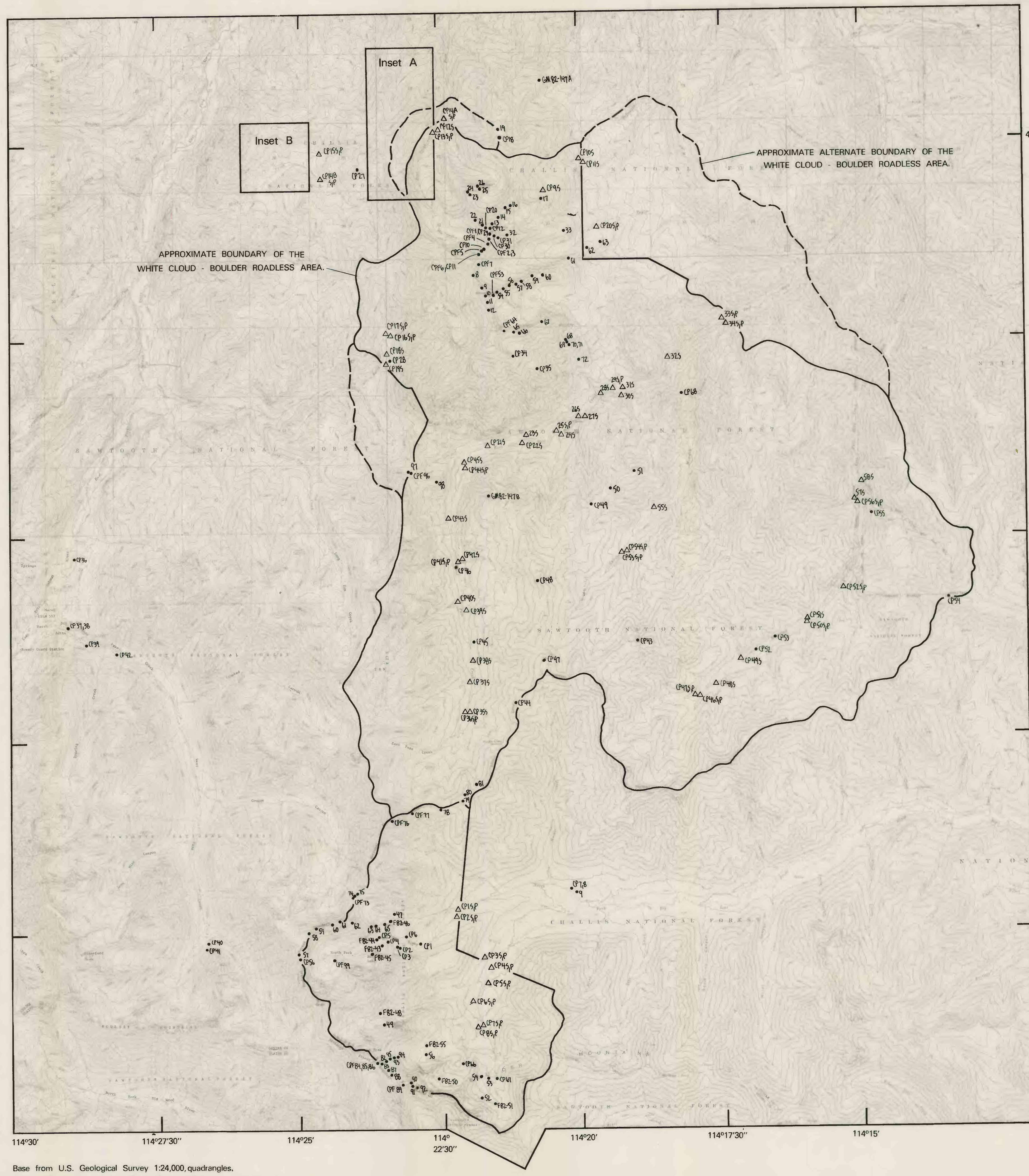
DEPARTMENT OF INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN-FILE REPORT
83-236



Base from U.S. Geological Survey 1:24,000, quadrangles. Bowery Creek, Bowery Peak, 1963, Meridian Peak, Ryan Peak, Herd Peak, Herd Lake, and Rock Roll Canyon, 1967.

