UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

# Analytical results and sample locality maps of stream-sediment and heavy-mineral-concentrate samples from the Honeycombs (OR-003-77A) and the Owyhee Canyon (OR-003-195) Bureau of Land Management Wilderness Study Areas, Malheur County, Oregon

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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### 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 geochemical surveys of the Honeycombs (OR-003-077A) and the Owyhee Canyon (OR-003-195) Bureau of Land Management Wilderness Study Areas, Malheur County, Oregon.


## ACKNOWLEDGMENT

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## INTRODUCTION

During May to August of 1984, the U.S. Geological Survey conducted reconnaissance geochemical surveys of the Honeycombs (OR-003-077A) and 138,915 acres of the Owyhee Canyon (OR-003-195) Bureau of Land Management Wilderness Study Areas, Malheur County, Oregon. The survey of the acreage given for the Owyhee Canyon Wilderness Stuyd Area was requested by the Bureau of Land Management. In this report that studied area is called "wilderness study area" or just "study area."

**TABLE 1. Bureau of Land Management Wilderness Study Areas in Malheur County, southeastern Idaho covered in this report**

| | SIZE | | |
|---|---|---|---|
| Wilderness Study Area | $mi^2$ | $km^2$ | acres |
| Honeycombs | 57 | 148 | 36,284 |
| Oywhee Canyon | 238 | 619 | 152,040 |

The Honeycombs Wilderness Study Area is in east central Malheur County, Oregon, about 40 mi (64 km) north of Jordan Valley, Oregon and about 50 mi (80 km) west of Boise, Idaho (see fig. 1). Access to this study area is provided on the east via an improved gravel road parallel to Succor Creek; this road connects to U.S. Highway 95 about 19 mi (30 km) north of Jordan Valley. Other access is several unimproved gravel roads and jeep trails. Access to the area from the south is by an improved gravel road that joins the road parallel to Succor Creek and follows Leslie Gulch along the southern boundary of the study area and terminates at Owyhee Reservoir. Access to the area from the west is by boat via Owyhee Reservoir.

The Honeycombs study area is underlain by volcanic and sedimentary rocks which were deposited in a broad north-plunging basin that evolved in eastern Oregon and western Idaho in late Miocene time (Gray and others, 1983). A

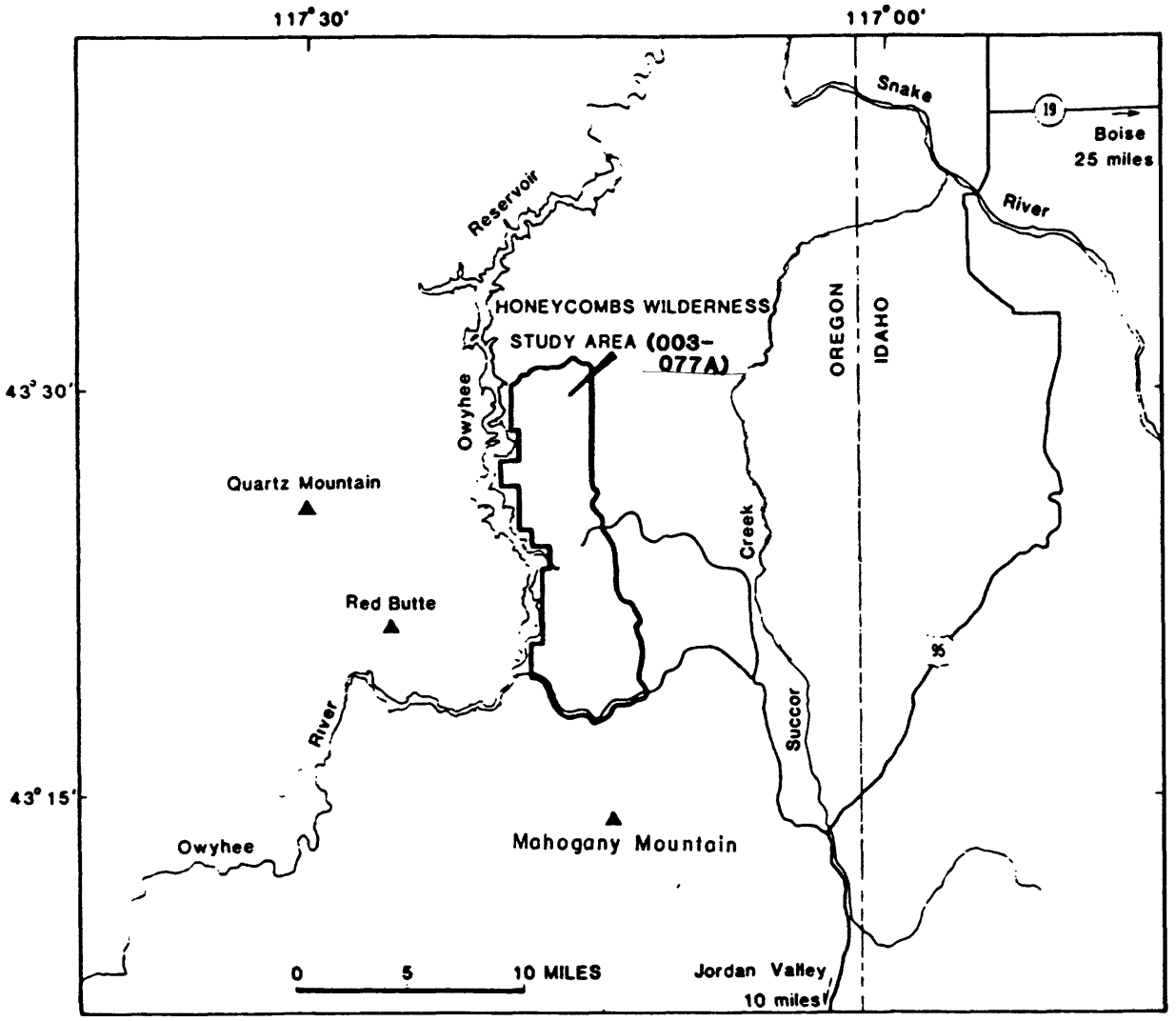


Figure 1. Location map of the Honeycombs (OR-003-77A) Bureau of Land Management Wilderness Study Areas, Malheur County, Oregon.

thick basal section formed by multiflow rhyolitic and volcanoclastic rocks of Miocene age are overlain by sedimentary rocks interbedded with ash-flow and air-fall tuffs. Plugs, dikes, and sills of basalt, andesite, and rhyolite intrude the entire sequence. Basalt flows of Pliocene and Pleistocene age cap the section (Kittleman and others, 1965).

The topographic relief in the study area is about 2,360 ft (719 m) with a maximum elevation of 5,025 ft (1,532 m). The topographic pattern is dominated by north-trending ridges and valleys and deeply eroded west-trending canyons. The drainage systems of the entire area empty into Owyhee Reservoir.

The Owyhee Canyon wilderness study area is in the Owyhee Plateau in extreme southeastern Malheur County, Oregon, which is about 33 mi (53 km) south of Jordan Valley via improved and gravel roads. The center of the study area is at Three Forks, and lies about 5 mi (8 km) southeast of Rome, Oregon, via gravel roads to the exteme west end of the study area (see fig. 2). U.S. Highway 95 connects with the access roads both to the north and to the west. The area has a total relief of 2,400 ft (732 m) and consists of expansive flat fields and rolling hills cut by canyons of depths to 1,000 ft (305 m).

The Owhyee River Canyon wilderness study area is underlain by flat-lying volcanic, pyroclastic, and sedimentary rocks of Middle Miocene through Holocene age (Evans and others, unpublished data, 1986). Rhyolitic welded ash-flow tuff and tuff breccia comprise the Swisher Mountain Tuff, the oldest and most abundant rock unit in the study area. Basalt overlies the rhyolite and forms low, rounded buttes that are probably the remains of shield volcanos. In the middle part of the area the basalt and rhyolite are separated stratigraphically by a thin wedge of conglomerate, siltstone, tuff, and lacustrine deposits. In the northern part, the basalt is covered by conglomerate and silt. High-angle normal faults, ranging in age from Miocene through Holocene are common in the northern part of the study area.

## 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 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.

### Sample Collection

TABLE 2.--Number of sample sites for each Wilderness Study Area

| Wilderness Study Area | Number of sites |
|---|---|
| Honeycombs | 53 |
| Owyhee Canyon | 201 |

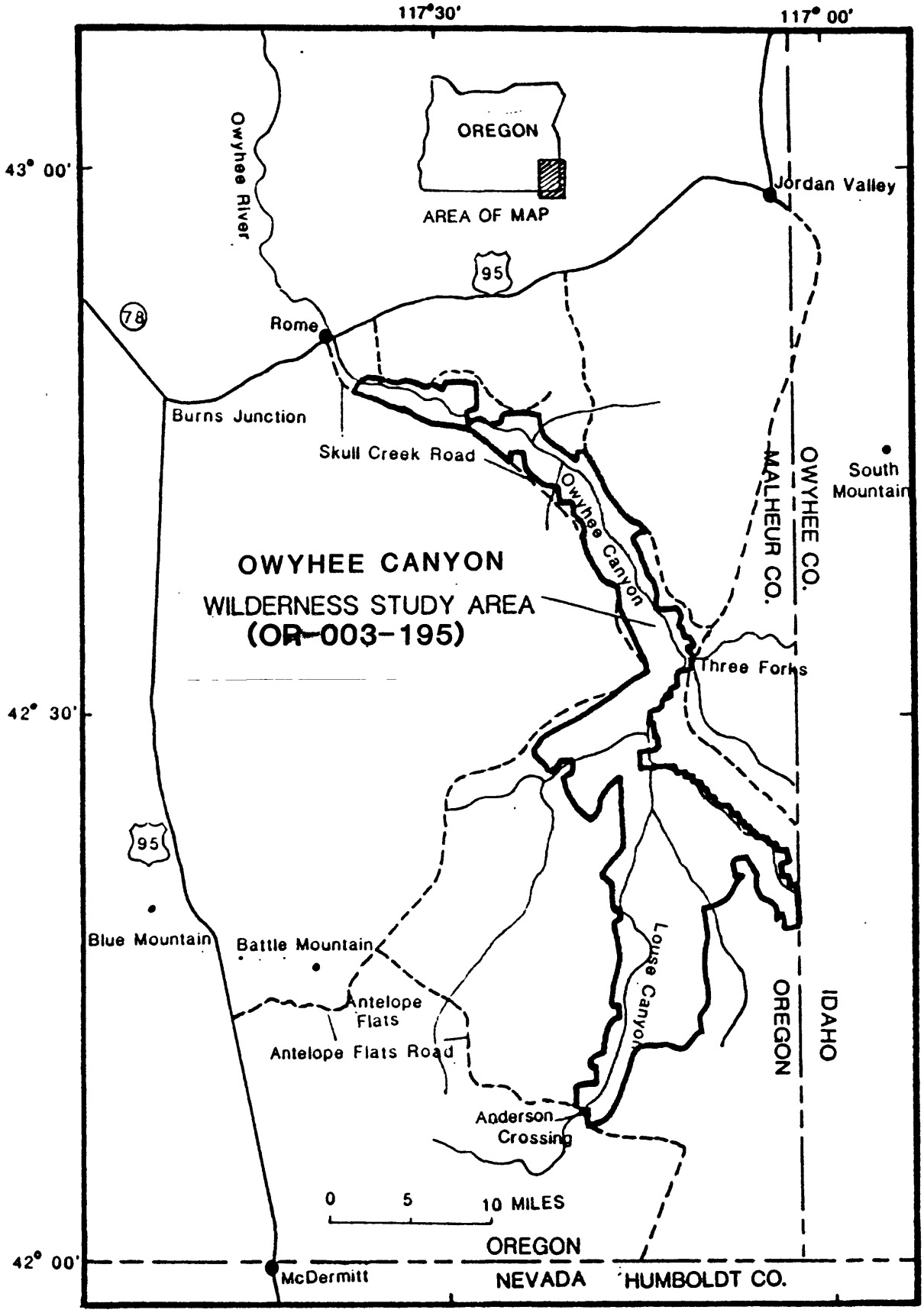


Figure 2. Location map of the Owyhee Canyon (OR-003-195) Bureau of Land Management wilderness study area, Malheur County, Oregon.

At nearly all of those sites, both a stream-sediment sample and a heavy-mineral-concentrate sample were collected. Sampling density was about one sample site per $mi^2$ for the stream sediments and heavy-mineral concentrates. The area of the drainage basins sampled ranged from 0.5 $mi^2$ (1.3 $km^2$) to 6 $mi^2$ (15.5 $km^2$).

### 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 = 1:24,000). Each sample was composited from several localities within an area that may extend as much as 50 ft from the site plotted on the map.

### Heavy-mineral-concentrate samples

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.

## 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. 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 0.1 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.

## Sample Analysis

### Spectrographic method

The stream-sediment and heavy-mineral-concentrate samples were analyzed for 31 elements using semiquantitative, direct-current arc emission spectrographic methods. Analyses for the stream-sediment samples were performed using the method of Myers and others (1961). Analyses for heavy-mineral-concentrate samples were performed using the method of Grimes and Marranzino (1968). The elements analyzed and their lower limits of determination are listed in table 3. Spectrographic results were obtained by

visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting 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 Honeycombs (OR-003-077A) and the Owyhee Canyon (OR-003-195) wilderness study areas, Malheur County, Oregon are listed in tables 5-8.

### Chemical methods

Other methods of analysis used on samples from these wilderness study areas are summarized in table 4.

Analytical results for stream-sediment and heavy-mineral-concentrate samples are listed in tables 5-8, respectively.

The analytical method used for determining As, Bi, Cd, Sb, and Zn is a modification and adaptation for the inductively coupled plasma method (ICP) based on the method of O'Leary and Viets (1986).

## 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 5-8 list the analyses for the samples of stream sediment and heavy-mineral concentrate, respectively. For the 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, 2 and 3). Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic analyses; "ICP" indicates inductively coupled plasma-atomic emission spectroscopy 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 3. 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 5-8 in place of an analytical value. Because of the formatting used in the computer program that produced tables 5-8, 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 3.--Limits of determination for the spectrographic analysis of stream sediments, based on a 10-mg sample

[The values shown are the lower limits of determination assigned by the Grimes and Marranzino method (Grimes and Marranzino, 1968), except for those values in parentheses, which are the lower values assigned by the Myers and others method (Myers and others, 1961). The spectrographic limits of determination for heavy-mineral-concentrate samples (Grimes and Marranzino, 1968) are based on a 5-mg sample, and are therefore two reporting intervals higher than the limits given for 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 (700) | 10,000 |
| Gold (Au) | 10 (15) | 500 |
| Boron (B) | 10 | 2,000 |
| Barium (Ba) | 20 | 5,000 |
| Beryllium (Be) | 1 | 1,000 |
| Bismuth (Bi) | 10 | 1,000 |
| Cadmium (Cd) | 20 (30) | 500 |
| Cobalt (Co) | 5 | 2,000 |
| Chromium (Cr) | 10 | 5,000 |
| Copper (Cu) | 5 | 20,000 |
| Lanthanum (La) | 20 (30) | 1,000 |
| Molybdenum (Mo) | 5 | 2,000 |
| Niobium (Nb) | 20 | 2,000 |
| Nickel (Ni) | 5 | 5,000 |
| Lead (Pb) | 10 | 20,000 |
| Antimony (Sb) | 100 | 10,000 |
| Scandium (Sc) | 5 | 100 |
| Tin (Sn) | 10 | 1,000 |
| Strontium (Sr) | 100 | 5,000 |
| Vanadium (V) | 10 | 10,000 |
| Tungsten (W) | 50 | 10,000 |
| Yttrium (Y) | 10 | 2,000 |
| Zinc (Zn) | 200 | 10,000 |
| Zirconium (Zr) | 10 | 1,000 |
| Thorium (Th) | 100 (200) | 2,000 |

**TABLE 4.--Chemical methods used**

[ICP = inductively coupled plasma source spectrography]

| Element or constituent determined | Sample Type | Method | Determination limit (micrograms/ gram or ppm) | Analysts | Reference |
|---|---|---|---|---|---|
| Arsenic (As) | stream | ICP | 5 | Fey, David, and Briggs, P. H. | Crock and others, 1983, and modification of O'Leary and Viets, 1986. |
| Antimony (Sb) | sediment | ICP | 2 | | |
| Bismuth (Bi) | | ICP | 2 | | |
| Cadmium (Cd) | | ICP | 0.1 | | |
| Zinc (Zn) | | ICP | 2 | | |

Table 3.--Analyses of stream-sediment samples, Honeycombs Wilderness Study Area (OR-005-771), Malheur County, Oregon

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

| Sample | Latitude | Longitude | Fe-pct. s | Mg-pct. s | Ca-pct. s | Ti-pct. s | Mn-ppm s | Ag-ppm s | As-ppm s | Au-ppm s | B-ppm s | Ba-ppm s | Be-ppm s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HC001HS | 43 19 26 | 117 18 13 | 3.0 | .30 | 1.5 | .30 | 700 | <.5 | <700 | <15 | <10 | 1,000 | 2.0 |
| HC002HS | 43 18 57 | 117 17 43 | 2.0 | .20 | .3 | .20 | 500 | <.5 | <700 | <15 | <10 | 1,500 | 2.0 |
| HC003HS | 43 18 21 | 117 17 22 | 2.0 | .20 | .5 | .20 | 700 | <.5 | <700 | <15 | <10 | 1,500 | 3.0 |
| HC004HS | 43 17 53 | 117 15 35 | 3.0 | .70 | 1.5 | .30 | 1,000 | <.5 | <700 | <15 | <10 | 1,500 | 2.0 |
| HC005HS | 43 18 15 | 117 14 29 | 2.0 | .70 | 1.0 | .20 | 1,000 | <.5 | <700 | <15 | <10 | 1,500 | 3.0 |
| HC006HS | 43 20 7 | 117 18 44 | 7.0 | 2.00 | 3.0 | 1.00 | 1,500 | <.5 | <700 | <15 | <10 | 1,500 | 2.0 |
| HC007HS | 43 21 46 | 117 18 6 | 3.0 | .70 | 1.5 | .30 | 700 | <.5 | <700 | <15 | 10 | 1,000 | 2.0 |
| HC008HS | 43 23 6 | 117 18 20 | 3.0 | .70 | 1.0 | .30 | 700 | <.5 | <700 | <15 | <10 | 1,000 | 2.0 |
| HC009HS | 43 29 55 | 117 16 52 | 5.0 | 2.00 | 3.0 | .70 | 1,500 | <.5 | <700 | <15 | <10 | 1,000 | <1.0 |
| HC010HS | 43 29 18 | 117 17 57 | 7.0 | 2.00 | 3.0 | 1.00 | 1,500 | <.5 | <700 | <15 | <10 | 1,000 | 1.0 |
| HC201MS | 43 19 55 | 117 15 13 | 3.0 | .70 | 1.5 | .30 | 1,000 | <.5 | <700 | <15 | 10 | 1,000 | 3.0 |
| HC202MS | 43 19 49 | 117 14 25 | 3.0 | 1.50 | 1.5 | .30 | 700 | <.5 | <700 | <15 | 10 | 1,500 | 3.0 |
| HC203MS | 43 21 55 | 117 16 0 | 3.0 | .70 | 1.5 | .50 | 1,000 | <.5 | <700 | <15 | <10 | 2,000 | 3.0 |
| HC204MS | 43 22 24 | 117 15 25 | 3.0 | 1.50 | 2.0 | .50 | 1,500 | <.5 | <700 | <15 | <10 | 1,500 | 1.5 |
| HC205MS | 43 26 52 | 117 15 13 | 7.0 | 7.00 | 5.0 | .70 | 1,500 | <.5 | <700 | <15 | <10 | 1,000 | 2.0 |
| HC206MS | 43 27 29 | 117 16 19 | 5.0 | 3.00 | 3.0 | 3.00 | 700 | <.5 | <700 | <15 | <10 | 300 | 3.0 |
| HC207MS | 43 27 31 | 117 16 13 | 1.5 | .20 | .3 | .15 | 300 | <.5 | <700 | <15 | <10 | 150 | 7.0 |
| HC208MS | 43 27 30 | 117 16 9 | 7.0 | 3.00 | 3.0 | .70 | 1,000 | <.5 | <700 | <15 | <10 | 700 | 3.0 |
| HC209MS | 43 24 50 | 117 17 45 | 7.0 | 3.00 | 3.0 | 1.50 | 1,500 | <.5 | <700 | <15 | <10 | 700 | 3.0 |
| HC210MS | 43 24 51 | 117 17 58 | 7.0 | 3.00 | 3.0 | .30 | 1,000 | <.5 | <700 | <15 | <10 | 700 | 2.0 |
| HC211MS | 43 24 44 | 117 17 49 | 2.0 | .50 | 1.0 | .30 | 500 | <.5 | <700 | <15 | <10 | 1,000 | 2.0 |
| HC212MS | 43 24 24 | 117 18 42 | 3.0 | .70 | 1.5 | .30 | 1,500 | <.5 | <700 | <15 | <10 | 1,000 | 3.0 |
| HC213MS | 43 29 52 | 117 16 52 | 3.0 | 1.50 | 5.0 | .50 | 1,000 | <.5 | <700 | <15 | <10 | 700 | <1.0 |
| HC214MS | 43 29 36 | 117 17 17 | 3.0 | 1.00 | 2.0 | .50 | 1,000 | <.5 | <700 | <15 | <10 | 700 | 1.5 |
| HC215MS | 43 29 15 | 117 17 55 | 5.0 | 2.00 | 3.0 | .50 | 1,000 | <.5 | <700 | <15 | <10 | 1,000 | 1.0 |
| HC216MS | 43 29 52 | 117 18 12 | 7.0 | 3.00 | 5.0 | 1.00 | 1,500 | <.5 | <700 | <15 | <10 | 700 | <1.0 |
| HC217MS | 43 29 15 | 117 19 45 | 7.0 | 3.00 | 3.0 | 1.00 | 1,000 | <.5 | <700 | <15 | <10 | 500 | <1.0 |
| HC301KS | 43 20 18 | 117 16 13 | 7.0 | .30 | 3.0 | 1.50 | 1,500 | <.5 | <700 | <15 | <10 | 2,000 | 1.5 |
| HC302KS | 43 21 4 | 117 16 33 | 3.0 | .30 | 1.5 | .50 | 500 | <.5 | <700 | <15 | <10 | 1,500 | 2.0 |
| HC303KS | 43 21 52 | 117 16 55 | 3.0 | .70 | 1.5 | .30 | 1,000 | <.5 | <700 | <15 | <10 | 1,000 | 3.0 |
| HC304KS | 43 20 8 | 117 13 55 | 3.0 | 1.50 | 1.5 | .30 | 700 | <.5 | <700 | <15 | 15 | 1,000 | 3.0 |
| HC305KS | 43 20 30 | 117 14 0 | 3.0 | .70 | 1.5 | .30 | 700 | <.5 | <700 | <15 | 10 | 1,000 | 1.5 |
| HC307KS | 43 22 44 | 117 16 25 | 3.0 | 1.50 | 2.0 | .30 | 1,000 | <.5 | <700 | <15 | <10 | 1,500 | 2.0 |
| HC308KS | 43 23 19 | 117 16 45 | 5.0 | 1.50 | 2.0 | .50 | 1,500 | <.5 | <700 | <15 | <10 | 700 | 2.0 |
| HC309KS | 43 24 20 | 117 15 15 | 3.0 | 1.50 | 1.5 | .50 | 1,000 | <.5 | <700 | <15 | <10 | 700 | 1.5 |
| HC319KS | 43 25 55 | 117 19 55 | 7.0 | 3.00 | 3.0 | .70 | 1,500 | <.5 | <700 | <15 | <10 | 1,500 | 2.0 |
| HC310KS | 43 28 59 | 117 16 44 | 7.0 | 3.00 | 3.0 | 1.00 | 1,000 | <.5 | <700 | <15 | 15 | 1,000 | 1.5 |
| HC311KS | 43 28 42 | 117 17 47 | 7.0 | 3.00 | 3.0 | .70 | 1,500 | <.5 | <700 | <15 | 10 | 1,000 | 1.0 |
| HC312KS | 43 28 37 | 117 18 8 | 3.0 | 1.50 | 1.5 | .30 | 700 | <.5 | <700 | <15 | <10 | 300 | 7.0 |
| HC313KS | 43 28 45 | 117 18 38 | 7.0 | 2.00 | 3.0 | .50 | 1,500 | <.5 | <700 | <15 | <10 | 500 | 3.0 |
| HC314KS | 43 28 59 | 117 19 3 | 5.0 | 3.00 | 3.0 | .50 | 1,000 | <.5 | <700 | <15 | <10 | 500 | <1.0 |
| HC315KS | 43 29 3 | 117 19 2 | 7.0 | 5.00 | 3.0 | .70 | 1,500 | <.5 | <700 | <15 | <10 | 1,000 | <1.0 |
| HC316KS | 43 26 7 | 117 17 30 | 7.0 | 5.00 | 5.0 | .70 | 1,000 | <.5 | <700 | <15 | <10 | 500 | 3.0 |
| HC317KS | 43 24 43 | 117 19 32 | 5.0 | 3.00 | 3.0 | 1.00 | 1,000 | <.5 | <700 | <15 | <10 | 700 | 1.0 |
| HC318KS | 43 24 5 | 117 18 15 | 3.0 | .15 | .5 | .30 | 1,500 | <.5 | <700 | <15 | 10 | 1,500 | 2.0 |

