	700	1.5	N	N
BPP980	33 1 40	114 46 25	3.00	1.50	1.00	.500	700	<.5	N	N	10	1,000	1.5	N	N
BPP981	33 1 34	114 46 16	1.50	.50	1.50	.200	500	.7	N	N	20	500	1.5	N	N
BPP982	33 4 33	114 44 21	.20	.10	1.50	.020	700	5.0	N	N	50	200	2.0	N	N
BPP983	33 4 56	114 46 13	.15	.05	<.05	.070	100	10.0	N	N	20	200	2.0	N	N
BPP984	33 5 25	114 44 10	.50	.30	1.00	.100	500	N	N	N	10	300	<1.0	N	N
BPP985	33 6 58	114 43 40	1.00	.70	20.00	.050	>5,000	N	<200	N	<10	50	<1.0	N	N
BPP986	33 6 53	114 44 15	2.00	3.00	10.00	.200	2,000	N	700	N	200	1,000	2.0	N	N
BPP987	33 6 46	114 44 48	3.00	.30	1.50	.700	700	1.5	N	N	30	1,000	3.0	N	N
BPP988	33 7 22	114 44 30	1.50	.05	.70	.100	20	<.5	200	N	50	500	5.0	N	N
BPP989	33 7 23	114 44 22	.50	<.02	.07	.100	20	1.5	N	N	70	200	3.0	N	N
BPP990	33 1 52	114 38 26	.70	<.02	.10	.070	20	1.0	N	N	70	150	3.0	N	N
BPP991	33 6 51	114 50 45	2.00	.15	2.00	.500	500	<.5	N	N	70	700	3.0	N	N
BPP992	33 6 44	114 50 35	2.00	.70	.50	.500	1,000	.7	N	N	15	1,000	3.0	<10	N
BPP993	33 6 12	114 50 9	1.50	.50	1.00	.150	2,000	7.0	N	N	20	20	1.0	100	30
BPP994	33 6 30	114 50 15	5.00	.20	.30	.300	5,000	20.0	N	N	70	1,500	3.0	500	30

Table 6. Analyses of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
BPP956	10	30	50	50	N	N	30	15	N	10	N	500	100	N	15	N	150	N
BPP957	15	30	70	50	N	N	50	30	N	15	N	500	100	N	30	200	300	N
BPP958	15	50	300	50	N	N	50	30	N	15	N	300	100	N	30	N	300	N
BPP959	10	70	50	50	N	<20	50	20	N	20	N	500	200	N	50	N	200	N
BPP960	15	50	100	50	N	N	50	50	N	15	N	500	150	N	20	N	150	N
BPP960A	N	N	<5	N	N	N	N	N	N	N	N	N	10	N	N	N	N	N
BPP961	15	50	100	50	N	N	50	30	N	10	N	500	200	N	30	N	300	N
BPP962	30	15	15	<20	7	N	20	15	N	10	N	150	70	50	20	N	150	N
BPP963	7	N	5	N	<5	N	5	10	N	5	N	N	50	N	10	<200	70	N
BPP964	<5	N	N	N	N	N	<5	10	N	N	N	150	10	N	N	N	10	N
BPP965	15	<10	10	50	<5	N	7	10	N	10	N	200	100	N	20	N	200	N
BPP966	7	<10	7	50	N	N	5	20	N	7	N	200	100	N	15	N	200	N
BPP967	7	N	15	50	5	N	5	15	N	7	N	100	50	<50	15	N	200	N
BPP968	30	20	700	N	<5	N	20	<10	N	15	N	N	200	N	20	N	50	N
BPP969	7	<10	1,500	N	20	N	5	20	N	5	N	150	200	N	<10	N	30	N
BPP970	N	N	10	50	N	20	N	10	N	<5	N	N	30	N	20	N	500	N
BPP971	N	N	5	50	N	<20	N	20	N	N	N	N	10	N	15	N	150	N
BPP972	N	10	5	<20	N	20	N	15	N	N	N	N	10	N	10	N	100	N
BPP973	N	N	N	50	<5	<20	N	100	N	<5	N	100	10	N	20	N	300	N
BPP974	N	N	50	70	5	20	N	100	N	<5	N	100	30	N	30	N	300	N
BPP975	N	N	15	50	<5	<20	N	50	N	<5	N	<100	50	N	20	N	200	N
BPP976	5	N	50	50	N	N	N	20	N	5	N	<100	70	<50	15	N	300	N
BPP977	10	N	15	50	N	N	5	15	N	10	N	300	50	N	20	N	300	N
BPP978	7	<10	<5	N	N	N	5	10	N	5	N	100	70	<50	10	N	100	N
BPP979	10	10	20	N	N	N	10	10	N	7	N	100	70	N	20	N	100	N
BPP980	30	10	30	<20	N	N	20	10	N	15	N	200	100	N	20	N	300	N
BPP981	10	<10	N	50	<5	N	7	10	N	10	N	150	50	<50	20	N	200	N
BPP982	N	N	20,000	N	N	N	5	N	N	N	N	200	30	N	20	N	50	N
BPP983	N	N	15,000	N	N	N	N	N	N	N	N	N	70	N	N	N	10	N
BPP984	15	15	5,000	N	N	N	10	N	N	N	N	N	50	N	N	N	10	N
BPP985	20	10	50	N	20	N	10	20	N	N	N	3,000	20	N	N	N	50	N
BPP986	15	30	50	20	15	N	30	50	<100	7	N	1,500	100	N	20	N	50	N
BPP987	15	10	30	70	N	<20	10	20	N	7	N	500	50	N	20	N	200	N
BPP988	N	<10	7	70	N	<20	5	150	N	N	N	200	<10	N	20	N	150	N
BPP989	N	N	<5	70	N	<20	N	30	N	N	N	N	<10	N	20	N	200	N
BPP990	N	N	5	50	N	<20	N	20	N	N	N	100	<10	N	20	N	150	N
BPP991	15	20	30	30	N	N	30	10	N	7	N	300	100	N	15	N	100	N
BPP992	10	50	10	50	N	N	20	300	N	7	N	200	70	N	20	N	100	N
BPP993	10	15	10,000	50	N	N	50	3,000	N	5	20	N	50	50	50	1,500	50	N
BPP994	15	15	20,000	50	50	N	15	7,000	N	7	70	200	50	N	30	>10,000	70	N