SCALE 1:62 500

1 ½ 0 1 2 3 4 MILES

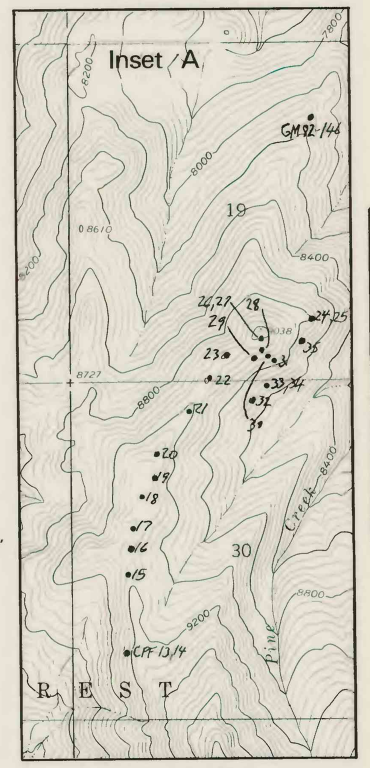
1 .5 0 1 2 3 4 KILOMETERS

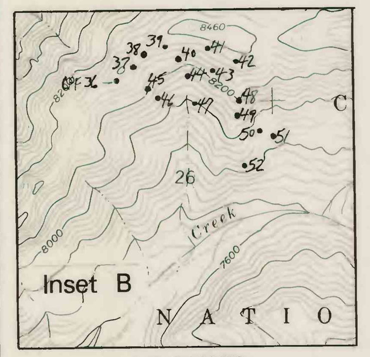
STUDIES RELATED TO WILDERNESS

The Wilderness Act (Public Law 88-577, September 3, 1964) and related acts require the U. S. Geological Survey and the U. S. Bureau of Mines to survey certain areas on Federal lands to determine their mineral resource potential. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a geochemical survey of the White Cloud-Boulder Roadless Area in the Challis and Sawtooth National Forests, Custer County, Idaho. The White Cloud-Boulder Roadless Area (04551) was classified as a further planning area during the Second Roadless Area Review and Evaluation (RARE II) by the U. S. Forest Service, January 1979.

NOTE

The sample localities for 172 rock, 100 stream, and 73 panned-concentrate samples collected from the White Cloud-Boulder Roadless Area are shown on this map. Analytical data for these samples are given on the accompanying tables. All rocks were collected as composite chips with the total sample weighing approximately 5 lb. Stream sediments were collected as 2 lb random grab samples and the panned concentrates were obtained from approximately 10 lb of original alluvial sediment. These data were collected as part of the mineral resource appraisal of the White Cloud-Boulder Roadless Area. All analyses were done in U. S. Geological Survey laboratories.



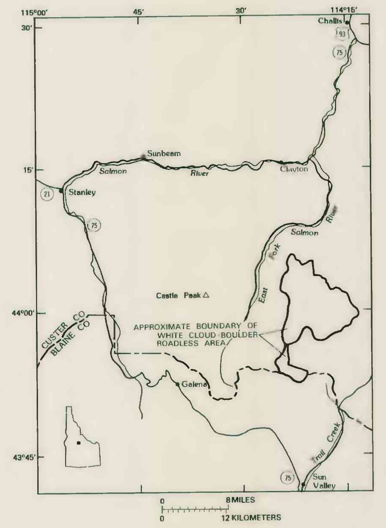


EXPLANATION

•— Rock Sample

△— S - Stream Sediment Sample

△— P - Panned Concentrate Sample



GEOCHEMICAL SAMPLE LOCALITY MAP FOR THE WHITE CLOUD - BOULDER ROADLESS AREA, CUSTER COUNTY, IDAHO

By

F. S. Fisher, G. D. May, and D. H. McIntyre

1983

ATOMIC ABSORPTION SPECTROMETRY - WHITE CLOUD - BOULDER ROAD ROADLESS AREA
Analyzed by J. Sharkey and B. Arbogast - U. S. Geological Survey