Table 5.--Analyses of stream-sediment samples, Honeycombs Wilderness Study Area (OR-005-??A), Malheur County, Oregon--Continued

| Sample | Bi-ppm s | Cd-ppm s | Co-ppm s | Cr-ppm s | Cu-ppm s | La-ppm s | Mo-ppm s | Nb-ppm s | Ni-ppm s | Pb-ppm s | Sb-ppm s | Sc-ppm s | Sn-ppm s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HC001HS | <10 | <30 | 5 | 20 | 15 | 150 | <5 | 30 | 10 | 20 | <100 | 7 | <10 |
| HC002HS | <10 | <30 | <5 | <10 | 5 | 70 | <5 | 30 | <5 | 20 | <100 | <5 | <10 |
| HC003HS | <10 | <30 | <5 | <10 | 7 | 100 | <5 | 30 | <5 | 30 | <100 | <5 | <10 |
| HC004HS | <10 | <30 | 7 | 70 | 20 | 70 | <5 | 20 | 20 | 15 | <100 | 7 | <10 |
| HC005HS | <10 | <30 | 5 | 30 | 10 | 100 | <5 | 30 | 10 | 20 | <100 | 7 | <10 |
| HC006HS | <10 | <30 | 15 | 150 | 20 | 100 | <5 | 70 | 20 | 30 | <100 | 15 | <10 |
| HC007HS | <10 | <30 | 10 | 30 | 20 | 70 | <5 | 20 | 20 | 15 | <100 | 10 | <10 |
| HC008HS | <10 | <30 | 10 | 20 | 20 | 70 | <5 | 30 | 10 | 20 | <100 | 10 | <10 |
| HC009HS | <10 | <30 | 20 | 100 | 50 | 50 | <5 | <20 | 50 | 10 | <100 | 15 | <10 |
| HC010HS | <10 | <30 | 30 | 150 | 70 | 50 | <5 | <20 | 50 | 10 | <100 | 20 | <10 |
| HC201MS | <10 | <30 | 7 | 30 | 30 | 70 | <5 | 20 | 10 | 30 | <100 | 7 | <10 |
| HC202MS | <10 | <30 | 5 | 15 | 15 | 150 | <5 | 20 | 7 | 30 | <100 | 7 | <10 |
| HC203MS | <10 | <30 | 10 | 70 | 15 | 70 | <5 | 30 | 10 | 20 | <100 | 7 | <10 |
| HC204MS | <10 | <30 | 15 | 30 | 50 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| HC205MS | <10 | <30 | 30 | 150 | 150 | 30 | <5 | 20 | 100 | 20 | <100 | 30 | <10 |
| HC206MS | <10 | <30 | 15 | 70 | 70 | 50 | <5 | 30 | 70 | 30 | <100 | 15 | 10 |
| HC207MS | <10 | <30 | <5 | 10 | 7 | 70 | <5 | 50 | 5 | 50 | <100 | <5 | 10 |
| HC208MS | <10 | <30 | 15 | 30 | 30 | 70 | <5 | 30 | 30 | 30 | <100 | 15 | <10 |
| HC209MS | <10 | <30 | 30 | 150 | 70 | 70 | <5 | 20 | 70 | 20 | <100 | 30 | <10 |
| HC210MS | <10 | <30 | 15 | 30 | 70 | 70 | <5 | 20 | 150 | 15 | <100 | 10 | <10 |
| HC211MS | <10 | <30 | 7 | 30 | 20 | 100 | 5 | 30 | 10 | 20 | <100 | 5 | <10 |
| HC212MS | <10 | <30 | 7 | 15 | 20 | 150 | 7 | 30 | 7 | 70 | <100 | 7 | <10 |
| HC213MS | <10 | <30 | 15 | 70 | 50 | 30 | <5 | <20 | 30 | 10 | <100 | 15 | <10 |
| HC214MS | <10 | <30 | 15 | 50 | 30 | 50 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| HC215MS | <10 | <30 | 20 | 70 | 70 | <30 | <5 | <20 | 50 | 10 | <100 | 15 | <10 |
| HC216MS | <10 | <30 | 30 | 300 | 50 | <30 | <5 | <20 | 70 | <10 | <100 | 30 | <10 |
| HC217MS | <10 | <30 | 20 | 70 | 70 | <30 | <5 | <20 | 50 | 10 | <100 | 20 | <10 |
| HC301KS | <10 | <30 | <5 | 15 | 7 | 70 | <5 | 70 | 7 | 20 | <100 | 7 | <10 |
| HC302KS | <10 | <30 | 5 | 50 | 15 | 150 | <5 | 30 | 10 | 20 | <100 | 5 | <10 |
| HC303KS | <10 | <30 | 7 | 30 | 15 | 150 | <5 | 30 | 7 | 50 | <100 | 5 | <10 |
| HC304KS | <10 | <30 | 10 | 30 | 30 | 70 | <5 | 20 | 15 | 20 | <100 | 7 | <10 |
| HC305KS | <10 | <30 | 10 | 50 | 30 | <30 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| HC307KS | <10 | <30 | 10 | 30 | 30 | 70 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| HC308KS | <10 | <30 | 15 | 50 | 30 | 50 | <5 | <20 | 20 | 15 | <100 | 15 | <10 |
| HC309KS | <10 | <30 | 15 | 50 | 30 | 70 | <5 | 30 | 20 | 15 | <100 | 15 | <10 |
| HC319KS | <10 | <30 | 30 | 100 | 70 | 30 | <5 | <20 | 70 | 20 | <100 | 30 | <10 |
| HC310KS | <10 | <30 | 20 | 70 | 50 | 150 | <5 | <20 | 50 | <10 | <100 | 30 | <10 |
| HC311KS | <10 | <30 | 20 | 100 | 70 | <30 | <5 | <20 | 50 | 15 | <100 | 20 | <10 |
| HC312KS | <10 | <30 | 10 | 50 | 30 | 100 | <5 | 50 | 30 | 50 | <100 | 10 | 10 |
| HC313KS | <10 | <30 | 15 | 50 | 50 | 50 | <5 | 30 | 30 | 30 | <100 | 15 | <10 |
| HC314KS | <10 | <30 | 30 | 70 | 70 | <30 | <5 | <20 | 70 | 10 | <100 | 15 | <10 |
| HC315KS | <10 | <30 | 20 | 100 | 70 | <30 | <5 | <20 | 70 | <10 | <100 | 20 | <10 |
| HC316KS | <10 | <30 | 30 | 150 | 70 | 70 | <5 | 20 | 70 | 20 | <100 | 30 | <10 |
| HC317KS | <10 | <30 | 15 | 100 | 50 | 70 | <5 | <20 | 50 | 10 | <100 | 20 | <10 |
| HC318KS | <10 | <30 | <5 | <10 | 7 | 150 | 5 | 30 | 5 | 30 | <100 | <5 | <10 |

Table 5.--Analyses of stream-sediment samples, Honeycombs Wilderness Study Area (OR-005-77A), Malheur County, Oregon--Continued

| Sample | Sr-ppm s | V-ppm s | W-ppm s | Y-ppm s | Zn-ppm s | Zr-ppm s | Th-ppm s | As-ppm icp | Zn-ppm icp | Cd-ppm icp | Bi-ppm icp | Sb-ppm icp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HC001HS | 200 | 50 | <50 | 70 | <200 | 500 | <200 | <5 | 93 | .2 | <2 | <2 |
| HC002HS | <100 | 10 | <50 | 100 | <200 | 500 | <200 | <5 | 112 | .3 | <2 | <2 |
| HC003HS | <100 | 15 | <50 | 70 | <200 | 1,000 | <200 | <5 | 133 | .3 | <2 | <2 |
| HC004HS | 200 | 70 | <50 | 100 | <200 | 300 | <200 | <5 | 94 | .3 | <2 | <2 |
| HC005HS | 150 | 30 | <50 | 100 | <200 | 500 | <200 | <5 | 100 | .3 | <2 | <2 |
| HC006HS | 300 | 150 | <50 | 70 | <200 | 2,000 | <200 | <5 | 131 | .4 | <2 | <2 |
| HC007HS | 300 | 70 | <50 | 50 | <200 | 300 | <200 | <5 | 73 | .3 | <2 | <2 |
| HC008HS | 200 | 70 | <50 | 70 | <200 | 300 | <200 | 8 | 113 | .5 | <2 | <2 |
| HC009HS | 500 | 200 | <50 | 20 | <200 | 150 | <200 | <5 | 60 | .4 | <2 | <2 |
| HC010HS | 700 | 300 | <50 | 30 | <200 | 200 | <200 | <5 | 64 | .5 | <2 | <2 |
| HC201MS | 200 | 70 | <50 | 70 | <200 | 500 | <200 | 7 | 111 | .5 | <2 | <2 |
| HC202MS | 300 | 30 | <50 | 70 | <200 | 500 | <200 | 5 | 116 | .4 | <2 | <2 |
| HC203MS | 300 | 70 | <50 | 70 | <200 | 1,000 | <200 | 9 | 96 | .3 | <2 | <2 |
| HC204MS | 300 | 70 | <50 | 70 | <200 | 2,000 | <200 | 16 | 95 | .5 | <2 | <2 |
| HC205MS | 700 | 300 | <50 | 70 | <200 | 300 | <200 | <5 | 112 | .7 | <2 | <2 |
| HC206MS | 300 | 150 | <50 | 150 | <200 | 700 | <200 | <5 | 166 | .6 | <2 | <2 |
| HC207MS | <100 | 15 | <50 | 100 | 300 | 1,000 | <200 | <5 | 161 | .3 | <2 | <2 |
| HC208MS | 300 | 150 | <50 | 150 | <200 | 1,000 | <200 | 8 | 157 | .7 | <2 | <2 |
| HC209MS | 300 | 300 | <50 | 70 | <200 | 300 | <200 | 65 | 127 | .7 | <2 | <2 |
| HC210MS | 300 | 70 | <50 | 70 | <200 | 300 | <200 | 19 | 83 | .6 | <2 | <2 |
| HC211MS | 150 | 50 | <50 | 70 | <200 | 700 | <200 | 13 | 77 | .2 | <2 | <2 |
| HC212MS | 150 | 30 | <50 | 70 | <200 | 1,000 | <200 | 120 | 118 | .7 | <2 | <2 |
| HC213MS | 500 | 150 | <50 | 20 | <200 | 200 | <200 | <5 | 55 | .5 | <2 | <2 |
| HC214MS | 300 | 150 | <50 | 30 | <200 | 200 | <200 | 10 | 58 | .4 | <2 | <2 |
| HC215MS | 500 | 15 | <50 | 20 | <200 | 150 | <200 | 7 | 55 | .5 | <2 | <2 |
| HC216MS | 700 | 500 | <50 | 20 | <200 | 150 | <200 | <5 | 79 | .5 | <2 | <2 |
| HC217MS | 500 | 150 | <50 | 20 | <200 | 150 | <200 | <5 | 69 | .6 | <2 | <2 |
| HC301KS | 150 | 30 | <50 | 100 | <200 | 2,000 | <200 | <5 | 110 | .5 | <2 | <2 |
| HC302KS | 300 | 100 | <50 | 70 | <200 | 1,500 | <200 | 6 | 76 | .2 | <2 | <2 |
| HC303KS | 150 | 30 | <50 | 70 | <200 | 1,500 | <200 | 11 | 120 | .3 | <2 | <2 |
| HC304KS | 300 | 70 | <50 | 50 | <200 | 500 | <200 | <5 | 65 | .4 | <2 | <2 |
| HC305KS | 300 | 100 | <50 | 50 | <200 | 300 | <200 | <5 | 64 | .2 | <2 | <2 |
| HC307KS | 500 | 70 | <50 | 50 | <200 | 300 | <200 | 9 | 69 | .4 | <2 | <2 |
| HC308KS | 300 | 150 | <50 | 70 | <200 | 300 | <200 | 10 | 93 | .5 | <2 | <2 |
| HC309KS | 300 | 70 | <50 | 50 | <200 | 500 | <200 | 11 | 93 | .5 | <2 | <2 |
| HC319KS | 300 | 200 | <50 | 30 | <200 | 300 | <200 | 11 | 81 | .7 | <2 | <2 |
| HC310KS | 500 | 200 | <50 | 50 | <200 | 300 | <200 | 7 | 71 | .6 | <2 | <2 |
| HC311KS | 500 | 150 | <50 | 20 | <200 | 150 | <200 | 8 | 72 | .6 | <2 | <2 |
| HC312KS | 200 | 100 | <50 | 200 | 300 | 1,000 | <200 | <5 | 231 | .5 | <2 | <2 |
| HC313KS | 300 | 150 | <50 | 100 | <200 | 700 | <200 | 8 | 152 | .6 | <2 | <2 |
| HC314KS | 500 | 150 | <50 | 30 | <200 | 150 | <200 | <5 | 73 | .7 | <2 | <2 |
| HC315KS | 700 | 300 | <50 | 30 | <200 | 200 | <200 | <5 | 69 | .7 | <2 | <2 |
| HC316KS | 500 | 300 | <50 | 70 | <200 | 200 | <200 | 8 | 131 | 1.0 | <2 | <2 |
| HC317KS | 500 | 150 | <50 | 20 | <200 | 150 | <200 | <5 | 62 | .6 | <2 | <2 |
| HC318KS | 100 | 15 | <50 | 150 | <200 | 1,500 | <200 | 56 | 160 | .6 | <2 | <2 |

Table 5.--Analyses of stream-sediment samples, Honeycombs Wilderness Study Area (OR-005-771), Malheur County, Oregon--Continued

| Sample | Latitude | Longitude | Fe-pct. s | Mg-pct. s | Ca-pct. s | Ti-pct. s | Mn-ppm s | Ag-ppm s | As-ppm s | Au-ppm s | B-ppm s | Ba-ppm s | Be-ppm s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HC320KS | 43 27 23 | 117 20 3 | 5.0 | 2.00 | 2.0 | .50 | 1,500 | <.5 | <700 | <15 | <10 | 700 | <1.0 |
| HC321KS | 43 27 13 | 117 18 30 | 3.0 | .70 | 1.0 | .30 | 300 | <.5 | <700 | <15 | 10 | 300 | 7.0 |
| HC322KS | 43 31 29 | 117 19 15 | 3.0 | 1.50 | 7.0 | .30 | 700 | <.5 | <700 | <15 | <10 | 700 | <1.0 |
| HC323KS | 43 30 28 | 117 18 41 | 5.0 | 2.00 | 3.0 | .50 | 1,000 | <.5 | <700 | <15 | <10 | 500 | <1.0 |
| HC401PS | 43 28 56 | 117 16 5 | 7.0 | 3.00 | 3.0 | .70 | 1,500 | <.5 | <700 | <15 | 15 | 1,000 | <1.0 |
| HC402PS | 43 28 28 | 117 17 18 | 5.0 | 2.00 | 3.0 | .50 | 1,000 | <.5 | <700 | <15 | <10 | 500 | 1.0 |
| HC403PS | 43 25 37 | 117 18 45 | 3.0 | 1.50 | 1.5 | .30 | 700 | <.5 | <700 | <15 | 10 | 300 | 7.0 |
| HC404PS | 43 25 36 | 117 19 20 | 7.0 | 3.00 | 3.0 | >1.00 | 1,500 | <.5 | <700 | <15 | <10 | 500 | <1.0 |

Table 5.--Analyses of stream-sediment samples, Honeycombs Wilderness Study Area (OR-005-??A), Malheur County, Oregon--Continued

| Sample | Bi-ppm | Cd-ppm | Co-ppm | Cr-ppm | Cu-ppm | La-ppm | Mo-ppm | Nb-ppm | Ni-ppm | Pb-ppm | Sb-ppm | Sc-ppm | Sn-ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
| HC320KS | <10 | <30 | 20 | 70 | 70 | <30 | <5 | <20 | 50 | 10 | <100 | 20 | <10 |
| HC321KS | <10 | <30 | <5 | 15 | 15 | 150 | <5 | 70 | 7 | 70 | <100 | <5 | 15 |
| HC322KS | <10 | <30 | 15 | 70 | 30 | <30 | <5 | <20 | 30 | <10 | <100 | 15 | <10 |
| HC323KS | <10 | <30 | 15 | 50 | 70 | <30 | <5 | <20 | 30 | 10 | <100 | 20 | <10 |
| HC401PS | <10 | <30 | 20 | 150 | 70 | 50 | <5 | <20 | 50 | 15 | <100 | 30 | <10 |
| HC402PS | <10 | <30 | 15 | 50 | 70 | <30 | <5 | <20 | 30 | 10 | <100 | 20 | <10 |
| HC403PS | <10 | <30 | 7 | 20 | 30 | 150 | <5 | 70 | 15 | 50 | <100 | 7 | 15 |
| HC404PS | <10 | <30 | 30 | 200 | 50 | <30 | <5 | 20 | 70 | <10 | <100 | 30 | <10 |

Table 5.--Analyses of stream-sediment samples, Honeycombs Wilderness Study Area (OR-005-771), Malheur County, Oregon--Continued

| Sample | Sr-ppm s | V-ppm s | W-ppm s | Y-ppm s | Zn-ppm s | Zr-ppm s | Th-ppm s | As-ppm icp | Zn-ppm icp | Cd-ppm icp | Bi-ppm icp | Sb-ppm icp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HC320KS | 300 | 150 | <50 | 20 | <200 | 100 | <200 | <5 | 76 | .7 | <2 | <2 |
| HC321KS | 150 | 30 | <50 | 300 | <200 | 1,000 | <200 | 6 | 163 | .4 | <2 | <2 |
| HC322KS | 300 | 150 | <50 | 15 | <200 | 100 | <200 | 8 | 52 | .6 | <2 | <2 |
| HC323KS | 300 | 150 | <50 | 20 | <200 | 150 | <200 | <5 | 71 | .6 | <2 | <2 |
| HC401PS | 700 | 300 | <50 | 30 | <200 | 200 | <200 | 9 | 65 | .6 | <2 | <2 |
| HC402PS | 300 | 150 | <50 | 20 | <200 | 150 | <200 | 12 | 66 | .6 | <2 | 3 |
| HC403PS | 150 | 70 | <50 | 150 | 300 | 1,000 | <200 | 12 | 327 | .6 | <2 | <2 |
| HC404PS | 500 | 500 | <50 | 50 | <200 | 150 | <200 | <5 | 102 | .6 | <2 | 2 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon Wilderness Study Area (OR-003-095), Malheur County, Oregon

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

| Sample | Latitude | Longitude | Fe-pct. s | Mg-pct. s | Ca-pct. s | Ti-pct. s | Mn-ppm s | Ag-ppm s | As-ppm s | Au-ppm s | B-ppm s | Ba-ppm s | Be-ppm s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC001S | 42 32 48 | 117 10 5 | 3.0 | 2.0 | 2.0 | 1.5 | 1,500 | <.5 | <700 | <15 | 20 | 1,500 | 1.5 |
| OC002S | 42 32 39 | 117 9 21 | 5.0 | 3.0 | 3.0 | 1.5 | 700 | <.5 | <700 | <15 | <20 | 1,500 | 1.0 |
| OC024S | 42 20 43 | 117 3 20 | 3.0 | 2.0 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC025S | 42 22 32 | 117 4 21 | 3.0 | 1.5 | 1.5 | .5 | 300 | <.5 | <700 | <15 | 30 | 700 | 1.5 |
| OC026S | 42 22 56 | 117 5 51 | 3.0 | 1.5 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 30 | 1,000 | 2.0 |
| OC027S | 42 23 31 | 117 6 42 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC028S | 42 24 6 | 117 6 56 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 1,500 | 1.5 |
| OC029S | 42 24 31 | 117 8 11 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC030S | 42 26 24 | 117 11 29 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 1,000 | 1.0 |
| OC031S | 42 26 25 | 117 11 40 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC032S | 42 27 0 | 117 12 59 | 2.0 | .7 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC033S | 42 27 52 | 117 12 46 | 2.0 | .7 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC034S | 42 28 7 | 117 13 8 | 3.0 | 1.0 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC035S | 42 28 8 | 117 13 15 | 3.0 | 1.0 | 1.5 | .5 | 500 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC036S | 42 28 21 | 117 13 21 | 3.0 | 1.5 | 1.5 | .7 | 300 | <.5 | <700 | <15 | <10 | 700 | 1.5 |
| OC037S | 42 29 31 | 117 13 33 | 3.0 | 1.5 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 15 | 1,000 | 1.5 |
| OC038S | 42 30 2 | 117 13 28 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC039S | 42 30 18 | 117 12 18 | 2.0 | .7 | 1.5 | .3 | 300 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC039SB | 42 30 18 | 117 12 18 | 1.5 | .7 | 1.5 | .3 | 300 | <.5 | <700 | <15 | 15 | 1,000 | 1.5 |
| OC040S | 42 30 20 | 117 12 20 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 700 | 2.0 |
| OC041S | 42 31 6 | 117 12 3 | 2.0 | 1.0 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 700 | 2.0 |
| OC042S | 42 31 49 | 117 11 4 | 3.0 | 1.0 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC043S | 42 32 4 | 117 10 16 | 2.0 | .7 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 15 | 1,000 | 1.5 |
| OC044S | 42 32 58 | 117 10 41 | 2.0 | .7 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC045S | 42 33 46 | 117 11 3 | 1.5 | 1.0 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 1,000 | 1.5 |
| OC046S | 42 34 47 | 117 11 8 | 3.0 | 1.5 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 10 | 500 | 1.5 |
| OC047S | 42 35 9 | 117 11 26 | 3.0 | 3.0 | 3.0 | .7 | 700 | <.5 | <700 | <15 | <10 | 300 | 1.0 |
| OC048S | 42 35 35 | 117 12 5 | 3.0 | 2.0 | 2.0 | .3 | 700 | <.5 | <700 | <15 | 10 | 300 | 1.5 |
| OC049S | 42 36 11 | 117 13 10 | 2.0 | 1.0 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC050S | 42 36 45 | 117 13 54 | 1.5 | 1.0 | 1.5 | .2 | 700 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC051S | 42 38 21 | 117 14 22 | 3.0 | 1.5 | 2.0 | .5 | 700 | <.5 | <700 | <15 | 10 | 500 | 1.5 |
| OC052S | 42 38 55 | 117 14 41 | 5.0 | 1.5 | 2.0 | .5 | 700 | <.5 | <700 | <15 | <10 | 500 | 1.0 |
| OC053S | 42 39 17 | 117 15 48 | 2.0 | .7 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 15 | 700 | 1.0 |
| OC054S | 42 41 28 | 117 16 49 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 500 | 1.0 |
| OC055S | 42 43 6 | 117 19 0 | 2.0 | 1.0 | 1.0 | .3 | 300 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC056S | 42 43 9 | 117 19 28 | 3.0 | .7 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC057S | 42 43 31 | 117 19 56 | 3.0 | 1.5 | 1.5 | .2 | 700 | <.5 | <700 | <15 | 15 | 300 | 1.0 |
| OC058S | 42 43 40 | 117 20 43 | 2.0 | .7 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 500 | 1.5 |
| OC059S | 42 44 20 | 117 21 22 | 3.0 | 1.5 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC060S | 42 44 42 | 117 21 11 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC061S | 42 44 50 | 117 22 7 | 2.0 | .7 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC062S | 42 44 55 | 117 23 26 | 3.0 | 1.0 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC063S | 42 44 45 | 117 24 11 | 3.0 | 1.5 | 2.0 | .3 | 700 | <.5 | <700 | <15 | 15 | 500 | 1.5 |
| OC064S | 42 45 44 | 117 27 58 | 3.0 | 2.0 | 3.0 | .5 | 1,000 | <.5 | <700 | <15 | 10 | 500 | 1.5 |
| OC065S | 42 46 28 | 117 29 4 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 500 | 1.0 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon wilderness study area (OR-003-095), Malheur County, Oregon--Continued

