UNITED STATES DEPARTMENT OF THE INTERIOR
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**Analytical results and sample locality map for rock
samples from the Detroit mining district,
Juab and Millard Counties, Utah**

by

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STUDIES RELATED TO CUSMAP

This report presents results of analyses from a geochemical survey of the Detroit mining district, Utah. Geochemical samples were collected as one of several multidisciplinary studies associated with the Conterminous United States Mineral Assessment Program (CUSMAP). Geochemical results of analyses for rock samples collected from nearby areas, as well as other rock samples collected from the Detroit district, are in Zimbelman and others (1991). Results from heavy-mineral concentrate and stream sediment samples from the Delta 1⁰ x 2⁰ quadrangle are in Arbogast and others (1990a,b).

INTRODUCTION

Beginning in 1986 and continuing through 1989, the U.S. Geological Survey conducted a geochemical survey of the Detroit mining district, Juab and Millard Counties, Utah. The study area is in west-central Utah, approximately 20 miles northwest of Delta, and is about 120 mi southwest of Salt Lake City, Utah (fig 1). The Detroit mining district includes the Drum gold mine, from which about 120,000 oz of gold were recovered by open-pit mining methods (Nutt and others, in press).

The geology of the Detroit district and surrounding areas is included in maps and descriptions by Bailey (1974), Lindsey (1979, 1982), Nutt and Yambrick (1989), and Nutt and others (in press). The district is underlain by Proterozoic to Cambrian quartzite and subordinate shale, Cambrian carbonate rocks and subordinate shale, and Eocene to Oligocene igneous rocks.

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METHODS OF STUDY

Sample Media

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

Figure 1--Index location map of the Detroit mining district, west-central Utah.

Sample Collection

A total of 283 rock samples were collected from the study area (plate 1). Each sample site was assigned a unique four-digit sample number; where multiple samples were collected at the same site, the samples were assigned suffixes to the four-digit numbers (e.g., 5408A, 5408B etc.). Rock samples were collected from outcrops or mine dumps in the vicinity of the plotted site location. Samples include highly-altered material that was intentionally collected ("high-graded") to gain an understanding of the geochemistry of different types of alteration and mineralization within the mineral systems.

Sample Preparation

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

Sample Analysis

Spectrographic method

The rock samples were analyzed for 31 (samples collected in 1986 and 1987) or 35 (samples collected in 1988) elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their lower limits of determination are listed in table 2. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Analytical data from the spectrographic analyses are listed in table 4.

Chemical methods

Other methods of analysis used on samples from the study area are summarized in table 3. Elements analyzed for include Au, As, Sb, Bi, Cd, Zn, Hg, and F. Gold analyses were obtained using an atomic absorption spectroscopy method described by Thompson and others (1968). Arsenic, Sb, Bi, Cd, and Zn were analyzed by an inductively coupled plasma-atomic emission spectrometric method described by Crock and others (1987) who report varying precisions for the individual elements that generally range from 2 to 12 percent relative standard deviation. Mercury was analyzed by a modification of the atomic absorption

method described by Crock and others (1987) who report a precision of between 1.2 and 5 percent relative standard deviation for the method. Fluorine was analyzed by an ion selective electrode method described by Hopkins (1977); precision of this method is generally about eight percent relative standard deviation (Crock and others, 1987). Results of analyses for the rock samples are listed in tables 4.

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 TABLE

Table 4 list the results of analyses for the rock samples. The data are arranged so that column 1 contains the USGS-assigned sample numbers. These numbers correspond to the numbers shown on the site location map (plate 1).

Columns in which the element headings show the letter s below the element symbol are emission spectrographic analyses; aa, icp, ise, or cv represent other methods of analysis, as summarized in table 4. A letter "N" in table 4 indicates that a given element was looked for but not detected at the lower limit of determination shown for that element in table 2. If an element was observed in the spectrographic analyses but was below the lowest reporting value, a "less than" symbol (<) was entered in table 4 in front of the lower limit of determination. If an element was observed in the spectrographic analyses but was above the highest reporting value, a "greater than" symbol (>) was entered in the table in front of the upper limit of determination. If an element was not looked for in a sample, two dashes (--) are entered in the table in place of an analytical value. Because of the formatting used in the computer program that produced the table some of the elements (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.

Values determined for the major elements (Fe, Mg, Ca, Ti, Na, P, and F) are given in weight percent; all others are given in parts per million (micrograms/gram).

SAMPLE DESCRIPTIONS

Succinct descriptions of the samples, with information provided during field examinations, are provided in appendix 1. Where appropriate, appendix 1 is formatted with the following

information, based on field observations: color, texture, mineralogy, alteration, and other comments.

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TABLE 1--ROCK SAMPLES COLLECTED FROM THE VICINITIES OF SELECTED, MINES AND PROSPECTS, DETROIT MINING DISTRICT, UTAH.

<u>MINE OR PROSPECT</u>	<u>SAMPLE SITES</u>
Charm mine	3083
Drum gold mine, northeast pit	3196, 3198, 3353, 3354, 3467, 3468, 3469, 3470, 3471, 3472, 3473, 3474, 3476, 3477, 3478, 3479, 3480, 3481, 3482, 3483, 3484, 3485, 3486, 3487
Drum gold mine, southwest pit	3185, 3186, 3188, 3190, 3191, 3192, 3193, 3194, 3195, 3488, 3490, 3492, 3493
Drum gold mine, other areas	3300, 3322, 3339, 3340, 3355
Eldorado mine	3332, 3333
Ibex mine	3082
Keystone mine	3291
Martha mine	3085, 3342, 3343, 3344, 3345

TABLE 2.--Limits of determination for the spectrographic analysis of rocks based on a 10-mg sample.

Elements	Lower determination limit	Upper determination limit
Percent		
Calcium (Ca)	.05	20
Iron (Fe)	0.05	20
Magnesium (Mg)	.02	10
Sodium (Na)	0.2	5
Phosphorus (P)	0.2	10
Titanium (Ti)	.002	1
Parts per million		
Silver (Ag)	0.5	5,000
Arsenic (As)	200	10,000
Gold (Au)	10	500
Boron (B)	10	2,000
Barium (Ba)	20	5,000
Beryllium (Be)	1	1,000
Bismuth (Bi)	10	1,000
Cadmium (Cd)	20	500
Cobalt (Co)	10	2,000
Chromium (Cr)	10	5,000
Copper (Cu)	5	20,000
Gallium (Ga)	5	500
Germanium (Ge)	10	100
Lanthanum (La)	50	1,000
Manganese (Mn)	10	5,000
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
Thorium (Th)	100	2,000
Vanadium (V)	10	10,000
Tungsten (W)	20	10,000
Yttrium (Y)	10	2,000
Zinc (Zn)	200	10,000
Zirconium (Zr)	10	1,000

TABLE 3.--Chemical methods and lower limits of determination

[AA, atomic absorption; AACV, atomic absorption cold vapor; ICP, inductively coupled argon plasma-atomic emission spectrographic; ISE, ion selective electrode; all values in parts per million]

Element	Method	Limit of Determination	Reference
Gold (Au)	AA	0.05	Thompson and others, 1968
Arsenic (As)	ICP	5	Crock and others, 1987
Antimony (Sb)	ICP	2	and <u>modification of</u>
Zinc (Zn)	ICP	2	O'Leary and Viets, 1986
Bismuth (Bi)	ICP	2	
Cadmium (Cd)	ICP	.1	
Mercury (Hg)	CV	0.02	Crock and others, 1987
Fluorine (F)	ISE	100	Hopkins, 1977

Appendix 1--Succinct descriptions of rock samples collected from the Detroit mining district, Utah. Descriptions are generally formatted as follows: color of fresh rock; texture; mineralogy; and comments. Descriptions are based on field examinations. Abbreviations are: Cu=copper, Fe=iron, Mn=manganese, cm=centimeters, m=meters, mm=millimeters. Samples marked * are from the northeast pit of the Drum gold mine; samples marked ** are from the southwest pit of the Drum gold mine.

SAMPLE No.	DESCRIPTION
3043A	Clay --yellow; very fine grained; clay; altered shale(?) fragment in pebble dike
3043B	Porphyry --tan and white; porphyritic; clay-altered plagioclase phenocrysts in fine-grained matrix; fragment in pebble dike
3043C	Pebble dike matrix --white; fine-grained; clay; fine-grained porphyry material probably granulated porphyry fragments
3073A	Silicified carbonate --gray; layered; quartz, pyrite, Fe-oxides; stained yellow, from dump
3073B	Jasperoid --gray; microcrystalline, brecciated; quartz, Fe-oxides; stained red and orange
3074A	Altered shale --purple; thin-bedded, contorted; clay, Fe-oxides
3074B	Altered shale --white; thin-bedded; clay
3074C	Jasperoid --tan; microcrystalline, brecciated to massive; quartz; black to brown on surface
3074D	Limestone --gray; thick-bedded; fine- to medium-grained; calcite cut by calcite veins; country rock near workings
3075	Bleached limestone --white; medium- to coarse-grained; calcite; recrystallized limestone
3076	Breccia --brown to gray; brecciated; angular to rounded quartz fragments, Fe-oxides; purple color on surface
3079	Dolostone --gray; medium-grained; dolomite
3080A	Porphyry --Gray; porphyritic; hornblende, plagioclase, biotite phenocrysts, sulfide along fractures
3080B	Altered porphyry --green-gray; porphyritic; plagioclase, biotite phenocrysts in clay matrix
3082A	Clay + oxides --White, red, purple; white clay set in red to purple matrix; clay, Fe-oxides; probably porphyritic rock or pebble dike with igneous component
3082B	Limestone --Gray; fine-grained; calcite; cut by calcite veins; from mine dump
3082C	Jasperoid --Gray; fine-grained, vuggy, brecciated; quartz, Fe-oxides; yellow stain
3083A	Limestone --Gray; fine-grained, calcite; cut by calcite veins; from mine dump
3083B	Jasperoid --Gray; brecciated; quartz, Fe-oxides; yellow and red stain

3083C **Altered dike**--white with red specks; medium-grained, equigranular; clay, hematite; from mine dump

3084 **Jasperoid**--tan to red-gray; fine-grained, brecciated; quartz

3085A **Jasperoid**--tan to pink; brecciated, relict bedding; quartz, Fe-oxides; red to green stain

3085B **Shaly limestone**--yellow; thin-bedded; calcite, clays; from mine dump

3086A **Replacement**--gray; fine-grained; quartz, disseminated sulfides; replacing carbonate, from mine dump

3086B **Porphyry**--gray; porphyritic with clay-altered feldspar phenocrysts in fine-grained matrix; clay, sulfide, Fe-oxides; stained yellow, from mine dump

3086C **Mn-oxides**--black; fine-grained, massive; Mn-oxides; from Mn mine

3087 **Jasperoid**--gray; fine- to medium-grained, massive, relict rounded quartz pebbles; quartz; stained black and red, replaced pebble dike

3088A **Shale**--gray; fine-grained, thin-bedded; red-brown on surface

3088B **Limestone**--Gray; medium-grained, thick-bedded, slightly recrystallized; calcite; cut by calcite veins

3089A **Clay zone**--gray to purple; fine-grained; clay; probably altered intrusive or shale

3089B **Silicified carbonate**--gray; medium-grained; quartz, Fe-oxides; yellow stain

3127 **Silicified pebble dike**--pink and white; brecciated; quartzite pebbles and clay-altered shale fragments in jasperoid (quartz) matrix

3128 **Porphyry**--green; porphyritic; feldspar, hornblende phenocrysts in green fine-grained matrix

3185A** **Altered shale**--white to green; fine-grained, contorted; clay, sulfide

3185B** **Pebble dike matrix**--red-brown; fine-grained; quartz, Fe-oxides; probably granulated quartz pebbles

3186** **Altered porphyry**--white; porphyritic, clay-altered feldspar phenocrysts in fine-grained matrix; clay, sulfide

3188A** **Limestone**--gray; fine-grained, thick bedded; calcite; minor calcite veins and yellow stain along fractures

3188B** **Limestone**--gray; medium-grained, sheared, slightly recrystallized; calcite; minor blebs of yellow stain

3188C** **Limestone**--gray; fine-grained, thin-bedded; calcite

3190** **Limestone**--gray; fine-grained, thin-bedded; calcite, Fe-oxides on surface

3191A** **Limestone**--gray; fine-grained, thin-bedded; calcite, minor Fe-oxides; yellow stain along fractures and on surface

3191B** **Limestone**--red; pisolithic; calcite

3192** **Altered carbonate**--salt and pepper; medium-grained; carbonate mineral, sulfide, quartz

3193** **Limestone**--gray; fine-grained, thin-bedded; calcite,

sulfide along fractures and bedding

3194** **Shale**--green; thin-bedded; green (chlorite?) blebs

3195** **Jasperoid**--green; microcrystalline; quartz

3196A* **Shale**--green; thin-bedded; sulfide

3196B* **Shale**--brown; thin-bedded; altered 196A shale, no visible sulfide

3198* **Jasperoid**--blue-gray; fine-grained; quartz, sulfide, secondary oxides; stained green-yellow, float

3203 **Silicified porphyry**--gray; porphyritic to fine-grained; quartz, secondary oxides; stained reddish brown

3207 **Porphyry**--black; porphyritic; fine-grained feldspar, hornblende, biotite phenocrysts in very fine grained matrix

3212 **Porphyry**--gray green; porphyritic, medium-grained feldspar, hornblende, biotite, quartz phenocrysts in fine-grained matrix; green on weathered surface

3214 **Marble**--white; medium-grained, recrystallized; calcite

3215A **Porphyry**--gray; porphyritic, medium-grained feldspar, hornblende phenocrysts in very fine grained matrix

3215B **Porphyry**--gray; microcrystalline; probably chill margin

3218 **Porphyry**--gray; fine-grained phenocrysts in microcrystalline matrix

3219A **Porphyry**--green; porphyritic; coarse-grained quartz, feldspar, biotite, hornblende phenocrysts; from prospect pit

3219B **Clay-altered porphyry**--greenish-white with red specks; clay, hematite

3219C **Altered rock**--green; quartz, Fe-oxides, secondary Cu minerals; sample pebble size, stained green

3220 **Tuff**--green-gray; medium-grained; feldspar, quartz, biotite phenocrysts, about 2% inclusions; chloritized biotite

3222 **Clay zone**--white; fine-grained; clay; from prospect pit

3224 **Altered porphyry**--green to orange; medium-grained; secondary oxides

3226 **Porphyry**--green-gray; porphyritic; medium-grained hornblende, feldspar, quartz, biotite phenocrysts in aphanitic matrix

3227 **Porphyry**--green-gray; feldspar, quartz, biotite phenocrysts in aphanitic groundmass; propylitically altered

3228 **Clay zone**--white; fine-grained; clay

3229 **Jasperoid**--gray to red; microcrystalline, relict breccia; quartz, Fe-oxides; stained black to red

3231 **Replacement**--red, yellow, orange; quartz, Fe-oxides; from prospect pit

3249 **Mn-oxides**--black, yellow; fine-grained, massive; Mn-oxides

3276A **Jasperoid**--yellow; fine-grained, vuggy; quartz, secondary oxides; cut by thin quartz vein, from prospect pit along fissure in tuff

3276B **Jasperoid**--red; fine-grained, vuggy; quartz, Fe-oxides;

from prospect pit along fissure in tuff
 3283 **Altered porphyry**--white; vuggy; clay; from breccia complex
 3284A **Altered porphyry**--red; porphyritic; silicified and clay-replaced phenocrysts; quartz, clay, Fe-oxides; from breccia complex
 3284B **Pebble dike**--red and yellow; brecciated; quartzite pebbles, quartz, Fe-oxides
 3287A **Gouge zone**--orange; very fine grained to fine-grained; clay, secondary oxides; along fault
 3287B **Limestone**--gray; medium-grained, massive, slightly vuggy; calcite, dolomite(?); adjacent to fault
 3288B **Pebble dike matrix**--orange to purple; vuggy; clay, Fe-oxides
 3289B **Breccia matrix**--white, yellow, green; fine-grained, vuggy; clay
 3291 **Marble**--white; medium-grained, massive, recrystallized limestone; calcite
 3292B **Porphyry**--gray-green; porphyritic; coarse-grained feldspar, hornblende phenocrysts in very fine-grained matrix; propylitically altered
 3294B **Clay**--white, yellow, red; fine-grained; clay, Fe-oxides; altered shale
 3294C **Replacement**--yellow, orange; fine-grained; Fe-oxides, clay
 3295 **Shale**--brown; thin-bedded; unaltered
 3296 **Marble**--white; medium- to coarse-grained, recrystallized limestone; calcite
 3298 **Shale**--green, brown; thin-bedded; not altered
 3299 **Altered porphyry**--white, yellow; porphyritic; quartz, clay
 3300 **Altered porphyry/pebble dike**--gray; porphyritic; clay
 3302A **Pebble dike**--red, yellow, white; liesegang banding; quartz, clay matrix
 3302B **Pebble dike**--yellow, white; vuggy; quartzite, porphyry pebbles in clay, secondary oxide matrix
 3303 **Pebble dike matrix**--gray; fine to medium-grained; quartz
 3305 **Pebble dike, igneous matrix**--yellow, purple, white; brecciated; clay, quartz, Fe-oxides; partially silicified
 3306 **Quartzite**--fine to medium-grained; quartz; black stain, from shear zone
 3307A **Pebble dike, igneous material**--yellow; porphyritic; clay, secondary oxides
 3307B **Pebble dike, quartzite**--gray to yellow; fine-grained; quartz; black stain
 3319A **Pebble dike**--gray; brecciated; quartz, Fe-oxides; red stain
 3319B **Pebble dike**--gray; brecciated; quartz, Fe-oxides; red, yellow stain
 3322 **Quartzite**--red, purple; fine-grained; quartz, hematite

