



**EXPLANATION**

□—5000 to 10(000) PPM, HIGHLY ANOMALOUS VALUES  
□—2000 to 3000 PPM, MODERATELY ANOMALOUS VALUES  
□—700 to 1500 PPM, WEAKLY ANOMALOUS VALUES  
□—GREATER THAN 10000 PPM

**EXPLANATION**

Bi—1000 to 10(000) PPM, HIGHLY ANOMALOUS VALUES  
Bi—200 to 700 PPM, MODERATELY ANOMALOUS VALUES  
Bi—15 to 150 PPM, WEAKLY ANOMALOUS VALUES  
Bi—GREATER THAN 2000 PPM

**EXPLANATION**

Cu—15 to 20 PPM, MODERATELY ANOMALOUS VALUES  
L—DETECTED BUT LESS THAN 10 PPM  
N—NOT DETECTED

**EXPLANATION**

Pb—300 to 1000 PPM, HIGHLY ANOMALOUS VALUES  
Pb—100 to 150 PPM, MODERATELY ANOMALOUS VALUES  
L—DETECTED BUT LESS THAN 20 PPM  
N—NOT DETECTED

**EXPLANATION**

Mo—70 to 100 PPM, MODERATELY ANOMALOUS VALUES  
Mo—50 PPM, MODERATELY ANOMALOUS VALUES  
Mo—20 to 30 PPM, WEAKLY ANOMALOUS VALUES  
L—DETECTED BUT LESS THAN 7 PPM  
N—NOT DETECTED

**EXPLANATION**

Ag—5 to 7 PPM, HIGHLY ANOMALOUS VALUES  
Ag—1.5 to 3 PPM, MODERATELY ANOMALOUS VALUES  
N—DETECTED BUT LESS THAN 0.7 PPM  
L—NOT DETECTED

**EXPLANATION**

Sn—150 PPM, HIGHLY ANOMALOUS VALUES  
Sn—100 PPM, MODERATELY ANOMALOUS VALUES  
L—DETECTED BUT LESS THAN 15 PPM  
N—NOT DETECTED

**EXPLANATION**

W—1000 PPM, HIGHLY ANOMALOUS VALUES  
W—300 to 700 PPM, MODERATELY ANOMALOUS VALUES  
W—100 to 200 PPM, WEAKLY ANOMALOUS VALUES  
L—DETECTED BUT LESS THAN 70 PPM  
N—NOT DETECTED

**EXPLANATION**

U—22.9 to 134 PPM, HIGHLY ANOMALOUS VALUES

**INTRODUCTION**

The purpose of this map is to provide a geochronological framework for the mineral resource assessment of the Domeland Wilderness and contiguous roadless areas. This report presents the results of a geochronological survey of the Domeland Wilderness and Woodpecker and Domeland Addition Roadless Areas in the Sierra National Forest, Kern and Tulare Counties, California. The map shows the distribution of anomalous concentrations of trace elements in the nonmagnetic fraction of heavy-mineral concentrates derived from stream sediments and selected samples of stream sediments.

The Domeland Wilderness is in the southern block of the Sierra Nevada batholith, California. The South Fork of the Kern River flows through the area. It is moderately and irregularly 1600 ft (1100 m) along the canyon of the Kern River. The highest point in the area is Silver Peak at 9977 ft (3031 m), and the lowest point is along the Kern River in the southeastern part of the study area, 3005 ft (914 m). Rangeland and mixed conifer forest are the main types of vegetation.

**DESCRIPTION OF THE STUDY AREA**

The study area is located in the southern part of the Sierra Nevada batholith, California. The South Fork of the Kern River flows through the area. It is moderately and irregularly 1600 ft (1100 m) along the canyon of the Kern River. The highest point in the area is Silver Peak at 9977 ft (3031 m), and the lowest point is along the Kern River in the southeastern part of the study area, 3005 ft (914 m). Rangeland and mixed conifer forest are the main types of vegetation.

**MAP PREPARATION**

Topographic maps were used as the base for the map. The map was prepared by digitizing the topographic maps and adding the data from the field studies. The map was prepared by digitizing the topographic maps and adding the data from the field studies.

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**REFERENCES CITED**

Bergquist, R. A., and Wiskulicz, A. M., 1980, Geologic map of the Sierra National Forest, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-A, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-B, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-C, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-D, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-E, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-F, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-G, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-H, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-I, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-J, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-K, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-L, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-M, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-N, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-O, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-P, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-Q, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-R, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-S, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-T, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-U, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-V, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-W, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-X, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-Y, scale 1:48,000.

Miller, W. J., and McHugh, J. R., 1980, Distribution of trace elements in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Domeland Wilderness and contiguous roadless areas, Kern and Tulare Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1395-Z, scale 1:48,000.

MAP SHOWING DISTRIBUTION OF ANOMALOUS CONCENTRATIONS OF TRACE ELEMENTS IN THE NONMAGNETIC FRACTION OF HEAVY-MINERAL CONCENTRATES AND OF URANIUM IN THE LESS-THAN-0.180-MILLIMETER FRACTION OF SELECTED STREAM SEDIMENTS, DOMELAND WILDERNESS AND CONTIGUOUS ROADLESS AREAS, KERN AND TULARE COUNTIES, CALIFORNIA

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