| Sample | Bi-ppm s | Cd-ppm s | Co-ppm s | Cr-ppm s | Cu-ppm s | La-ppm s | Mo-ppm s | Nb-ppm s | Ni-ppm s | Pb-ppm s | Sb-ppm s | Sc-ppm s | Sn-ppm s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC001S | <10 | <30 | 15 | 100 | 30 | 70 | <5 | 30 | 30 | 30 | <100 | 15 | <10 |
| OC002S | <10 | <30 | 20 | 200 | 30 | 30 | <5 | 30 | 70 | 20 | <100 | 30 | <10 |
| OC024S | <10 | <30 | 15 | 150 | 70 | 50 | <5 | <20 | 50 | 20 | <100 | 15 | 50 |
| OC025S | <10 | <30 | 10 | 70 | 70 | 70 | <5 | <20 | 30 | 15 | <100 | 15 | 30 |
| OC026S | <10 | <30 | 15 | 100 | 70 | 70 | <5 | <20 | 50 | 15 | <100 | 20 | 30 |
| OC027S | <10 | <30 | 15 | 100 | 50 | 70 | <5 | 20 | 30 | 15 | <100 | 15 | 50 |
| OC028S | <10 | <30 | 15 | 100 | 30 | 70 | <5 | 20 | 30 | 20 | <100 | 15 | 50 |
| OC029S | <10 | <30 | 15 | 150 | 30 | 50 | <5 | <20 | 30 | 20 | <100 | 15 | 30 |
| OC030S | <10 | <30 | 15 | 150 | 50 | 30 | <5 | <20 | 30 | 20 | <100 | 10 | <10 |
| OC031S | <10 | <30 | 15 | 100 | 30 | 70 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC032S | <10 | <30 | 7 | 70 | 20 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC033S | <10 | <30 | 7 | 30 | 50 | 50 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC034S | <10 | <30 | 10 | 30 | 30 | 50 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC035S | <10 | <30 | 10 | 30 | 50 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC036S | <10 | <30 | 10 | 150 | 15 | 70 | <5 | 20 | 15 | 15 | <100 | 15 | <10 |
| OC037S | <10 | <30 | 10 | 30 | 30 | 50 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC038S | <10 | <30 | 10 | 70 | 30 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC039S | <10 | <30 | 7 | 70 | 7 | 70 | <5 | 20 | 7 | 20 | <100 | 7 | <10 |
| OC039SB | <10 | <30 | 7 | 50 | 7 | 70 | <5 | <20 | 7 | 15 | <100 | 7 | <10 |
| OC040S | <10 | <30 | 7 | 30 | 20 | 70 | <5 | <20 | 10 | 20 | <100 | 7 | <10 |
| OC041S | <10 | <30 | 10 | 70 | 20 | 30 | <5 | <20 | 10 | 15 | <100 | 7 | <10 |
| OC042S | <10 | <30 | 10 | 150 | 15 | 50 | <5 | 20 | 7 | 20 | <100 | 7 | <10 |
| OC043S | <10 | <30 | 7 | 30 | 10 | 70 | <5 | <20 | 7 | 15 | <100 | 7 | <10 |
| OC044S | <10 | <30 | 7 | 30 | 30 | 70 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC045S | <10 | <30 | 7 | 70 | 30 | 50 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC046S | <10 | <30 | 15 | 150 | 20 | 30 | <5 | <20 | 30 | 15 | <100 | 10 | <10 |
| OC047S | <10 | <30 | 20 | 150 | 20 | 30 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC048S | <10 | <30 | 15 | 150 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 10 | <10 |
| OC049S | <10 | <30 | 10 | 30 | 30 | 30 | <5 | <20 | 10 | 15 | <100 | 7 | <10 |
| OC050S | <10 | <30 | 10 | 70 | 20 | 30 | <5 | <20 | 15 | 20 | <100 | 7 | <10 |
| OC051S | <10 | <30 | 15 | 150 | 30 | 30 | <5 | <20 | 70 | 15 | <100 | 20 | <10 |
| OC052S | <10 | <30 | 15 | 200 | 30 | <30 | <5 | <20 | 70 | 15 | <100 | 15 | <10 |
| OC053S | <10 | <30 | 7 | 70 | 30 | 70 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC054S | <10 | <30 | 15 | 150 | 30 | <30 | <5 | <20 | 50 | 15 | <100 | 10 | <10 |
| OC055S | <10 | <30 | 7 | 20 | 15 | 30 | <5 | 20 | 7 | 20 | <100 | 7 | <10 |
| OC056S | <10 | <30 | 15 | 150 | 20 | 50 | <5 | <20 | 15 | 15 | <100 | 10 | <10 |
| OC057S | <10 | <30 | 15 | 50 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 7 | <10 |
| OC058S | <10 | <30 | 15 | 50 | 30 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC059S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC060S | <10 | <30 | 15 | 50 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 10 | <10 |
| OC061S | <10 | <30 | 10 | 70 | 30 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC062S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC063S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC064S | <10 | <30 | 15 | 100 | 30 | <30 | <5 | <20 | 50 | 15 | <100 | 15 | <10 |
| OC065S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon wilderness study area (OR-003-095), Malheur County, Oregon--Continued

| Sample | Sr-ppm s | V-ppm s | W-ppm s | Y-ppm s | Zn-ppm s | Zr-ppm s | Th-ppm s | As-ppm icp | Zn-ppm icp | Cd-ppm icp | Bi-ppm icp | Sb-ppm icp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC001S | 700 | 150 | <50 | 100 | <200 | 1,500 | <200 | <5 | 68 | .5 | <2 | <2 |
| OC002S | 700 | 300 | <50 | 70 | <200 | 3,000 | <200 | <5 | 68 | .7 | <2 | <2 |
| OC024S | 300 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 65 | .7 | <2 | <2 |
| OC025S | 300 | 100 | <50 | 30 | <200 | 300 | <200 | <5 | 62 | .5 | <2 | <2 |
| OC026S | 300 | 150 | <50 | 50 | <200 | 300 | <200 | <5 | 60 | .4 | <2 | <2 |
| OC027S | 500 | 150 | <50 | 30 | <200 | 300 | <200 | 6 | 55 | .4 | <2 | <2 |
| OC028S | 300 | 150 | <50 | 50 | <200 | 500 | <200 | <5 | 48 | .3 | <2 | <2 |
| OC029S | 500 | 100 | <50 | 50 | <200 | 150 | <200 | 5 | 48 | .4 | <2 | <2 |
| OC030S | 700 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 46 | .3 | <2 | <2 |
| OC031S | 300 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 52 | .4 | <2 | <2 |
| OC032S | 300 | 70 | <50 | 20 | <200 | 300 | <200 | <5 | 49 | .3 | <2 | <2 |
| OC033S | 300 | 70 | <50 | 20 | <200 | 200 | <200 | <5 | 56 | .3 | <2 | <2 |
| OC034S | 500 | 100 | <50 | 20 | <200 | 300 | <200 | <5 | 68 | .3 | <2 | <2 |
| OC035S | 300 | 100 | <50 | 20 | <200 | 200 | <200 | <5 | 57 | .4 | <2 | <2 |
| OC036S | 300 | 150 | <50 | 20 | <200 | 200 | <200 | <5 | 36 | .1 | <2 | <2 |
| OC037S | 300 | 100 | <50 | 30 | <200 | 200 | <200 | <5 | 50 | .3 | <2 | <2 |
| OC038S | 300 | 100 | <50 | 20 | <200 | 200 | <200 | 7 | 54 | .4 | <2 | <2 |
| OC039S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | 6 | 40 | .2 | <2 | <2 |
| OC039SB | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 42 | .3 | <2 | <2 |
| OC040S | 300 | 70 | <50 | 30 | <200 | 150 | <200 | 7 | 62 | .4 | <2 | <2 |
| OC041S | 300 | 70 | <50 | 15 | <200 | 200 | <200 | <5 | 60 | .4 | <2 | <2 |
| OC042S | 300 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 85 | .3 | <2 | <2 |
| OC043S | 300 | 70 | <50 | 20 | <200 | 300 | <200 | <5 | 42 | .2 | <2 | <2 |
| OC044S | 300 | 70 | <50 | 30 | <200 | 200 | <200 | 5 | 66 | .5 | <2 | <2 |
| OC045S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 57 | .4 | <2 | <2 |
| OC046S | 300 | 150 | <50 | 15 | <200 | 300 | <200 | <5 | 55 | .4 | <2 | <2 |
| OC047S | 300 | 150 | <50 | 15 | <200 | 70 | <200 | <5 | 63 | .6 | <2 | <2 |
| OC048S | 300 | 150 | <50 | 15 | <200 | 150 | <200 | <5 | 53 | .4 | <2 | <2 |
| OC049S | 300 | 70 | <50 | 15 | <200 | 200 | <200 | <5 | 47 | .3 | <2 | <2 |
| OC050S | 300 | 70 | <50 | 15 | <200 | 150 | <200 | <5 | 50 | .3 | 2 | <2 |
| OC051S | 300 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 66 | .6 | <2 | <2 |
| OC052S | 200 | 150 | <50 | 20 | <200 | 70 | <200 | <5 | 84 | <.1 | <2 | <2 |
| OC053S | 300 | 70 | <50 | 30 | <200 | 70 | <200 | <5 | 69 | .5 | <2 | <2 |
| OC054S | 150 | 70 | <50 | 15 | <200 | 70 | <200 | <5 | 85 | 1.0 | <2 | <2 |
| OC055S | 200 | 30 | <50 | 30 | <200 | 300 | <200 | <5 | 42 | .4 | <2 | <2 |
| OC056S | 300 | 100 | <50 | 30 | <200 | 300 | <200 | <5 | 60 | .5 | <2 | <2 |
| OC057S | 150 | 50 | <50 | 15 | <200 | 70 | <200 | <5 | 73 | 1.0 | <2 | <2 |
| OC058S | 300 | 70 | <50 | 30 | <200 | 150 | <200 | <5 | 65 | .6 | <2 | <2 |
| OC059S | 300 | 150 | <50 | 30 | <200 | 100 | <200 | <5 | 65 | .6 | <2 | <2 |
| OC060S | 300 | 150 | <50 | 20 | <200 | 100 | <200 | <5 | 61 | .5 | <2 | <2 |
| OC061S | 300 | 150 | <50 | 20 | <200 | 200 | <200 | <5 | 50 | .4 | <2 | <2 |
| OC062S | 300 | 150 | <50 | 30 | <200 | 100 | <200 | <5 | 69 | .7 | <2 | <2 |
| OC063S | 200 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 68 | .9 | <2 | <2 |
| OC064S | 300 | 150 | <50 | 15 | <200 | 100 | <200 | <5 | 73 | .8 | <2 | <2 |
| OC065S | 300 | 150 | <50 | 20 | <200 | 150 | <200 | <5 | 71 | .8 | <2 | <2 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon wilderness study area (OR-003-095), Malheur County, Oregon--Continued

| Sample | Latitude | Longitude | Fe-pct. s | Mg-pct. s | Ca-pct. s | Ti-pct. s | Mn-ppm s | Ag-ppm s | As-ppm s | Au-ppm s | B-ppm s | Ba-ppm s | Be-ppm s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC066S | 42 46 59 | 117 30 15 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC067S | 42 47 4 | 117 32 28 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC068S | 42 47 24 | 117 33 36 | 1.5 | .7 | 1.5 | .3 | 300 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC069S | 42 47 38 | 117 34 28 | 3.0 | .7 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 500 | 1.5 |
| OC070S | 42 47 27 | 117 35 17 | 2.0 | .7 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 15 | 500 | 1.5 |
| OC071S | 42 47 28 | 117 35 27 | 2.0 | .7 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC201S | 42 47 8 | 117 29 22 | 3.0 | 1.5 | 2.0 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | <1.0 |
| OC202S | 42 47 9 | 117 28 1 | 5.0 | 1.5 | 2.0 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | <1.0 |
| OC203S | 42 45 57 | 117 21 38 | 5.0 | 1.5 | 3.0 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC204S | 42 39 42 | 117 13 59 | 5.0 | 1.5 | 3.0 | .7 | 700 | <.5 | <700 | <15 | 10 | 700 | <1.0 |
| OC205S | 42 39 28 | 117 13 47 | 5.0 | 1.5 | 2.0 | .7 | 700 | <.5 | <700 | <15 | 30 | 700 | 1.0 |
| OC206S | 42 40 18 | 117 15 15 | 3.0 | 1.5 | 3.0 | .3 | 700 | <.5 | <700 | <15 | 20 | 700 | 1.0 |
| OC207S | 42 46 58 | 117 34 52 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 20 | 700 | 1.0 |
| OC208S | 42 46 28 | 117 31 52 | 5.0 | 1.5 | 2.0 | 1.0 | 700 | <.5 | <700 | <15 | 10 | 700 | 1.0 |
| OC209S | 42 45 51 | 117 30 45 | 5.0 | 1.5 | 2.0 | .7 | 700 | <.5 | <700 | <15 | 20 | 700 | 1.5 |
| OC210S | 42 45 25 | 117 28 48 | 3.0 | 1.5 | 2.0 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC211S | 42 44 35 | 117 24 49 | 3.0 | 1.5 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.0 |
| OC212S | 42 44 10 | 117 22 58 | 3.0 | 1.5 | 2.0 | .7 | 700 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC213S | 42 42 55 | 117 21 23 | 3.0 | 1.5 | 1.5 | .5 | 300 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC214S | 42 42 48 | 117 19 34 | 3.0 | 1.5 | 2.0 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC215S | 42 42 24 | 117 19 37 | 3.0 | 1.5 | 1.5 | .5 | 300 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC216S | 42 41 33 | 117 19 27 | 3.0 | 1.5 | 1.5 | .3 | 300 | <.5 | <700 | <15 | 20 | 700 | 1.5 |
| OC217S | 42 41 10 | 117 18 34 | 3.0 | 1.0 | 1.5 | .7 | 300 | <.5 | <700 | <15 | 20 | 700 | 1.5 |
| OC218S | 42 40 42 | 117 18 10 | 3.0 | 1.5 | 2.0 | .7 | 300 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC219S | 42 39 55 | 117 17 28 | 3.0 | 1.0 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC220S | 42 39 4 | 117 17 23 | 3.0 | 1.0 | 1.5 | .7 | 300 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC221S | 42 38 17 | 117 15 52 | 3.0 | 1.5 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC222S | 42 37 48 | 117 17 1 | 3.0 | 1.0 | 1.5 | .7 | 300 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC223S | 42 37 4 | 117 16 26 | 3.0 | 1.0 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC224S | 42 36 51 | 117 15 56 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC225S | 42 36 24 | 117 15 15 | 3.0 | 1.5 | 1.5 | .3 | 300 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC226S | 42 35 36 | 117 15 15 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 20 | 700 | 1.5 |
| OC227S | 42 34 17 | 117 14 24 | 2.0 | .7 | 1.5 | .3 | 300 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC228S | 42 33 55 | 117 11 55 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC229S | 42 34 17 | 117 12 20 | 2.0 | .7 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC230S | 42 34 22 | 117 12 56 | 3.0 | 1.5 | 1.5 | .3 | 300 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC231S | 42 34 28 | 117 12 38 | 2.0 | .7 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC232S | 42 34 57 | 117 13 30 | 3.0 | 1.0 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC233S | 42 34 19 | 117 12 50 | 2.0 | .7 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 15 | 500 | 1.5 |
| OC234S | 42 36 5 | 117 11 52 | 3.0 | 1.0 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 20 | 700 | 1.5 |
| OC235S | 42 34 38 | 117 10 18 | 3.0 | 1.5 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 20 | 700 | 1.5 |
| OC236S | 42 33 48 | 117 13 48 | 1.5 | .7 | 1.5 | .5 | 300 | <.5 | <700 | <15 | 20 | 700 | 1.5 |
| OC238S | 42 32 4 | 117 12 12 | 1.5 | 1.5 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 15 | 300 | 1.5 |
| OC239S | 42 30 32 | 117 15 13 | 3.0 | 1.0 | 1.5 | .5 | 500 | <.5 | <700 | <15 | 30 | 700 | 3.0 |
| OC240S | 42 30 51 | 117 15 30 | 3.0 | 1.5 | 1.5 | .5 | 1,500 | <.5 | <700 | <15 | 30 | 700 | 1.5 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon Wilderness Study Area (OR-003-095), Malheur County, Oregon--Continued

| Sample | Bi-ppm s | Cd-ppm s | Co-ppm s | Cr-ppm s | Cu-ppm s | La-ppm s | Mo-ppm s | Nb-ppm s | Ni-ppm s | Pb-ppm s | Sb-ppm s | Sc-ppm s | Sn-ppm s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC066S | <10 | <30 | 15 | 100 | 30 | 50 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC067S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC068S | <10 | <30 | 7 | 70 | 15 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC069S | <10 | <30 | 10 | 70 | 15 | 30 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| OC070S | <10 | <30 | 10 | 50 | 15 | 30 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| OC071S | <10 | <30 | 7 | 100 | 15 | 30 | <5 | <20 | 15 | 15 | <100 | 10 | <10 |
| OC201S | <10 | <30 | 15 | 70 | 50 | 30 | <5 | <20 | 20 | 15 | <100 | 15 | <10 |
| OC202S | <10 | <30 | 20 | 150 | 70 | 70 | <5 | 20 | 30 | 15 | <100 | 20 | <10 |
| OC203S | <10 | <30 | 15 | 150 | 70 | 70 | <5 | 20 | 30 | 20 | <100 | 15 | <10 |
| OC204S | <10 | <30 | 15 | 200 | 70 | 30 | <5 | 20 | 30 | 15 | <100 | 15 | <10 |
| OC205S | <10 | <30 | 20 | 150 | 70 | 30 | <5 | 20 | 70 | 30 | <100 | 15 | <10 |
| OC206S | <10 | <30 | 15 | 70 | 50 | 30 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC207S | <10 | <30 | 15 | 70 | 50 | 30 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC208S | <10 | <30 | 15 | 200 | 70 | 70 | <5 | 20 | 30 | 15 | <100 | 30 | <10 |
| OC209S | <10 | <30 | 15 | 150 | 70 | 70 | <5 | <20 | 30 | 20 | <100 | 20 | <10 |
| OC210S | <10 | <30 | 15 | 100 | 50 | <30 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC211S | <10 | <30 | 15 | 150 | 70 | 30 | <5 | 20 | 30 | 15 | <100 | 15 | <10 |
| OC212S | <10 | <30 | 15 | 70 | 50 | 70 | <5 | 30 | 30 | 30 | <100 | 15 | <10 |
| OC213S | <10 | <30 | 15 | 70 | 50 | 30 | <5 | <20 | 20 | 15 | <100 | 15 | <10 |
| OC214S | <10 | <30 | 15 | 70 | 50 | 70 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC215S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 15 | 15 | <100 | 10 | <10 |
| OC216S | <10 | <30 | 15 | 70 | 50 | 50 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC217S | <10 | <30 | 15 | 70 | 30 | 70 | <5 | 30 | 15 | 15 | <100 | 15 | <10 |
| OC218S | <10 | <30 | 15 | 100 | 50 | 70 | <5 | 20 | 15 | 20 | <100 | 15 | <10 |
| OC219S | <10 | <30 | 15 | 70 | 30 | 50 | <5 | 20 | 15 | 15 | <100 | 15 | <10 |
| OC220S | <10 | <30 | 15 | 70 | 50 | 70 | <5 | 20 | 15 | 15 | <100 | 15 | <10 |
| OC221S | <10 | <30 | 15 | 70 | 50 | 30 | <5 | 30 | 15 | 20 | <100 | 15 | <10 |
| OC222S | <10 | <30 | 15 | 100 | 50 | 70 | <5 | 30 | 15 | 30 | <100 | 15 | <10 |
| OC223S | <10 | <30 | 15 | 30 | 30 | 70 | <5 | 20 | 15 | 20 | <100 | 7 | <10 |
| OC224S | <10 | <30 | 15 | 70 | 70 | 30 | <5 | <20 | 15 | 20 | <100 | 15 | <10 |
| OC225S | <10 | <30 | 15 | 70 | 50 | 70 | <5 | <20 | 15 | 15 | <100 | 15 | <10 |
| OC226S | <10 | <30 | 15 | 70 | 50 | 70 | <5 | 30 | 15 | 20 | <100 | 15 | <10 |
| OC227S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC228S | <10 | <30 | 15 | 70 | 30 | 70 | <5 | <20 | 20 | 20 | <100 | 15 | <10 |
| OC229S | <10 | <30 | 15 | 30 | 30 | 30 | <5 | 20 | 15 | 15 | <100 | 10 | <10 |
| OC230S | <10 | <30 | 15 | 70 | 30 | 70 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC231S | <10 | <30 | 7 | 30 | 15 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC232S | <10 | <30 | 10 | 30 | 15 | 50 | <5 | 20 | 15 | 15 | <100 | 7 | <10 |
| OC233S | <10 | <30 | 10 | 70 | 20 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC234S | <10 | <30 | 15 | 70 | 20 | 30 | <5 | <20 | 30 | 15 | <100 | 10 | <10 |
| OC235S | <10 | <30 | 15 | 70 | 200 | 30 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| OC236S | <10 | <30 | 7 | 70 | 20 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC238S | <10 | <30 | 10 | 70 | 20 | 70 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC239S | <10 | <30 | 10 | 30 | 30 | 70 | <5 | 30 | 15 | 30 | <100 | 7 | <10 |
| OC240S | <10 | <30 | 15 | 70 | 30 | 70 | <5 | 30 | 20 | 30 | <100 | 7 | <10 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon wilderness study area (OR-003-053), Malheur County, Oregon--Continued