3323 **Quartzite**--red, purple; fine-grained; quartz, hematite
 3325A **Altered porphyry**--gray; porphyritic; clay altered phenocrysts; from adit
 3325B **Clay breccia matrix**--orange to purple; fine-grained; clay, secondary oxides; from adit
 3325C **Jasperoid**--gray; massive, vuggy, fine-grained; quartz, Fe-oxides; stained yellow, from dump
 3325D **Quartzite**--gray to white; fine-grained, fractured; quartz, secondary oxides; yellow, blue, black stain, float
 3326A **Jasperoid**--gray; massive, vuggy, microcrystalline; quartz, Fe-oxides; stained red, vugs filled with euhedral quartz
 3326B **Jasperoid**--gray; thinly banded, microcrystalline; quartz, Fe-oxides; red stain
 3326C **Limestone**--gray; thick-bedded, silty layers; calcite; calcite veins along fractures
 3327A **Jasperoid**--gray; microcrystalline, sheared; quartz; red-brown on surface; from prospect
 3327B **Recrystallized limestone**--gray and white; medium-grained, layered; calcite; from prospect dump
 3327C **Altered rock**--red, brown; fine-grained, sheared; Fe-oxides; probably shale, from prospect
 3327D **Replacement**--yellow; fine to medium-grained; secondary oxides; from prospect pit
 3328A **Oxides**--Black; microcrystalline, frothy; oxides; from mine workings
 3328B **Oxides**--yellow; fine-grained, friable; oxides; from mine workings
 3328C **Recrystallized limestone**--white; medium-grained, thinly bedded, calcite
 3328D **Limestone**--gray; medium-grained, thick-bedded; calcite; country rock, not visibly altered
 3328E **Oxides**--purple to yellow; fine-grained, frothy; oxides; from dump of prospect pit
 3329A **Jasperoid**--gray to tan; microcrystalline, massive to brecciated; quartz; secondary Cu minerals; green, blue stain; from mine
 3329B **Replacement**--brown; fine-grained, vuggy; secondary oxides, clay; from mine
 3329C **Recrystallized limestone**--white; medium-grained, brecciated; calcite; from mine
 3330A **Jasperoid**--gray, tan red; fine- to medium-grained, brecciated to massive; quartz, Fe-oxides
 3330B **Gouge**--white, yellow; fine-grained; clay, secondary oxides
 3330C **Oxide**--red; hematite balls about 3 mm across; in gouge zone
 3330D **Replacement**--yellow; massive; secondary oxides, quartz
 3330E **Replacement**--gray to white; fine-grained, friable; quartz; sanded carbonate
 3331A **Oxides**--black; very fine grained, massive, frothy; Fe-

	oxides; from mined fault zone
3331B	Oxides --red, yellow; fine-grained, massive, frothy, friable; Fe-oxides from mined fault zone
3331C	Carbonate vein --coarse-grained, euhedral
3331D	Jasperoid --gray, pink; fine-grained, massive; quartz, Fe-oxides; overlies mine workings
3332A	Limestone --gray; fine- to medium-grained, thin- to thick-bedded; calcite
3332B	Dolostone --white; recrystallized; dolomite; from mine area
3332C	Clay gouge zone --white, yellow; fine-grained; clay from mine
3332D	Oxides --yellow, red, black; fine-grained, massive, frothy; secondary oxides; from mine
3332E	Recrystallized limestone --white; medium-grained, vuggy; calcite; unoxidized ore
3332F	Jasperoid --gray green; microcrystalline, massive; quartz; from mine area
3333	Jasperoid --gray, pink; microcrystalline to fine-grained, massive to thinly layered; quartz, Fe-oxides; orange to red-brown stain
3334A	Jasperoid --gray, pink; microcrystalline to fine-grained, massive to brecciated; quartz; jasperoid overlying mine workings
3334B	Clay --white, yellow; fine-grained; clay, Fe-oxides; from beneath jasperoid, similar to ore zone
3336	Quartzite --gray; fine-grained, shattered; quartz; yellow and red stain along fractures
3337A	Quartzite --red, purple; fine- to medium-grained; quartz, Fe-oxides
3337B	Quartzite --yellow; fine- to medium-grained, vuggy; quartz, Fe-oxides; float
3339A	Quartzite --white, yellow, red; thin-bedded; quartzite, Fe-oxides; along fault
3339B	Dolostone --gray; medium-grained; dolomite; Tatow member of Pioche Formation
3340	Jasperoid --gray; microcrystalline, banded; quartz; float at prospect
3342	Recrystallized limestone --white; medium- to coarse-grained; calcite
3343	Recrystallized limestone --white; coarse-grained; calcite
3344	Altered limestone --tan; fine-grained, thin-bedded; calcite, dolomite(?); brown on outcrop
3345	Limestone --gray to white; fine-grained, slightly recrystallized; calcite
3346A	Jasperoid --red; very fine grained, massive, slightly vuggy; quartz, Fe-oxides; float at prospect pit
3346B	Jasperoid --gray; very fine grained, vuggy, sheared; quartz, secondary oxides; orange stain, from dump
3346C	Fe-oxides --black, purple; fine- to coarse-grained, vuggy; Fe-oxides; from dump

3346D	Dolostone --gray; medium-grained; dolomite; brown on outcrop, country rock
3347	Jasperoid --gray, red, orange; vuggy, cut by calcite veins; quartz, Fe-oxides; float
3348A	Porphyry --green gray; porphyritic, sheared; medium-grained feldspar, biotite phenocrysts in aphanitic matrix, yellow oxide blebs
3348B	Replacement --yellow; fine-grained, vuggy, leached; secondary oxides; from prospect pit
3349	Carbonate --brecciated; carbonate minerals, secondary oxides; cut by thin calcite veins
3350A	Altered carbonate --yellow; fine-grained, vuggy, leached; carbonate minerals, secondary oxides; from mine
3350B	Clay zone --white, red, yellow, orange; fine-grained; clay, Fe-oxides; from mine
3350C	Mn-oxides --black; fine- to medium-grained, vuggy, massive; Mn-oxides; from mine
3351	Jasperoid --red; microcrystalline, massive; quartz, Fe-oxides
3353*	Jasperoid --white; microcrystalline; fragment in pebble dike; quartz; red to green on surface
3354*	Altered igneous rock --White; fine-grained; clay
3355	Quartzite --black; fine-grained; quartz
3363	Quartz vein --white; subparallel to bedding; quartz, minor oxide staining along fractures
3369	Quartzite --red; brecciated; quartz
3377	Quartzite --red; fine-grained, brecciated; quartz
3378	Fe-oxides --black; frothy, massive; Fe-oxides; float
3379	Porphyry --white; porphyritic; clay
3380	Red stained gouge from pebble dike --red; fine-grained; quartz, Fe-oxides
3381	Oxides from pebble dike --black; frothy; oxides; matrix material
3385	Altered porphyry --gray; porphyritic; clay, quartz; float
3386	Quartzite breccia --red; brecciated; quartz, Fe-oxides
3388	Stained pebble dike in quartzite --red to black; brecciated; oxides; black stain on fractures
3390A	Jasperoid --green; microcrystalline; quartz; inclusions in quartzite breccia
3390B	Oxide coating --black; fine-grained; oxides; coating on fractures
3390C	Quartzite breccia --white; brecciated; quartz; rehealed breccia
3394	Oxide-coated rock along fault --white; oxides, clay; yellow on surface, probably altered igneous rock
3398	Oxide-coated quartzite --black; fine-grained; quartz, oxide; shattered quartzite
3406	Jasperoid --tan; microcrystalline, massive; quartz
3408	Jasperoid --tan; microcrystalline, massive; quartz, black oxide blebs

- 3409 **Jasperoid**--gray-green; microcrystalline, massive; quartz; slight black stain
- 3410 **Altered porphyry**--gray-green; medium-grained, porphyritic; quartz, plagioclase phenocrysts; silicified, blue stain
- 3411 **Oxide**--black; fine-grained, frothy; oxides
- 3413 **Jasperoid**--yellow; microcrystalline; quartz; along fault in quartzite
- 3467A* **Jasperoid**--tan; microcrystalline; stained red-brown; quartz; early jasperoid
- 3467B* **Pebble dike**--white to yellow; brecciated; clay, Fe-oxide; cuts jasperoid in 3467a
- 3468B* **Gouge**--orange; fine-grained; secondary oxides; in Tatow member of Pioche Formation
- 3468C* **Clay**--fine-grained; in shear zone; clay; altered shale(?)
- 3469* **Tuff**--yellowish green; porphyritic; large muscovite grains; slightly altered
- 3470A* **Altered igneous rock**--white to purple; friable; clay, quartz; in breccia zone
- 3470B* **Jasperoid**--gray; microcrystalline; quartz; along high-angle fault, gray to pink on surface
- 3470C* **Jasperoid**--gray; microcrystalline; brecciated; quartz; along high-angle fault, black on surface
- 3471* **Jasperoid**--gray; microcrystalline; quartz; along high-angle fault
- 3472A* **Clay zone**--microcrystalline; breccia zone
- 3472B* **Pebble dike matrix**--granulated carbonate
- 3473A* **Pebble dike matrix**--white, orange; fine-grained, liesegang banding; clay, secondary oxides
- 3473B* **Jasperoid**--gray; microcrystalline, brecciated; quartz, Fe-oxides; stained red
- 3473C* **Quartz-rich rock**--gray; fine-grained quartz with disseminated clay blebs; pebble dike(?)
- 3473D* **Porphyry fragment in pebble dike**--gray to white; porphyritic; clay
- 3473E* **Jasperoid**--green; microcrystalline, fractured; quartz
- 3473F* **Jasperoid**--black; microcrystalline, fractured; quartz
- 3473G* **Jasperoid**--red; microcrystalline, fractured; quartz
- 3474B* **Oxide**--brown to orange; fine-grained, sheared; oxides; in fault zone
- 3474C* **Clay-altered shale**--white; fine-grained; clay; lower member of the Pioche Formation
- 3476* **Clay-altered igneous rock**--white, red, orange; fine-grained; clay, Fe-oxides; in Tertiary conglomerate
- 3477* **Jasperoid**--black, red; microcrystalline; quartz
- 3478* **Altered carbonate**--brown, red, orange; friable, rubbly; oxides, carbonate
- 3479* **Oxide replacement**--black; fine-grained; oxides; in lowermost carbonate unit
- 3480* **Clay-altered shale**--gray, orange; fine-grained; clay, sericite; lower member of the Pioche Formation

3481* **Jasperoid**--gray; microcrystalline; red-brown on surface; quartz
 3482* **Clay-altered felsite**--white; fine-grained, porphyritic; quartz phenocrysts, clay and quartz matrix
 3483* **Jasperoid**--black; fine-grained; quartz; black to red-orange on surface, cuts and replaces felsite
 3484* **Oxide replacement**--red-brown; earthy; oxides, cut by calcite veins; replaces lowermost carbonate unit
 3485* **Oxide replacement**--red-brown; earthy; oxides; replaces of lowermost carbonate unit
 3486* **Shale**--green-yellow; fine-grained; clay, sulfide; lower member of the Pioche Formation
 3487* **Clay-altered igneous rock**--white, red; fine-grained; clay, Fe-oxide
 3488B** **Pebble sill**--light gray to purple; fine- to medium-grained, friable; quartz, clay; in ore zone
 3488E** **Ore**--red, white; thin-bedded; clay, hematite; replaces sulfide-altered shale
 3488F** **Clay material from pebble sill**--gray; friable; clay; probably broken fragment
 3488G** **Clay-altered rock**--white; friable; clay; probably altered carbonate rock
 3490** **Pebble sill**--gray; granulated; quartz
 3492** **Replaced carbonate**--white; fine- to medium-grained; clay, quartz
 3493A** **Clay-altered porphyry fragment**--white, porphyritic; clay; fragment from pebble sill
 3493B** **Shale**--yellow; fine-grained, sheared
 3493C** **Jasperoid**--red-brown; microcrystalline; quartz; fragment in pebble sill
 3493D** **Jasperoid**--black; microcrystalline; quartz; fragment in pebble sill
 3493E** **Jasperoid**--green; microcrystalline; massive; quartz
 3493F** **Jasperoid**--yellow and red; brecciated; quartz, Fe-oxides; replaces carbonate(?)
 3493G** **Pebble sill**--gray; flow banded; composed of granulated quartz and clay-altered fragments
 3493H** **Jasperoid**--red to black; brecciated; quartz
 3500 **Quartz vein**--white; cutting quartzite
 3501 **Pebble dike**--red; brecciated; quartzite matrix, Fe-oxides
 3502 **Pebble dike**--red, purple; brecciated; quartz matrix, Fe-oxides
 3503 **Hematite breccia in quartzite**--red; brecciated; Fe-oxides; along fault
 3504 **Pebble dike**--in quartzite; brecciated; quartz matrix; pebble dike along fault
 3505 **Pebble dike**--red; brecciated; quartz, Fe-oxides; in high shattered and brecciated quartzite
 3506 **Clay zone**--red; fine-grained; clay, Fe-oxides; along fault
 3507 **Quartzite**--red; black; brecciated; quartz, Fe-oxides

3508 **Quartzite**--red; brecciated; quartz, Fe-oxides
 3510 **Quartzite**--red; brecciated; quartz, Fe-oxides
 3511 **Altered porphyry**--gray; porphyritic; partially
 silicified
 3512 **Oxide**--black; oxides; coating on fractured quartzite
 3513 **Altered rock**--yellow, red; Fe-oxides; alteration zone
 along fault
 3514 **Altered carbonate**--at intersection of fault and
 quartzite\carbonate contact
 3515 **Pebble dike**--in quartzite; brecciated; quartz matrix
 3516 **Quartzite**--red; brecciated; quartz, Fe-oxides
 3517 **Quartzite**--red; brecciated; quartz, Fe-oxides
 3518 **Gouge**--red; Fe-oxides; from fault zone
 3519 **Pebble dike**--red; brecciated; clay, Fe-oxides; igneous
 matrix, from prospect pit
 3520 **Quartzite**--red; quartz, Fe-oxides; from prospect pit
 3521 **Pebble dike**--igneous matrix; quartz
 3522 **Jasperoid**--gray; microcrystalline; quartz, Fe-oxides
 3523 **Pebble dike**--red; igneous and quartzite clasts, Fe-
 oxides
 3524 **Porphyry**--altered; igneous rock mixed with brecciated
 quartzite
 3526 **Jasperoid**--gray, tan; quartz
 3527 **Porphyry**--altered
 3528 **Jasperoid**--gray, tan; microcrystalline, relict breccia;
 quartz, Fe-oxides along fractures
 3529 **Porphyry**--altered
 3530 **Porphyry**--altered
 3532 **Jasperoid**--brecciated; quartz
 3533 **Porphyry**--silicified, quartz
 3534 **Breccia**--red; brecciated; quartz, Fe-oxides, margin of
 breccia dike
 3535 **Breccia pipe**--altered matrix material
 3536 **Pebble dike matrix**--red; quartz, Fe-oxides
 3537 **Breccia complex**--brecciated; quartz, Fe-oxides; stained
 yellow and red
 3538 **Gouge**--red; along fault within breccia complex; quartz,
 Fe-oxides
 3539 **Pebble dike**--quartz, Fe-oxides
 3540 **Altered pebble dike**--igneous, shale, quartzite clasts
 3541 **Quartz vein**--white, red; quartz, Fe-oxides
 3542 **Igneous rock**--altered; along fault
 3543 **Clay**--orange; clay, Fe-oxides; fills fractures in
 quartzite
 3544 **Clay**--orange; clay, Fe-oxides, quartz; from prospect
 pit
 3545 **Quartzite**--quartz, Fe-oxides; red stained
 3546 **Pebble dike matrix**--quartz, Fe-oxides; red stain
 3547 **Quartzite**--quartz, Fe-oxides; red stain; next to fault
 3548 **Igneous rock**--altered
 3549 **Pebble dike**--tan, purple; quartz matrix
 3550 **Clay**--white; clay; altered igneous rock; red stain

3551 **Porphyry**--gray; purple stain; from prospect pit
3552 **Gouge**--yellow, brown; quartz, secondary oxides; along
fault
3553 **Gouge**--red, yellow; friable; clay; along fault, from
prospect pit
3554 **Altered shale**--yellow, red, brown; along fissure
3555 **Altered carbonate**--yellow, red, black; oxides, quartz,
calcite; along fault
3556 **Clay**--along low-angle structure; clay, oxide; from
prospect
3557 **Altered carbonate**--oxide
3558 **Altered carbonate**--oxides, calcite veins
3559 **Altered porphyry**--purple; clay, quartz; cut by hematite
veins