Table 6. Analyses of rock samples from the Indian Pass and Picacho Peak BLM Wilderness Study Areas, Imperial County, California.--CONTINUED

SAMPLE	AA-AU-P	INST-HG	AA-AS-P	AA-ZN-P	AA-CD-P	AA-BI-P	AA-SB-P	AA-TL-T	CM-W-P	SI-F
BPP956	N	N	N	45	N	N	N	--	N	300
BPP957	N	.02	N	100	N	N	N	--	<.5	300
BPP958	.10	N	N	80	N	38	<2	--	1.5	400
BPP959	N	N	N	75	N	1	N	--	.5	300
BPP960	N	N	N	70	N	3	N	--	N	300
BPP960A	N	N	N	<5	N	<1	N	--	N	100
BPP961	N	N	N	85	N	N	N	--	N	200
BPP962	2.20	.04	165	75	.1	N	2	--	58.0	300
BPP963	.40	.28	135	35	N	N	4	--	18.0	200
BPP964	.50	.14	25	5	N	N	N	--	2.0	100
BPP965	.05	.02	140	55	N	N	4	--	29.0	400
BPP966	N	.50	100	40	N	N	2	--	18.0	300
BPP967	.35	.62	5	25	N	N	N	--	45.0	100
BPP968	5.00	.02	15	30	N	N	N	--	16.0	100
BPP969	19.00	.02	20	N	N	N	N	--	3.5	100
BPP970	N	.04	5	N	N	N	N	--	3.0	800
BPP971	N	.04	5	10	N	N	N	--	1.5	100
BPP972	N	.54	5	<5	N	N	N	--	1.5	100
BPP973	N	.16	<5	<5	N	N	N	--	5.0	100
BPP974	.20	.08	10	5	N	N	N	--	14.0	200
BPP975	.10	.04	5	10	N	N	N	--	8.5	200
BPP976	N	.10	5	20	N	N	N	--	50.0	100
BPP977	N	.04	35	<5	N	N	N	--	2.5	100
BPP978	.25	.02	100	30	N	N	N	--	54.0	300
BPP979	.10	3.50	125	60	N	N	N	--	7.0	200
BPP980	N	.02	10	70	N	N	N	--	5.0	400
BPP981	.10	.02	10	35	N	N	N	--	38.0	200
BPP982	.30	N	N	<5	.1	N	N	--	N	<100
BPP983	.30	N	N	N	.1	N	N	--	N	<100
BPP984	.05	<.02	N	15	.3	N	N	--	N	<100
BPP985	.05	.16	210	20	.2	N	12	--	N	200
BPP986	.05	.44	1,300	45	.1	N	38	--	.5	500
BPP987	.05	<.02	10	30	.5	N	N	--	5.5	300
BPP988	<.05	<.02	120	10	.3	N	2	--	3.0	200
BPP989	<.05	N	N	5	.2	N	N	--	8.0	100
BPP990	.05	.02	<10	5	.1	N	N	--	9.0	<100
BPP991	.05	.02	10	65	N	N	N	--	3.0	300
BPP992	.05	<.02	10	100	N	N	N	--	1.0	200
BPP993	.05	.06	N	1,500	.2	N	N	--	9.0	200
BPP994	.05	.14	30	>2,000	.1	N	N	--	.5	300