| Sample | Sr-ppm s | V-ppm s | W-ppm s | Y-ppm s | Zn-ppm s | Zr-ppm s | Th-ppm s | As-ppm icp | Zn-ppm icp | Cd-ppm icp | Bi-ppm icp | Sb-ppm icp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC066S | 300 | 150 | <50 | 30 | <200 | 150 | <200 | <5 | 69 | .7 | <2 | <2 |
| OC067S | 300 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 64 | .4 | <2 | <2 |
| OC068S | 300 | 70 | <50 | 20 | <200 | 150 | <200 | <5 | 42 | .3 | <2 | <2 |
| OC069S | 300 | 100 | <50 | 20 | <200 | 200 | <200 | <5 | 59 | .5 | <2 | <2 |
| OC070S | 300 | 100 | <50 | 20 | <200 | 300 | <200 | 7 | 55 | .5 | <2 | <2 |
| OC071S | 300 | 100 | <50 | 15 | <200 | 150 | <200 | <5 | 49 | .3 | <2 | <2 |
| OC201S | 700 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 48 | <.1 | <2 | <2 |
| OC202S | 700 | 200 | <50 | 30 | <200 | 500 | <200 | <5 | 67 | .4 | 2 | <2 |
| OC203S | 300 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 58 | .3 | 3 | <2 |
| OC204S | 300 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 59 | .4 | <2 | <2 |
| OC205S | 300 | 150 | <50 | 30 | <200 | 150 | <200 | <5 | 70 | .7 | <2 | <2 |
| OC206S | 300 | 70 | <50 | 30 | <200 | 150 | <200 | <5 | 57 | .4 | <2 | <2 |
| OC207S | 300 | 70 | <50 | 30 | <200 | 200 | <200 | <5 | 57 | .3 | <2 | <2 |
| OC208S | 300 | 200 | <50 | 30 | <200 | 300 | <200 | <5 | 81 | .7 | <2 | <2 |
| OC209S | 700 | 200 | <50 | 30 | <200 | 200 | <200 | <5 | 65 | .4 | <2 | <2 |
| OC210S | 500 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 57 | .3 | <2 | <2 |
| OC211S | 700 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 50 | .3 | <2 | <2 |
| OC212S | 300 | 150 | <50 | 70 | <200 | 700 | <200 | <5 | 56 | .3 | <2 | <2 |
| OC213S | 300 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 44 | .3 | <2 | <2 |
| OC214S | 300 | 150 | <50 | 50 | <200 | 300 | <200 | <5 | 53 | .4 | <2 | <2 |
| OC215S | 300 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 52 | .2 | <2 | <2 |
| OC216S | 300 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 53 | .3 | <2 | <2 |
| OC217S | 500 | 150 | <50 | 50 | <200 | 500 | <200 | <5 | 39 | .2 | <2 | <2 |
| OC218S | 300 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 52 | .3 | <2 | <2 |
| OC219S | 300 | 150 | <50 | 30 | <200 | 500 | <200 | <5 | 43 | .3 | <2 | <2 |
| OC220S | 300 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 47 | .2 | <2 | <2 |
| OC221S | 300 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 48 | .3 | <2 | <2 |
| OC222S | 300 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 46 | .3 | <2 | <2 |
| OC223S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 48 | .3 | <2 | <2 |
| OC224S | 300 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 61 | .5 | <2 | <2 |
| OC225S | 300 | 150 | <50 | 50 | <200 | 500 | <200 | <5 | 54 | .3 | <2 | <2 |
| OC226S | 300 | 150 | <50 | 30 | <200 | 500 | <200 | <5 | 64 | .3 | <2 | <2 |
| OC227S | 300 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 34 | .3 | <2 | <2 |
| OC228S | 300 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 51 | .4 | 3 | <2 |
| OC229S | 300 | 150 | <50 | 50 | <200 | 300 | <200 | <5 | 59 | .3 | <2 | <2 |
| OC230S | 300 | 70 | <50 | 30 | <200 | 200 | <200 | <5 | 56 | .5 | <2 | <2 |
| OC231S | 300 | 70 | <50 | 20 | <200 | 300 | <200 | <5 | 60 | <.1 | <2 | <2 |
| OC232S | 300 | 100 | <50 | 15 | <200 | 300 | <200 | <5 | 61 | .1 | <2 | <2 |
| OC233S | 300 | 70 | <50 | 15 | <200 | 200 | <200 | <5 | 48 | <.1 | <2 | <2 |
| OC234S | 300 | 70 | <50 | 15 | <200 | 200 | <200 | <5 | 57 | .2 | <2 | <2 |
| OC235S | 300 | 70 | <50 | 20 | <200 | 150 | <200 | <5 | 72 | .4 | <2 | <2 |
| OC236S | 300 | 70 | <50 | 20 | <200 | 200 | <200 | <5 | 46 | .2 | <2 | <2 |
| OC238S | 200 | 70 | <50 | 30 | <200 | 200 | <200 | <5 | 56 | .5 | <2 | <2 |
| OC239S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 58 | .3 | <2 | <2 |
| OC240S | 300 | 100 | <50 | 30 | <200 | 300 | <200 | <5 | 60 | .5 | <2 | <2 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon wilderness study area (OR-003-095), Malheur County, Oregon--Continued

| Sample | Latitude | Longitude | Fe-pct. s | Mg-pct. s | Ca-pct. s | Ti-pct. s | Mn-ppm s | Ag-ppm s | As-ppm s | Au-ppm s | B-ppm s | Ba-ppm s | Be-ppm s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC241S | 42 28 33 | 117 15 19 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 30 | 700 | 1.5 |
| OC242S | 42 28 57 | 117 16 42 | 3.0 | .7 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 20 | 700 | 1.5 |
| OC243S | 42 26 58 | 117 17 49 | 3.0 | 1.0 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 20 | 700 | 1.5 |
| OC244S | 42 27 21 | 117 18 0 | 2.0 | .7 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC245S | 42 27 10 | 117 17 22 | 2.0 | .7 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC246S | 42 26 58 | 117 17 16 | 2.0 | .7 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 20 | 700 | 1.5 |
| OC247S | 42 27 26 | 117 16 8 | 3.0 | .7 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC248S | 42 7 52 | 117 18 55 | 3.0 | 1.0 | 1.5 | 1.0 | 700 | <.5 | <700 | <15 | 15 | 1,500 | 1.5 |
| OC249S | 42 8 13 | 117 18 46 | 3.0 | .7 | 1.5 | 1.0 | 700 | <.5 | <700 | <15 | 10 | 1,500 | 1.5 |
| OC250S | 42 8 17 | 117 18 47 | 3.0 | 1.5 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC251S | 42 10 44 | 117 17 15 | 3.0 | 1.0 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 30 | 1,500 | 1.5 |
| OC252S | 42 10 47 | 117 17 16 | 3.0 | 1.0 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 30 | 1,000 | 1.5 |
| OC272S | 42 9 30 | 117 19 14 | 5.0 | 1.0 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 1,500 | 1.5 |
| OC276S | 42 9 19 | 117 17 11 | 5.0 | 1.0 | 2.0 | >1.0 | 1,000 | <.5 | <700 | <15 | 10 | 2,000 | 1.5 |
| OC277S | 42 9 14 | 117 16 49 | 3.0 | 1.0 | 1.5 | .7 | 1,000 | <.5 | <700 | <15 | 10 | 2,000 | 1.5 |
| OC278S | 42 9 8 | 117 16 48 | 3.0 | .7 | 2.0 | .7 | 700 | <.5 | <700 | <15 | <10 | 3,000 | 1.5 |
| OC279S | 42 8 26 | 117 17 59 | 7.0 | 1.5 | 2.0 | >1.0 | 1,500 | <.5 | <700 | <15 | <10 | 2,000 | 1.5 |
| OC280S | 42 8 20 | 117 18 1 | 7.0 | 1.0 | 1.5 | >1.0 | 1,000 | <.5 | <700 | <15 | 50 | 1,500 | 1.5 |
| OC281S | 42 8 2 | 117 18 0 | 3.0 | 1.5 | 1.5 | .5 | 1,000 | <.5 | <700 | <15 | 20 | 1,500 | 1.5 |
| OC282S | 42 8 1 | 117 18 3 | 3.0 | 1.0 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 20 | 1,500 | 2.0 |
| OC283S | 42 10 5 | 117 16 17 | 3.0 | 1.5 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC284S | 42 10 4 | 117 16 18 | 7.0 | 1.0 | 2.0 | >1.0 | 1,000 | <.5 | <700 | <15 | 10 | 3,000 | 2.0 |
| OC285S | 42 10 54 | 117 16 1 | 3.0 | .7 | 2.0 | .5 | 700 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC286S | 42 11 44 | 117 15 38 | 3.0 | .7 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 50 | 1,000 | 1.5 |
| OC287S | 42 11 45 | 117 15 26 | 2.0 | .5 | 2.0 | .2 | 700 | <.5 | <700 | <15 | 10 | 1,500 | 2.0 |
| OC288S | 42 11 29 | 117 16 32 | 3.0 | 1.0 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC289S | 42 12 20 | 117 15 7 | 3.0 | 1.0 | 1.5 | .5 | 1,000 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC290S | 42 17 3 | 117 13 22 | 5.0 | 1.5 | 1.5 | .5 | 1,000 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC291S | 42 18 3 | 117 14 48 | 5.0 | 1.5 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 30 | 700 | 1.5 |
| OC292S | 42 17 50 | 117 15 24 | 5.0 | 1.5 | 2.0 | .5 | 1,000 | <.5 | <700 | <15 | 20 | 700 | 1.0 |
| OC293S | 42 12 41 | 117 10 7 | 5.0 | 1.5 | 1.5 | .7 | 1,000 | <.5 | <700 | <15 | 10 | 1,500 | 1.5 |
| OC294S | 42 12 46 | 117 10 10 | 3.0 | 1.0 | 2.0 | .5 | 1,000 | <.5 | <700 | <15 | 20 | 1,500 | 1.5 |
| OC295S | 42 12 48 | 117 9 59 | 3.0 | 1.0 | 2.0 | .5 | 1,000 | <.5 | <700 | <15 | 30 | 1,500 | 1.5 |
| OC296S | 42 14 36 | 117 12 21 | 3.0 | 1.0 | 2.0 | .5 | 1,500 | <.5 | <700 | <15 | 20 | 1,500 | 1.5 |
| OC297S | 42 13 58 | 117 12 33 | 5.0 | 1.5 | 2.0 | .5 | 1,500 | <.5 | <700 | <15 | 30 | 1,000 | 1.5 |
| OC298S | 42 27 17 | 117 13 39 | 3.0 | .7 | 2.0 | .7 | 700 | <.5 | <700 | <15 | 15 | 1,000 | 1.5 |
| OC299S | 42 26 27 | 117 12 55 | 3.0 | 1.0 | 2.0 | .5 | 700 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC300S | 42 23 20 | 117 13 32 | 5.0 | 1.5 | 2.0 | .5 | 1,000 | <.5 | <700 | <15 | 20 | 700 | 1.5 |
| OC301S | 42 23 13 | 117 14 0 | 3.0 | 2.0 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 30 | 1,000 | 1.0 |
| OC302S | 42 23 8 | 117 13 58 | 7.0 | 3.0 | 3.0 | .7 | 1,000 | <.5 | <700 | <15 | 15 | 1,000 | 1.0 |
| OC303S | 42 28 0 | 117 15 10 | 3.0 | 1.5 | 1.5 | .5 | 1,000 | <.5 | <700 | <15 | 30 | 1,500 | 1.5 |
| OC304S | 42 27 22 | 117 15 21 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 30 | 1,000 | 1.0 |
| OC305S | 42 27 18 | 117 15 17 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC306S | 42 21 33 | 117 15 5 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 30 | 700 | 1.5 |
| OC307S | 42 21 40 | 117 15 18 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 30 | 1,000 | 1.5 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon wilderness study area (OR-003-095), Malheur County, Oregon--Continued

| Sample | Bi-ppm | Cd-ppm | Co-ppm | Cr-ppm | Cu-ppm | La-ppm | Mo-ppm | Nb-ppm | Ni-ppm | Pb-ppm | Sb-ppm | Sc-ppm | Sn-ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0C241S | <10 | <30 | 15 | 30 | 30 | 70 | <5 | <20 | 15 | 30 | <100 | 7 | <10 |
| 0C242S | <10 | <30 | 10 | 30 | 30 | 70 | <5 | <20 | 15 | 30 | <100 | 10 | <10 |
| 0C243S | <10 | <30 | 15 | 70 | 30 | 50 | <5 | <20 | 30 | 30 | <100 | 15 | <10 |
| 0C244S | <10 | <30 | 10 | 30 | 30 | 70 | <5 | <20 | 15 | 30 | <100 | 7 | <10 |
| 0C245S | <10 | <30 | 10 | 30 | 30 | 50 | <5 | <20 | 15 | 30 | <100 | 7 | <10 |
| 0C246S | <10 | <30 | 10 | 30 | 30 | 50 | <5 | <20 | 15 | 20 | <100 | 7 | <10 |
| 0C247S | <10 | <30 | 15 | 30 | 30 | 30 | <5 | <20 | 15 | 20 | <100 | 7 | <10 |
| 0C248S | <10 | <30 | 15 | 150 | 15 | 70 | <5 | 30 | 15 | 30 | <100 | 10 | <10 |
| 0C249S | <10 | <30 | 10 | 70 | 15 | 70 | <5 | 30 | 15 | 30 | <100 | 7 | <10 |
| 0C250S | <10 | <30 | 15 | 30 | 70 | 30 | <5 | <20 | 20 | 30 | <100 | 10 | <10 |
| 0C251S | <10 | <30 | 15 | 70 | 50 | 70 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| 0C252S | <10 | <30 | 15 | 50 | 50 | 50 | <5 | <20 | 20 | 15 | <100 | 15 | <10 |
| 0C272S | <10 | <30 | 15 | 70 | 50 | 50 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| 0C276S | <10 | <30 | 15 | 30 | 50 | 70 | <5 | 30 | 20 | 20 | <100 | 15 | <10 |
| 0C277S | <10 | <30 | 10 | 20 | 30 | 70 | <5 | 20 | 10 | 20 | <100 | 10 | <10 |
| 0C278S | <10 | <30 | 10 | 70 | 15 | 100 | <5 | 20 | 15 | 20 | <100 | 10 | <10 |
| 0C279S | <10 | <30 | 15 | 100 | 70 | 70 | <5 | 50 | 15 | 20 | <100 | 15 | <10 |
| 0C280S | <10 | <30 | 15 | 70 | 70 | 70 | <5 | 30 | 20 | 20 | <100 | 15 | <10 |
| 0C281S | <10 | <30 | 15 | 50 | 50 | 70 | <5 | 20 | 20 | 15 | <100 | 15 | <10 |
| 0C282S | <10 | <30 | 15 | 70 | 50 | 50 | <5 | <20 | 20 | 20 | <100 | 15 | <10 |
| 0C283S | <10 | <30 | 15 | 70 | 50 | 50 | <5 | <20 | 30 | 20 | <100 | 15 | <10 |
| 0C284S | <10 | <30 | 15 | 150 | 15 | 70 | <5 | 50 | 20 | 20 | <100 | 15 | <10 |
| 0C285S | <10 | <30 | 10 | 50 | 30 | 50 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| 0C286S | <10 | <30 | 10 | 70 | 50 | 70 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| 0C287S | <10 | <30 | 5 | <10 | 15 | 100 | <5 | 20 | 5 | 20 | <100 | 7 | <10 |
| 0C288S | <10 | <30 | 10 | 50 | 50 | 30 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| 0C289S | <10 | <30 | 15 | 70 | 50 | 50 | <5 | <20 | 20 | 20 | <100 | 10 | <10 |
| 0C290S | <10 | <30 | 15 | 70 | 50 | 70 | <5 | <20 | 30 | 20 | <100 | 15 | <10 |
| 0C291S | <10 | <30 | 15 | 70 | 50 | 50 | <5 | <20 | 30 | 20 | <100 | 15 | <10 |
| 0C292S | <10 | <30 | 15 | 150 | 50 | 30 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| 0C293S | <10 | <30 | 15 | 150 | 30 | 70 | <5 | 30 | 20 | 20 | <100 | 15 | 30 |
| 0C294S | <10 | <30 | 15 | 70 | 50 | 70 | <5 | <20 | 20 | 20 | <100 | 10 | <10 |
| 0C295S | <10 | <30 | 10 | 50 | 50 | 50 | <5 | <20 | 20 | 20 | <100 | 10 | <10 |
| 0C296S | <10 | <30 | 15 | 70 | 50 | 50 | <5 | <20 | 20 | 20 | <100 | 10 | <10 |
| 0C297S | <10 | <30 | 15 | 70 | 70 | 30 | <5 | <20 | 30 | 20 | <100 | 7 | <10 |
| 0C298S | <10 | <30 | 10 | 70 | 50 | 70 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| 0C299S | <10 | <30 | 10 | 70 | 30 | 50 | <5 | <20 | 15 | 15 | <100 | 10 | <10 |
| 0C300S | <10 | <30 | 15 | 70 | 50 | 50 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| 0C301S | <10 | <30 | 15 | 150 | 50 | 50 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| 0C302S | <10 | <30 | 15 | 100 | 30 | 70 | <5 | 20 | 30 | 20 | <100 | 15 | <10 |
| 0C303S | <10 | <30 | 15 | 70 | 30 | 70 | <5 | 20 | 15 | 15 | <100 | 10 | <10 |
| 0C304S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | 20 | 15 | 15 | <100 | 10 | <10 |
| 0C305S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | 20 | 15 | 15 | <100 | 10 | <10 |
| 0C306S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 20 | 20 | <100 | 15 | <10 |
| 0C307S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon Wilderness Study area (OR-003-093), Malheur County, Oregon--Continued

| Sample | Sr-ppm s | V-ppm s | W-ppm s | Y-ppm s | Zn-ppm s | Zr-ppm s | Th-ppm s | As-ppm icp | Zn-ppm icp | Cd-ppm icp | Bi-ppm icp | Sb-ppm icp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC241S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | -- | -- | -- | -- | -- |
| OC242S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 61 | .3 | <2 | <2 |
| OC243S | 300 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 62 | .3 | <2 | <2 |
| OC244S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 53 | .4 | <2 | <2 |
| OC245S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 63 | .4 | <2 | <2 |
| OC246S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | -- | -- | -- | -- | -- |
| OC247S | 300 | 70 | <50 | 20 | <200 | 300 | <200 | <5 | 59 | .4 | <2 | <2 |
| OC248S | 300 | 100 | <50 | 30 | <200 | 700 | <200 | <5 | 47 | .2 | <2 | <2 |
| OC249S | 300 | 70 | <50 | 30 | <200 | 700 | <200 | <5 | 46 | .2 | <2 | <2 |
| OC250S | 300 | 100 | <50 | 30 | <200 | 300 | <200 | <5 | 107 | .6 | <2 | <2 |
| OC251S | 500 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 62 | .4 | <2 | <2 |
| OC252S | 500 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 88 | .5 | <2 | <2 |
| OC272S | 500 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 68 | .2 | <2 | <2 |
| OC276S | 500 | 150 | <50 | 50 | <200 | 1,500 | <200 | <5 | 52 | .3 | <2 | <2 |
| OC277S | 500 | 100 | <50 | 30 | <200 | 500 | <200 | <5 | 39 | .2 | <2 | <2 |
| OC278S | 500 | 100 | <50 | 30 | <200 | 500 | <200 | <5 | 27 | .1 | <2 | <2 |
| OC279S | 500 | 150 | <50 | 30 | <200 | 1,000 | <200 | <5 | 49 | .2 | <2 | <2 |
| OC280S | 500 | 150 | <50 | 30 | <200 | 500 | <200 | <5 | 80 | .5 | <2 | <2 |
| OC281S | 500 | 100 | <50 | 50 | <200 | 300 | <200 | <5 | 62 | .4 | <2 | <2 |
| OC282S | 500 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 76 | .5 | <2 | <2 |
| OC283S | 500 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 72 | .5 | <2 | <2 |
| OC284S | 500 | 150 | <50 | 50 | <200 | 1,500 | <200 | <5 | 40 | .2 | <2 | <2 |
| OC285S | 500 | 100 | <50 | 30 | <200 | 300 | <200 | 5 | 46 | .3 | <2 | <2 |
| OC286S | 500 | 100 | <50 | 30 | <200 | 150 | <200 | 5 | 74 | .5 | <2 | <2 |
| OC287S | 300 | 20 | <50 | 30 | <200 | 300 | <200 | <5 | 27 | .1 | <2 | <2 |
| OC288S | 300 | 100 | <50 | 20 | <200 | 300 | <200 | <5 | 66 | .5 | <2 | <2 |
| OC289S | 500 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 72 | .5 | <2 | <2 |
| OC290S | 500 | 150 | <50 | 30 | <200 | 300 | <200 | 5 | 70 | .4 | <2 | <2 |
| OC291S | 300 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 72 | .4 | <2 | <2 |
| OC292S | 500 | 150 | <50 | 20 | <200 | 150 | <200 | <5 | 60 | .4 | <2 | <2 |
| OC293S | 500 | 150 | <50 | 50 | <200 | 1,000 | <200 | <5 | 47 | .3 | <2 | <2 |
| OC294S | 500 | 100 | <50 | 30 | <200 | 300 | <200 | <5 | 50 | .5 | <2 | <2 |
| OC295S | 500 | 100 | <50 | 20 | <200 | 200 | <200 | <5 | 49 | .4 | <2 | <2 |
| OC296S | 500 | 100 | <50 | 30 | <200 | 300 | <200 | <5 | 52 | .5 | <2 | <2 |
| OC297S | 500 | 150 | <50 | 20 | <200 | 200 | <200 | <5 | 66 | .5 | <2 | <2 |
| OC298S | 500 | 150 | <50 | 50 | <200 | 300 | <200 | <5 | 42 | .3 | <2 | <2 |
| OC299S | 500 | 100 | <50 | 20 | <200 | 300 | <200 | <5 | 45 | .2 | <2 | <2 |
| OC300S | 300 | 150 | <50 | 20 | <200 | 200 | <200 | <5 | 68 | .4 | <2 | <2 |
| OC301S | 500 | 150 | <50 | 20 | <200 | 200 | <200 | <5 | 53 | .3 | <2 | <2 |
| OC302S | 500 | 150 | <50 | 30 | <200 | 500 | <200 | <5 | 64 | .6 | <2 | <2 |
| OC303S | 500 | 150 | <50 | 30 | <200 | 700 | <200 | <5 | 48 | .2 | <2 | <2 |
| OC304S | 500 | 150 | <50 | 30 | <200 | 500 | <200 | <5 | 46 | .2 | <2 | <2 |
| OC305S | 500 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 42 | .3 | <2 | <2 |
| OC306S | 300 | 100 | <50 | 30 | <200 | 150 | <200 | <5 | 59 | .5 | <2 | <2 |
| OC307S | 300 | 70 | <50 | 20 | <200 | 150 | <200 | <5 | 56 | .3 | <2 | <2 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon wilderness study area (OR-003-095), Malheur County, Oregon--Continued

| Sample | Latitude | Longitude | Fe-pct. s | Mg-pct. s | Ca-pct. s | Ti-pct. s | Mn-ppm s | Ag-ppm s | As-ppm s | Au-ppm s | B-ppm s | Ba-ppm s | Be-ppm s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC308S | 42 20 59 | 117 15 21 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC309S | 42 26 0 | 117 13 50 | 3.0 | 1.5 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 15 | 1,500 | 1.5 |
| OC310S | 42 26 18 | 117 13 30 | 1.5 | 1.5 | 1.5 | .2 | 700 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC311S | 42 26 20 | 117 13 27 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 20 | 1,500 | 1.5 |
| OC312S | 42 26 0 | 117 13 11 | 3.0 | 1.5 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 20 | 1,500 | 1.5 |
| OC313S | 42 25 54 | 117 13 10 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC314S | 42 25 9 | 117 14 27 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC315S | 42 25 23 | 117 13 10 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 30 | 1,500 | 1.5 |
| OC316S | 42 24 58 | 117 13 18 | 3.0 | 1.5 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 30 | 1,000 | 1.5 |
| OC600S | 42 13 15 | 117 13 10 | 5.0 | 1.0 | 2.0 | .5 | 1,000 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC601S | 42 15 32 | 117 9 17 | 5.0 | 1.0 | 1.5 | .7 | 1,500 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC602S | 42 17 50 | 117 12 46 | 3.0 | 1.0 | 1.5 | .5 | 1,000 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC603S | 42 28 24 | 117 15 40 | 3.0 | .7 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 20 | 1,500 | 1.5 |
| OC604S | 42 28 18 | 117 15 40 | 3.0 | .7 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC605S | 42 16 11 | 117 12 59 | 3.0 | 1.0 | 1.5 | .7 | 1,000 | <.5 | <700 | <15 | 20 | 1,500 | 1.5 |
| OC606S | 42 16 6 | 117 12 22 | 3.0 | 1.0 | 1.5 | .5 | 1,000 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC607S | 42 19 54 | 117 13 27 | 3.0 | .7 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 15 | 1,000 | 1.5 |
| OC608S | 42 19 51 | 117 13 34 | 3.0 | 1.0 | 1.5 | .5 | 1,000 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC609S | 42 21 52 | 117 12 8 | 3.0 | 1.0 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 30 | 1,000 | 1.0 |
| OC610S | 42 21 52 | 117 10 43 | 5.0 | .7 | 1.5 | .7 | 1,500 | <.5 | <700 | <15 | 10 | 1,000 | 1.5 |
| OC611S | 42 22 48 | 117 11 34 | 3.0 | 1.0 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 1,000 | 1.5 |
| OC702S | 42 9 18 | 117 15 48 | 3.0 | 1.5 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC703S | 42 11 39 | 117 14 43 | 5.0 | 1.5 | 3.0 | .5 | 1,500 | <.5 | <700 | <15 | 20 | 1,500 | 1.5 |
| OC704S | 42 13 40 | 117 15 11 | 5.0 | 1.5 | 1.5 | .5 | 1,500 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC705S | 42 14 3 | 117 14 6 | 5.0 | 1.5 | 1.5 | .5 | 1,000 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC800S | 42 12 47 | 117 13 34 | 2.0 | 1.5 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC801S | 42 15 15 | 117 9 17 | 2.0 | .7 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC802S | 42 16 16 | 117 9 20 | 3.0 | .7 | 1.5 | .5 | 500 | <.5 | <700 | <15 | 20 | 700 | 1.5 |
| OC803S | 42 31 58 | 117 12 12 | 3.0 | 1.5 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC804S | 42 32 4 | 117 12 1 | 3.0 | 1.0 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC805S | 42 17 7 | 117 9 41 | 1.5 | .7 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 1,000 | 1.5 |
| OC806S | 42 17 54 | 117 9 22 | 3.0 | 1.0 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 10 | 1,000 | 1.5 |
| OC807S | 42 18 27 | 117 9 22 | 2.0 | .7 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC808S | 42 18 47 | 117 9 22 | 2.0 | .7 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 1,000 | 1.5 |
| OC809S | 42 18 56 | 117 9 19 | 1.5 | .7 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC810S | 42 20 9 | 117 9 41 | 3.0 | 1.0 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC811S | 42 20 43 | 117 10 10 | 3.0 | .7 | 1.5 | .3 | 300 | <.5 | <700 | <15 | 15 | 1,000 | 1.5 |
| OC812S | 42 21 12 | 117 9 51 | 3.0 | 1.0 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC813S | 42 21 54 | 117 10 9 | 3.0 | 1.0 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC814S | 42 19 45 | 117 10 31 | 3.0 | .7 | 1.5 | .5 | 700 | <.5 | <700 | <15 | <10 | 1,500 | 1.5 |
| OC815S | 42 20 36 | 117 6 7 | 2.0 | .7 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC816S | 42 21 42 | 117 5 5 | 2.0 | .7 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC817S | 42 23 41 | 117 8 10 | 2.0 | 1.0 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC818S | 42 20 2 | 117 6 36 | 1.5 | .7 | 1.5 | .5 | 700 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC819S | 42 23 23 | 117 10 19 | 1.5 | .7 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 15 | 700 | 1.5 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon Wilderness Study Area (OR-003-093), Malheur County, Oregon--Continued