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH
[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
8DH3043A	39 31 36	113 0 32	<.05	.02	<.05	.300	10	<.50	N	N
8DH3043B	39 31 36	113 0 32	.10	<.02	<.05	.300	<10	<.50	N	N
8DH3043C	39 31 36	113 0 32	.50	<.02	<.05	.500	<10	N	N	N
7DH3073A	39 33 33	113 1 28	5.00	.10	.20	.150	20	N	N	N
7DH3073B	39 33 31	113 1 28	2.00	.05	.20	.100	100	<.50	N	N
7DH3074A	39 33 34	113 1 37	5.00	.50	.10	.200	30	N	N	N
7DA3074B	39 33 34	113 1 37	.50	.30	.10	.500	20	N	N	N
7DH3074C	39 33 34	113 1 37	.10	.02	.20	.500	100	N	N	N
7DH3074D	39 33 34	113 1 37	.10	.50	20.00	.005	500	N	N	N
7DH3075	39 33 35	113 1 55	.07	3.00	>20.00	.002	500	N	N	N
7DH3076	39 33 32	113 2 8	2.00	.05	.50	.050	200	7.00	N	N
7DH3079	39 33 37	113 2 10	.15	10.00	20.00	.002	300	N	N	N
7DH3080A	39 33 33	113 1 47	5.00	3.00	2.00	.300	1,000	<.50	N	N
7DH3080B	39 33 33	113 1 47	2.00	2.00	1.00	.500	500	3.00	N	N
7DH3082A	39 33 49	113 2 28	3.00	1.00	.20	.500	100	10.00	500	N
7DH3082B	39 33 49	113 2 28	.05	3.00	>20.00	.002	300	5.00	N	N
7DH3082C	39 33 49	113 2 28	.50	.10	15.00	.100	200	N	N	N
7DH3083A	39 32 40	113 1 44	.50	1.00	>20.00	.010	300	1.00	N	N
7DH3083B	39 32 40	113 1 44	1.00	.02	.10	.100	20	2.00	N	N
7DH3083C	39 32 39	113 1 43	.05	.05	.07	.100	<10	N	N	N
7DH3084	39 32 49	113 1 28	3.00	.02	.10	.150	20	2.00	N	N
7DH3085A	39 33 11	113 1 58	2.00	.02	.10	.050	150	20.00	200	N
7DH3085B	39 33 11	113 1 58	5.00	1.50	10.00	.150	500	N	N	N
7DH3086A	39 32 59	113 0 53	1.00	.05	.10	.100	<10	N	N	N
7DH3086B	39 32 59	113 0 53	3.00	1.00	.10	.200	100	N	N	N
7DH3086C	39 32 59	113 0 53	10.00	.50	2.00	.020	>5,000	N	N	N
7DH3087	39 32 56	113 0 52	.50	.02	.20	.100	500	N	N	N
7DH3088A	39 32 54	113 0 45	2.00	.50	.10	.300	100	N	N	N
7DH3088B	39 32 54	113 0 45	2.00	.70	20.00	.005	1,500	N	N	N
7DH3089A	39 34 4	113 1 53	.15	.50	.10	.150	1,000	N	N	N
7DH3089B	39 34 4	113 1 53	2.00	.20	.20	.200	500	N	300	N
7DH3127	39 31 27	113 0 26	.10	.05	<.05	.150	10	N	<200	N
7DH3128	39 31 42	113 0 4	2.00	1.00	1.50	.200	700	N	N	N
7DH3185A	39 31 35	113 0 33	3.00	.20	.07	.200	<10	N	N	N
7DH3185B	39 31 35	113 0 33	2.00	.30	.20	.150	300	N	N	N
7DH3186	39 31 35	113 0 33	3.00	.30	.10	.200	10	N	N	N
7DH3188A	39 31 35	113 0 33	2.00	.70	20.00	.020	150	N	N	N
7DH3188B	39 31 35	113 0 33	1.00	3.00	20.00	.020	500	N	N	N
7DH3188C	39 31 35	113 0 33	.10	.70	20.00	.005	50	N	N	N
7DH3190	39 31 35	113 0 33	1.00	1.50	>20.00	.070	500	N	N	N
7DH3191A	39 31 35	113 0 33	2.00	.70	>20.00	.050	1,000	N	N	N
7DH3191B	39 31 35	113 0 33	1.00	1.00	>20.00	.100	500	N	N	N
7DH3192	39 31 35	113 0 33	2.00	.10	10.00	.100	700	N	N	N
7DH3193	39 31 35	113 0 33	.50	1.00	>20.00	.020	300	N	N	N
7DH3194	39 31 35	113 0 33	5.00	1.00	.20	.200	500	N	N	N

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	B-ppm s	Ba-ppm s	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
8DH3043A	15	100	N	N	N	N	70	5	<50	N	N	<5	200
8DH3043B	20	300	N	N	N	N	30	5	50	N	N	<5	150
8DH3043C	15	300	N	N	N	N	50	5	<50	N	N	<5	100
7DH3073A	10	1,000	1.0	N	N	10	30	10	50	N	N	5	20
7DH3073B	10	300	<1.0	N	N	<5	10	20	<20	5	N	5	50
7DH3074A	200	200	5.0	N	N	<5	70	10	100	N	<20	7	20
7DA3074B	100	300	3.0	N	N	N	70	5	150	N	20	7	100
7DH3074C	10	50	<1.0	N	N	N	50	5	50	N	<20	5	<10
7DH3074D	N	N	<1.0	N	N	N	N	<5	<20	N	N	<5	<10
7DH3075	N	<20	<1.0	N	N	N	N	<5	<20	N	N	<5	20
7DH3076	15	150	<1.0	N	N	N	<10	20	N	N	N	<5	70
7DH3079	N	<20	<1.0	N	N	N	N	<5	N	N	N	<5	10
7DH3080A	10	500	2.0	N	N	50	20	50	<20	N	N	20	70
7DH3080B	20	700	2.0	N	N	15	20	2,000	<20	N	N	70	70
7DH3082A	15	150	3.0	<10	N	N	50	2,000	70	7	N	5	100
7DH3082B	N	<20	<1.0	N	N	N	N	50	N	N	N	<5	<10
7DH3082C	10	100	<1.0	200	N	<5	<10	15	N	N	N	7	20
7DH3083A	N	<20	<1.0	N	N	<5	<10	15	N	N	N	5	30
7DH3083B	10	<20	<1.0	<10	N	<5	<10	70	N	<5	N	5	20
7DH3083C	10	<20	1.0	N	N	<5	<10	50	<20	N	N	20	20
7DH3084	10	50	N	N	N	<5	<10	15	N	<5	N	10	50
7DH3085A	10	<20	N	300	N	N	<10	300	N	N	N	5	30
7DH3085B	<10	150	<1.0	N	N	10	20	20	50	N	N	50	50
7DH3086A	10	500	1.0	N	N	N	10	<5	50	N	N	<5	70
7DH3086B	10	200	1.0	N	N	20	<10	20	50	N	N	10	20
7DH3086C	<10	150	15.0	N	N	200	N	7	N	N	N	150	20
7DH3087	15	100	<1.0	N	N	<5	10	5	N	10	N	<5	30
7DH3088A	50	500	3.0	N	N	10	30	10	50	N	<20	20	50
7DH3088B	N	100	<1.0	N	N	N	N	5	N	5	N	<5	10
7DH3089A	10	300	<1.0	N	N	<5	10	10	<20	N	N	<5	70
7DH3089B	20	500	2.0	N	N	<5	10	7	100	N	<20	5	20
7DH3127	10	200	N	N	N	N	10	10	N	N	N	<5	50
7DH3128	50	700	1.5	N	N	10	<10	10	100	N	N	<5	100
7DH3185A	50	200	1.0	N	N	50	50	100	70	N	<20	70	70
7DH3185B	20	100	2.0	N	N	50	<10	15	<20	7	<20	70	20
7DH3186	30	1,000	2.0	N	N	30	<10	15	100	N	N	10	50
7DH3188A	N	<20	N	N	N	50	N	10	N	7	N	50	<10
7DH3188B	N	300	N	N	N	10	N	15	<20	N	N	10	50
7DH3188C	N	<20	N	N	N	N	<10	<5	N	N	N	<5	N
7DH3190	<10	100	<1.0	N	N	N	<10	<5	<20	N	N	<5	100
7DH3191A	N	50	<1.0	N	N	10	<10	<5	N	N	N	15	150
7DH3191B	<10	70	<1.0	N	N	N	<10	<5	<20	N	N	5	10
7DH3192	10	100	<1.0	10	N	20	<10	20	<20	<5	N	10	50
7DH3193	N	20	N	N	N	N	<10	5	N	N	N	<5	20
7DH3194	50	300	2.0	N	N	30	50	15	70	N	<20	70	<10

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--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	Au-ppm aa	AS-PPM ICP
8DH3043A	N	N	N	100	30	N	N	N	20	N	.20	<5.0
8DH3043B	N	N	N	150	50	N	N	N	70	N	.40	<5.0
8DH3043C	N	N	N	200	50	N	N	N	150	N	.30	13.0
7DH3073A	N	20	N	300	70	N	100	<200	700	N	N	N
7DH3073B	N	5	N	200	20	N	N	<200	150	N	.05	N
7DH3074A	N	15	N	300	100	N	50	<200	100	N	N	30.0
7DA3074B	N	20	15	<100	100	N	50	<200	100	N	.35	N
7DH3074C	N	<5	N	N	20	N	<10	<200	150	N	.20	N
7DH3074D	N	N	N	500	10	N	N	<200	<10	N	N	N
7DH3075	N	N	N	500	10	N	N	<200	<10	N	N	N
7DH3076	N	<5	N	<100	15	N	20	<200	<10	N	.85	40.0
7DH3079	N	N	N	N	10	N	<10	<200	N	N	N	N
7DH3080A	N	20	N	500	200	N	20	<200	150	N	N	N
7DH3080B	N	15	N	200	100	N	20	700	150	N	N	20.0
7DH3082A	300	10	15	300	150	N	20	<200	150	N	.75	500.0
7DH3082B	N	N	N	500	10	N	<10	N	<10	N	N	N
7DH3082C	N	<5	N	N	15	N	30	<200	50	N	.10	N
7DH3083A	N	N	N	700	15	N	<10	<200	<10	N	N	10.0
7DH3083B	N	N	20	N	20	N	N	<200	50	N	2.60	30.0
7DH3083C	N	<5	N	300	50	N	<10	<200	70	N	2.10	N
7DH3084	N	<5	N	N	20	N	N	<200	50	N	.10	60.0
7DH3085A	1,500	<5	100	N	10	N	N	<200	30	N	1.50	500.0
7DH3085B	N	15	N	300	100	N	20	N	70	N	N	30.0
7DH3086A	N	5	N	500	50	N	50	<200	200	N	N	N
7DH3086B	N	10	N	N	100	N	20	N	100	N	N	20.0
7DH3086C	N	<5	N	N	<10	N	30	1,000	<10	N	N	20.0
7DH3087	N	<5	10	N	30	N	N	<200	100	N	N	N
7DH3088A	N	15	N	N	100	N	50	<200	150	N	N	20.0
7DH3088B	N	N	N	500	10	N	15	<200	100	N	N	130.0
7DH3089A	N	5	N	N	70	N	10	N	100	N	N	600.0
7DH3089B	N	10	N	N	50	N	50	N	300	N	N	300.0
7DH3127	N	<5	N	<100	70	N	N	<200	150	N	.65	N
7DH3128	N	15	N	<100	100	N	20	<200	150	N	N	N
7DH3185A	N	20	10	300	100	N	30	<200	50	N	N	N
7DH3185B	N	5	N	N	70	N	20	N	150	N	N	N
7DH3186	N	15	N	500	150	N	20	<200	200	N	.10	20.0
7DH3188A	N	<5	N	500	50	N	<10	N	<10	N	N	10.0
7DH3188B	N	<5	N	500	20	N	20	N	20	N	N	N
7DH3188C	N	N	N	500	10	N	N	N	<10	N	N	N
7DH3190	N	10	N	1,000	20	N	20	N	30	N	N	N
7DH3191A	N	<5	N	200	15	N	30	N	20	N	.25	20.0
7DH3191B	N	10	N	500	30	N	20	N	50	N	N	10.0
7DH3192	N	5	N	200	50	N	20	N	100	N	1.00	10.0
7DH3193	N	N	N	1,000	15	N	10	N	10	N	N	N
7DH3194	N	20	N	N	100	N	30	<200	50	N	N	N

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	BI-PPM ICP	CD-PPM ICP	SB-PPM ICP	ZN-PPM ICP	Na-pct. s	P-pct. s	Ga-ppm s	Ge-ppm s	HG-PPM CV	FX ISE
8DH3043A	<2.00	<.100	<2.00	<2.00	N	.2	15	N	N	.20
8DH3043B	<2.00	<.100	5.00	<2.00	N	<.2	15	N	.04	.40
8DH3043C	<2.00	<.100	8.00	<2.00	N	<.2	10	N	.02	.30
7DH3073A	2.00	.200	N	15.00	--	--	--	--	--	--
7DH3073B	2.00	.100	N	5.00	--	--	--	--	--	--
7DH3074A	1.00	N	2.00	5.00	--	--	--	--	--	--
7DA3074B	2.00	N	N	N	--	--	--	--	--	--
7DH3074C	1.00	.200	N	15.00	--	--	--	--	--	--
7DH3074D	N	N	N	N	--	--	--	--	--	--
7DH3075	1.00	.100	N	10.00	--	--	--	--	--	--
7DH3076	10.00	.200	4.00	5.00	--	--	--	--	--	--
7DH3079	N	N	N	N	--	--	--	--	--	--
7DH3080A	N	.200	N	110.00	--	--	--	--	--	--
7DH3080B	N	.200	10.00	550.00	--	--	--	--	--	--
7DH3082A	3.00	.400	300.00	110.00	--	--	--	--	--	--
7DH3082B	<1.00	.100	N	10.00	--	--	--	--	--	--
7DH3082C	92.00	.100	N	<5.00	--	--	--	--	--	--
7DH3083A	1.00	.200	N	25.00	--	--	--	--	--	--
7DH3083B	7.00	.100	4.00	20.00	--	--	--	--	--	--
7DH3083C	1.00	.100	N	<5.00	--	--	--	--	--	--
7DH3084	6.00	1.200	<2.00	15.00	--	--	--	--	--	--
7DH3085A	590.00	.200	900.00	10.00	--	--	--	--	--	--
7DH3085B	2.00	.100	4.00	55.00	--	--	--	--	--	--
7DH3086A	1.00	.100	N	N	--	--	--	--	--	--
7DH3086B	4.00	.200	N	10.00	--	--	--	--	--	--
7DH3086C	1.00	1.500	N	430.00	--	--	--	--	--	--
7DH3087	N	.100	N	N	--	--	--	--	--	--
7DH3088A	N	.100	N	10.00	--	--	--	--	--	--
7DH3088B	1.00	N	N	5.00	--	--	--	--	--	--
7DH3089A	1.00	N	N	N	--	--	--	--	--	--
7DH3089B	1.00	N	2.00	N	--	--	--	--	--	--
7DH3127	<1.00	.100	N	N	--	--	--	--	--	--
7DH3128	1.00	N	N	50.00	--	--	--	--	--	--
7DH3185A	N	N	N	<5.00	--	--	--	--	--	--
7DH3185B	N	N	N	75.00	--	--	--	--	--	--
7DH3186	N	N	N	5.00	--	--	--	--	--	--
7DH3188A	N	N	N	10.00	--	--	--	--	--	--
7DH3188B	N	.300	N	15.00	--	--	--	--	--	--
7DH3188C	N	N	N	N	--	--	--	--	--	--
7DH3190	<1.00	N	N	30.00	--	--	--	--	--	--
7DH3191A	N	1.600	4.00	25.00	--	--	--	--	--	--
7DH3191B	N	N	N	10.00	--	--	--	--	--	--
7DH3192	3.00	.100	N	<5.00	--	--	--	--	--	--
7DH3193	1.00	N	N	10.00	--	--	--	--	--	--
7DH3194	N	N	N	130.00	--	--	--	--	--	--

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--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
7DH3195	39 31 35	113 0 33	<.05	.02	.05	.200	<10	N	N	N
7DH3196A	39 31 39	113 0 25	3.00	.50	.05	.200	20	N	N	N
7DH3196B	39 31 39	113 0 25	3.00	.70	.05	.200	10	N	N	N
7DH3198	39 31 39	113 0 25	1.00	.02	<.05	.100	<10	N	N	N
7DH3203	39 33 17	113 0 58	.50	.05	.20	.300	10	N	N	N
7DH3207	39 33 25	113 2 7	2.00	1.00	1.00	.200	700	N	N	N
7DH3212	39 33 13	113 2 15	5.00	1.50	1.50	.500	500	N	N	N
7DH3214	39 33 21	113 2 10	.10	2.00	20.00	.005	200	N	N	N
7DH3215A	39 33 22	113 2 15	7.00	2.00	2.00	.500	700	N	N	N
7DH3215B	39 33 22	113 2 15	3.00	3.00	1.00	.300	700	N	N	N
7DH3218	39 33 22	113 2 21	3.00	3.00	10.00	.500	1,000	N	N	N
7DH3219A	39 33 13	113 2 15	3.00	1.50	1.00	.200	500	N	N	N
7DH3219B	39 33 13	113 2 15	3.00	3.00	.20	.200	1,000	150.00	<200	N
7DH3219C	39 33 13	113 2 15	1.00	.02	.50	.200	70	500.00	5,000	N
7DH3220	39 33 13	113 2 28	3.00	1.00	2.00	.200	500	2.00	N	N
7DH3222	39 33 8	113 2 35	.70	.70	.20	.150	100	1.00	N	N
7DH3224	39 32 47	113 2 8	2.00	1.00	.50	.200	500	N	N	N
7DH3226	39 33 20	113 3 17	5.00	2.00	2.00	.300	500	.50	N	N
7DH3227	39 33 15	113 3 11	5.00	2.00	5.00	.500	1,000	<.50	N	N
7DH3228	39 33 19	113 3 11	<.05	.10	.50	.100	10	N	N	N
7DH3229	39 33 20	113 2 55	10.00	.15	1.00	.100	100	N	N	N
7DH3231	39 33 14	113 3 25	5.00	.10	.10	.050	50	N	N	N
7DH3249	39 33 20	113 2 55	3.00	.10	.10	.050	>5,000	N	N	N
8DH3276A	39 34 33	113 3 20	2.00	.20	.10	.010	3,000	N	N	N
8DH3276B	39 34 33	113 3 20	1.50	.10	.05	.005	50	N	N	N
8DH3283	39 32 39	113 0 4	1.00	.30	.07	1.000	20	N	N	N
8DH3284A	39 32 54	113 0 17	7.00	.05	.07	.500	30	N	N	N
8DH3284B	39 32 54	113 0 17	10.00	.15	.20	.050	50	N	N	N
8DH3287A	39 33 36	113 2 4	3.00	.20	.20	.020	200	10.00	1,000	N
8DH3287B	39 33 36	113 2 4	.15	10.00	20.00	<.002	300	N	N	N
8DH3288B	39 33 33	113 2 3	20.00	.50	.10	.150	10	2.00	3,000	20
8DH3289B	39 33 38	113 2 2	7.00	.20	.07	.100	1,000	5.00	700	N
8DH3291	39 33 36	113 2 24	N	.10	>20.00	<.002	700	N	N	N
8DH3292B	39 33 28	113 1 6	7.00	5.00	1.00	.700	1,000	N	N	N
8DH3294B	39 33 34	113 1 36	5.00	.50	.10	.500	50	N	N	N
8DH3294C	39 33 34	113 1 36	5.00	.20	<.05	.500	30	N	N	N
8DH3295	39 33 29	113 1 34	7.00	1.50	.15	.500	300	N	N	N
8DH3296	39 33 32	113 1 41	.05	5.00	>20.00	.003	50	N	N	N
8DH3298	39 33 40	113 2 1	3.00	7.00	20.00	.200	200	N	N	N
8DH3299	39 31 51	113 0 9	3.00	.10	.20	1.000	10	N	N	N
8DH3300	39 31 46	113 0 7	2.00	.70	.05	.500	70	N	N	N
8DH3302A	39 32 1	112 59 23	2.00	.50	.15	.200	20	N	N	N
8DH3302B	39 32 1	112 59 23	2.00	.70	.10	1.000	20	N	1,500	N
8DH3303	39 32 4	112 59 12	1.00	.20	2.00	.200	500	N	N	N
8DH3305	39 32 19	112 59 18	20.00	.20	.05	.070	50	N	500	N

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	B-ppm s	Ba-ppm s	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
7DH3195	15	20	N	N	N	<10	10	<5	<20	N	<20	<5	<10
7DH3196A	50	500	1.5	N	N	50	30	20	<20	N	<20	50	50
7DH3196B	70	1,000	1.5	N	N	30	30	20	70	10	<20	50	20
7DH3198	15	200	N	N	N	<10	10	20	N	5	N	15	300
7DH3203	10	300	<1.0	N	N	<10	50	20	50	5	<20	<5	200
7DH3207	<10	500	<1.0	N	N	10	N	<5	50	N	N	<5	50
7DH3212	<10	700	<1.0	N	N	30	<10	15	50	N	N	5	50
7DH3214	N	N	N	N	N	N	<10	<5	N	N	N	N	<10
7DH3215A	10	700	<1.0	N	N	50	<10	15	<20	N	<20	7	50
7DH3215B	<10	500	<1.0	N	N	30	<10	20	70	N	N	10	70
7DH3218	10	1,000	<1.0	N	N	20	<10	7	100	N	N	<5	100
7DH3219A	15	500	<1.0	N	N	20	<10	10	50	N	N	10	70
7DH3219B	15	200	1.5	N	N	<5	<10	1,000	70	N	N	10	100
7DH3219C	10	70	2.0	>1,000	500	<5	<10	>20,000	<20	N	<20	15	1,000
7DH3220	10	50	<1.0	150	N	20	<10	100	<20	<5	N	10	70
7DH3222	30	1,000	1.0	100	N	N	<10	50	50	N	N	<5	70
7DH3224	<10	500	N	N	N	<5	<10	<5	50	N	N	5	50
7DH3226	<10	700	<1.0	50	N	30	<10	50	50	N	N	20	70
7DH3227	<10	1,000	1.0	50	N	50	<10	50	70	N	N	50	70
7DH3228	10	100	N	<10	N	<5	<10	15	<20	N	<20	5	<10
7DH3229	<10	200	N	10	N	<5	<10	15	N	20	N	<5	150
7DH3231	20	100	2.0	N	N	<5	<10	10	N	7	N	15	20
7DH3249	<10	N	N	N	N	70	N	20	N	100	N	100	100
8DH3276A	20	1,000	1.0	N	N	N	N	5	<50	N	N	<5	<10
8DH3276B	50	200	1.0	N	N	N	N	5	N	N	N	<5	<10
8DH3283	20	300	<1.0	N	N	N	<10	5	50	N	N	N	10
8DH3284A	15	500	N	N	N	N	<10	15	<50	<5	N	<5	20
8DH3284B	10	200	1.5	N	N	N	<10	20	N	5	N	20	50
8DH3287A	15	50	N	70	N	N	<10	1,000	N	<5	N	10	1,000
8DH3287B	N	<20	N	N	N	N	N	20	N	N	N	N	100
8DH3288B	20	500	N	100	N	<10	50	1,500	N	20	N	20	700
8DH3289B	50	300	N	50	N	100	<10	10,000	<50	10	N	70	1,000
8DH3291	N	20	N	N	N	N	N	<5	N	N	N	N	<10
8DH3292B	<10	500	N	N	N	30	10	50	50	N	N	10	30
8DH3294B	50	300	N	N	N	N	70	50	50	N	<20	5	200
8DH3294C	20	100	N	N	N	20	100	50	70	10	<20	30	20
8DH3295	100	500	2.0	N	N	15	100	50	50	N	N	50	10
8DH3296	N	20	N	N	N	N	<10	<5	N	N	N	N	15
8DH3298	100	200	<1.0	N	N	10	50	30	<50	N	N	50	<10
8DH3299	10	700	N	N	N	20	100	10	70	N	<20	50	300
8DH3300	50	1,000	1.0	N	N	N	100	50	70	N	<20	10	70
8DH3302A	10	300	<1.0	N	N	N	10	15	<50	N	N	5	10
8DH3302B	30	300	1.0	N	N	15	150	20	50	N	N	20	<10
8DH3303	15	500	N	N	N	N	15	10	N	5	N	5	500
8DH3305	<10	300	N	N	N	N	70	30	N	N	N	20	10

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--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	Au-ppm aa	AS-PPM ICP
7DH3195	N	N	N	200	50	N	N	<200	70	N	.35	N
7DH3196A	N	15	N	N	70	N	30	<200	150	N	N	10.0
7DH3196B	N	20	N	N	70	N	30	N	100	N	.05	20.0
7DH3198	N	<5	N	300	50	N	N	N	100	N	.30	20.0
7DH3203	N	10	N	300	100	N	<10	<200	200	N	.05	N
7DH3207	N	15	N	500	70	N	20	<200	100	N	N	10.0
7DH3212	N	20	N	500	200	N	30	<200	200	N	N	N
7DH3214	N	N	N	200	10	N	N	N	<10	N	N	N
7DH3215A	N	30	N	500	200	N	30	<200	200	N	N	N
7DH3215B	N	20	N	500	100	N	20	<200	150	N	N	N
7DH3218	N	20	N	1,000	150	N	50	N	200	N	N	N
7DH3219A	N	10	N	200	100	N	20	<200	100	N	N	N
7DH3219B	100	7	N	N	100	N	20	500	100	N	<.05	300.0
7DH3219C	>10,000	7	>1,000	300	200	N	50	1,000	100	N	3.80	800.0
7DH3220	N	15	100	300	150	N	20	N	150	N	N	N
7DH3222	N	5	30	200	50	N	10	N	150	N	N	N
7DH3224	N	10	N	100	70	N	15	N	150	N	N	N
7DH3226	N	20	20	500	150	N	30	<200	150	N	N	N
7DH3227	N	20	10	700	150	N	30	<200	150	N	N	N
7DH3228	N	N	N	300	50	N	N	N	100	N	N	N
7DH3229	N	<5	N	100	50	N	10	N	100	N	N	40.0
7DH3231	N	5	N	200	30	N	15	<200	50	N	N	20.0
7DH3249	N	5	N	300	70	N	30	<200	100	N	N	900.0
8DH3276A	N	N	N	N	20	N	N	N	<10	N	<.05	<5.0
8DH3276B	N	N	N	N	20	N	N	N	<10	N	<.05	8.0
8DH3283	N	10	N	200	150	N	20	N	200	N	<.05	<5.0
8DH3284A	N	<5	N	100	100	N	<10	N	150	N	<.05	<5.0
8DH3284B	N	N	N	N	20	N	N	N	100	N	<.05	17.0
8DH3287A	<100	N	20	N	50	N	100	10,000	<10	N	.70	780.0
8DH3287B	N	N	N	N	<10	N	N	N	N	N	.05	<5.0
8DH3288B	500	N	>1,000	500	200	N	50	500	150	N	20.00	2,300.0
8DH3289B	100	<5	30	N	20	N	30	1,000	50	N	1.00	790.0
8DH3291	N	N	N	500	<10	N	N	N	N	N	.05	<5.0
8DH3292B	N	20	N	300	150	N	20	N	150	N	<.05	11.0
8DH3294B	N	15	N	N	100	N	50	N	100	N	.10	28.0
8DH3294C	N	10	N	500	100	N	<10	N	100	N	<.05	70.0
8DH3295	N	15	N	N	100	N	30	N	100	N	<.05	<5.0
8DH3296	N	N	N	300	<10	N	N	N	N	N	<.05	<5.0
8DH3298	N	10	N	300	50	N	15	N	100	N	<.05	<5.0
8DH3299	N	10	N	500	200	N	20	N	200	N	<.05	19.0
8DH3300	N	15	N	100	100	N	20	N	200	N	<.05	84.0
8DH3302A	N	5	N	500	70	N	10	N	200	N	<.05	31.0
8DH3302B	N	10	N	<100	150	N	20	N	200	N	<.05	1,400.0
8DH3303	<100	N	N	1,000	50	N	N	N	150	N	.60	86.0
8DH3305	N	10	N	300	100	N	200	N	100	N	<.05	570.0

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	BI-PPM ICP	CD-PPM ICP	SB-PPM ICP	ZN-PPM ICP	Na-pct. s	P-pct. s	Ga-ppm s	Ge-ppm s	HG-PPM CV	FX ISE
7DH3195	N	N	N	N	--	--	--	--	--	--
7DH3196A	N	.200	N	<5.00	--	--	--	--	--	--
7DH3196B	<1.00	.300	2.00	50.00	--	--	--	--	--	--
7DH3198	1.00	N	6.00	<5.00	--	--	--	--	--	--
7DH3203	1.00	N	N	N	--	--	--	--	--	--
7DH3207	N	N	2.00	80.00	--	--	--	--	--	--
7DH3212	1.00	N	N	50.00	--	--	--	--	--	--
7DH3214	N	N	N	15.00	--	--	--	--	--	--
7DH3215A	2.00	.100	N	50.00	--	--	--	--	--	--
7DH3215B	N	N	<2.00	70.00	--	--	--	--	--	--
7DH3218	N	.100	N	55.00	--	--	--	--	--	--
7DH3219A	N	N	N	50.00	--	--	--	--	--	--
7DH3219B	N	1.000	94.00	290.00	--	--	--	--	--	--
7DH3219C	>1,000.00	>100.000	>1,000.00	130.00	--	--	--	--	--	--
7DH3220	67.00	.400	16.00	5.00	--	--	--	--	--	--
7DH3222	25.00	N	4.00	N	--	--	--	--	--	--
7DH3224	<1.00	N	N	100.00	--	--	--	--	--	--
7DH3226	5.00	N	N	70.00	--	--	--	--	--	--
7DH3227	11.00	.100	2.00	70.00	--	--	--	--	--	--
7DH3228	2.00	.100	N	N	--	--	--	--	--	--
7DH3229	6.00	.100	N	<5.00	--	--	--	--	--	--
7DH3231	1.00	N	N	30.00	--	--	--	--	--	--
7DH3249	2.00	2.500	8.00	530.00	--	--	--	--	--	--
8DH3276A	<2.00	<.100	<2.00	19.00	N	N	<5	N	N	<.01
8DH3276B	<2.00	<.100	<2.00	6.00	N	N	<5	N	.02	<.01
8DH3283	<2.00	<.100	<2.00	<2.00	N	.2	20	N	.10	.04
8DH3284A	<2.00	.300	<2.00	42.00	N	<.2	10	N	N	.04
8DH3284B	<2.00	1.500	2.00	77.00	N	N	10	N	N	.02
8DH3287A	130.00	17.000	110.00	5,200.00	N	<.2	10	N	4.00	.01
8DH3287B	<2.00	1.000	<2.00	210.00	N	N	N	N	1.36	<.01
8DH3288B	130.00	7.100	110.00	160.00	N	N	20	N	5.20	.02
8DH3289B	49.00	2.400	77.00	880.00	N	N	15	N	1.48	.03
8DH3291	<2.00	<.100	<2.00	9.00	N	N	N	N	N	.05
8DH3292B	<2.00	.400	<2.00	42.00	3.0	<.2	20	N	N	.05
8DH3294B	3.00	.600	<2.00	25.00	3.0	<.2	20	N	.04	.11
8DH3294C	6.00	.400	6.00	49.00	1.0	<.2	20	N	.04	.04
8DH3295	<2.00	.400	<2.00	88.00	1.0	<.2	30	N	N	.07
8DH3296	<2.00	.100	<2.00	3.00	N	N	N	N	N	<.01
8DH3298	<2.00	.700	<2.00	46.00	2.0	N	20	N	N	.05
8DH3299	7.00	.300	<2.00	4.00	N	.2	10	N	.04	.04
8DH3300	<2.00	.400	<2.00	43.00	N	.2	15	N	.06	.03
8DH3302A	<2.00	.300	2.00	14.00	N	.3	7	N	.04	.01
8DH3302B	<2.00	.200	28.00	6.00	.5	.2	15	N	N	.03
8DH3303	<2.00	.600	43.00	9.00	N	.5	10	N	.10	.01
8DH3305	<2.00	2.500	<2.00	11.00	1.0	N	15	N	N	.03

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--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
8DH3306	39 32 23	112 59 25	1.50	.05	.10	.150	50	N	N	N
8DH3307A	39 32 21	112 59 31	5.00	.20	.10	.500	10	N	N	N
8DH3307B	39 32 21	112 59 31	5.00	.10	.20	.150	50	N	N	N
8DH3319A	39 32 14	112 59 47	2.00	<.02	.07	.150	100	N	N	N
8DH3319B	39 32 14	112 59 47	1.00	<.02	.50	.100	10	N	N	N
8DH3322	39 31 43	113 0 2	7.00	.10	.10	.100	70	N	N	N
8DI3323	39 31 40	112 59 58	10.00	.15	.10	.007	100	N	N	N
8DH3325A	39 33 42	113 0 42	5.00	1.00	<.05	.500	100	1.00	N	N
8DH3325B	39 33 42	113 0 42	5.00	.10	.07	.050	30	30.00	N	N
8DH3325C	39 33 42	113 0 42	1.00	<.02	<.05	.030	20	10.00	N	N
8DH3325D	39 33 42	113 0 42	3.00	<.02	.05	.200	30	N	N	N
8DH3326A	39 30 59	113 1 47	1.00	<.02	<.05	.200	100	7.00	N	15
8DH3326B	39 30 59	113 1 47	1.00	.05	<.05	.300	100	5.00	N	<10
8DH3326C	39 30 59	113 1 47	.30	7.00	>20.00	.010	70	N	N	N
8DH3327A	39 32 43	113 3 18	.50	.15	1.00	.005	100	N	N	N
8DH3327B	39 32 43	113 3 18	.10	10.00	20.00	.002	150	N	N	N
8DH3327C	39 32 43	113 3 18	7.00	.70	.05	.200	30	N	N	N
8DH3327D	39 32 43	113 3 18	5.00	1.00	.05	.200	20	N	N	N
8DH3328A	39 33 32	113 3 28	>20.00	.10	.05	.050	200	N	N	N
8DH3328B	39 33 32	113 3 28	>20.00	.10	.05	.050	150	N	N	N
8DH3328C	39 33 32	113 3 28	5.00	.30	20.00	.200	700	N	N	N
8DH3328D	39 33 32	113 3 28	.30	7.00	>20.00	<.002	100	N	N	N
8DH3328E	39 33 32	113 3 28	>20.00	.20	.10	.020	200	N	N	N
8DH3329A	39 33 47	113 3 17	1.00	<.02	.07	.150	50	10.00	500	N
8DH3329B	39 33 47	113 3 17	1.00	.05	.20	.300	300	700.00	5,000	20
8DH3329C	39 33 47	113 3 17	.15	1.50	>20.00	.005	3,000	30.00	N	N
8DH3330A	39 33 49	113 3 13	1.00	.02	.20	.070	70	<.50	N	N
8DH3330B	39 33 49	113 3 13	5.00	.20	.30	.070	50	1.00	N	N
8DH3330C	39 33 49	113 3 13	>20.00	.30	.20	.100	70	.50	N	N
8DH3330D	39 33 49	113 3 13	3.00	.10	.20	.050	50	1.00	N	N
8DH3330E	39 33 49	113 3 13	.10	.03	.10	.200	<10	N	N	N
8DH3331A	39 33 57	113 3 18	>20.00	.07	.07	.015	50	7.00	300	N
8DH3331B	39 33 57	113 3 18	15.00	.05	.07	.050	50	3.00	200	N
8DH3331C	39 33 57	113 3 18	.70	.50	>20.00	.002	2,000	N	N	N
8DH3331D	39 33 57	113 3 18	7.00	.05	.20	.050	150	3.00	N	N
8DH3332A	39 33 56	113 3 1	.20	2.00	>20.00	.010	70	N	N	N
8DH3332B	39 33 56	113 3 1	.05	>10.00	20.00	<.002	50	N	N	N
8DH3332C	39 33 56	113 3 1	2.00	2.00	7.00	.500	100	5.00	N	N
8DH3332D	39 33 56	113 3 1	>20.00	.10	.50	.100	50	1,500.00	7,000	N
8DH3332E	39 33 56	113 3 1	10.00	.20	>20.00	.070	1,000	50.00	1,500	N
8DH3332F	39 33 56	113 3 1	.50	<.02	.05	.200	70	N	N	N
8DH3333	39 34 2	113 3 5	7.00	<.02	.07	.050	70	3.00	N	N
8DH3334A	39 34 7	113 3 4	.70	<.02	.10	.100	200	3.00	N	N
8DH3334B	39 34 7	113 3 4	10.00	.20	.10	.150	100	1.00	500	N
8DH3336	39 31 50	113 0 0	.50	<.02	.10	.100	100	N	N	N