| Sample | Bi-ppm s | Cd-ppm s | Co-ppm s | Cr-ppm s | Cu-ppm s | La-ppm s | Mo-ppm s | Nb-ppm s | Ni-ppm s | Pb-ppm s | Sb-ppm s | Sc-ppm s | Sn-ppm s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC308S | <10 | <30 | 15 | 150 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC309S | <10 | <30 | 15 | 50 | 30 | 30 | <5 | <20 | 15 | 20 | <100 | 10 | <10 |
| OC310S | <10 | <30 | 7 | 30 | 30 | 30 | <5 | <20 | 7 | 15 | <100 | 10 | <10 |
| OC311S | <10 | <30 | 10 | 70 | 30 | 70 | <5 | 20 | 15 | 15 | <100 | 15 | <10 |
| OC312S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | 30 | 15 | 20 | <100 | 15 | <10 |
| OC313S | <10 | <30 | 15 | 50 | 30 | 30 | <5 | 20 | 15 | 15 | <100 | 10 | <10 |
| OC314S | <10 | <30 | 15 | 50 | 30 | 70 | <5 | <20 | 15 | 15 | <100 | 15 | <10 |
| OC315S | <10 | <30 | 15 | 50 | 30 | 50 | <5 | <20 | 15 | 15 | <100 | 10 | <10 |
| OC316S | <10 | <30 | 15 | 50 | 30 | 70 | <5 | <20 | 15 | 15 | <100 | 15 | <10 |
| OC600S | <10 | <30 | 15 | 70 | 50 | 50 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC601S | <10 | <30 | 15 | 70 | 50 | 50 | <5 | <20 | 30 | 20 | <100 | 15 | <10 |
| OC602S | <10 | <30 | 15 | 50 | 30 | 50 | <5 | <20 | 20 | 20 | <100 | 10 | <10 |
| OC603S | <10 | <30 | 10 | 30 | 50 | 70 | <5 | <20 | 20 | 20 | <100 | 10 | <10 |
| OC604S | <10 | <30 | 10 | 100 | 50 | 50 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| OC605S | <10 | <30 | 15 | 50 | 30 | 50 | <5 | 20 | 20 | 15 | <100 | 10 | <10 |
| OC606S | <10 | <30 | 15 | 50 | 50 | 50 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| OC607S | <10 | <30 | 10 | 50 | 30 | 70 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| OC608S | <10 | <30 | 10 | 50 | 50 | 50 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| OC609S | <10 | <30 | 7 | 30 | 50 | 50 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| OC610S | <10 | <30 | 15 | 50 | 50 | 70 | <5 | 20 | 20 | 20 | <100 | 15 | <10 |
| OC611S | <10 | <30 | 10 | 50 | 50 | 50 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| OC702S | <10 | <30 | 10 | 50 | 50 | 30 | <5 | <20 | 30 | 15 | <100 | 10 | <10 |
| OC703S | <10 | <30 | 20 | 150 | 50 | 50 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC704S | <10 | <30 | 20 | 70 | 50 | 50 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC705S | <10 | <30 | 15 | 100 | 50 | 50 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC800S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 7 | <10 |
| OC801S | <10 | <30 | 10 | 30 | 30 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC802S | <10 | <30 | 10 | 30 | 30 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC803S | <10 | <30 | 15 | 200 | 30 | 30 | <5 | <20 | 20 | 15 | <100 | 10 | <10 |
| OC804S | <10 | <30 | 10 | 150 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC805S | <10 | <30 | 7 | 30 | 20 | 70 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC806S | <10 | <30 | 10 | 30 | 15 | 70 | <5 | 20 | 15 | 15 | <100 | 7 | <10 |
| OC807S | <10 | <30 | 10 | 30 | 20 | 70 | <5 | <20 | 15 | 20 | <100 | 7 | <10 |
| OC808S | <10 | <30 | 7 | 30 | 20 | 70 | <5 | <20 | 15 | 20 | <100 | 7 | <10 |
| OC809S | <10 | <30 | 7 | 30 | 20 | 50 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC810S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 10 | <10 |
| OC811S | <10 | <30 | 7 | 50 | 20 | 70 | <5 | <20 | 10 | 20 | <100 | 7 | <10 |
| OC812S | <10 | <30 | 15 | 100 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 10 | <10 |
| OC813S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 20 | 15 | <100 | 15 | <10 |
| OC814S | <10 | <30 | 15 | 30 | 15 | 70 | <5 | 20 | 15 | 15 | <100 | 7 | <10 |
| OC815S | <10 | <30 | 15 | 70 | 20 | 50 | <5 | <20 | 20 | 15 | <100 | 7 | <10 |
| OC816S | <10 | <30 | 10 | 70 | 30 | 50 | <5 | <20 | 20 | 20 | <100 | 10 | <10 |
| OC817S | <10 | <30 | 15 | 150 | 500 | 30 | <5 | <20 | 30 | 15 | <100 | 7 | <10 |
| OC818S | <10 | <30 | 15 | 70 | 15 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC819S | <10 | <30 | 10 | 70 | 15 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon Wilderness Study Area (OR-005-095), Malheur County, Oregon--Continued

| Sample | Sr-ppm s | V-ppm s | W-ppm s | Y-ppm s | Zn-ppm s | Zr-ppm s | Th-ppm s | As-ppm icp | Zn-ppm icp | Cd-ppm icp | Bi-ppm icp | Sb-ppm icp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC308S | 300 | 150 | <50 | 20 | <200 | 150 | <200 | <5 | 60 | 1.1 | <2 | <2 |
| OC309S | 500 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 48 | .7 | <2 | <2 |
| OC310S | 300 | 30 | <50 | 30 | <200 | 300 | <200 | <5 | 51 | .4 | <2 | <2 |
| OC311S | 700 | 70 | <50 | 30 | <200 | 1,000 | <200 | <5 | 52 | .2 | <2 | <2 |
| OC312S | 500 | 100 | <50 | 30 | <200 | 300 | <200 | <5 | 64 | .3 | <2 | <2 |
| OC313S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 51 | .2 | <2 | <2 |
| OC314S | 500 | 70 | <50 | 30 | <200 | 150 | <200 | <5 | 54 | .4 | <2 | <2 |
| OC315S | 700 | 100 | <50 | 30 | <200 | 300 | <200 | <5 | 45 | .3 | <2 | <2 |
| OC316S | 500 | 150 | <50 | 20 | <200 | 700 | <200 | <5 | 51 | .3 | <2 | <2 |
| OC600S | 500 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 58 | .2 | <2 | <2 |
| OC601S | 500 | 150 | <50 | 30 | <200 | 300 | <200 | <5 | 57 | .3 | <2 | <2 |
| OC602S | 500 | 100 | <50 | 30 | <200 | 200 | <200 | <5 | 59 | .4 | <2 | <2 |
| OC603S | 300 | 100 | <50 | 30 | <200 | 200 | <200 | <5 | 52 | .3 | <2 | <2 |
| OC604S | 500 | 100 | <50 | 30 | <200 | 200 | <200 | <5 | 57 | .4 | <2 | <2 |
| OC605S | 500 | 100 | <50 | 30 | <200 | 300 | <200 | 5 | 46 | .3 | <2 | <2 |
| OC606S | 500 | 100 | <50 | 30 | <200 | 200 | <200 | <5 | 48 | .3 | <2 | <2 |
| OC607S | 300 | 100 | <50 | 30 | <200 | 300 | <200 | <5 | 55 | .3 | <2 | <2 |
| OC608S | 300 | 100 | <50 | 20 | <200 | 300 | <200 | <5 | 60 | .3 | <2 | <2 |
| OC609S | 500 | 100 | <50 | 20 | <200 | 200 | <200 | <5 | 50 | .3 | <2 | <2 |
| OC610S | 500 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 53 | .2 | <2 | <2 |
| OC611S | 500 | 70 | <50 | 20 | <200 | 150 | <200 | <5 | 58 | .3 | <2 | <2 |
| OC702S | 300 | 70 | <50 | 20 | <200 | 200 | <200 | <5 | 61 | .3 | <2 | <2 |
| OC703S | 500 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 57 | .4 | <2 | <2 |
| OC704S | 300 | 150 | <50 | 30 | <200 | 200 | <200 | 5 | 61 | .4 | <2 | <2 |
| OC705S | 500 | 150 | <50 | 30 | <200 | 200 | <200 | <5 | 65 | .4 | <2 | <2 |
| OC800S | 300 | 100 | <50 | 15 | <200 | 200 | <200 | <5 | 41 | .4 | <2 | <2 |
| OC801S | 300 | 70 | <50 | 15 | <200 | 150 | <200 | <5 | 54 | .4 | <2 | <2 |
| OC802S | 300 | 70 | <50 | 15 | <200 | 300 | <200 | <5 | 49 | .3 | <2 | <2 |
| OC803S | 300 | 70 | <50 | 15 | <200 | 300 | <200 | <5 | 61 | .4 | <2 | <2 |
| OC804S | 300 | 100 | <50 | 30 | <200 | 300 | <200 | <5 | 49 | .2 | <2 | <2 |
| OC805S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 39 | .2 | <2 | <2 |
| OC806S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 51 | .3 | <2 | <2 |
| OC807S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 48 | .4 | <2 | <2 |
| OC808S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 42 | .3 | <2 | <2 |
| OC809S | 300 | 70 | <50 | 30 | <200 | 200 | <200 | <5 | 46 | .4 | <2 | <2 |
| OC810S | 300 | 70 | <50 | 20 | <200 | 150 | <200 | <5 | 60 | .4 | <2 | <2 |
| OC811S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 39 | .2 | <2 | <2 |
| OC812S | 300 | 70 | <50 | 30 | <200 | 200 | <200 | <5 | 60 | .4 | <2 | <2 |
| OC813S | 300 | 70 | <50 | 30 | <200 | 200 | <200 | <5 | 53 | .4 | <2 | <2 |
| OC814S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 43 | .4 | <2 | <2 |
| OC815S | 500 | 100 | <50 | 30 | <200 | 300 | <200 | <5 | 36 | .5 | <2 | <2 |
| OC816S | 300 | 70 | <50 | 30 | <200 | 150 | <200 | <5 | 42 | .2 | <2 | <2 |
| OC817S | 300 | 70 | <50 | 30 | <200 | 150 | <200 | <5 | 45 | .4 | <2 | <2 |
| OC818S | 300 | 70 | <50 | 15 | <200 | 200 | <200 | <5 | 30 | .3 | <2 | <2 |
| OC819S | 300 | 70 | <50 | 15 | <200 | 200 | <200 | <5 | 34 | .3 | <2 | <2 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon Wilderness Study Area (OR-003-053), Malheur County, Oregon--Continued

| Sample | Latitude | Longitude | Fe-pct. s | Mg-pct. s | Ca-pct. s | Ti-pct. s | Mn-ppm s | Ag-ppm s | As-ppm s | Au-ppm s | B-ppm s | Ba-ppm s | Be-ppm s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC820S | 42 25 15 | 117 11 5 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC821S | 42 25 27 | 117 10 57 | 3.0 | 1.0 | 1.5 | .3 | 1,000 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC822S | 42 25 11 | 117 12 25 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC900S | 42 9 28 | 117 18 12 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 30 | 1,000 | <1.0 |
| OC901S | 42 9 30 | 117 18 12 | 3.0 | 1.5 | 1.5 | .7 | 500 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC902S | 42 9 14 | 117 17 18 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC903S | 42 14 4 | 117 12 35 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 20 | 700 | 1.0 |
| OC904S | 42 15 48 | 117 14 8 | 2.0 | 1.0 | 1.5 | .3 | 300 | <.5 | <700 | <15 | <10 | 1,000 | 1.0 |
| OC905S | 42 15 44 | 117 14 9 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 30 | 700 | 1.0 |
| OC906S | 42 16 49 | 117 12 26 | 2.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 20 | 1,000 | 1.5 |
| OC907S | 42 20 5 | 117 14 18 | 3.0 | 1.5 | 1.5 | .7 | 700 | <.5 | <700 | <15 | 15 | 1,000 | 1.5 |
| OC908S | 42 20 6 | 117 14 17 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 1,000 | 1.0 |
| OC909S | 42 21 47 | 117 14 8 | 3.0 | 1.5 | 1.5 | .3 | 700 | 1.5 | <700 | <15 | 20 | 700 | 1.5 |
| OC910S | 42 21 48 | 117 14 11 | 7.0 | 1.5 | 1.5 | >1.0 | 700 | <.5 | <700 | <15 | <10 | 1,500 | <1.0 |
| OC911S | 42 22 20 | 117 14 4 | 3.0 | 1.5 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 15 | 700 | 1.0 |
| OC912S | 42 22 27 | 117 13 48 | 1.5 | .7 | 1.5 | .3 | 300 | <.5 | <700 | <15 | 15 | 700 | 1.0 |
| OC913S | 42 23 8 | 117 13 25 | 3.0 | 1.5 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 15 | 700 | 1.5 |
| OC914S | 42 23 33 | 117 13 18 | 3.0 | 1.5 | 1.5 | .3 | 500 | <.5 | <700 | <15 | 15 | 700 | 2.0 |
| OC915S | 42 23 46 | 117 13 20 | 3.0 | 1.0 | 1.5 | .3 | 700 | <.5 | <700 | <15 | 10 | 700 | 1.5 |
| OC916S | 42 24 9 | 117 12 43 | 3.0 | 1.0 | 1.5 | .7 | 300 | <.5 | <700 | <15 | <10 | 2,000 | 1.5 |
| OC917S | 42 24 7 | 117 12 38 | 2.0 | 1.0 | 1.5 | .3 | 300 | <.5 | <700 | <15 | 20 | 700 | 1.5 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon Wilderness Study Area (OR-005-093), Malheur County, Oregon--Continued

| Sample | Bi-ppm s | Cd-ppm s | Co-ppm s | Cr-ppm s | Cu-ppm s | La-ppm s | Mo-ppm s | Nb-ppm s | Ni-ppm s | Pb-ppm s | Sb-ppm s | Sc-ppm s | Sn-ppm s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC820S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 10 | <10 |
| OC821S | <10 | <30 | 15 | 150 | 30 | 30 | <5 | <20 | 30 | 20 | <100 | 10 | <10 |
| OC822S | <10 | <30 | 15 | 70 | 30 | 30 | <5 | <20 | 30 | 15 | <100 | 10 | <10 |
| OC900S | <10 | <30 | 15 | 70 | 30 | 50 | <5 | <20 | 20 | 15 | <100 | 15 | <10 |
| OC901S | <10 | <30 | 15 | 70 | 30 | 70 | <5 | 30 | 15 | 15 | <100 | 15 | <10 |
| OC902S | <10 | <30 | 10 | 30 | 30 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC903S | <10 | <30 | 15 | 70 | 50 | 50 | <5 | <20 | 30 | 15 | <100 | 15 | <10 |
| OC904S | <10 | <30 | 7 | 70 | 15 | 70 | <5 | <20 | 7 | 30 | <100 | 7 | <10 |
| OC905S | <10 | <30 | 15 | 50 | 30 | 30 | <5 | <20 | 15 | 15 | <100 | 10 | <10 |
| OC906S | <10 | <30 | 15 | 70 | 30 | 50 | <5 | <20 | 15 | 15 | <100 | 15 | <10 |
| OC907S | <10 | <30 | 15 | 70 | 30 | 50 | <5 | 20 | 15 | 15 | <100 | 15 | <10 |
| OC908S | <10 | <30 | 15 | 50 | 30 | 50 | <5 | 20 | 15 | 20 | <100 | 15 | <10 |
| OC909S | <10 | <30 | 15 | 30 | 30 | 30 | <5 | <20 | 15 | 15 | <100 | 15 | <10 |
| OC910S | <10 | <30 | 15 | 100 | 15 | 70 | <5 | 70 | 10 | 15 | <100 | 30 | <10 |
| OC911S | <10 | <30 | 15 | 70 | 30 | 50 | <5 | <20 | 20 | 15 | <100 | 15 | <10 |
| OC912S | <10 | <30 | 7 | 30 | 30 | 30 | <5 | <20 | 15 | 15 | <100 | 7 | <10 |
| OC913S | <10 | <30 | 10 | 30 | 30 | 30 | <5 | <20 | 15 | 15 | <100 | 15 | <10 |
| OC914S | <10 | <30 | 10 | 70 | 50 | 70 | <5 | <20 | 15 | 15 | <100 | 15 | <10 |
| OC915S | <10 | <30 | 15 | 50 | 30 | 50 | <5 | <20 | 15 | 15 | <100 | 15 | <10 |
| OC916S | <10 | <30 | 10 | 70 | 7 | 70 | <5 | 30 | 7 | 30 | <100 | 15 | <10 |
| OC917S | <10 | <30 | 7 | 50 | 30 | 70 | <5 | <20 | 15 | 15 | <100 | 15 | <10 |

Table 6.--Analyses of stream-sediment samples, Owyhee River Canyon Wilderness Study Area (OR-005-095), Malheur County, Oregon--Continued

| Sample | Sr-ppm s | V-ppm s | W-ppm s | Y-ppm s | Zn-ppm s | Zr-ppm s | Th-ppm s | As-ppm icp | Zn-ppm icp | Cd-ppm icp | Bi-ppm icp | Sb-ppm icp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC820S | 300 | 70 | <50 | 20 | <200 | 150 | <200 | <5 | 56 | .4 | <2 | <2 |
| OC821S | 300 | 70 | <50 | 20 | <200 | 150 | <200 | <5 | 53 | .5 | <2 | <2 |
| OC822S | 300 | 70 | <50 | 20 | <200 | 150 | <200 | <5 | 67 | .5 | <2 | <2 |
| OC900S | 500 | 100 | <50 | 30 | <200 | 200 | <200 | 6 | 63 | .4 | <2 | <2 |
| OC901S | 300 | 150 | <50 | 50 | <200 | 700 | <200 | 8 | 60 | .5 | <2 | <2 |
| OC902S | 300 | 70 | <50 | 70 | <200 | 200 | <200 | 10 | 74 | .6 | <2 | <2 |
| OC903S | 300 | 150 | <50 | 30 | <200 | 150 | <200 | 9 | 72 | .7 | <2 | <2 |
| OC904S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 32 | .3 | <2 | <2 |
| OC905S | 300 | 100 | <50 | 30 | <200 | 200 | <200 | 12 | 71 | .6 | <2 | <2 |
| OC906S | 500 | 100 | <50 | 30 | <200 | 300 | <200 | 6 | 47 | .6 | <2 | <2 |
| OC907S | 500 | 150 | <50 | 30 | <200 | 500 | <200 | 10 | 65 | .6 | <2 | <2 |
| OC908S | 300 | 100 | <50 | 50 | <200 | 700 | <200 | 9 | 64 | .6 | <2 | <2 |
| OC909S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | 7 | 63 | .6 | <2 | <2 |
| OC910S | 300 | 150 | <50 | 50 | <200 | 1,500 | <200 | <5 | 83 | .8 | <2 | <2 |
| OC911S | 300 | 100 | <50 | 30 | <200 | 300 | <200 | <5 | 65 | .5 | <2 | <2 |
| OC912S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | <5 | 54 | .5 | <2 | <2 |
| OC913S | 300 | 70 | <50 | 30 | <200 | 300 | <200 | 6 | 61 | .5 | <2 | <2 |
| OC914S | 300 | 70 | <50 | 50 | <200 | 500 | <200 | 7 | 75 | .5 | <2 | <2 |
| OC915S | 500 | 70 | <50 | 30 | <200 | 300 | <200 | 7 | 64 | .5 | <2 | <2 |
| OC916S | 500 | 70 | <50 | 30 | <200 | 700 | <200 | <5 | 38 | .2 | <2 | <2 |
| OC917S | 200 | 70 | <50 | 30 | <200 | 300 | <200 | 6 | 61 | .4 | <2 | <2 |

Table 7.--Analyses of heavy-mineral concentrate samples, Honeycombs Wilderness Study Area (OR-005-77A), Malheur County, Oregon

[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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HC001HC3 | 43 19 26 | 117 18 13 | 1.5 | .20 | .5 | .5 | 200 | N | N | N | <20 | 200 |
| HC002HC3 | 43 18 57 | 117 17 43 | 1.5 | .05 | 1.0 | .5 | 200 | N | N | N | <20 | 500 |
| HC003HC3 | 43 18 21 | 117 17 22 | .7 | .20 | <.2 | .7 | 300 | N | N | N | 50 | 1,500 |
| HC004HC3 | 43 17 53 | 117 15 35 | 1.0 | .07 | .5 | .2 | 500 | N | N | N | <20 | 150 |
| HC005HC3 | 43 18 15 | 117 14 29 | 1.0 | .10 | <.2 | 1.5 | 700 | N | N | N | 50 | 500 |
| HC006HC3 | 43 20 7 | 117 18 44 | 2.0 | 1.00 | 2.0 | >2.0 | 1,000 | N | N | N | 30 | 1,000 |
| HC007HC3 | 43 21 46 | 117 18 6 | 1.0 | .20 | 5.0 | >2.0 | 200 | <1 | N | N | <20 | 700 |
| HC008HC3 | 43 23 6 | 117 18 20 | 1.5 | .50 | 30.0 | .1 | 200 | N | N | N | <50 | 700 |
| HC009HC3 | 43 29 55 | 117 16 52 | 1.0 | .10 | <.1 | 2.0 | 300 | <1 | N | N | 20 | >10,000 |
| HC010HC3 | 43 29 18 | 117 17 57 | 2.0 | .30 | <.1 | >2.0 | 300 | N | N | N | 20 | 5,000 |
| HC202MC3 | 43 19 49 | 117 14 25 | 10.0 | .50 | .7 | 2.0 | 2,000 | N | N | N | 70 | 700 |
| HC203MC3 | 43 21 55 | 117 16 0 | .3 | <.05 | <.1 | .2 | 200 | N | N | N | 20 | 5,000 |
| HC204MC3 | 43 22 24 | 117 15 25 | 2.0 | .15 | 1.0 | 1.0 | 500 | N | N | N | N | >10,000 |
| HC205MC3 | 43 26 52 | 117 15 13 | 10.0 | 7.00 | 15.0 | 2.0 | 2,000 | N | N | N | <20 | 300 |
| HC206MC3 | 43 27 29 | 117 16 19 | 10.0 | 10.00 | 15.0 | 1.0 | 2,000 | N | N | N | 50 | 200 |
| HC207MC3 | 43 27 31 | 117 16 13 | 10.0 | 7.00 | .1 | 1.5 | 3,000 | N | N | N | 20 | 100 |
| HC208MC3 | 43 27 30 | 117 16 9 | 15.0 | 10.00 | 20.0 | 1.0 | >10,000 | N | N | N | <20 | 2,000 |
| HC209MC3 | 43 24 50 | 117 17 45 | 10.0 | 7.00 | 20.0 | 2.0 | 1,500 | N | N | N | <20 | 1,000 |
| HC210MC3 | 43 24 51 | 117 17 58 | 15.0 | 10.00 | 15.0 | >2.0 | 2,000 | N | N | N | <20 | 200 |
| HC212MC3 | 43 24 24 | 117 18 42 | 10.0 | .50 | 10.0 | 1.5 | 1,500 | N | N | N | 300 | >10,000 |
| HC213MC3 | 43 29 52 | 117 16 52 | 1.0 | .20 | <.1 | >2.0 | 1,000 | N | N | N | 20 | 5,000 |
| HC214MC3 | 43 29 36 | 117 17 17 | 1.0 | .20 | 20.0 | >2.0 | 500 | N | N | N | <20 | >10,000 |
| HC215MC3 | 43 29 15 | 117 17 55 | 1.0 | .15 | <.2 | >5.0 | 300 | N | N | N | 50 | 3,000 |
| HC216MC3 | 43 29 52 | 117 18 12 | 2.0 | .70 | <.1 | 2.0 | 300 | N | N | N | 20 | 3,000 |
| HC217MC3 | 43 29 15 | 117 19 45 | 2.0 | 1.00 | <.1 | 1.0 | 1,000 | N | N | N | 20 | 1,000 |
| HC301KC3 | 43 20 18 | 117 16 13 | 3.0 | .50 | 1.0 | 1.5 | 2,000 | N | N | N | <20 | 7,000 |
| HC302KC3 | 43 21 4 | 117 16 33 | .7 | .05 | .3 | .3 | 200 | N | N | N | <20 | 500 |
| HC303KC3 | 43 21 52 | 117 16 55 | 10.0 | 2.00 | 1.0 | >2.0 | 10,000 | N | N | N | 20 | 2,000 |
| HC304KC3 | 43 20 8 | 117 13 55 | 5.0 | .50 | 1.0 | 2.0 | 1,000 | N | N | N | <20 | 200 |
| HC305KC3 | 43 20 30 | 117 14 0 | 1.0 | .07 | 1.5 | .7 | 200 | N | N | N | <20 | 200 |
| HC307KC3 | 43 22 44 | 117 16 25 | 2.0 | .20 | 1.0 | 1.5 | 1,000 | N | N | N | 20 | >10,000 |
| HC309KC3 | 43 24 20 | 117 15 15 | .7 | .10 | 10.0 | 2.0 | 500 | N | N | N | <20 | >10,000 |
| HC310KC3 | 43 28 59 | 117 16 44 | 5.0 | 1.50 | 10.0 | >2.0 | 1,000 | N | N | N | <20 | >10,000 |
| HC311KC3 | 43 28 42 | 117 17 45 | 10.0 | 5.00 | 15.0 | >2.0 | 1,500 | N | N | N | 30 | >10,000 |
| HC312KC3 | 43 28 37 | 117 18 8 | 2.0 | .50 | 10.0 | .3 | 200 | N | N | N | 70 | 5,000 |
| HC313KC3 | 43 28 45 | 117 18 38 | 2.0 | .50 | <.1 | .5 | 200 | N | N | N | 20 | 700 |
| HC314KC3 | 43 28 59 | 117 19 3 | 2.0 | .50 | 30.0 | >2.0 | 500 | <1 | N | N | <20 | 5,000 |
| HC315KC3 | 43 29 3 | 117 19 2 | 7.0 | 2.00 | 15.0 | >2.0 | 1,000 | N | N | N | N | 3,000 |
| HC316KC3 | 43 26 7 | 117 17 30 | 10.0 | 5.00 | 20.0 | 2.0 | 1,000 | N | N | N | 30 | 1,000 |
| HC317KC3 | 43 24 43 | 117 19 32 | .7 | .50 | <.1 | 2.0 | 300 | N | N | N | 70 | 3,000 |
| HC318KC3 | 43 24 5 | 117 18 15 | 7.0 | 3.00 | 20.0 | 1.5 | 2,000 | N | N | N | <20 | 2,000 |
| HC319KC3 | 43 25 55 | 117 19 55 | 10.0 | 10.00 | 15.0 | >2.0 | 2,000 | N | N | N | <20 | 10,000 |
| HC320KC3 | 43 27 23 | 117 20 3 | 2.0 | 1.50 | 15.0 | 1.0 | 500 | N | N | N | <20 | 1,500 |
| HC321KC3 | 43 27 13 | 117 18 30 | 15.0 | 5.00 | 10.0 | >2.0 | 3,000 | N | N | N | <20 | 500 |
| HC322KC3 | 43 31 29 | 117 19 15 | 7.0 | 5.00 | 15.0 | >2.0 | 1,500 | N | N | N | <20 | 300 |

Table 7.--Analyses of heavy-mineral concentrate samples, Honeycombs Wilderness Study Area (OR-005-77A), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HC001HC3 | N | N | N | N | <20 | N | 300 | N | N | 30 | N |
| HC002HC3 | 7 | N | N | N | 20 | N | 200 | N | N | 50 | N |
| HC003HC3 | 5 | N | N | N | 50 | <20 | 200 | N | N | 200 | N |
| HC004HC3 | 2 | N | N | N | <20 | N | N | N | N | 50 | N |
| HC005HC3 | 10 | N | N | N | 50 | <20 | 200 | N | N | 70 | N |
| HC006HC3 | <2 | N | N | N | 100 | 15 | 300 | N | <50 | 50 | N |
| HC007HC3 | 3 | N | N | N | <20 | N | 150 | N | N | 50 | N |
| HC008HC3 | N | N | N | N | <50 | N | 700 | N | N | <20 | N |
| HC009HC3 | N | N | N | N | <20 | <10 | <50 | N | <50 | <10 | N |
| HC010HC3 | N | N | N | N | <20 | 20 | 300 | N | 70 | 20 | N |
| HC202HC3 | 5 | N | N | N | 50 | <20 | 500 | N | <100 | 70 | N |
| HC203HC3 | <2 | N | N | N | N | <10 | 500 | N | N | 30 | N |
| HC204HC3 | <2 | N | N | N | 20 | <10 | 2,000 | N | N | 50 | N |
| HC205HC3 | <2 | N | N | 70 | 1,000 | 100 | 1,000 | N | <50 | 200 | 100 |
| HC206HC3 | <5 | N | N | 100 | 300 | 20 | 300 | N | N | 100 | N |
| HC207HC3 | <2 | N | N | 70 | 200 | 50 | 200 | N | <50 | 50 | 200 |
| HC208HC3 | 5 | N | N | 100 | 150 | 100 | 2,000 | N | N | 70 | 500 |
| HC209HC3 | <2 | N | N | 50 | 500 | 20 | 300 | 300 | N | 100 | 700 |
| HC210HC3 | <2 | N | N | 70 | 500 | 70 | 300 | <10 | 50 | 150 | 100 |
| HC212HC3 | 3 | N | N | N | 20 | 50 | 1,000 | 20 | 150 | 30 | 100 |
| HC213HC3 | 5 | N | N | N | <20 | N | 1,000 | N | N | <10 | N |
| HC214HC3 | <2 | N | N | N | <20 | 10 | 500 | N | 50 | <10 | N |
| HC215HC3 | N | N | N | N | N | <20 | 700 | N | 300 | <20 | N |
| HC216HC3 | N | N | N | N | 20 | 20 | 100 | N | <50 | 20 | N |
| HC217HC3 | N | N | N | N | 20 | 20 | 1,000 | 20 | N | 70 | N |
| HC301KC3 | <2 | N | N | N | 20 | <10 | N | N | N | 30 | 20 |
| HC302KC3 | N | N | N | N | <20 | N | 200 | N | N | 70 | N |
| HC303KC3 | 3 | N | N | N | 30 | 50 | >2,000 | N | 70 | 70 | 500 |
| HC304KC3 | <2 | N | N | N | 50 | 15 | 500 | N | 50 | 100 | N |
| HC305KC3 | N | N | N | N | 20 | N | <50 | N | N | 70 | N |
| HC307KC3 | <2 | N | N | N | 50 | 15 | 2,000 | N | N | 50 | N |
| HC309KC3 | 5 | N | N | N | <20 | N | 500 | N | N | 70 | N |
| HC310KC3 | <2 | N | N | 10 | 500 | 150 | >2,000 | 20 | 300 | 50 | N |
| HC311KC3 | <2 | N | N | 70 | 1,000 | 200 | 2,000 | 20 | 100 | 100 | <20 |
| HC312KC3 | 3 | N | N | N | 20 | 10 | 500 | N | N | <10 | N |
| HC313KC3 | 3 | N | N | N | 20 | 100 | 500 | N | <50 | 50 | N |
| HC314KC3 | N | N | N | N | <20 | N | 500 | N | N | 20 | N |
| HC315KC3 | <2 | N | N | 10 | 500 | 100 | 2,000 | 20 | 150 | 70 | 30 |
| HC316KC3 | <2 | N | N | 50 | 100 | 20 | 700 | N | N | 50 | N |
| HC317KC3 | 2 | N | N | N | 50 | 20 | 500 | N | <50 | 15 | N |
| HC318KC3 | 5 | N | N | N | 150 | 50 | 2,000 | 10 | N | 50 | 150 |
| HC319KC3 | <2 | N | N | 70 | 2,000 | 100 | 2,000 | N | 100 | 300 | 50 |
| HC320KC3 | N | N | N | N | 100 | N | 200 | N | N | 50 | N |
| HC321KC3 | 5 | N | N | 30 | 300 | 150 | >2,000 | N | 100 | 100 | 500 |
| HC322KC3 | <2 | N | N | 70 | 1,000 | 150 | >2,000 | 20 | 100 | 100 | 5,000 |

Table 7.--Analyses of heavy-mineral concentrate samples, Honeycombs Wilderness Study Area (OR-005-??), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|
| HC001HC3 | N | <10 | N | <200 | 50 | N | 3,000 | N | >2,000 | N |
| HC002HC3 | N | <10 | N | <200 | 20 | N | >5,000 | N | >2,000 | N |
| HC003HC3 | N | <20 | 100 | <500 | 50 | N | >5,000 | N | >5,000 | N |
| HC004HC3 | N | <10 | N | <200 | 30 | N | 3,000 | N | >2,000 | N |
| HC005HC3 | N | <20 | N | <500 | 100 | N | >5,000 | N | >5,000 | N |
| HC006HC3 | N | <10 | 700 | N | 100 | N | >5,000 | N | >2,000 | N |
| HC007HC3 | N | <10 | 1,000 | 200 | 150 | N | 1,500 | N | >2,000 | N |
| HC008HC3 | N | <20 | N | <500 | 50 | N | 5,000 | N | >5,000 | N |
| HC009HC3 | N | <10 | N | 1,000 | 50 | N | 500 | N | >2,000 | N |
| HC010HC3 | N | <10 | 20 | 500 | 300 | N | 500 | N | >2,000 | N |
| HC202MC3 | N | <20 | N | N | 100 | N | >10,000 | N | >5,000 | 700 |
| HC203MC3 | N | <10 | N | <200 | <20 | N | 3,000 | N | >2,000 | N |
| HC204MC3 | N | <10 | N | 7,000 | 30 | N | >5,000 | N | >2,000 | N |
| HC205MC3 | N | <10 | N | N | 500 | N | >5,000 | N | >2,000 | N |
| HC206MC3 | N | <20 | <50 | N | 500 | N | 300 | N | >5,000 | N |
| HC207MC3 | N | 20 | N | N | 500 | N | 100 | N | >2,000 | N |
| HC208MC3 | N | <10 | N | <200 | 500 | N | 5,000 | N | >2,000 | N |
| HC209MC3 | N | <10 | N | <200 | 500 | N | >5,000 | N | >2,000 | N |
| HC210MC3 | N | <10 | N | <200 | 500 | N | 5,000 | N | >2,000 | N |
| HC212MC3 | N | <10 | N | 2,000 | 50 | N | >5,000 | N | >2,000 | N |
| HC213MC3 | N | <10 | 70 | 700 | 200 | N | 1,000 | N | >2,000 | N |
| HC214MC3 | N | <10 | N | 10,000 | 100 | N | 1,500 | N | >2,000 | N |
| HC215MC3 | N | <20 | 100 | N | 200 | N | 1,500 | N | >5,000 | N |
| HC216MC3 | N | <10 | 100 | 500 | 100 | N | 500 | N | >2,000 | N |
| HC217MC3 | N | <10 | N | 1,000 | 100 | N | 1,000 | N | >2,000 | N |
| HC301KC3 | N | <10 | N | N | 20 | N | >5,000 | N | >2,000 | N |
| HC302KC3 | N | <10 | N | <200 | 30 | N | >5,000 | N | >2,000 | N |
| HC303KC3 | N | <10 | 200 | N | 100 | N | >5,000 | N | >2,000 | <200 |
| HC304KC3 | N | <10 | N | N | 70 | N | >5,000 | N | >2,000 | 500 |
| HC305KC3 | N | <10 | N | <200 | 50 | N | 3,000 | N | >2,000 | N |
| HC307KC3 | N | <10 | N | N | 50 | N | >5,000 | N | >2,000 | N |
| HC309KC3 | N | <10 | N | <200 | 50 | N | >5,000 | N | >2,000 | N |
| HC310KC3 | N | <10 | 100 | 1,500 | 200 | N | >5,000 | N | >2,000 | N |
| HC311KC3 | N | <10 | 70 | 1,000 | 300 | N | 5,000 | N | >2,000 | N |
| HC312KC3 | N | <10 | N | <200 | 30 | N | 2,000 | N | >2,000 | N |
| HC313KC3 | N | <10 | <20 | <200 | 70 | N | 2,000 | N | >2,000 | N |
| HC314KC3 | N | <10 | N | 500 | 150 | N | 1,000 | N | >2,000 | N |
| HC315KC3 | N | <10 | 100 | <200 | 200 | N | 5,000 | N | >2,000 | <200 |
| HC316KC3 | N | <10 | N | 700 | 300 | N | >5,000 | N | >2,000 | N |
| HC317KC3 | N | <10 | 100 | 300 | 100 | N | 1,500 | N | >2,000 | N |
| HC318KC3 | N | <10 | N | N | 100 | N | >5,000 | N | >2,000 | <200 |
| HC319KC3 | N | <10 | 50 | N | 300 | N | 5,000 | N | >2,000 | N |
| HC320KC3 | N | <10 | N | <200 | 100 | N | 1,500 | N | >2,000 | N |
| HC321KC3 | N | <10 | 50 | N | 300 | N | >5,000 | N | >2,000 | N |
| HC322KC3 | N | <10 | 100 | N | 300 | N | >5,000 | N | >2,000 | <200 |

Table 7.--Analyses of heavy-mineral concentrate samples, Honeycombs Wilderness Study Area (OR-005-77A), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HC401PC3 | 43 28 56 | 117 16 5 | 15.0 | 7.00 | 15.0 | >5.0 | 10,000 | N | N | N | 70 | 1,500 |
| HC402PC3 | 43 28 28 | 117 17 18 | 2.0 | .50 | <.1 | .2 | 200 | N | N | N | 20 | 1,500 |
| HC403PC3 | 43 25 37 | 117 18 45 | 20.0 | 7.00 | 10.0 | >2.0 | 2,000 | N | N | N | 20 | 300 |
| HC404PC3 | 43 25 36 | 117 19 20 | 2.0 | 1.00 | 10.0 | .5 | 150 | N | N | N | <20 | 1,500 |

Table 7.--Analyses of heavy-mineral concentrate samples, Honeycombs Wilderness Study Area (OR-005-??A), Malheur County, Oregon--Continued

| Sample | Be-ppm 5 | Bi-ppm 5 | Cd-ppm 5 | Co-ppm 5 | Cr-ppm 5 | Cu-ppm 5 | La-ppm 5 | Mo-ppm 5 | Nb-ppm 5 | Ni-ppm 5 | Pb-ppm 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HC401PC3 | <5 | N | N | 70 | 1,000 | 3,000 | 1,000 | 20 | 500 | 500 | 100 |
| HC402PC3 | N | N | N | N | <20 | <10 | 300 | N | 50 | <10 | N |
| HC403PC3 | 3 | N | N | 70 | 300 | 100 | >2,000 | N | 50 | 150 | 200 |
| HC404PC3 | N | N | N | N | <20 | N | N | N | N | <10 | N |

Table 7.--Analyses of heavy-mineral concentrate samples, Honeycombs Wilderness Study Area (OR-005-??W), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|
| HC401PC3 | N | <20 | 150 | 500 | 700 | N | 1,000 | N | >5,000 | N |
| HC402PC3 | N | <10 | N | 500 | 50 | N | 500 | N | >2,000 | N |
| HC403PC3 | N | <10 | N | N | 500 | N | >5,000 | N | >2,000 | N |
| HC404PC3 | N | <10 | N | 700 | 50 | N | 100 | N | >2,000 | N |

Table 8.--Analyses of heavy-mineral concentrate samples, Owyhee River Canyon Wilderness study area (OR-003-197), Malheur County, Oregon

[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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC027C3 | 42 23 31 | 117 6 42 | .7 | .10 | 2.0 | .05 | 70 | N | N | N | 20 | 7,000 |
| OC028C3 | 42 24 6 | 117 6 56 | 1.0 | .30 | 3.0 | .30 | 200 | N | N | N | 50 | 5,000 |
| OC033C3 | 42 27 52 | 117 12 46 | 1.0 | .30 | 2.0 | .30 | 200 | N | N | N | 50 | 5,000 |
| OC036C3 | 42 28 21 | 117 13 21 | 1.0 | .20 | 2.0 | .50 | 100 | N | N | N | 50 | 3,000 |
| OC038C3 | 42 30 2 | 117 13 28 | 1.0 | .30 | 2.0 | .30 | 100 | N | N | N | 30 | 3,000 |
| OC040C3 | 42 30 20 | 117 12 20 | 1.0 | .20 | 2.0 | .20 | 100 | N | N | N | 30 | 5,000 |
| OC042C3 | 42 31 49 | 117 11 4 | 1.0 | .10 | 2.0 | .20 | 100 | N | N | N | 30 | 3,000 |
| OC044C3 | 42 32 58 | 117 10 41 | 1.5 | .15 | 2.0 | .30 | 200 | N | N | N | 30 | 5,000 |
| OC045C3 | 42 33 46 | 117 11 3 | 1.0 | .15 | 2.0 | .20 | 100 | N | N | N | 50 | 10,000 |
| OC046C3 | 42 34 47 | 117 11 8 | 1.0 | .20 | 3.0 | .30 | 100 | N | N | N | 50 | 5,000 |
| OC047C3 | 42 35 9 | 117 11 26 | 1.5 | .50 | 10.0 | .20 | 200 | N | N | N | 20 | 7,000 |
| OC048C3 | 42 35 35 | 117 12 5 | 1.0 | .20 | 5.0 | .30 | 50 | N | N | N | 50 | 2,000 |
| OC049C3 | 42 36 11 | 117 13 10 | 1.0 | .15 | 2.0 | 1.00 | 100 | N | N | N | 30 | 2,000 |
| OC050C3 | 42 36 45 | 117 13 54 | 1.0 | .20 | 1.5 | .50 | 200 | N | N | N | 20 | 7,000 |
| OC051C3 | 42 38 21 | 117 14 22 | 2.0 | 1.00 | 20.0 | 2.00 | 500 | N | N | N | 70 | 3,000 |
| OC055C3 | 42 43 6 | 117 19 0 | 7.0 | 2.00 | 5.0 | 2.00 | 1,000 | N | N | N | <20 | 2,000 |
| OC056C3 | 42 43 9 | 117 19 28 | 15.0 | 2.00 | 3.0 | >2.00 | 2,000 | 1 | N | N | <20 | 1,500 |
| OC057C3 | 42 43 31 | 117 19 56 | 7.0 | 5.00 | 15.0 | 1.00 | 1,500 | N | N | N | <20 | 500 |
| OC058C3 | 42 43 40 | 117 20 43 | 3.0 | 1.00 | 3.0 | 2.00 | 500 | N | N | N | 20 | 1,000 |
| OC059C3 | 42 44 20 | 117 21 22 | 3.0 | 1.00 | 20.0 | >2.00 | 500 | 1 | N | N | 20 | 300 |
| OC060C3 | 42 44 42 | 117 21 11 | 3.0 | 1.00 | 15.0 | >2.00 | 700 | 3 | N | N | 50 | 500 |
| OC061C3 | 42 44 50 | 117 22 7 | 2.0 | .50 | 5.0 | 2.00 | 500 | N | N | N | 50 | 1,000 |
| OC062C3 | 42 44 55 | 117 23 26 | 5.0 | 1.50 | 5.0 | >2.00 | 700 | N | N | N | <20 | 500 |
| OC063C3 | 42 44 45 | 117 24 11 | 10.0 | 5.00 | 7.0 | 1.50 | 1,500 | N | N | N | <20 | 700 |
| OC065C3 | 42 46 28 | 117 29 4 | 5.0 | 1.50 | 7.0 | >2.00 | 1,000 | N | N | N | 50 | 500 |
| OC066C3 | 42 46 59 | 117 30 15 | 10.0 | 7.00 | 10.0 | >2.00 | 1,000 | N | N | N | 100 | 1,000 |
| OC067C3 | 42 47 4 | 117 32 28 | 2.0 | .50 | 10.0 | >2.00 | 500 | N | N | N | 20 | 1,000 |
| OC069C3 | 42 47 38 | 117 34 28 | 2.0 | 1.50 | 7.0 | >2.00 | 500 | N | N | N | 30 | 1,000 |
| OC070C3 | 42 47 27 | 117 35 17 | 1.5 | .70 | 15.0 | 2.00 | 300 | N | N | N | 50 | 1,000 |
| OC071C3 | 42 47 28 | 117 35 27 | 2.0 | 1.00 | 15.0 | >2.00 | 500 | N | N | N | 30 | 1,000 |
| OC201C3 | 42 47 8 | 117 29 22 | 2.0 | 1.00 | 15.0 | >2.00 | 1,000 | N | N | N | 50 | 5,000 |
| OC202C3 | 42 47 9 | 117 28 1 | 3.0 | 1.50 | 15.0 | >2.00 | 1,000 | N | N | N | 50 | 2,000 |
| OC203C3 | 42 45 57 | 117 21 38 | 2.0 | .50 | 10.0 | >2.00 | 500 | N | N | N | 50 | 5,000 |
| OC207C3 | 42 46 58 | 117 34 52 | 2.0 | 1.00 | 10.0 | >2.00 | 700 | N | N | N | 100 | 2,000 |
| OC208C3 | 42 46 28 | 117 31 52 | 2.0 | .50 | 15.0 | >2.00 | 700 | N | N | N | 50 | 1,500 |
| OC240C3 | 42 30 51 | 117 15 30 | 2.0 | 1.00 | 7.0 | 2.00 | 700 | N | N | N | 20 | 5,000 |
| OC210C3 | 42 45 25 | 117 28 48 | 1.5 | .20 | 15.0 | >2.00 | 700 | N | N | N | 50 | 1,000 |
| OC211C3 | 42 44 35 | 117 24 49 | 2.0 | .30 | 10.0 | >2.00 | 700 | N | N | N | 100 | 700 |
| OC212C3 | 42 44 10 | 117 22 58 | 3.0 | 1.00 | 10.0 | >2.00 | 1,000 | N | N | N | 50 | 1,000 |
| OC213C3 | 42 42 55 | 117 21 23 | 3.0 | .50 | 3.0 | >2.00 | 700 | N | N | N | 50 | 2,000 |
| OC214C3 | 42 42 48 | 117 19 34 | 2.0 | .50 | 3.0 | >2.00 | 500 | N | N | N | 50 | 2,000 |
| OC216C3 | 42 41 33 | 117 19 27 | 5.0 | 1.50 | 5.0 | >2.00 | 1,000 | N | N | N | 50 | 5,000 |
| OC217C3 | 42 41 10 | 117 18 34 | 2.0 | .20 | 3.0 | 2.00 | 300 | N | N | N | 50 | 5,000 |
| OC218C3 | 42 40 42 | 117 18 10 | 2.0 | .50 | 3.0 | >2.00 | 500 | N | N | N | 30 | 5,000 |
| OC219C3 | 42 39 55 | 117 17 28 | 5.0 | .50 | 2.0 | >2.00 | 1,000 | N | N | N | 20 | 3,000 |