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	B-ppm s	Ba-ppm s	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
8DH3306	<10	200	N	N	N	N	<10	7	N	N	N	<5	<10
8DH3307A	<10	300	N	N	N	10	50	15	50	N	N	50	20
8DH3307B	<10	500	N	N	N	<10	20	15	<50	N	N	15	50
8DH3319A	200	200	N	N	N	N	<10	7	N	10	N	7	10
8DH3319B	<10	200	N	N	N	N	<10	<5	N	N	N	<5	10
8DH3322	20	200	<1.0	N	N	N	10	7	N	N	N	5	<10
8DH3323	10	300	<1.0	N	N	N	15	5	N	N	N	7	<10
8DH3325A	20	200	N	N	N	N	<10	100	N	5	N	N	200
8DH3325B	20	150	<1.0	10	N	N	N	300	N	<5	N	<5	700
8DH3325C	<10	300	N	15	N	N	N	700	N	5	N	10	500
8DH3325D	10	200	<1.0	N	N	N	20	5	<50	N	N	5	20
8DH3326A	<10	500	<1.0	N	N	N	N	20	N	30	N	7	500
8DH3326B	<10	100	<1.0	N	N	N	10	20	N	7	N	7	30
8DH3326C	N	300	N	N	N	N	N	<5	N	N	N	<5	<10
8DH3327A	10	200	<1.0	N	N	N	N	30	N	N	N	10	<10
8DH3327B	30	20	N	N	N	N	N	5	N	N	N	<5	N
8DH3327C	20	200	1.0	N	N	<10	50	100	<50	7	N	70	10
8DH3327D	20	200	1.0	N	N	N	70	100	50	5	N	70	10
8DH3328A	<10	50	<1.0	N	N	30	N	30	N	N	N	50	<10
8DH3328B	<10	50	<1.0	N	N	20	<10	20	N	N	N	20	<10
8DH3328C	10	30	1.0	N	N	20	10	7	50	10	N	20	10
8DH3328D	N	<20	N	N	N	N	N	<5	N	N	N	N	<10
8DH3328E	50	70	3.0	N	N	50	50	100	N	N	N	100	N
8DH3329A	10	50	N	>1,000	N	<10	<10	5,000	N	N	N	5	50
8DH3329B	10	1,000	<1.0	>1,000	N	<10	15	>20,000	<50	N	<20	15	1,000
8DH3329C	N	200	N	N	N	10	N	500	N	N	N	<5	700
8DH3330A	10	300	N	N	N	N	<10	30	N	N	N	5	200
8DH3330B	10	1,500	N	N	N	N	15	30	<50	N	N	5	500
8DH3330C	<10	1,500	N	N	N	20	20	70	N	7	N	15	3,000
8DH3330D	10	20	<1.0	N	N	<10	<10	50	N	N	N	10	100
8DH3330E	<10	1,500	N	N	N	N	50	50	50	N	N	<5	1,000
8DH3331A	<10	2,000	<1.0	N	N	15	<10	150	N	N	N	50	700
8DH3331B	N	700	2.0	N	N	<10	20	>20,000	<50	N	N	30	500
8DH3331C	N	100	N	N	N	N	<10	100	N	N	N	N	500
8DH3331D	10	200	N	50	N	N	<10	100	N	N	N	10	300
8DH3332A	N	20	N	N	N	N	<10	7	N	N	N	N	10
8DH3332B	N	N	N	N	N	N	<10	10	N	N	N	N	15
8DH3332C	100	200	<1.0	30	N	<10	70	500	50	N	N	15	200
8DH3332D	N	1,000	2.0	>1,000	N	50	20	>20,000	<50	N	N	100	1,000
8DH3332E	N	50	N	>1,000	N	30	<10	7,000	N	N	N	30	2,000
8DH3332F	10	50	N	N	N	<10	20	70	N	N	N	5	<10
8DH3333	10	1,000	<1.0	<10	N	N	<10	70	N	N	N	7	50
8DH3334A	15	1,500	2.0	N	N	N	10	20	N	N	N	5	20
8DH3334B	<10	200	2.0	N	N	N	70	70	<50	10	N	10	500
8DH3336	10	70	N	N	N	N	<10	10	N	N	N	5	30

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--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	Au-ppm aa	AS-PPM ICP
8DH3306	N	N	N	300	15	N	<10	N	200	N	<.05	100.0
8DH3307A	N	7	N	500	200	N	15	N	200	N	<.05	57.0
8DH3307B	N	5	N	700	70	N	10	N	200	N	<.05	61.0
8DH3319A	N	N	N	N	20	N	N	N	150	N	<.05	40.0
8DH3319B	N	N	N	200	20	N	N	N	200	N	<.05	6.0
8DH3322	N	10	N	N	50	N	70	N	200	N	<.05	<5.0
8DH3323	N	7	N	N	50	N	70	N	300	N	<.05	<5.0
8DH3325A	N	15	N	N	150	N	200	N	150	N	<.05	82.0
8DH3325B	500	N	50	N	15	N	N	N	100	N	.05	140.0
8DH3325C	500	N	70	N	10	N	N	N	100	N	.80	280.0
8DH3325D	N	N	N	100	30	N	N	N	200	N	<.05	<5.0
8DH3326A	200	N	N	N	15	N	N	N	50	N	8.60	130.0
8DH3326B	N	N	N	N	20	N	10	N	50	N	4.20	36.0
8DH3326C	N	N	N	200	10	N	N	N	<10	N	.05	7.0
8DH3327A	N	N	N	N	10	N	N	N	<10	N	<.05	21.0
8DH3327B	N	N	N	N	<10	N	N	N	N	N	<.05	16.0
8DH3327C	N	10	N	N	50	N	50	N	200	N	<.05	16.0
8DH3327D	N	7	N	N	50	N	50	N	150	N	<.05	15.0
8DH3328A	N	N	N	N	15	N	10	500	20	N	<.05	<5.0
8DH3328B	N	N	N	N	15	N	15	300	30	N	<.05	6.0
8DH3328C	N	5	N	<100	15	N	70	N	200	N	<.05	21.0
8DH3328D	N	N	N	200	<10	N	N	N	N	N	<.05	<5.0
8DH3328E	N	<5	N	N	15	N	<10	500	<10	N	<.05	<5.0
8DH3329A	700	N	50	N	10	N	10	N	70	N	2.50	760.0
8DH3329B	>10,000	N	>1,000	100	30	N	70	N	100	N	7.30	3,700.0
8DH3329C	N	N	N	N	<10	N	70	N	N	N	.10	67.0
8DH3330A	N	N	N	N	15	N	N	<200	20	N	<.05	27.0
8DH3330B	N	N	N	500	70	N	10	500	30	N	<.05	40.0
8DH3330C	N	N	N	500	150	N	20	3,000	30	N	<.05	97.0
8DH3330D	N	N	N	N	20	N	15	2,000	30	N	<.05	55.0
8DH3330E	N	7	N	1,000	200	N	15	N	100	N	<.05	10.0
8DH3331A	200	<5	N	300	200	N	100	2,000	N	N	.05	500.0
8DH3331B	100	5	N	500	500	N	500	N	15	N	.10	370.0
8DH3331C	N	N	N	100	10	N	15	N	N	N	.20	18.0
8DH3331D	<100	N	N	N	100	N	20	200	20	N	.10	87.0
8DH3332A	N	N	N	300	10	N	N	N	10	N	.05	<5.0
8DH3332B	N	N	N	N	<10	N	N	N	N	N	.05	<5.0
8DH3332C	N	7	N	<100	50	N	30	N	100	N	<.05	38.0
8DH3332D	3,000	5	10,000	700	30	N	100	1,500	30	N	5.30	5,400.0
8DH3332E	700	N	3,000	N	15	N	30	200	20	N	1.20	2,200.0
8DH3332F	N	N	100	N	10	N	N	N	70	N	.60	21.0
8DH3333	N	N	N	N	30	N	10	<200	10	N	<.05	55.0
8DH3334A	100	N	N	N	20	N	N	<200	30	N	<.05	19.0
8DH3334B	500	5	N	300	300	N	10	500	70	N	<.05	480.0
8DH3336	N	N	N	N	15	N	N	N	150	N	<.05	7.0

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	BI-PPM ICP	CD-PPM ICP	SB-PPM ICP	ZN-PPM ICP	Na-pct. s	P-pct. s	Ga-ppm s	Ge-ppm s	HG-PPM CV	FX ISE
8DH3306	<2.00	.200	3.00	5.00	N	<.2	<5	N	.02	<.01
8DH3307A	<2.00	.400	4.00	39.00	N	<.2	10	N	.68	.03
8DH3307B	<2.00	.400	4.00	<2.00	N	<.2	5	N	.32	.01
8DH3319A	6.00	.200	4.00	4.00	<.2	<.2	5	N	N	<.01
8DH3319B	<2.00	<.100	<2.00	<2.00	<.2	<.2	<5	N	N	<.01
8DH3322	<2.00	.700	<2.00	3.00	N	N	10	N	N	<.01
8DI3323	<2.00	.800	<2.00	4.00	N	<.2	10	N	N	.01
8DH3325A	4.00	.300	13.00	27.00	<.2	N	20	N	.10	.05
8DH3325B	24.00	2.300	280.00	41.00	.5	N	10	N	2.00	<.01
8DH3325C	44.00	1.200	300.00	84.00	N	N	5	N	13.80	<.01
8DH3325D	<2.00	.200	8.00	38.00	N	<.2	7	N	.04	<.01
8DH3326A	<2.00	.600	160.00	52.00	N	N	10	N	.40	<.01
8DH3326B	<2.00	.200	15.00	8.00	N	<.2	<5	N	N	<.01
8DH3326C	<2.00	.200	3.00	<2.00	N	N	N	N	.18	.01
8DH3327A	<2.00	1.500	7.00	6.00	N	<.2	N	N	N	<.01
8DH3327B	<2.00	.100	<2.00	<2.00	N	N	N	N	.02	.03
8DH3327C	<2.00	.500	<2.00	23.00	.5	N	30	N	N	.07
8DH3327D	<2.00	.300	<2.00	19.00	.7	<.2	20	N	N	.06
8DH3328A	<2.00	4.000	<2.00	50.00	.2	N	15	N	.12	.03
8DH3328B	<2.00	5.200	<2.00	64.00	.2	N	15	N	.10	.05
8DH3328C	<2.00	1.200	<2.00	63.00	N	N	10	N	.18	.04
8DH3328D	<2.00	.200	<2.00	<2.00	N	N	N	N	.10	<.01
8DH3328E	<2.00	6.600	<2.00	180.00	.3	N	15	N	.76	.07
8DH3329A	2,500.00	.500	1,800.00	19.00	N	<.2	<5	N	>36.00	<.01
8DH3329B	>20,000.00	27.000	13,000.00	140.00	<.2	<.2	15	N	>36.00	.02
8DH3329C	8.00	1.000	82.00	37.00	N	N	10	N	>36.00	.03
8DH3330A	10.00	.600	29.00	130.00	<.2	<.2	10	N	.90	<.01
8DH3330B	8.00	1.400	40.00	490.00	.2	<.2	30	N	1.48	.03
8DH3330C	9.00	8.000	59.00	2,500.00	.5	N	70	N	2.40	.08
8DH3330D	12.00	.800	25.00	1,200.00	.3	N	5	N	1.60	.01
8DH3330E	7.00	<.100	7.00	37.00	N	.5	50	N	1.04	.10
8DH3331A	<2.00	23.000	140.00	900.00	.3	N	30	N	>36.00	.03
8DH3331B	57.00	1.900	82.00	220.00	<.2	N	30	N	8.60	.03
8DH3331C	10.00	1.300	7.00	24.00	N	N	10	N	.68	.01
8DH3331D	70.00	2.000	23.00	190.00	<.2	N	15	N	2.40	.01
8DH3332A	<2.00	.100	3.00	2.00	N	N	N	N	.22	.01
8DH3332B	<2.00	.100	<2.00	35.00	N	N	N	N	.18	.01
8DH3332C	24.00	6.500	4.00	26.00	N	<.2	30	N	.46	.15
8DH3332D	>20,000.00	21.000	1,900.00	1,300.00	.5	N	20	N	>36.00	.05
8DH3332E	3,800.00	12.000	1,100.00	290.00	<.2	N	10	N	14.80	.01
8DH3332F	18.00	<.100	17.00	13.00	N	N	<5	N	.34	<.01
8DH3333	17.00	.300	32.00	110.00	N	N	7	N	.68	<.01
8DH3334A	8.00	.100	19.00	35.00	N	<.2	5	N	1.28	<.01
8DH3334B	<2.00	1.800	380.00	340.00	N	<.2	30	N	.88	.05
8DH3336	<2.00	<.100	5.00	3.00	N	<.2	5	N	.10	<.01

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--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
8DH3337A	39 31 40	112 59 54	7.00	.07	.07	.100	50	N	N	N
8DH3337B	39 31 40	112 59 54	5.00	.05	.10	.100	70	N	N	N
8DH3339A	39 31 38	113 0 11	5.00	.05	.20	.150	50	.05	N	N
8DH3339B	39 31 38	113 0 11	2.00	10.00	>20.00	.005	3,000	N	N	N
8DH3340	39 31 35	113 0 4	.20	.02	.05	.150	15	N	N	N
8DH3342	39 33 6	113 1 57	.05	7.00	>20.00	<.002	70	N	N	N
8DH3343	39 33 14	113 1 53	<.05	5.00	>20.00	<.002	70	N	N	N
8DH3344	39 33 6	113 2 3	1.50	10.00	>20.00	.003	1,500	N	N	N
8DH3345	39 33 10	113 2 4	1.00	3.00	>20.00	.100	100	N	N	N
8DH3346A	39 31 33	113 0 0	3.00	<.02	.10	<.002	300	N	N	N
8DH3346B	39 31 33	113 0 0	1.00	.02	.07	.200	300	N	N	N
8DH3346C	39 31 33	113 0 0	20.00	.07	.07	.150	50	<.50	<200	N
8DH3346D	39 31 33	113 0 0	3.00	>10.00	>20.00	<.002	3,000	N	N	N
8DI3347	39 31 31	112 59 58	7.00	.15	.70	.020	100	<.50	300	N
8DH3348A	39 31 33	112 59 54	2.00	1.00	.20	.300	300	N	N	N
8DH3348B	39 31 33	112 59 54	3.00	.70	.30	.150	1,500	N	N	N
8DH3349	39 31 30	112 59 54	.70	.30	20.00	.005	1,000	N	N	N
8DH3350A	39 31 27	112 59 52	1.00	.50	20.00	.100	1,500	N	N	N
8DH3350B	39 31 27	112 59 52	1.50	.50	.15	.070	1,000	N	N	N
8DH3350C	39 31 27	112 59 52	7.00	.70	.70	.020	>5,000	N	N	N
8DH3351	39 31 27	112 59 55	5.00	.05	.20	<.002	500	2.00	N	N
8DH3353	39 31 39	113 0 22	.15	<.02	<.05	.300	200	N	N	N
8DH3354	39 31 39	113 0 22	1.00	1.50	.05	1.000	70	N	N	N
8DH3355	39 31 41	113 0 19	5.00	1.00	1.00	.200	700	N	N	N
8DI3363	39 34 21	112 58 32	5.00	7.00	2.00	.300	700	.50	N	N
8DH3369	39 34 16	113 0 4	.70	<.02	.30	.050	15	N	N	N
8DH3377	39 33 55	113 0 50	.70	<.02	<.05	.020	<10	N	N	N
8DH3378	39 33 42	113 0 53	20.00	.03	.20	.020	<10	N	200	N
8DH3379	39 33 43	113 0 46	5.00	.15	.05	.500	10	N	N	N
8DH3380	39 33 36	113 1 2	5.00	.02	.30	.100	70	N	N	N
8DH3381	39 33 38	113 1 12	20.00	.02	.30	.150	<10	N	N	N
8DH3385	39 33 28	113 0 42	3.00	.03	.50	.300	10	N	N	N
8DH3386	39 33 18	113 0 40	7.00	<.02	.07	.100	15	N	N	N
8DH3388	39 33 19	113 0 10	3.00	<.02	<.05	.050	20	N	N	N
8DI3390A	39 33 20	112 59 51	.05	<.02	.20	.500	100	N	N	N
8DI3390B	39 33 20	112 59 51	3.00	<.02	.10	.300	50	<.50	N	N
8DI3390C	39 33 20	112 59 51	.10	<.02	<.05	.100	50	N	N	N
8DH3394	39 33 9	113 0 40	7.00	<.02	<.05	.200	N	<.50	N	N
8DH3398	39 32 54	113 0 20	15.00	.03	.15	.150	70	N	N	N
8DH3406	39 32 51	113 0 15	.20	<.02	.07	.500	1,000	N	N	N
8DH3408	39 33 1	113 0 10	5.00	.02	.10	.500	200	N	N	N
8DH3409	39 33 2	113 0 5	.20	<.02	.07	.200	20	N	N	N
8DI3410	39 32 39	112 59 42	.50	.15	.05	.300	20	<.50	N	N
8DI3411	39 32 41	112 59 36	10.00	<.02	<.05	.500	50	<.50	700	N
8DH3413	39 32 45	113 0 3	.15	<.02	.07	.700	30	N	N	N

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	B-ppm s	Ba-ppm s	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
8DH3337A	20	100	1.5	N	N	N	10	5	N	N	N	<5	N
8DH3337B	20	2,000	<1.0	N	N	N	15	5	<50	N	N	<5	<10
8DH3339A	15	300	N	N	N	N	30	20	<50	7	N	<5	20
8DH3339B	N	20	N	N	N	N	N	<5	N	N	N	N	<10
8DH3340	10	300	N	N	N	N	<10	7	N	N	N	5	10
8DH3342	<10	N	N	N	N	N	N	<5	N	N	N	N	<10
8DH3343	<10	N	N	N	N	N	N	7	N	N	N	N	10
8DH3344	<10	70	N	N	N	N	N	5	N	N	N	<5	<10
8DH3345	30	100	N	N	N	N	20	20	N	N	N	10	<10
8DH3346A	10	70	2.0	N	N	10	N	20	N	N	N	50	150
8DH3346B	15	50	<1.0	N	N	N	15	7	100	N	N	5	100
8DH3346C	<10	70	N	N	N	N	10	20	200	N	N	5	200
8DH3346D	N	70	N	N	N	N	N	10	N	N	N	<5	150
8DI3347	10	100	<1.0	N	N	<10	<10	20	<50	<5	N	15	200
8DH3348A	15	1,000	<1.0	N	N	10	<10	7	50	N	N	5	70
8DH3348B	30	500	5.0	N	N	20	20	500	<50	<5	N	15	50
8DH3349	N	100	N	N	N	N	N	5	N	N	N	<5	200
8DH3350A	10	300	<1.0	N	N	N	10	7	N	N	N	5	50
8DH3350B	50	200	3.0	N	N	50	20	20	N	N	N	150	500
8DH3350C	15	1,000	<1.0	N	N	100	<10	10	70	30	N	70	150
8DH3351	10	200	5.0	N	N	<10	15	15	N	<5	N	50	200
8DH3353	10	70	1.5	N	N	N	15	<5	N	N	N	5	N
8DH3354	50	1,500	1.0	N	N	N	50	5	70	N	N	7	30
8DH3355	30	700	1.0	N	N	<10	<10	<5	N	N	N	10	<10
8DI3363	<10	1,000	<1.0	N	N	30	50	150	N	50	N	30	20
8DH3369	10	100	N	N	N	N	N	<5	<50	N	N	<5	<10
8DH3377	10	70	N	N	N	N	N	5	N	N	N	<5	<10
8DH3378	N	70	N	N	N	N	20	1,000	N	N	N	<5	10
8DH3379	15	700	N	N	N	N	<10	30	<50	N	N	<5	200
8DH3380	N	300	N	N	N	N	N	30	N	N	N	<5	50
8DH3381	N	500	N	N	N	N	10	30	N	N	N	N	100
8DH3385	<10	200	N	N	N	N	10	15	N	N	N	<5	150
8DH3386	<10	200	N	N	N	N	10	200	N	N	N	<5	500
8DH3388	<10	150	N	N	N	N	<10	5	N	N	N	<5	<10
8DI3390A	<10	200	N	N	N	N	N	<5	N	N	N	<5	<10
8DI3390B	<10	2,000	N	N	N	N	30	7	50	7	<20	<5	30
8DI3390C	<10	200	N	N	N	N	N	N	N	N	N	<5	<10
8DH3394	N	500	N	N	N	N	50	30	70	N	N	N	2,000
8DH3398	N	300	N	N	N	N	10	20	N	5	N	N	100
8DH3406	<10	100	N	N	N	N	20	7	N	N	N	<5	<10
8DH3408	<10	500	N	N	N	N	30	5	<50	7	N	N	15
8DH3409	10	200	<1.0	N	N	N	<10	<5	<50	N	N	<5	<10
8DI3410	20	300	<1.0	N	N	N	50	7,000	<50	N	N	<5	20
8DI3411	N	50	N	200	N	<10	100	700	N	5	<20	20	150
8DH3413	10	50	N	N	N	N	20	30	N	N	<20	N	N

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--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	Au-ppm aa	AS-PPM ICP
8DH3337A	N	7	N	N	50	N	30	N	200	N	<.05	5.0
8DH3337B	N	<5	N	150	20	N	50	N	200	N	<.05	7.0
8DH3339A	N	<5	N	500	30	N	30	N	500	N	.30	27.0
8DH3339B	N	N	N	<100	<10	N	N	N	20	N	<.05	<5.0
8DH3340	N	N	N	200	15	N	N	N	150	N	.20	10.0
8DH3342	N	N	N	150	<10	N	N	N	N	N	<.05	<5.0
8DH3343	N	N	N	200	10	N	N	N	N	N	<.05	20.0
8DH3344	N	N	N	100	15	N	N	N	N	N	<.05	44.0
8DH3345	N	<5	N	500	20	N	10	N	20	N	<.05	13.0
8DH3346A	N	N	N	N	70	N	N	N	<10	N	<.05	33.0
8DH3346B	N	<5	N	N	100	N	70	<200	100	N	<.05	32.0
8DH3346C	<100	5	N	N	200	N	50	200	100	N	.10	230.0
8DH3346D	N	N	N	N	15	N	N	N	N	N	<.05	45.0
8D13347	N	N	N	N	100	N	50	N	100	N	.20	470.0
8DH3348A	N	5	N	N	70	N	15	N	100	N	<.05	46.0
8DH3348B	N	<5	N	N	50	N	30	N	150	N	<.05	92.0
8DH3349	N	N	N	N	50	N	N	N	<10	N	.10	84.0
8DH3350A	N	N	N	N	15	N	15	N	150	N	.10	86.0
8DH3350B	N	<5	N	1,500	150	N	100	N	70	N	.10	230.0
8DH3350C	N	N	N	500	100	N	20	N	100	N	.10	430.0
8DH3351	N	N	N	N	150	N	N	N	N	N	.05	120.0
8DH3353	N	N	N	N	15	N	<10	N	70	N	.10	19.0
8DH3354	N	10	N	200	100	N	20	N	100	N	<.05	<5.0
8DH3355	N	<5	N	N	20	N	50	N	300	N	<.05	<5.0
8D13363	N	10	N	N	30	N	15	500	100	N	<.05	<5.0
8DH3369	N	N	N	100	10	N	N	N	50	N	N	9.0
8DH3377	N	N	N	N	15	N	N	N	30	N	N	<5.0
8DH3378	N	N	N	N	50	N	N	N	20	N	N	450.0
8DH3379	N	7	N	100	200	N	10	N	200	N	N	51.0
8DH3380	N	N	N	<100	20	N	N	N	30	N	N	64.0
8DH3381	N	N	N	<100	70	N	N	N	200	N	N	24.0
8DH3385	N	<5	N	N	150	N	<10	N	30	N	N	63.0
8DH3386	N	N	N	200	20	N	N	N	30	N	N	22.0
8DH3388	N	N	N	N	15	N	N	N	100	N	N	5.0
8D13390A	N	<5	N	N	10	N	10	N	200	N	.10	<5.0
8D13390B	N	5	N	500	20	N	15	N	300	N	.40	170.0
8D13390C	N	N	N	N	<10	N	N	N	30	N	N	<5.0
8DH3394	N	N	N	700	50	N	N	N	200	N	N	78.0
8DH3398	N	N	N	200	20	N	N	N	200	N	N	6.0
8DH3406	N	N	N	N	10	N	N	N	150	N	N	<5.0
8DH3408	N	N	N	N	15	N	<10	N	200	N	N	36.0
8DH3409	N	N	N	N	10	N	N	N	150	N	N	<5.0
8D13410	N	5	N	<100	100	N	<10	N	150	N	N	18.0
8D13411	500	N	N	N	300	N	20	N	500	N	.10	1,500.0
8DH3413	N	N	N	N	10	N	N	N	500	N	N	12.0

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	BI-PPM ICP	CD-PPM ICP	SB-PPM ICP	ZN-PPM ICP	Na-pct. s	P-pct. s	Ga-ppm s	Ge-ppm s	HG-PPM CV	F% ISE
8DH3337A	<2.00	.500	5.00	3.00	N	<.2	10	N	.06	.01
8DH3337B	<2.00	.400	5.00	<2.00	.2	<.2	10	N	.08	<.01
8DH3339A	<2.00	.500	<2.00	<2.00	N	.2	15	N	2.08	.03
8DH3339B	<2.00	.700	<2.00	18.00	N	N	<5	N	.02	<.01
8DH3340	<2.00	<.100	<2.00	<2.00	N	<.2	5	N	N	<.01
8DH3342	<2.00	<.100	<2.00	<2.00	N	N	N	N	N	<.01
8DH3343	<2.00	.100	<2.00	5.00	N	N	N	N	N	<.01
8DH3344	<2.00	.700	<2.00	4.00	N	N	N	N	N	.02
8DH3345	<2.00	.200	<2.00	9.00	<.2	N	15	N	N	.03
8DH3346A	<2.00	<.100	2.00	3.00	N	N	<5	N	.24	<.01
8DH3346B	3.00	<.100	2.00	<2.00	N	<.2	<5	N	.04	.01
8DH3346C	8.00	2.100	2.00	6.00	N	N	15	N	.04	.03
8DH3346D	<2.00	.900	2.00	10.00	N	N	N	N	.52	<.01
8DI3347	<2.00	1.100	32.00	34.00	N	<.2	15	N	.28	.01
8DH3348A	<2.00	<.100	<2.00	42.00	<.2	.2	20	N	.02	.02
8DH3348B	<2.00	.600	<2.00	86.00	<.2	.5	10	N	.08	.07
8DH3349	<2.00	.500	24.00	51.00	N	N	N	N	.06	<.01
8DH3350A	<2.00	.400	<2.00	25.00	N	N	15	N	.04	.02
8DH3350B	<2.00	.300	3.00	120.00	N	2.0	10	N	1.10	.06
8DH3350C	11.00	1.600	42.00	120.00	N	N	10	N	.10	.02
8DH3351	<2.00	.500	23.00	61.00	N	<.2	5	N	1.60	<.01
8DH3353	<2.00	.100	6.00	<2.00	N	<.2	<5	N	.02	<.01
8DH3354	<2.00	<.100	<2.00	<2.00	N	.2	30	N	.02	.05
8DH3355	<2.00	.500	<2.00	8.00	N	.3	15	N	N	.03
8DI3363	<2.00	<.100	<2.00	<2.00	.3	N	100	N	.02	<.01
8DH3369	<2.00	.100	<2.00	<2.00	N	<.2	N	N	.02	N
8DH3377	<2.00	<.100	<2.00	3.00	N	<.2	<5	N	N	N
8DH3378	<2.00	4.900	18.00	24.00	N	N	10	N	.78	N
8DH3379	3.00	.300	2.00	<2.00	N	<.2	15	N	.04	N
8DH3380	2.00	.500	7.00	27.00	N	N	<5	N	.08	N
8DH3381	<2.00	3.600	<2.00	6.00	N	N	5	N	N	N
8DH3385	<2.00	.400	2.00	6.00	N	<.2	5	N	N	N
8DH3386	<2.00	.600	9.00	26.00	N	N	<5	N	.10	N
8DH3388	<2.00	.200	<2.00	6.00	N	N	N	N	N	N
8DI3390A	<2.00	.200	3.00	2.00	N	N	N	N	N	.10
8DI3390B	20.00	.900	53.00	7.00	N	<.2	<5	N	.14	.40
8DI3390C	<2.00	<.100	2.00	<2.00	N	N	N	N	N	N
8DH3394	12.00	1.200	10.00	9.00	N	.2	15	N	.04	N
8DH3398	<2.00	1.800	<2.00	110.00	<.2	N	7	N	N	N
8DH3406	<2.00	.100	<2.00	3.00	N	N	<5	N	N	N
8DH3408	3.00	.400	2.00	14.00	N	N	<5	N	.02	N
8DH3409	<2.00	.100	<2.00	3.00	N	<.2	N	N	.04	N
8DI3410	<2.00	<.100	<2.00	<2.00	<.2	<.2	15	N	.18	N
8DI3411	510.00	2.900	420.00	24.00	N	N	20	N	.80	.10
8DH3413	<2.00	<.100	9.00	<2.00	N	<.2	N	N	.02	N

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--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
9dh3467a	39 31 36	113 0 32	.70	<.02	<.05	.150	20	N	N	N
9dh3467b	39 31 36	113 0 32	5.00	.20	.10	.500	50	N	N	N
9dh3468b	39 31 36	113 0 32	10.00	1.00	5.00	.050	>5,000	N	N	N
9dh3468c	39 31 36	113 0 32	5.00	7.00	1.00	.150	2,000	N	N	N
9dh3469	39 31 36	113 0 32	.70	3.00	.07	.200	300	N	N	N
9dh3470a	39 31 36	113 0 32	5.00	<.02	.05	.100	10	N	<200	<10
9dh3470b	39 31 36	113 0 32	<.05	<.02	<.05	.200	50	N	N	N
9dh3470c	39 31 36	113 0 32	2.00	<.02	<.05	.200	70	N	N	N
9dh3471	39 31 36	113 0 32	5.00	<.02	<.05	.150	30	N	N	N
9dh3472a	39 31 36	113 0 32	5.00	.70	.07	.500	500	N	N	N
9dh3472b	39 31 36	113 0 32	1.50	.50	20.00	.150	1,000	N	N	N
9dh3473a	39 31 36	113 0 32	5.00	.20	.07	.200	200	N	<200	N
9dh3473b	39 31 36	113 0 32	3.00	<.02	.05	.200	30	N	N	N
9dh3473c	39 31 36	113 0 32	.10	<.02	.05	.150	20	N	N	N
9dh3473d	39 31 36	113 0 32	.10	<.02	.05	.300	<10	N	N	N
9dh3473e	39 31 36	113 0 32	.15	<.02	<.05	.500	10	N	N	N
9dh3473f	39 31 36	113 0 32	15.00	.02	.05	.150	50	N	1,500	N
9dh3473g	39 31 36	113 0 32	.50	<.02	.10	.100	15	N	N	N
9dh3474b	39 31 36	113 0 32	>20.00	.20	.30	.070	>5,000	N	<200	N
9dh3474c	39 31 36	113 0 32	.70	.50	<.05	.200	50	N	N	N
9dh3476	39 31 36	113 0 32	5.00	.50	.10	.200	200	N	N	N
9dh3477	39 31 36	113 0 32	10.00	.20	.07	.100	100	N	N	N
9dh3478	39 31 36	113 0 32	10.00	.70	1.00	.100	2,000	N	N	N
9dh3479	39 31 36	113 0 32	20.00	.30	.20	.050	700	N	500	N
9dh3480	39 31 36	113 0 32	5.00	.50	.05	.200	20	N	N	N
9dh3481	39 31 36	113 0 32	1.00	<.02	<.05	.150	10	N	N	N
9dh3482	39 31 36	113 0 32	.05	<.02	<.05	.150	30	N	N	N
9dh3483	39 31 36	113 0 32	.30	<.02	<.05	.200	10	N	N	N
9dh3484	39 31 36	113 0 32	3.00	.20	>20.00	.005	2,000	N	N	N
9dh3485	39 31 36	113 0 32	3.00	.10	.30	.070	>5,000	N	1,000	N
9dh3486	39 31 36	113 0 32	5.00	<.02	.05	.200	70	N	N	N
9dh3487	39 31 36	113 0 32	.70	.50	.20	.200	100	N	N	N
9dh3488b	39 31 39	113 0 25	2.00	<.02	<.05	.100	100	N	N	N
9dh3488e	39 31 39	113 0 25	7.00	<.02	<.05	.500	10	N	N	20
9dh3488f	39 31 39	113 0 25	.20	<.02	.05	.200	<10	N	N	15
9dh3488g	39 31 39	113 0 25	1.00	<.02	.05	.200	200	N	N	N
9dh3490	39 31 39	113 0 25	3.00	<.02	<.05	.200	150	N	N	N
9dh3492	39 31 39	113 0 25	3.00	.02	.05	.300	10	N	N	N
9dh3493a	39 31 39	113 0 25	.02	.70	.10	.300	1,000	N	N	N
9dh3493b	39 31 39	113 0 25	2.00	.50	.07	.300	30	N	N	N
9dh3493c	39 31 39	113 0 25	1.00	.02	<.05	.200	100	N	N	N
9dh3493d	39 31 39	113 0 25	.70	<.02	<.05	.150	500	N	N	N
9dh3493e	39 31 39	113 0 25	<.05	<.02	<.05	.150	20	N	N	N
9dh3493f	39 31 39	113 0 25	.50	<.02	<.05	.200	<10	N	N	N
9dh3493g	39 31 39	113 0 25	.07	<.02	<.05	.200	10	N	N	N