Table 8.--Analyses of heavy-mineral concentrate samples, Owyhee River Canyonwilderness study area (OR-003-195), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OC027C3 | N | N | N | N | <20 | <10 | <50 | N | N | 15 | N |
| OC028C3 | N | N | N | N | 30 | <10 | 100 | N | N | 30 | N |
| OC033C3 | N | N | N | N | 20 | 10 | <50 | N | N | 30 | N |
| OC036C3 | N | N | N | N | 50 | <10 | N | N | N | 20 | N |
| OC038C3 | N | N | N | N | 20 | <10 | N | N | N | 15 | N |
| OC040C3 | N | N | N | N | 20 | <10 | N | N | N | 15 | N |
| OC042C3 | N | N | N | N | 20 | <10 | <50 | N | N | 15 | N |
| OC044C3 | N | N | N | N | 30 | 10 | N | N | N | 20 | N |
| OC045C3 | N | N | N | N | 20 | 10 | 100 | N | N | 20 | N |
| OC046C3 | N | N | N | N | 30 | 10 | 100 | N | N | 15 | N |
| OC047C3 | N | N | N | N | 20 | 10 | <50 | N | N | 20 | N |
| OC048C3 | N | N | N | N | <20 | <10 | N | N | N | 10 | N |
| OC049C3 | N | N | N | N | 20 | 10 | N | N | N | 20 | N |
| OC050C3 | N | N | N | N | 20 | 10 | N | N | N | 30 | N |
| OC051C3 | <2 | N | N | N | 100 | 20 | 200 | N | N | 30 | N |
| OC055C3 | <2 | N | N | 30 | 300 | 30 | 300 | N | N | 30 | N |
| OC056C3 | <2 | N | N | 70 | 2,000 | 200 | 500 | N | 50 | 50 | N |
| OC057C3 | <2 | N | N | 50 | 1,000 | 150 | 300 | N | N | 50 | N |
| OC058C3 | <2 | N | N | N | 200 | 50 | 300 | N | N | 50 | N |
| OC059C3 | N | N | N | N | 100 | 30 | 300 | N | 70 | 20 | N |
| OC060C3 | N | N | N | 10 | 200 | 30 | 300 | N | N | 30 | N |
| OC061C3 | <2 | N | N | N | 150 | 20 | 200 | N | N | 20 | N |
| OC062C3 | 3 | N | N | 20 | 300 | 70 | 300 | N | N | 70 | N |
| OC063C3 | N | N | N | 70 | 500 | 70 | 200 | N | N | 50 | N |
| OC065C3 | N | N | N | 20 | 200 | 100 | 500 | N | N | 30 | N |
| OC066C3 | N | N | N | 70 | 500 | 70 | 700 | N | 50 | 200 | N |
| OC067C3 | <2 | N | N | N | 100 | 30 | 500 | N | N | 10 | N |
| OC069C3 | <2 | N | N | N | 200 | 30 | 300 | N | N | 20 | N |
| OC070C3 | <2 | N | N | N | 50 | 15 | 200 | N | <50 | 15 | N |
| OC071C3 | <2 | N | N | N | 150 | 15 | 300 | N | <50 | 15 | N |
| OC201C3 | <2 | N | N | N | 200 | 30 | 1,000 | N | <50 | 20 | N |
| OC202C3 | <2 | N | N | N | 200 | 50 | 1,000 | N | 50 | 30 | N |
| OC203C3 | <2 | N | N | N | 50 | 15 | 200 | N | 50 | 20 | N |
| OC207C3 | <2 | N | N | N | 100 | 150 | 500 | N | N | 30 | N |
| OC208C3 | <2 | N | N | N | 50 | 20 | 1,000 | N | <50 | 20 | N |
| OC240C3 | <2 | N | N | N | 200 | 10 | 100 | N | N | 30 | N |
| OC210C3 | <2 | N | N | N | 30 | 30 | 1,000 | N | N | 20 | N |
| OC211C3 | <2 | N | N | N | 100 | 20 | 500 | N | N | 20 | N |
| OC212C3 | <2 | N | N | N | 150 | 70 | 700 | N | N | 50 | N |
| OC213C3 | <2 | N | N | N | 200 | 20 | 500 | N | N | 20 | N |
| OC214C3 | <2 | N | N | N | 50 | 150 | 200 | N | <50 | 20 | N |
| OC216C3 | <2 | N | N | N | 150 | 200 | 300 | N | N | 50 | N |
| OC217C3 | <2 | N | N | N | 50 | 10 | 200 | N | N | 20 | N |
| OC218C3 | N | N | N | N | 50 | 10 | 200 | N | N | 15 | N |
| OC219C3 | N | N | N | N | 30 | 20 | 300 | N | N | 20 | N |

Table 8.--Analyses of heavy-mineral concentrate samples, Owyhee River Canyon Wilderness study area (OR-005-195), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|
| OC027C3 | N | <10 | N | 500 | <20 | N | 200 | N | >2,000 | N |
| OC028C3 | N | <10 | <20 | 500 | 30 | N | 1,000 | N | >2,000 | N |
| OC033C3 | N | <10 | 100 | 500 | 30 | N | 1,500 | N | >2,000 | N |
| OC036C3 | N | <10 | 200 | 500 | 50 | N | 1,000 | N | >2,000 | N |
| OC038C3 | N | <10 | 70 | 300 | 20 | N | 500 | N | >2,000 | N |
| OC040C3 | N | <10 | N | 500 | 20 | N | 500 | N | >2,000 | N |
| OC042C3 | N | <10 | N | 500 | 20 | N | 500 | N | >2,000 | N |
| OC044C3 | N | <10 | N | 500 | 30 | N | 700 | N | >2,000 | N |
| OC045C3 | N | <10 | N | 500 | 30 | N | 1,000 | N | >2,000 | N |
| OC046C3 | N | <10 | N | 700 | 50 | N | 300 | N | >2,000 | N |
| OC047C3 | N | <10 | N | 700 | 50 | N | 200 | N | >2,000 | N |
| OC048C3 | N | <10 | N | 500 | 30 | N | 100 | N | >2,000 | N |
| OC049C3 | N | <10 | 300 | 300 | 50 | N | 1,000 | N | >2,000 | N |
| OC050C3 | N | <10 | N | 500 | 50 | N | 700 | N | >2,000 | N |
| OC051C3 | N | <10 | >2,000 | 500 | 150 | N | 700 | N | >2,000 | N |
| OC055C3 | N | <10 | <20 | 500 | 200 | N | 1,500 | N | >2,000 | N |
| OC056C3 | N | <10 | 20 | 200 | 300 | N | 1,000 | N | >2,000 | N |
| OC057C3 | N | <10 | 1,000 | 500 | 300 | N | 1,000 | N | >2,000 | N |
| OC058C3 | N | <10 | N | 300 | 150 | N | 1,000 | N | >2,000 | N |
| OC059C3 | N | <10 | N | 200 | 300 | N | 700 | N | >2,000 | N |
| OC060C3 | N | <10 | N | 500 | 300 | N | 700 | N | >2,000 | N |
| OC061C3 | N | <10 | 200 | 700 | 200 | N | 700 | N | >2,000 | N |
| OC062C3 | N | <10 | 300 | <200 | 200 | N | 1,500 | N | >2,000 | N |
| OC063C3 | N | <10 | N | <200 | 300 | N | 500 | N | >2,000 | N |
| OC065C3 | N | <10 | 70 | <200 | 300 | N | 700 | N | >2,000 | N |
| OC066C3 | N | <10 | 500 | 500 | 300 | N | 500 | N | >2,000 | N |
| OC067C3 | N | <10 | 500 | 700 | 200 | N | 700 | N | >2,000 | N |
| OC069C3 | N | <10 | 700 | 700 | 200 | N | 500 | N | >2,000 | N |
| OC070C3 | N | <10 | 300 | 1,000 | 200 | N | 500 | N | >2,000 | N |
| OC071C3 | N | <10 | 500 | 700 | 200 | N | 700 | N | >2,000 | N |
| OC201C3 | N | <10 | 700 | 500 | 500 | N | 1,000 | N | >2,000 | N |
| OC202C3 | N | <10 | >2,000 | 300 | 300 | N | 1,500 | N | >2,000 | N |
| OC203C3 | N | <10 | 2,000 | 1,000 | 200 | N | 1,000 | N | >2,000 | N |
| OC207C3 | N | <10 | 500 | 700 | 300 | N | 1,500 | N | >2,000 | N |
| OC208C3 | N | <10 | 70 | 300 | 300 | N | 1,500 | N | >2,000 | N |
| OC240C3 | N | <10 | <20 | 500 | 150 | N | 500 | N | >2,000 | N |
| OC210C3 | N | <10 | 700 | 200 | 500 | N | 1,500 | N | >2,000 | N |
| OC211C3 | N | <10 | 500 | 200 | 300 | N | 1,500 | N | >2,000 | N |
| OC212C3 | N | <10 | 1,500 | 200 | 300 | N | 2,000 | N | >2,000 | N |
| OC213C3 | N | <10 | 300 | 200 | 200 | N | 700 | N | >2,000 | N |
| OC214C3 | N | <10 | 500 | 300 | 200 | N | 1,000 | N | >2,000 | N |
| OC216C3 | N | <10 | >2,000 | 300 | 200 | N | 1,500 | N | >2,000 | N |
| OC217C3 | N | <10 | 700 | 500 | 150 | N | 1,000 | N | >2,000 | N |
| OC218C3 | N | <10 | 20 | 1,000 | 150 | N | 1,000 | N | >2,000 | N |
| OC219C3 | N | <10 | N | 300 | 150 | N | 1,500 | N | >2,000 | N |

Table 8.--Analyses of heavy-mineral concentrate samples, Owyhee River Canyon Wilderness Study Area (OR-005-137), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC220C3 | 42 39 4 | 117 17 23 | 1.0 | .10 | 2.0 | .70 | 100 | N | N | N | 20 | 5,000 |
| OC221C3 | 42 38 17 | 117 15 52 | 5.0 | .50 | 2.0 | >2.00 | 700 | N | N | N | 30 | 2,000 |
| OC222C3 | 42 37 48 | 117 17 1 | 2.0 | .10 | 1.5 | 1.50 | 200 | N | N | N | 20 | 2,000 |
| OC223C3 | 42 37 4 | 117 16 26 | 2.0 | .15 | 1.5 | 1.50 | 200 | N | N | N | 30 | 3,000 |
| OC224C3 | 42 36 51 | 117 15 56 | 5.0 | .20 | 2.0 | 2.00 | 1,000 | N | N | N | 20 | 5,000 |
| OC225C3 | 42 36 24 | 117 15 15 | 3.0 | .20 | 1.5 | >2.00 | 500 | N | N | N | 20 | 3,000 |
| OC228C3 | 42 33 55 | 117 11 55 | 5.0 | 2.00 | 3.0 | 2.00 | 70 | N | N | N | 30 | 5,000 |
| OC229C3 | 42 34 17 | 117 12 20 | 5.0 | .50 | 1.0 | >2.00 | 1,000 | N | N | N | 20 | 3,000 |
| OC230C3 | 42 34 22 | 117 12 56 | 3.0 | .30 | 1.5 | 1.50 | 500 | N | N | N | 20 | 10,000 |
| OC231C3 | 42 34 28 | 117 12 38 | 5.0 | .50 | 1.0 | >2.00 | 1,000 | N | N | N | 20 | 5,000 |
| OC232C3 | 42 34 57 | 117 13 30 | 5.0 | .20 | 2.0 | >2.00 | 500 | N | N | N | 30 | 10,000 |
| OC238C3 | 42 32 4 | 117 12 12 | 5.0 | 5.00 | 10.0 | >2.00 | 1,000 | N | N | N | 50 | 700 |
| OC241C3 | 42 28 33 | 117 15 19 | 5.0 | 1.00 | 10.0 | >2.00 | 1,000 | N | N | N | 30 | 2,000 |
| OC242C3 | 42 28 57 | 117 16 42 | 5.0 | 1.00 | 15.0 | >2.00 | 1,000 | N | N | N | 30 | 1,500 |
| OC243C3 | 42 26 58 | 117 17 49 | 2.0 | 2.00 | 10.0 | 2.00 | 700 | N | N | N | 30 | 1,500 |
| OC244C3 | 42 27 21 | 117 18 0 | 7.0 | 1.50 | 2.0 | >2.00 | 1,000 | N | N | N | 20 | 3,000 |
| OC245C3 | 42 27 10 | 117 17 22 | 5.0 | 1.50 | 2.0 | 2.00 | 1,000 | N | N | N | 20 | 5,000 |
| OC247C3 | 42 27 26 | 117 16 8 | 5.0 | 1.00 | 2.0 | 2.00 | 700 | N | N | N | 20 | 2,000 |
| OC248C3 | 42 7 52 | 117 18 55 | 2.0 | .50 | 2.0 | 2.00 | 300 | N | N | N | 20 | 1,500 |
| OC249C3 | 42 8 13 | 117 18 46 | 1.0 | .20 | 2.0 | 1.50 | 200 | N | N | N | 20 | 1,500 |
| OC250C3 | 42 8 16 | 117 18 47 | 3.0 | .70 | 5.0 | 2.00 | 500 | N | N | N | 20 | 3,000 |
| OC251C3 | 42 10 44 | 117 17 15 | 1.0 | .15 | 2.0 | 1.00 | 150 | N | N | N | 20 | 1,000 |
| OC252C3 | 42 10 47 | 117 17 16 | 2.0 | .50 | 5.0 | 2.00 | 500 | N | N | N | 30 | 1,500 |
| OC272C3 | 42 9 30 | 117 19 14 | 5.0 | .70 | 3.0 | .30 | 1,000 | N | N | N | <50 | 2,000 |
| OC276C3 | 42 9 19 | 117 17 11 | 5.0 | .15 | 1.0 | 1.50 | 500 | N | N | N | N | 1,000 |
| OC277C3 | 42 9 14 | 117 16 49 | 1.0 | .10 | 1.5 | .30 | 100 | N | N | N | <20 | 1,000 |
| OC278C3 | 42 9 8 | 117 16 48 | 1.5 | .10 | 1.0 | .50 | 150 | N | N | N | <20 | 1,000 |
| OC279C3 | 42 8 26 | 117 17 59 | 1.0 | .05 | .5 | .50 | 70 | N | N | N | 20 | 1,000 |
| OC280C3 | 42 8 20 | 117 18 1 | 1.0 | .10 | 1.0 | .70 | 150 | N | N | N | <20 | 1,500 |
| OC281C3 | 42 8 2 | 117 18 0 | 1.0 | .20 | 1.0 | .50 | 100 | N | N | N | <20 | 1,500 |
| OC282C3 | 42 8 1 | 117 18 3 | 1.5 | .20 | 1.5 | .70 | 150 | N | N | N | <20 | 1,500 |
| OC283C3 | 42 10 5 | 117 16 17 | 3.0 | 2.00 | 2.0 | 2.00 | 300 | N | N | N | <50 | 500 |
| OC284C3 | 42 10 4 | 117 16 18 | 2.0 | .20 | 1.0 | 2.00 | 200 | N | N | N | 20 | 1,000 |
| OC285C3 | 42 10 54 | 117 16 1 | 1.5 | .20 | 1.0 | .70 | 100 | N | N | N | <20 | 500 |
| OC287C3 | 42 11 45 | 117 15 26 | .7 | .10 | 1.5 | .10 | 50 | N | N | N | <20 | 7,000 |
| OC288C3 | 42 11 29 | 117 16 32 | 5.0 | .50 | 1.0 | 1.00 | 700 | N | N | N | <20 | 1,000 |
| OC289C3 | 42 12 20 | 117 15 7 | 1.0 | .50 | 1.5 | .50 | 150 | N | N | N | <20 | 2,000 |
| OC290C3 | 42 17 3 | 117 13 22 | 1.5 | .50 | 2.0 | 2.00 | 300 | N | N | N | <20 | 700 |
| OC291C3 | 42 18 3 | 117 14 48 | 1.5 | 1.00 | 5.0 | 2.00 | 300 | N | N | N | 30 | 1,500 |
| OC292C3 | 42 17 50 | 117 15 24 | 1.0 | 1.00 | 2.0 | 1.00 | 200 | N | N | N | <20 | 1,000 |
| OC293C3 | 42 12 41 | 117 10 7 | 2.0 | .50 | 1.0 | 1.00 | 200 | N | N | N | <20 | 1,000 |
| OC294C3 | 42 12 46 | 117 10 10 | 3.0 | 1.00 | 2.0 | 1.50 | 500 | N | N | N | <20 | 1,000 |
| OC295C3 | 42 12 48 | 117 9 59 | 2.0 | .20 | 1.5 | 1.00 | 200 | N | N | N | <20 | 700 |
| OC296C3 | 42 14 36 | 117 12 21 | 1.5 | .15 | 7.0 | >2.00 | 300 | N | N | N | <20 | 700 |
| OC297C3 | 42 13 58 | 117 12 33 | 2.0 | .20 | 5.0 | 2.00 | 200 | N | N | N | 20 | 1,000 |

Table 8.--Analyses of heavy-mineral concentrate samples, Owyhee River Canyonwilderness Study Area (OR-005-137), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OC220C3 | N | N | N | N | 30 | <10 | N | N | N | 10 | 70 |
| OC221C3 | N | N | N | N | 100 | 30 | 200 | N | <50 | 15 | N |
| OC222C3 | N | N | N | N | 30 | <10 | 100 | N | N | 10 | N |
| OC223C3 | <2 | N | N | N | 20 | 15 | <50 | N | N | 15 | N |
| OC224C3 | <2 | N | N | N | 50 | 20 | 200 | N | <50 | 15 | N |
| OC225C3 | N | N | N | N | 20 | 20 | 100 | N | N | 15 | N |
| OC228C3 | <2 | N | N | 10 | 700 | 20 | <50 | N | N | 70 | N |
| OC229C3 | N | N | N | N | 200 | 15 | 300 | N | N | 50 | N |
| OC230C3 | N | N | N | N | 100 | 15 | N | N | N | 20 | N |
| OC231C3 | <2 | N | N | N | 300 | 20 | N | N | N | 30 | N |
| OC232C3 | <2 | N | N | N | 100 | 20 | N | N | <50 | 20 | 50 |
| OC238C3 | 10 | N | N | 30 | 1,000 | 20 | 300 | N | 50 | 30 | N |
| OC241C3 | <2 | N | N | <10 | 100 | 20 | 100 | N | N | 30 | N |
| OC242C3 | <2 | N | N | N | 50 | 20 | 150 | N | N | 30 | N |
| OC243C3 | N | N | N | N | 300 | 15 | 200 | N | N | 50 | N |
| OC244C3 | N | N | N | 10 | 200 | 20 | 100 | N | N | 50 | N |
| OC245C3 | N | N | N | N | 100 | 200 | N | N | N | 30 | 1,500 |
| OC247C3 | N | N | N | N | 20 | 15 | 100 | N | N | 50 | N |
| OC248C3 | N | N | N | N | 70 | 10 | <50 | N | N | 30 | N |
| OC249C3 | N | N | N | N | 30 | <10 | <50 | N | N | 30 | N |
| OC250C3 | N | N | N | N | 50 | 20 | 200 | N | N | 50 | 500 |
| OC251C3 | 7 | N | N | N | <20 | <10 | 100 | N | N | 20 | N |
| OC252C3 | 5 | N | N | N | 20 | 15 | 200 | N | N | 20 | N |
| OC272C3 | 5 | N | N | N | 100 | 50 | 200 | N | N | 100 | N |
| OC276C3 | 3 | N | N | N | <50 | 30 | N | N | N | 50 | N |
| OC277C3 | 7 | N | N | N | <20 | <10 | <50 | N | N | 20 | N |
| OC278C3 | 3 | N | N | N | <20 | 10 | N | N | N | 30 | N |
| OC279C3 | 5 | N | N | N | <20 | <10 | N | N | N | 30 | N |
| OC280C3 | 10 | N | N | N | <20 | 10 | 100 | N | N | 30 | N |
| OC281C3 | 3 | N | N | N | 20 | <10 | 70 | N | N | 30 | N |
| OC282C3 | 5 | N | N | N | N | 15 | 70 | N | N | 30 | N |
| OC283C3 | 15 | N | N | N | 100 | 50 | N | N | N | 100 | N |
| OC284C3 | 7 | N | N | N | 50 | <10 | 50 | N | N | 20 | N |
| OC285C3 | 7 | N | N | N | <20 | 10 | <50 | N | N | 30 | N |
| OC287C3 | <2 | N | N | N | N | <10 | N | N | N | <10 | N |
| OC288C3 | 3 | N | N | N | 30 | 10 | <50 | N | N | 30 | N |
| OC289C3 | 5 | N | N | N | 20 | <10 | <50 | N | N | 50 | N |
| OC290C3 | 3 | N | N | N | 50 | 10 | 150 | N | N | 50 | N |
| OC291C3 | 2 | N | N | N | 100 | 10 | 100 | N | N | 50 | N |
| OC292C3 | 2 | N | N | N | 150 | 15 | <50 | N | N | 50 | N |
| OC293C3 | <2 | N | N | N | 50 | <10 | N | N | N | 30 | N |
| OC294C3 | <2 | N | N | N | 150 | 15 | <50 | N | N | 50 | N |
| OC295C3 | 3 | N | N | N | N | 10 | 150 | N | N | 30 | N |
| OC296C3 | 10 | N | N | N | <20 | 10 | 200 | N | N | 50 | N |
| OC297C3 | 2 | N | N | N | 50 | 10 | 200 | N | <50 | 30 | N |

Table 8.--Analyses of heavy-mineral concentrate samples, Owyhee River Canyonwilderness study area (OR-003-193), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|
| OC220C3 | N | <10 | >2,000 | 500 | 30 | N | 500 | N | >2,000 | N |
| OC221C3 | N | <10 | 200 | 300 | 100 | N | 1,000 | N | >2,000 | N |
| OC222C3 | N | <10 | 200 | 300 | 70 | N | 1,000 | N | >2,000 | N |
| OC223C3 | N | <10 | 1,000 | 300 | 70 | N | 1,500 | N | >2,000 | N |
| OC224C3 | N | <10 | >2,000 | 500 | 100 | N | 1,000 | N | >2,000 | N |
| OC225C3 | N | <10 | 20 | 300 | 100 | N | 1,000 | N | >2,000 | N |
| OC228C3 | N | <10 | 300 | 500 | 200 | N | 500 | N | >2,000 | N |
| OC229C3 | N | <10 | N | 300 | 100 | N | 1,500 | N | >2,000 | N |
| OC230C3 | N | <10 | 700 | 500 | 70 | N | 500 | N | >2,000 | N |
| OC231C3 | N | <10 | N | 500 | 100 | N | 1,000 | N | >2,000 | N |
| OC232C3 | N | <10 | >2,000 | 500 | 100 | N | 500 | N | >2,000 | N |
| OC238C3 | N | <10 | >2,000 | 500 | 300 | N | 500 | N | >2,000 | N |
| OC241C3 | N | <10 | N | 500 | 200 | N | 700 | N | >2,000 | N |
| OC242C3 | N | <10 | N | 500 | 200 | N | 1,500 | N | >2,000 | N |
| OC243C3 | N | <10 | N | 500 | 200 | N | 1,000 | N | >2,000 | N |
| OC244C3 | N | <10 | N | 500 | 150 | N | 1,000 | N | >2,000 | N |
| OC245C3 | N | <10 | N | 300 | 70 | N | 700 | N | >2,000 | N |
| OC247C3 | N | <10 | N | 300 | 150 | N | 1,500 | N | >2,000 | N |
| OC248C3 | N | <10 | N | 200 | 70 | N | 1,000 | N | >2,000 | N |
| OC249C3 | N | <10 | 500 | 200 | 70 | N | 1,500 | N | >2,000 | N |
| OC250C3 | N | <10 | 300 | 200 | 100 | N | 1,500 | N | >2,000 | N |
| OC251C3 | N | <10 | 200 | <200 | 100 | N | 1,000 | N | >2,000 | N |
| OC252C3 | N | <10 | 1,000 | 200 | 150 | N | 1,000 | N | >2,000 | N |
| OC272C3 | N | <20 | N | <500 | 200 | N | 3,000 | N | >5,000 | N |
| OC276C3 | N | <20 | N | <500 | 100 | N | 1,000 | N | >5,000 | N |
| OC277C3 | N | <10 | N | <500 | 30 | N | 1,000 | N | >2,000 | N |
| OC278C3 | N | <10 | <20 | N | 50 | N | 1,000 | N | >2,000 | N |
| OC279C3 | N | <10 | N | 200 | 20 | N | 700 | N | >2,000 | N |
| OC280C3 | N | <10 | 300 | <200 | 50 | N | 1,000 | N | >2,000 | N |
| OC281C3 | N | <10 | N | <200 | 30 | N | 1,000 | N | >2,000 | N |
| OC282C3 | N | <10 | 200 | 200 | 50 | N | 1,500 | N | >2,000 | N |
| OC283C3 | N | <20 | N | N | 150 | N | 1,500 | N | >5,000 | N |
| OC284C3 | N | <10 | 300 | <200 | 70 | N | 1,000 | N | >2,000 | N |
| OC285C3 | N | <10 | 300 | <200 | 50 | N | 1,000 | N | >2,000 | N |
| OC287C3 | N | <10 | N | 200 | <20 | N | 500 | N | >2,000 | N |
| OC288C3 | N | <10 | N | <200 | 70 | N | 700 | N | >2,000 | N |
| OC289C3 | N | <10 | N | <200 | 30 | N | 700 | N | >2,000 | N |
| OC290C3 | N | <10 | 700 | <200 | 70 | N | 1,000 | N | >2,000 | N |
| OC291C3 | N | <10 | 70 | 300 | 100 | N | 700 | N | >2,000 | N |
| OC292C3 | N | <10 | >2,000 | 300 | 70 | N | 700 | N | >2,000 | N |
| OC293C3 | N | <10 | 100 | 200 | 70 | N | 700 | N | >2,000 | N |
| OC294C3 | N | <10 | 300 | 200 | 100 | N | 1,000 | N | >2,000 | N |
| OC295C3 | N | <10 | 200 | 200 | 70 | N | 1,000 | N | >2,000 | N |
| OC296C3 | N | <10 | 70 | 200 | 100 | N | 1,500 | N | >2,000 | N |
| OC297C3 | N | <10 | 2,000 | 200 | 100 | N | 700 | N | >2,000 | N |