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	B-ppm s	Ba-ppm s	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
9dh3467a	10	100	N	N	N	N	<10	20	N	N	N	<5	<10
9dh3467b	20	500	<1.0	N	N	<10	150	50	50	<5	N	7	100
9dh3468b	N	5,000	1.0	N	N	10	<10	100	N	70	N	10	150
9dh3468c	<10	30	<1.0	N	N	N	30	30	<50	N	N	<5	20
9dh3469	50	1,000	2.0	N	N	<10	50	<5	50	N	N	<5	<10
9dh3470a	<10	200	N	N	N	<10	70	200	50	<5	N	N	500
9dh3470b	10	30	N	N	N	N	<10	<5	N	N	N	<5	N
9dh3470c	<10	200	N	N	N	N	30	70	N	N	N	<5	50
9dh3471	<10	500	N	N	N	<10	<10	300	N	N	N	<5	50
9dh3472a	50	500	5.0	N	N	N	50	7	50	N	<20	<5	100
9dh3472b	30	200	1.0	N	N	<10	10	10	N	N	N	5	10
9dh3473a	15	70	1.5	N	N	20	20	200	<50	N	N	30	150
9dh3473b	<10	150	<1.0	N	N	<10	10	70	N	N	N	<5	10
9dh3473c	10	100	N	N	N	N	10	5	<50	N	N	N	30
9dh3473d	10	300	<1.0	N	N	N	150	7	70	N	N	<5	150
9dh3473e	10	100	N	N	N	N	10	10	N	N	N	<5	N
9dh3473f	N	100	2.0	N	N	15	70	300	N	5	N	20	50
9dh3473g	10	70	N	N	N	N	<10	70	N	N	N	<5	N
9dh3474b	N	2,000	5.0	N	N	30	<10	300	N	N	N	100	200
9dh3474c	100	500	2.0	N	N	N	50	7	<50	N	N	10	30
9dh3476	70	1,000	2.0	N	N	<10	30	50	<50	N	N	7	150
9dh3477	20	100	1.5	N	N	<10	10	20	N	N	N	15	200
9dh3478	20	300	2.0	N	N	10	10	30	<50	N	N	30	200
9dh3479	N	50	3.0	N	N	20	<10	70	N	N	N	20	300
9dh3480	50	300	<1.0	N	N	N	30	70	<50	N	N	<5	20
9dh3481	10	200	N	N	N	N	N	10	N	N	N	N	<10
9dh3482	10	200	N	N	N	N	15	<5	N	N	N	N	30
9dh3483	10	50	N	N	N	N	<10	5	N	N	N	N	<10
9dh3484	<10	300	N	N	N	15	N	50	N	<5	N	10	1,000
9dh3485	10	3,000	5.0	10	N	150	<10	300	N	15	N	70	500
9dh3486	10	500	<1.0	N	N	10	30	30	<50	N	N	<5	200
9dh3487	50	700	2.0	N	N	N	30	10	N	N	N	N	100
9dh3488b	10	20	N	N	N	N	10	<5	N	N	N	N	150
9dh3488e	20	50	N	N	N	N	200	15	<50	N	20	N	500
9dh3488f	30	100	N	N	N	N	70	<5	N	N	N	N	100
9dh3488g	15	200	N	N	N	N	70	7	N	N	N	<5	300
9dh3490	10	50	<1.0	N	N	N	30	20	<50	N	N	<5	30
9dh3492	10	300	N	N	N	<10	100	30	<50	N	N	10	20
9dh3493a	50	1,000	<1.0	N	N	<10	20	<5	50	N	N	<5	100
9dh3493b	100	1,000	2.0	N	N	<10	150	30	50	N	N	20	150
9dh3493c	10	100	<1.0	N	N	<10	30	5	<50	N	N	7	<10
9dh3493d	10	70	N	N	N	N	20	10	N	N	N	5	<10
9dh3493e	10	50	N	N	N	N	30	<5	N	N	N	<5	<10
9dh3493f	10	700	N	N	N	N	20	7	N	N	N	<5	<10
9dh3493g	N	700	N	N	N	N	10	5	N	N	N	N	20

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--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	Au-ppm aa	AS-PPM ICP
9dh3467a	N	N	N	N	<10	N	N	N	150	N	1.00	29.0
9dh3467b	N	7	N	200	150	N	15	N	150	N	.10	42.0
9dh3468b	N	7	30	300	500	N	150	300	50	N	<.05	300.0
9dh3468c	N	<5	N	N	100	N	20	N	300	N	N	39.0
9dh3469	N	5	N	N	100	N	10	N	150	N	N	5.0
9dh3470a	N	N	N	1,000	100	N	N	N	200	N	3.20	400.0
9dh3470b	N	N	N	N	10	N	N	N	150	N	.55	1.8
9dh3470c	N	N	N	300	20	N	N	N	200	N	1.80	45.0
9dh3471	N	N	N	N	10	N	N	N	150	N	.40	44.0
9dh3472a	N	15	N	N	100	N	30	N	300	N	N	170.0
9dh3472b	N	N	N	N	30	N	10	N	100	N	<.05	55.0
9dh3473a	N	<5	N	<100	100	N	<10	N	150	N	.55	230.0
9dh3473b	N	N	N	N	50	N	N	N	100	N	.80	140.0
9dh3473c	N	N	N	100	50	N	N	N	100	N	.20	6.7
9dh3473d	N	10	N	500	150	N	15	N	200	N	.15	11.0
9dh3473e	N	N	N	N	10	N	N	N	30	N	.20	9.8
9dh3473f	N	N	N	<100	200	N	<10	N	200	N	2.00	850.0
9dh3473g	N	N	N	N	10	N	N	N	150	N	.25	30.0
9dh3474b	N	5	20	300	70	N	50	300	200	N	.05	340.0
9dh3474c	N	10	N	300	70	N	15	N	150	N	N	16.0
9dh3476	N	5	N	100	200	N	<10	N	100	N	N	140.0
9dh3477	N	<5	N	N	300	N	20	N	100	N	N	84.0
9dh3478	N	<5	N	N	500	N	30	N	200	N	N	130.0
9dh3479	N	5	N	200	500	N	50	300	70	N	N	520.0
9dh3480	N	7	N	N	50	N	15	N	100	N	.10	26.0
9dh3481	N	N	N	N	10	N	N	N	150	N	.05	30.0
9dh3482	N	N	N	<100	30	N	N	N	50	N	N	1.5
9dh3483	N	N	N	N	<10	N	N	N	70	N	3.00	15.0
9dh3484	N	N	N	N	50	N	10	N	<10	N	.25	120.0
9dh3485	N	<5	<10	300	100	N	50	500	100	N	.35	570.0
9dh3486	N	5	N	200	30	N	10	N	500	N	<.05	70.0
9dh3487	N	<5	N	N	150	N	N	N	100	N	.40	36.0
9dh3488b	N	N	N	200	30	N	N	N	70	N	.90	68.0
9dh3488e	N	5	50	300	150	N	N	N	100	N	16.80	88.0
9dh3488f	N	N	N	700	50	N	N	N	50	N	18.30	11.0
9dh3488g	N	N	N	200	20	N	N	N	20	N	.80	15.0
9dh3490	N	N	N	300	70	N	N	N	150	N	.80	150.0
9dh3492	N	<5	N	300	100	N	<10	N	70	N	.20	76.0
9dh3493a	N	7	N	300	100	N	15	N	150	N	<.05	N
9dh3493b	N	10	N	N	100	N	15	N	50	N	.10	14.0
9dh3493c	N	N	N	N	10	N	N	N	20	N	.10	9.4
9dh3493d	N	N	N	N	10	N	N	N	70	N	.45	6.5
9dh3493e	N	N	N	N	10	N	N	N	30	N	.65	1.5
9dh3493f	N	N	N	N	10	N	N	N	100	N	2.65	9.6
9dh3493g	N	N	N	<100	15	N	N	N	20	N	.55	35.0

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	BI-PPM ICP	CD-PPM ICP	SB-PPM ICP	ZN-PPM ICP	Na-pct. s	P-pct. s	Ga-ppm s	Ge-ppm s	HG-PPM CV	FX ISE
9dh3467a	.62	N	3.50	1.70	N	N	N	N	.40	<.01
9dh3467b	N	N	2.10	2.00	<.2	<.2	10	N	.10	.06
9dh3468b	4.00	.170	9.40	170.00	3.0	N	15	N	.14	.03
9dh3468c	N	N	1.60	64.00	.5	<.2	15	N	.02	.07
9dh3469	N	.081	N	25.00	N	<.2	15	N	N	.06
9dh3470a	23.00	.063	34.00	N	N	.2	30	N	.24	.06
9dh3470b	N	N	1.50	.32	N	N	N	N	.04	.01
9dh3470c	2.20	N	5.30	.50	N	N	5	N	1.40	<.01
9dh3471	2.90	.037	5.10	.10	N	N	<5	N	.44	<.01
9dh3472a	N	.087	11.00	49.00	N	N	20	N	.02	.05
9dh3472b	N	.110	2.20	47.00	N	N	10	N	.04	.03
9dh3473a	10.00	.085	23.00	55.00	N	N	7	N	.04	.04
9dh3473b	2.60	.040	5.70	9.90	N	N	<5	N	.12	<.01
9dh3473c	.65	N	.68	1.40	N	<.2	<5	N	.02	.01
9dh3473d	N	N	.65	1.20	N	.2	10	N	.02	.05
9dh3473e	1.00	N	.87	.99	N	<.2	N	N	.02	<.01
9dh3473f	11.00	.100	35.00	50.00	N	N	10	N	.20	<.01
9dh3473g	N	N	2.40	3.30	N	<.2	N	N	.10	<.01
9dh3474b	.61	2.600	12.00	190.00	N	N	10	N	2.10	.04
9dh3474c	.73	.037	1.30	18.00	N	.2	15	N	.04	.06
9dh3476	.86	.082	13.00	99.00	1.0	<.2	15	N	.02	.06
9dh3477	1.20	.340	6.90	61.00	N	N	15	N	.08	.01
9dh3478	N	.720	6.60	120.00	.2	N	10	N	.06	.04
9dh3479	N	.270	52.00	95.00	1.5	N	15	N	N	.02
9dh3480	.88	N	2.10	N	N	N	20	N	.26	.08
9dh3481	.70	.065	2.00	N	N	<.2	N	N	.26	<.01
9dh3482	N	N	N	22.00	N	<.2	<5	N	N	.01
9dh3483	.74	N	2.00	28.00	N	<.2	N	N	.30	<.01
9dh3484	3.90	.720	4.10	110.00	N	N	<5	N	.24	.01
9dh3485	8.70	2.900	26.00	310.00	1.0	N	10	N	.60	.04
9dh3486	3.30	N	3.40	26.00	N	<.2	10	N	.18	.04
9dh3487	N	.031	3.30	11.00	.7	N	7	N	N	.04
9dh3488b	1.90	N	31.00	2.10	N	N	<5	N	.02	.01
9dh3488e	6.70	N	3.70	2.80	N	<.2	30	N	.20	.14
9dh3488f	.64	N	1.10	.65	N	.2	5	N	N	.03
9dh3488g	N	N	3.10	.32	<.2	<.2	20	N	N	.03
9dh3490	.89	N	9.00	12.00	N	N	5	N	N	.04
9dh3492	3.20	.068	4.20	13.00	<.2	N	15	N	.10	.05
9dh3493a	N	N	N	2.20	.7	.2	10	N	.20	.05
9dh3493b	.63	.091	1.10	14.00	1.5	<.2	30	N	1.30	.06
9dh3493c	N	N	N	47.00	N	<.2	<5	N	10.40	<.01
9dh3493d	1.10	N	N	21.00	N	<.2	N	N	1.60	<.01
9dh3493e	N	N	N	.16	N	<.2	N	N	N	<.01
9dh3493f	1.30	N	6.20	1.10	N	<.2	N	N	.44	<.01
9dh3493g	1.10	N	7.20	2.90	N	N	5	N	.12	.02

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--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
9dh3493h	39 31 39	113 0 25	7.00	<.02	.05	.150	50	N	N	N
8DH3500	39 34 33	113 0 7	.05	<.02	.05	.020	20	N	N	N
8DI3501	39 34 30	112 59 57	2.00	.05	.20	.300	30	N	<200	N
8DI3502	39 34 28	112 59 49	2.00	.02	.20	.150	20	N	N	N
8DI3503	39 33 57	112 59 43	5.00	<.02	<.05	.050	15	N	N	N
8DI3504	39 34 22	112 59 44	1.50	<.02	.05	.150	20	N	N	N
8DH3505	39 34 24	113 0 14	5.00	.02	.07	.100	10	N	N	N
8DH3506	39 33 56	113 0 28	3.00	.03	.10	.050	30	N	N	N
8DH3507	39 34 16	113 1 23	7.00	.02	.05	.020	15	N	N	N
8DH3508	39 34 35	113 1 5	1.00	.05	.50	.020	50	N	N	N
8DH3510	39 33 53	113 0 51	1.50	<.02	.07	.100	15	N	N	N
8DH3511	39 33 47	113 0 45	1.50	.03	.15	.300	15	N	N	N
8DH3512	39 33 47	113 0 45	10.00	.03	.10	.150	10	N	N	N
8DH3513	39 33 44	113 1 12	10.00	.03	.15	.150	100	N	200	N
8DH3514	39 33 42	113 1 26	15.00	.70	.20	.100	>5,000	N	5,000	N
8DH3515	39 33 46	113 0 25	3.00	.02	<.05	.070	70	N	N	N
8DH3516	39 33 53	113 0 18	3.00	.05	.15	.200	20	5.00	N	N
8DH3517	39 33 57	113 0 10	3.00	.02	.30	.150	15	N	N	N
8DI3518	39 33 40	112 59 54	5.00	.02	.10	.100	100	N	N	N
8DH3519	39 33 46	113 0 4	7.00	.20	.15	.300	5,000	N	N	N
8DH3520	39 33 26	113 0 44	3.00	.10	.20	.200	50	N	N	N
8DH3521	39 33 18	113 0 52	2.00	.15	.50	.200	50	N	N	N
8DH3522	39 33 22	113 0 43	.10	.03	.20	1.000	70	2.00	N	N
8DH3523	39 33 25	113 0 37	3.00	.10	.30	.300	30	2.00	N	N
8DH3524	39 33 25	113 0 8	5.00	.10	.30	.300	70	.50	300	N
8DH3526	39 33 3	113 0 4	.50	.02	.10	.500	70	N	N	N
8DI3527	39 33 38	112 59 53	10.00	.10	1.00	.200	500	.70	500	N
8DH3528	39 33 18	113 0 27	2.00	.03	.20	.200	50	N	N	N
8DH3529	39 33 9	113 0 41	1.50	.05	.30	.300	20	10.00	N	N
8DH3530	39 33 1	113 0 24	5.00	.05	.20	.300	70	<.50	N	N
8DH3532	39 33 1	113 0 25	1.00	.03	.50	.300	70	5.00	N	N
8DH3533	39 33 4	113 0 10	2.00	.07	.50	.500	70	N	N	N
8DH3534	39 33 4	113 0 10	1.50	.10	.70	.200	50	N	N	N
8DH3535	39 32 46	113 0 29	2.00	.03	.30	.200	10	N	N	N
8DH3536	39 32 51	113 0 18	1.50	.03	.50	.150	30	N	N	N
8DI3537	39 32 51	112 59 55	.70	.02	.20	.150	50	N	N	N
8DI3538	39 32 57	112 59 53	3.00	.02	.15	.300	70	2.00	300	N
8DI3539	39 32 48	112 59 40	5.00	.02	.20	.200	20	.50	N	N
8DI3540	39 32 38	112 59 32	2.00	.02	.50	.200	150	N	N	N
8DI3541	39 32 29	112 59 1	1.50	<.02	.05	.150	10	N	N	N
8DI3542	39 32 41	112 59 4	2.00	.05	.50	.500	150	1.00	N	N
8DI3543	39 32 49	112 58 42	3.00	.20	5.00	.070	50	2.00	N	N
8DI3544	39 32 56	112 58 53	10.00	.20	2.00	.100	100	N	200	N
8DI3545	39 32 31	112 59 47	5.00	.10	.20	.500	20	N	N	N
8DI3546	39 32 34	112 59 48	1.00	.03	.10	.150	20	N	N	N

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	B-ppm s	Ba-ppm s	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
9dh3493h	<10	100	<1.0	N	N	N	20	10	<50	N	N	N	50
8DH3500	10	30	N	N	N	N	N	5	N	N	N	<5	N
8D13501	<10	50	N	N	N	15	50	30	<50	N	N	15	10
8D13502	<10	200	N	N	N	N	N	5	N	N	N	N	<10
8D13503	<10	200	N	N	N	N	N	5	N	N	N	N	<10
8D13504	10	200	N	N	N	N	<10	7	N	N	N	<5	<10
8DH3505	<10	30	N	N	N	<10	<10	20	N	N	N	<5	<10
8DH3506	<10	300	N	N	N	N	N	5	N	N	N	<5	N
8DH3507	N	200	N	N	N	N	N	30	N	N	N	<5	N
8DH3508	<10	200	N	N	N	N	N	7	N	N	N	<5	<10
8DH3510	<10	100	N	N	N	N	N	5	N	N	N	<5	<10
8DH3511	<10	200	N	N	N	N	<10	50	N	N	N	N	30
8DH3512	N	500	N	N	N	N	10	50	N	5	N	<5	10
8DH3513	N	300	N	N	N	<10	10	10	<50	N	N	10	100
8DH3514	<10	1,000	3.0	N	N	10	<10	10	N	N	N	7	<10
8DH3515	10	150	N	N	N	N	<10	<5	N	N	N	<5	<10
8DH3516	10	500	N	N	N	N	N	<5	<50	5	N	<5	<10
8DH3517	10	100	N	N	N	N	N	7	N	N	N	<5	N
8D13518	10	100	1.5	N	N	N	N	7	N	N	N	<5	30
8DH3519	20	700	1.0	N	N	50	<10	50	N	5	N	30	30
8DH3520	15	700	N	N	N	N	20	10	<50	20	N	5	200
8DH3521	10	300	N	N	N	N	15	50	50	20	N	7	300
8DH3522	15	150	<1.0	N	N	N	30	5	<50	15	20	<5	30
8DH3523	15	300	1.0	N	N	20	30	300	70	10	N	30	200
8DH3524	15	300	1.5	N	N	<10	N	50	50	<5	N	10	500
8DH3526	10	200	<1.0	N	N	N	10	7	N	7	20	<5	N
8D13527	20	200	5.0	N	N	<10	N	10	N	10	N	5	200
8DH3528	15	500	<1.0	N	N	30	10	50	70	<5	<20	50	50
8DH3529	20	1,500	<1.0	N	N	<10	<10	10	70	<5	<20	7	1,000
8DH3530	15	100	1.5	N	N	<10	30	50	<50	20	N	10	300
8DH3532	10	150	N	N	N	N	30	20	<50	5	<20	<5	150
8DH3533	20	700	<1.0	N	N	15	20	20	<50	20	<20	20	30
8DH3534	15	500	N	N	N	<10	<10	15	<50	10	N	7	50
8DH3535	15	700	<1.0	N	N	<10	10	10	<50	<5	N	5	20
8DH3536	15	200	N	N	N	<10	10	10	N	<5	N	5	100
8D13537	15	100	N	N	N	<10	<10	10	N	<5	N	5	20
8D13538	15	2,000	<1.0	20	N	<10	15	15	N	10	<20	15	200
8D13539	10	300	<1.0	N	N	N	70	30	<50	10	N	20	150
8D13540	<10	500	N	N	N	N	N	10	<50	<5	N	5	10
8D13541	<10	50	N	N	N	N	N	<5	N	N	N	<5	N
8D13542	15	1,000	<1.0	N	N	N	N	5	100	<5	<20	N	200
8D13543	20	700	<1.0	N	N	N	N	<5	N	<5	N	7	300
8D13544	100	500	7.0	N	N	10	<10	5	N	<5	N	20	50
8D13545	15	200	<1.0	N	N	N	50	10	N	5	<20	<5	50
8D13546	10	100	N	N	N	N	<10	20	N	<5	N	<5	N

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--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	Au-ppm aa	AS-PPM ICP
9dh3493h	N	N	N	150	70	N	N	N	70	N	.25	23.0
8DH3500	N	N	N	N	<10	N	N	N	50	N	N	<5.0
8DI3501	N	<5	N	N	150	N	10	N	100	N	N	170.0
8DI3502	N	N	N	N	50	N	N	N	50	N	N	17.0
8DI3503	N	N	N	N	15	N	N	N	150	N	N	110.0
8DI3504	N	N	N	<100	20	N	N	N	150	N	N	47.0
8DH3505	N	N	N	N	50	N	N	N	300	N	N	50.0
8DH3506	N	N	N	100	15	N	N	N	50	N	.05	51.0
8DH3507	N	N	N	N	15	N	N	N	100	N	N	80.0
8DH3508	N	N	N	N	10	N	N	N	50	N	.05	28.0
8DH3510	N	N	N	N	15	N	N	N	150	N	N	<5.0
8DH3511	N	N	N	500	50	N	N	N	150	N	.05	19.0
8DH3512	N	N	N	N	30	N	N	N	100	N	.10	27.0
8DH3513	N	<5	N	1,000	100	N	N	N	100	N	.10	330.0
8DH3514	N	15	N	<100	20	N	70	N	200	N	.30	3,700.0
8DH3515	N	N	N	700	15	N	N	N	70	N	N	71.0
8DH3516	N	N	N	<100	15	N	15	N	300	N	N	70.0
8DH3517	N	N	N	N	15	N	<10	N	300	N	N	18.0
8DI3518	<100	N	N	N	50	20	N	N	200	N	N	120.0
8DH3519	N	5	N	<100	500	N	10	700	200	N	N	89.0
8DH3520	N	5	N	500	200	N	15	N	300	N	N	150.0
8DH3521	N	5	N	700	150	N	10	N	200	N	N	14.0
8DH3522	N	5	N	N	20	N	15	N	500	N	N	<5.0
8DH3523	N	5	N	700	100	N	15	1,000	300	N	.05	150.0
8DH3524	100	7	N	1,000	100	N	20	200	200	N	N	310.0
8DH3526	N	7	N	N	20	N	20	N	300	N	N	13.0
8DI3527	500	5	N	200	100	50	10	N	100	N	.40	370.0
8DH3528	N	10	N	<100	30	N	20	N	200	N	N	20.0
8DH3529	N	5	N	200	70	N	15	N	200	N	N	13.0
8DH3530	N	5	N	200	100	N	20	N	200	N	N	20.0
8DH3532	300	<5	N	<100	30	N	10	N	200	N	N	48.0
8DH3533	N	<5	N	150	50	N	15	N	300	N	N	47.0
8DH3534	N	N	N	500	30	N	N	N	150	N	N	13.0
8DH3535	N	5	N	300	50	N	20	N	200	N	N	8.0
8DH3536	N	N	N	500	50	N	<10	N	100	N	N	14.0
8DI3537	N	N	N	500	50	N	N	N	150	N	N	42.0
8DI3538	N	7	N	300	100	30	20	N	200	N	.10	280.0
8DI3539	N	5	N	700	100	N	<10	200	300	N	.20	89.0
8DI3540	N	5	N	1,000	100	N	<10	N	200	N	N	52.0
8DI3541	N	N	N	N	50	N	N	N	200	N	N	15.0
8DI3542	N	10	N	1,000	100	N	20	N	500	N	.10	100.0
8DI3543	N	N	N	1,000	100	N	<10	N	70	N	N	55.0
8DI3544	N	<5	N	700	200	N	10	N	100	N	N	240.0
8DI3545	N	5	N	700	150	N	10	N	300	N	N	18.0
8DI3546	N	5	N	150	100	N	30	N	300	N	N	44.0

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	BI-PPM ICP	CD-PPM ICP	SB-PPM ICP	ZN-PPM ICP	Na-pct. s	P-pct. s	Ga-ppm s	Ge-ppm s	HG-PPM CV	FX ISE
9dh3493h	1.50	.033	12.00	6.30	N	N	10	N	.18	.03
8DH3500	<2.00	<.100	3.00	<2.00	N	<.2	N	N	N	N
8DH3501	<2.00	.500	12.00	35.00	N	<.2	10	N	.36	N
8DH3502	<2.00	.300	4.00	3.00	N	N	<5	N	N	N
8DH3503	<2.00	.400	3.00	7.00	N	N	5	N	N	N
8DH3504	<2.00	.200	2.00	<2.00	N	<.2	5	N	.32	N
8DH3505	<2.00	.500	3.00	9.00	N	N	5	N	.24	N
8DH3506	<2.00	.400	3.00	12.00	N	<.2	5	N	.10	.05
8DH3507	<2.00	.700	2.00	9.00	N	<.2	5	N	.10	N
8DH3508	<2.00	.300	7.00	<2.00	N	N	<5	N	.14	.05
8DH3510	<2.00	.200	<2.00	<2.00	N	<.2	<5	N	.04	N
8DH3511	4.00	.300	10.00	4.00	N	<.2	5	N	.04	.05
8DH3512	7.00	1.000	21.00	28.00	N	N	7	N	.04	.10
8DH3513	4.00	.900	5.00	4.00	<.2	<.2	10	N	.20	.10
8DH3514	<2.00	2.300	22.00	61.00	<.2	N	10	N	.0	.30
8DH3515	<2.00	.200	5.00	36.00	N	<.2	<5	N	N	N
8DH3516	<2.00	<.100	3.00	8.00	N	<.2	<5	N	.06	<.01
8DH3517	<2.00	<.100	<2.00	4.00	N	N	<5	N	.02	<.01
8DH3518	<2.00	.100	58.00	12.00	N	N	<5	N	.02	<.01
8DH3519	<2.00	1.300	4.00	320.00	N	<.2	10	N	.18	.03
8DH3520	<2.00	.200	4.00	69.00	N	.2	<5	N	.12	.03
8DH3521	<2.00	.600	<2.00	55.00	N	.2	20	N	.02	.08
8DH3522	<2.00	<.100	<2.00	8.00	N	<.2	<5	N	.08	<.01
8DH3523	7.00	1.100	18.00	610.00	N	<.2	10	N	.32	.03
8DH3524	<2.00	.700	86.00	160.00	N	.2	30	N	1.30	.05
8DH3526	<2.00	<.100	5.00	7.00	N	<.2	N	N	.16	<.01
8DH3527	<2.00	2.000	270.00	41.00	N	<.2	10	20	.38	<.01
8DH3528	3.00	.200	5.00	18.00	N	<.2	N	N	.12	<.01
8DH3529	<2.00	.200	<2.00	27.00	N	.2	20	N	1.80	.02
8DH3530	<2.00	.500	3.00	77.00	N	<.2	15	N	.06	.02
8DH3532	7.00	.200	49.00	3.00	N	<.2	N	N	3.80	<.01
8DH3533	4.00	.700	4.00	92.00	N	N	5	N	.04	<.01
8DH3534	<2.00	.400	<2.00	18.00	N	.2	5	N	.10	.02
8DH3535	<2.00	.200	<2.00	6.00	N	.5	5	N	.04	.02
8DH3536	<2.00	.100	<2.00	2.00	N	<.2	7	N	.04	.01
8DH3537	<2.00	.100	5.00	7.00	N	<.2	<5	N	N	.01
8DH3538	29.00	.500	40.00	170.00	N	<.2	5	N	.16	<.01
8DH3539	<2.00	.300	84.00	120.00	<.2	<.2	10	N	.10	.02
8DH3540	<2.00	.200	6.00	9.00	N	<.2	<5	N	N	.03
8DH3541	<2.00	<.100	<2.00	<2.00	N	N	<5	N	.02	<.01
8DH3542	<2.00	.200	<2.00	<2.00	.2	.2	30	N	2.80	.04
8DH3543	<2.00	.400	10.00	2.00	<.2	<.2	10	N	.08	.03
8DH3544	<2.00	1.400	13.00	9.00	.3	N	20	N	.06	.03
8DH3545	4.00	.500	<2.00	3.00	<.2	<.2	10	N	.02	.02
8DH3546	<2.00	.100	<2.00	6.00	<.2	<.2	<5	N	.04	.01

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--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
8D13547	39 32 31	112 59 53	1.50	.03	.20	.200	30	N	N	N
8D13548	39 32 0	112 59 22	3.00	.20	.20	.300	50	N	10,000	N
8D13549	39 32 1	112 59 24	2.00	.15	.50	.300	50	N	N	N
8D13550	39 31 56	112 59 37	5.00	.15	.20	.500	20	N	N	N
8D13551	39 32 19	112 59 29	10.00	.20	.15	.500	200	N	N	N
8D13552	39 31 43	112 59 47	7.00	.03	.10	.050	20	N	500	N
8D13553	39 31 37	112 59 52	10.00	.20	.20	.300	100	.70	1,500	N
8D13554	39 31 34	112 59 58	7.00	.20	.70	.100	150	N	700	N
8D13555	39 31 33	112 59 55	15.00	.30	5.00	.050	500	1.00	1,500	N
8D13556	39 31 28	112 59 52	5.00	1.50	1.00	.070	>5,000	N	700	N
8DH3557	39 31 31	113 0 0	20.00	.20	3.00	.070	200	<.50	500	N
8DH3558	39 31 33	113 0 0	.10	<.02	.05	.050	20	N	N	N
8DH3559	39 31 45	113 0 2	2.00	.20	.20	.200	50	N	N	N

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	B-ppm s	Ba-ppm s	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
8D13547	10	500	<1.0	N	N	<10	<10	30	<50	10	N	10	50
8D13548	30	700	5.0	N	N	30	100	15	50	10	N	20	30
8D13549	30	1,000	1.0	N	N	<10	10	10	<50	<5	N	5	<10
8D13550	100	150	<1.0	N	N	10	20	20	<50	15	N	20	20
8D13551	70	1,000	2.0	N	N	20	150	15	50	N	N	15	50
8D13552	20	200	2.0	N	N	N	<10	15	N	10	N	7	10
8D13553	50	200	1.0	N	N	N	<10	10	50	30	N	5	50
8D13554	50	100	3.0	N	N	20	50	15	N	15	N	15	50
8D13555	<10	<20	<1.0	N	N	15	20	100	N	10	N	20	500
8D13556	50	200	5.0	N	N	70	N	100	N	20	N	150	200
8DH3557	20	50	<1.0	N	N	20	N	70	<50	5	N	50	200
8DH3558	20	20	<1.0	N	N	N	20	<5	N	N	N	<5	N
8DH3559	50	200	<1.0	N	N	<10	50	20	<50	7	<20	7	200

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--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	Au-ppm aa	AS-PPM ICP
8013547	N	10	N	500	150	N	20	N	300	N	N	62.0
8013548	N	15	N	500	150	N	30	N	200	N	N	3,600.0
8013549	N	7	N	100	100	N	20	N	300	N	N	32.0
8013550	N	15	N	200	150	N	20	N	200	N	N	28.0
8013551	N	20	N	300	150	N	30	N	200	N	N	67.0
8013552	N	5	N	500	150	N	10	N	70	N	N	490.0
8013553	N	7	N	200	50	N	100	N	200	N	N	820.0
8013554	N	5	N	<100	70	N	50	N	200	N	N	470.0
8013555	200	<5	N	300	100	N	15	200	70	N	.50	1,600.0
8013556	N	<5	N	700	150	N	100	500	70	N	.05	570.0
80H3557	N	<5	N	200	200	N	20	N	50	N	N	360.0
80H3558	N	N	N	N	10	N	<10	N	100	N	<.05	300.0
80H3559	N	10	N	300	100	N	20	N	200	N	<.05	58.0

TABLE 4--RESULTS OF ANALYSES, DETROIT MINING DISTRICT, UTAH--Continued

Sample	BI-PPM ICP	CD-PPM ICP	SB-PPM ICP	ZN-PPM ICP	Na-pct. s	P-pct. s	Ga-ppm s	Ge-ppm s	HG-PPM CV	F% ISE
8013547	<2.00	.200	<2.00	15.00	<.2	.2	15	N	.08	.03
8013548	<2.00	.300	39.00	14.00	<.2	.3	20	N	.0	.03
8013549	<2.00	.200	<2.00	4.00	<.2	.2	20	N	N	.03
8013550	<2.00	.400	2.00	4.00	.2	.3	30	N	.48	.07
8013551	<2.00	1.100	3.00	21.00	<.2	<.2	50	N	N	.07
8013552	<2.00	.400	10.00	22.00	<.2	.5	5	N	.10	<.01
8013553	<2.00	.900	5.00	3.00	.2	N	20	N	N	.02
8013554	<2.00	1.300	7.00	81.00	<.2	.2	10	N	.32	.03
8013555	4.00	5.300	120.00	57.00	<.2	N	70	N	.16	.02
8013556	<2.00	4.100	20.00	490.00	1.0	.5	20	N	.18	.04
80H3557	10.00	6.000	7.00	39.00	<.2	N	30	N	.14	<.01
80H3558	<2.00	7.700	27.00	410.00	<.2	<.2	5	N	.10	.03
80H3559	<2.00	.200	<2.00	12.00	<.2	N	50	N	.04	.05