Table 8.--Analyses of heavy-mineral concentrate samples, Owyhee River Canyon Wilderness Study Area (OR-005-193), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC299C3 | 42 26 27 | 117 12 55 | 2.0 | .10 | 2.0 | 1.00 | 100 | N | N | N | <20 | 700 |
| OC300C3 | 42 23 20 | 117 13 32 | 2.0 | .70 | 3.0 | .50 | 150 | N | N | N | <20 | 3,000 |
| OC302C3 | 42 23 8 | 117 13 58 | 5.0 | 3.00 | 2.0 | 2.00 | 1,000 | N | N | N | 20 | 2,000 |
| OC303C3 | 42 28 0 | 117 15 10 | 7.0 | 2.00 | 2.0 | >2.00 | 1,000 | N | N | N | 30 | 2,000 |
| OC305C3 | 42 27 18 | 117 15 17 | 5.0 | 1.50 | 2.0 | 2.00 | 1,000 | N | N | N | 50 | 2,000 |
| OC306C3 | 42 21 33 | 117 15 5 | 2.0 | 1.00 | 3.0 | 1.00 | 500 | N | N | N | 30 | 2,000 |
| OC307C3 | 42 21 40 | 117 15 18 | 2.0 | 2.00 | 5.0 | .70 | 700 | N | N | N | 30 | 3,000 |
| OC308C3 | 42 20 59 | 117 15 21 | 3.0 | 3.00 | 7.0 | .70 | 1,000 | N | N | N | 50 | 1,000 |
| OC310C3 | 42 26 18 | 117 13 30 | 2.0 | 1.00 | 5.0 | .50 | 300 | N | N | N | 30 | 5,000 |
| OC311C3 | 42 26 20 | 117 13 27 | 2.0 | 1.00 | 5.0 | 1.00 | 500 | N | N | N | 30 | 5,000 |
| OC315C3 | 42 25 23 | 117 13 10 | 2.0 | .15 | 3.0 | .50 | 200 | N | N | N | 20 | 7,000 |
| OC600C3 | 42 13 15 | 117 13 10 | 2.0 | .70 | 3.0 | 2.00 | 300 | N | N | N | 50 | 1,500 |
| OC601C3 | 42 15 32 | 117 9 17 | 1.5 | .15 | 2.0 | 2.00 | 200 | N | N | N | 30 | 1,000 |
| OC602C3 | 42 17 50 | 117 12 46 | 1.0 | .15 | 2.0 | 1.00 | 200 | N | N | N | 30 | 1,000 |
| OC605C3 | 42 16 11 | 117 12 59 | 1.5 | .15 | 3.0 | 1.50 | 300 | N | N | N | 50 | 1,500 |
| OC606C3 | 42 16 6 | 117 12 22 | 1.5 | .20 | 2.0 | .50 | 150 | N | N | N | 30 | 2,000 |
| OC607C3 | 42 19 54 | 117 13 27 | 2.0 | .30 | 2.0 | 1.50 | 200 | N | N | N | 30 | 1,000 |
| OC608C3 | 42 19 51 | 117 13 34 | 1.5 | .15 | 2.0 | 1.00 | 200 | N | N | N | 30 | 1,500 |
| OC609C3 | 42 21 52 | 117 12 8 | 1.5 | .10 | 1.5 | .50 | 150 | N | N | N | 20 | 1,500 |
| OC610C3 | 42 21 52 | 117 10 43 | 1.5 | .30 | 2.0 | .30 | 150 | N | N | N | 20 | 3,000 |
| OC702C3 | 42 9 18 | 117 15 48 | 1.0 | .10 | .5 | 1.50 | 150 | N | N | N | 30 | 200 |
| OC703C3 | 42 11 39 | 117 14 43 | 2.0 | 1.00 | 5.0 | >2.00 | 500 | N | N | N | 30 | 500 |
| OC705C3 | 42 14 3 | 117 14 6 | 2.0 | .70 | 5.0 | >2.00 | 300 | N | N | N | 30 | 700 |
| OC800C3 | 42 12 47 | 117 13 34 | 2.0 | 1.50 | 5.0 | >2.00 | 500 | N | N | N | 70 | 300 |
| OC801C3 | 42 15 15 | 117 9 17 | 2.0 | 1.50 | 5.0 | >2.00 | 500 | N | N | N | 100 | 1,500 |
| OC802C3 | 42 16 16 | 117 9 20 | 3.0 | 1.50 | 5.0 | >2.00 | 700 | N | N | N | 100 | 1,000 |
| OC803C3 | 42 31 58 | 117 12 12 | 2.0 | 1.00 | 5.0 | >2.00 | 500 | N | N | N | 50 | 1,500 |
| OC804C3 | 42 32 4 | 117 12 1 | 2.0 | 1.50 | 5.0 | 2.00 | 500 | N | N | N | 70 | 1,500 |
| OC805C3 | 42 17 7 | 117 9 41 | 3.0 | 1.00 | 2.0 | 1.50 | 500 | N | N | N | 50 | 2,000 |
| OC807C3 | 42 18 27 | 117 9 22 | 1.5 | .50 | 2.0 | 1.00 | 150 | N | N | N | 70 | 3,000 |
| OC808C3 | 42 18 47 | 117 9 22 | 2.0 | .70 | 2.0 | 1.00 | 300 | N | N | N | 50 | 1,500 |
| OC809C3 | 42 18 56 | 117 9 19 | 2.0 | .70 | 2.0 | .70 | 200 | N | N | N | 50 | 700 |
| OC810C3 | 42 20 9 | 117 9 41 | 5.0 | 5.00 | 10.0 | 1.50 | 1,000 | N | N | N | 50 | 1,000 |
| OC811C3 | 42 20 43 | 117 10 10 | 2.0 | .30 | 1.0 | .50 | 200 | N | N | N | 50 | 2,000 |
| OC812C3 | 42 21 12 | 117 9 51 | 3.0 | 2.00 | 2.0 | 2.00 | 500 | N | N | N | 50 | 300 |
| OC813C3 | 42 21 54 | 117 10 9 | 2.0 | 1.50 | 5.0 | 2.00 | 500 | N | N | N | 70 | 1,000 |
| OC814C3 | 42 19 45 | 117 10 31 | 2.0 | .30 | 2.0 | 1.00 | 300 | N | N | N | 50 | 1,000 |
| OC816C3 | 42 21 42 | 117 5 8 | 3.0 | 1.50 | 5.0 | >2.00 | 700 | N | N | N | 70 | 300 |
| OC817C3 | 42 23 41 | 117 8 10 | 3.0 | 1.50 | 5.0 | 2.00 | 500 | N | N | N | 70 | 1,000 |
| OC818C3 | 42 20 2 | 117 6 36 | 3.0 | 1.50 | 5.0 | >2.00 | 500 | N | N | N | 70 | 1,000 |
| OC819C3 | 42 23 23 | 117 10 19 | 1.5 | 1.00 | 5.0 | >2.00 | 500 | N | N | N | 20 | 500 |
| OC820C3 | 42 25 15 | 117 11 5 | 3.0 | 1.50 | 5.0 | >2.00 | 700 | N | N | N | 20 | 200 |
| OC821C3 | 42 25 27 | 117 10 57 | 5.0 | 2.00 | 10.0 | >2.00 | 1,500 | N | N | N | 70 | 2,000 |
| OC822C3 | 42 25 11 | 117 12 25 | 7.0 | 3.00 | 10.0 | >2.00 | 1,500 | N | N | N | 100 | 1,000 |
| OC900C3 | 42 9 28 | 117 18 12 | 5.0 | .70 | 3.0 | 2.00 | 1,000 | N | N | N | 50 | 2,000 |

Table 8.--Analyses of heavy-mineral concentrate samples, Owyhee River Canyonwilderness study area (UH-003-193), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0C299C3 | 5 | N | N | N | N | <10 | N | N | N | <10 | N |
| 0C300C3 | <2 | N | N | N | 70 | <10 | 100 | N | N | 30 | N |
| 0C302C3 | N | N | N | 15 | 500 | 15 | 70 | N | N | 70 | N |
| 0C303C3 | N | N | N | 10 | 100 | 50 | 100 | N | N | 50 | N |
| 0C305C3 | N | N | N | N | 150 | 50 | 150 | N | N | 50 | N |
| 0C306C3 | N | N | N | N | 100 | 20 | 100 | N | N | 30 | N |
| 0C307C3 | N | N | N | N | 150 | 20 | 200 | N | N | 50 | N |
| 0C308C3 | N | N | N | 10 | 500 | 20 | <50 | N | N | 70 | N |
| 0C310C3 | N | N | N | N | 100 | 10 | 70 | N | N | 30 | N |
| 0C311C3 | N | N | N | N | 100 | 15 | 200 | N | N | 20 | N |
| 0C315C3 | N | N | N | N | 20 | <10 | 100 | N | N | 15 | N |
| 0C600C3 | N | N | N | N | 50 | 15 | 150 | N | N | 30 | N |
| 0C601C3 | N | N | N | N | 100 | 10 | 100 | N | N | 50 | N |
| 0C602C3 | N | N | N | N | 20 | 10 | 100 | N | N | 50 | 300 |
| 0C605C3 | N | N | N | N | 20 | 10 | 150 | N | N | 50 | N |
| 0C606C3 | N | N | N | N | 20 | 10 | 70 | N | N | 20 | N |
| 0C607C3 | N | N | N | N | 100 | 15 | 200 | N | N | 50 | N |
| 0C608C3 | N | N | N | N | 20 | 15 | 200 | N | N | 50 | N |
| 0C609C3 | N | N | N | N | 20 | <10 | <50 | N | N | 30 | N |
| 0C610C3 | N | N | N | N | 20 | <10 | N | N | N | 20 | N |
| 0C702C3 | N | N | N | N | 30 | <10 | <50 | N | N | 70 | N |
| 0C703C3 | N | N | N | N | 200 | 20 | 700 | N | N | 50 | N |
| 0C705C3 | N | N | N | N | 200 | 15 | 200 | N | N | 50 | N |
| 0C800C3 | N | N | N | N | 150 | 15 | 500 | N | 50 | 50 | N |
| 0C801C3 | N | N | N | N | 100 | 20 | 300 | N | N | 30 | 20 |
| 0C802C3 | N | N | N | N | 200 | 20 | 300 | N | N | 50 | N |
| 0C803C3 | N | N | N | N | 500 | 20 | 500 | N | N | 30 | N |
| 0C804C3 | N | N | N | N | 500 | 15 | 200 | N | N | 50 | N |
| 0C805C3 | N | N | N | N | 100 | 20 | <50 | N | N | 30 | 100 |
| 0C807C3 | N | N | N | N | 50 | 15 | 100 | N | N | 20 | N |
| 0C808C3 | N | N | N | N | 30 | 15 | 100 | N | N | 20 | N |
| 0C809C3 | N | N | N | N | 50 | 10 | 100 | N | N | 20 | N |
| 0C810C3 | <2 | N | N | 30 | 700 | 30 | 200 | N | N | 100 | N |
| 0C811C3 | N | N | N | N | 20 | <10 | N | N | N | 15 | N |
| 0C812C3 | N | N | N | 10 | 500 | 20 | N | <10 | <50 | 100 | N |
| 0C813C3 | N | N | N | N | 500 | 15 | 300 | N | N | 50 | N |
| 0C814C3 | N | N | N | N | 30 | 10 | <50 | N | <50 | 20 | N |
| 0C816C3 | N | N | N | <10 | 700 | 30 | 700 | N | N | 70 | N |
| 0C817C3 | N | N | N | N | 1,000 | 50 | 300 | N | N | 70 | N |
| 0C818C3 | N | N | N | <10 | 500 | 30 | 500 | N | N | 50 | N |
| 0C819C3 | N | N | N | N | 200 | 15 | 200 | N | N | 15 | N |
| 0C820C3 | N | N | N | 15 | 1,000 | 30 | 300 | N | N | 100 | N |
| 0C821C3 | N | N | N | 10 | 2,000 | 30 | 500 | N | N | 50 | N |
| 0C822C3 | <2 | N | N | 30 | 2,000 | 100 | 1,000 | N | N | 100 | N |
| 0C900C3 | N | N | N | N | 100 | 20 | 300 | N | N | 20 | N |

Table 8.--Analyses of heavy-mineral concentrate samples, Owyhee River CanyonWilderness study area (OR-003-195), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|
| OC299C3 | N | <10 | N | <200 | 50 | N | 700 | N | >2,000 | N |
| OC300C3 | N | <10 | >2,000 | 200 | 70 | N | 700 | N | >2,000 | N |
| OC302C3 | N | <10 | N | 300 | 200 | N | 1,000 | N | >2,000 | N |
| OC303C3 | N | <10 | N | 300 | 200 | N | 1,000 | N | >2,000 | N |
| OC305C3 | N | <10 | N | 300 | 200 | N | 1,500 | N | >2,000 | N |
| OC306C3 | N | <10 | 300 | 700 | 150 | N | 500 | N | >2,000 | N |
| OC307C3 | N | <10 | 1,500 | 500 | 150 | N | 500 | N | >2,000 | N |
| OC308C3 | N | <10 | N | 700 | 200 | N | 200 | N | >2,000 | N |
| OC310C3 | N | <10 | 2,000 | 700 | 70 | N | 700 | N | >2,000 | N |
| OC311C3 | N | <10 | 1,000 | 300 | 100 | N | 1,000 | N | >2,000 | N |
| OC315C3 | N | <10 | 700 | 500 | 30 | N | 1,000 | N | >2,000 | N |
| OC600C3 | N | <10 | 2,000 | 700 | 200 | N | 1,500 | N | >2,000 | N |
| OC601C3 | N | <10 | 200 | 500 | 100 | N | 1,500 | N | >2,000 | N |
| OC602C3 | N | <10 | N | 500 | 100 | N | 1,500 | N | >2,000 | N |
| OC605C3 | N | <10 | N | 500 | 100 | N | 1,500 | N | >2,000 | N |
| OC606C3 | N | <10 | 100 | 500 | 50 | N | 1,000 | N | >2,000 | N |
| OC607C3 | N | <10 | >2,000 | 500 | 100 | N | 1,000 | N | >2,000 | N |
| OC608C3 | N | <10 | 70 | 500 | 100 | N | 1,500 | N | >2,000 | N |
| OC609C3 | N | <10 | N | 500 | 70 | N | 1,000 | N | >2,000 | N |
| OC610C3 | N | <10 | N | 500 | 30 | N | 500 | N | >2,000 | N |
| OC702C3 | N | <10 | 200 | 200 | 70 | N | 2,000 | N | >2,000 | N |
| OC703C3 | N | <10 | 50 | 300 | 200 | N | 1,500 | N | >2,000 | N |
| OC705C3 | N | <10 | 200 | 300 | 200 | N | 1,500 | N | >2,000 | N |
| OC800C3 | N | <10 | 30 | N | 300 | N | 1,000 | N | >2,000 | N |
| OC801C3 | N | <10 | N | 700 | 200 | N | 700 | N | >2,000 | N |
| OC802C3 | N | <10 | N | 300 | 200 | N | 1,000 | N | >2,000 | N |
| OC803C3 | N | <10 | 500 | 300 | 200 | N | 1,000 | N | >2,000 | N |
| OC804C3 | N | <10 | N | 300 | 200 | N | 700 | N | >2,000 | N |
| OC805C3 | N | <10 | N | 200 | 70 | N | 500 | N | >2,000 | N |
| OC807C3 | N | <10 | N | 300 | 50 | N | 500 | N | >2,000 | N |
| OC808C3 | N | <10 | N | 300 | 100 | N | 700 | N | >2,000 | N |
| OC809C3 | N | <10 | N | 200 | 100 | N | 700 | N | >2,000 | N |
| OC810C3 | N | <10 | N | 300 | 300 | N | 300 | N | >2,000 | N |
| OC811C3 | N | <10 | N | 200 | 30 | N | 700 | N | >2,000 | N |
| OC812C3 | N | <10 | N | 200 | 200 | N | 1,000 | N | >2,000 | N |
| OC813C3 | N | <10 | 500 | 300 | 200 | N | 1,000 | N | >2,000 | N |
| OC814C3 | N | <10 | N | 200 | 100 | N | 1,000 | N | >2,000 | N |
| OC816C3 | N | <10 | 100 | 200 | 300 | N | 1,500 | N | >2,000 | N |
| OC817C3 | N | <10 | 150 | 300 | 200 | N | 500 | N | >2,000 | N |
| OC818C3 | N | <10 | N | 500 | 200 | N | 700 | N | >2,000 | N |
| OC819C3 | N | <10 | 50 | 500 | 150 | N | 500 | N | >2,000 | N |
| OC820C3 | N | <10 | 700 | 200 | 200 | N | 1,000 | N | >2,000 | N |
| OC821C3 | N | <10 | 20 | 500 | 500 | N | 1,500 | N | >2,000 | N |
| OC822C3 | N | <10 | 1,000 | 200 | 500 | N | 2,000 | N | >2,000 | <200 |
| OC900C3 | N | <10 | N | 200 | 200 | N | 2,000 | N | >2,000 | N |

Table 8.--Analyses of heavy-mineral concentrate samples, Owyhee River CanyonWilderness study area (OR-005-157), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0C901C3 | 42 9 30 | 117 18 12 | 7.0 | .50 | 1.5 | >2.00 | 1,000 | N | N | N | 70 | 1,500 |
| 0C902C3 | 42 9 14 | 117 17 18 | 5.0 | .70 | 2.0 | 2.00 | 1,000 | N | N | N | 70 | 2,000 |
| 0C903C3 | 42 14 4 | 117 12 35 | 2.0 | 1.00 | 15.0 | >2.00 | 500 | N | N | N | 70 | 1,500 |
| 0C904C3 | 42 15 48 | 117 14 8 | 3.0 | .50 | 2.0 | >2.00 | 700 | N | N | N | 50 | 500 |
| 0C905C3 | 42 15 44 | 117 14 9 | 5.0 | .50 | 3.0 | 2.00 | 1,000 | N | N | N | 70 | 3,000 |
| 0C906C3 | 42 16 49 | 117 12 26 | 2.0 | .70 | 3.0 | 2.00 | 700 | N | N | N | 50 | 1,500 |
| 0C907C3 | 42 20 5 | 117 14 18 | 3.0 | 1.00 | 3.0 | 2.00 | 1,000 | N | N | N | 50 | 1,500 |
| 0C908C3 | 42 20 6 | 117 14 17 | 3.0 | 1.00 | 2.0 | 2.00 | 1,000 | N | N | N | 50 | 1,000 |
| 0C909C3 | 42 21 47 | 117 14 8 | 2.0 | .70 | 2.0 | .50 | 700 | N | N | N | 100 | 5,000 |
| 0C910C3 | 42 21 48 | 117 14 11 | 2.0 | .50 | 1.0 | 1.50 | 700 | N | N | N | 70 | 500 |
| 0C911C3 | 42 22 20 | 117 14 4 | 3.0 | 1.00 | 3.0 | 1.00 | 700 | N | N | N | 70 | 3,000 |
| 0C913C3 | 42 23 8 | 117 13 25 | 3.0 | 1.00 | 3.0 | 1.00 | 100 | N | N | N | 50 | 10,000 |
| 0C914C3 | 42 23 33 | 117 13 18 | 3.0 | 1.00 | 3.0 | 1.50 | 1,500 | N | N | N | 50 | 3,000 |

Table 8.--Analyses of heavy-mineral concentrate samples, Owyhee River Canyon Wilderness Study Area (OR-003-153), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OC901C3 | N | N | N | N | 70 | 20 | N | N | N | 20 | N |
| OC902C3 | N | N | N | N | 100 | 30 | 100 | N | N | 20 | N |
| OC903C3 | N | N | N | N | 200 | 30 | 500 | N | <50 | 20 | N |
| OC904C3 | N | N | N | N | 100 | 15 | <50 | N | N | 20 | N |
| OC905C3 | N | N | N | N | 200 | 10 | <50 | N | N | 20 | N |
| OC906C3 | N | N | N | N | 20 | 20 | 100 | N | N | 20 | N |
| OC907C3 | N | N | N | N | 20 | 20 | <50 | N | N | 20 | N |
| OC908C3 | N | N | N | N | 20 | 20 | <50 | N | N | 20 | N |
| OC909C3 | N | N | N | N | 30 | 15 | 100 | N | N | 20 | N |
| OC910C3 | N | N | N | N | 200 | 10 | 100 | N | N | 20 | N |
| OC911C3 | N | N | N | N | 200 | 15 | 100 | N | N | 20 | N |
| OC913C3 | N | N | N | N | 50 | 50 | <50 | N | N | 20 | N |
| OC914C3 | N | N | N | N | 30 | 10 | 300 | N | N | 20 | N |

Table 8.--Analyses of heavy-mineral concentrate samples, Owyhee River Canyon Wilderness Study Area (OR-003-193), Malheur County, Oregon--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 |
|---|---|---|---|---|---|---|---|---|---|---|
| OC901C3 | N | <10 | >2,000 | 200 | 200 | N | 5,000 | N | >2,000 | N |
| OC902C3 | N | <10 | 70 | 200 | 200 | N | 2,000 | N | >2,000 | N |
| OC903C3 | N | <10 | 500 | 200 | 300 | N | 1,500 | N | >2,000 | N |
| OC904C3 | N | <10 | N | <200 | 200 | N | 3,000 | N | >2,000 | N |
| OC905C3 | N | <10 | 300 | 200 | 200 | N | 1,500 | N | >2,000 | N |
| OC906C3 | N | <10 | 500 | 200 | 200 | N | 2,000 | N | >2,000 | N |
| OC907C3 | N | <10 | 1,000 | 200 | 100 | N | 2,000 | N | >2,000 | N |
| OC908C3 | N | <10 | 500 | 200 | 100 | N | 3,000 | N | >2,000 | N |
| OC909C3 | N | <10 | 700 | 500 | 50 | N | 700 | N | >2,000 | N |
| OC910C3 | N | <10 | N | <200 | 70 | N | 1,500 | N | >2,000 | N |
| OC911C3 | N | <10 | N | 300 | 100 | N | 1,000 | N | >2,000 | N |
| OC913C3 | N | <10 | N | 700 | 100 | N | 1,000 | N | >2,000 | N |
| OC914C3 | N | <10 | N | 300 | 100 | N | 1,500 | N | >2,000 | N |