Sample Number	Au	As	Zn	Cd	Bi	Sb
CP07R	L(.05)	30	500	2.6	N(2)	16
CP08R	L(.05)	10	90	.5	N(2)	6
CP11R	.05	800	30	.1	N(2)	110
CP14R	.05	1600	55	.3	N(2)	25
CP26R	N(.05)	20	180	.6	N(2)	L(.1)
CP34R	N(.05)	5	25	N(.1)	N(2)	2
CP35R	N(.05)	L(5)	5	N(.1)	N(2)	N(.1)
CP36R	L(.05)	5	20	.1	N(2)	N(.1)
CP38R	N(.05)	140	14300	140	N(2)	8
CP39R	L(.05)	110)	65	.5	N(2)	6
CP41R	N(.05)	L(5)	G 50000	1000	500	8
CP60C	N(.05)	35	1400	7	10	N(.1)
CP61R	N(.05)	20	80	0.3	N(2)	N(.1)
CP63R	L(.05)	10	50	L(.1)	N(2)	N(.1)
CP64R	L(.05)	30	15	L(.1)	N(2)	N(.1)
CP65R	L(.05)	45	75	.1	N(2)	3
GM82-146	.1	150	10	N(.1)	N(2)	2

Sample Number	Au	As	Zn	Cd	Bi	Sb
CPF13R	.10	40	15	N(.1)	N(2)	11
CPF15R	N(.05)	400	25	L(.1)	N(2)	13
CPF16R	.05	140	30	N(.1)	N(2)	5
CPF17R	N(.05)	20	60	N(.1)	N(2)	6
CPF21R	N(.05)	15	40	N(.1)	L(2)	N(.1)
CPF24R	.10	20	15	L(.1)	N(2)	1
CPF25R	.15	20	15	N(.1)	N(2)	2
CPF28R	N(.05)	30	10	L(.1)	N(2)	3
CPF29R	N(.05)	40	50	L(.1)	N(2)	L(.1)
CPF30R	.05	80	35	N(.1)	N(2)	3
CPF31R	L(.05)	20	420	N(.1)	N(2)	3
CPF32R	L(.05)	10	5	N(.1)	N(2)	2
CPF65R	L(.05)	30	40	L(.1)	N(2)	3
CPF66R	.05	20	20	L(.1)	N(2)	17
CPF73R	L(.05)	L(5)	10	L(.1)	N(2)	N(.1)
CPF74R	L(.05)	10	L(5)	L(.1)	N(2)	N(.1)

Remarks: G = greater than value shown; N = not detected at limit of detection, or at value shown. L = detected, but below limit of determination or below value shown. All values reported in parts per million unless otherwise noted. R = rock sample; S = stream sediment sample (-180 mesh); P = panned concentrate sample (-180 mesh).

SEMI-QUANTITATIVE SPECTROGRAPHIC ANALYSIS - WHITE CLOUD - BOULDER ROADLESS AREA
Analyzed by S. Cooley and T. Hopkins - U. S. Geological Survey

Detection Limit / Sample #	(.05) Fe%	(.02) Mg%	(.05) Ca%	(.002) Ti%	(10) Mn	(.5) Ag	(200) As	(10) B	(20) Ba	(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	(10) Pb	(100) Sb	(5) Sc	(10) Sn	(100) Sr	(10) V	(50) W	(10) Y	(200) Zn	(10) Zr	(100) Th
CP01P	1	1.5	3	1	200	N	N	50	2000	L	N	N	L	70	10	150	N	L	20	50	N	10	N	L	100	150	100	N	G1000	N
CP02P	1.5	3	15	.5	500	N	N	50	3000	L	N	N	10	100	50	150	50	L	70	70	N	N	N	500	300	1000	200	N	G1000	N
CP03P	1	3	10	.2	500	N	N	30	G5000	L	N	N	L	70	50	100	N	L	30	200	N	N	N	5000	150	500	300	N	G1000	N
CP04P	1	1.5	G20	.2	500	N	N	30	G5000	L	N	N	N	70	20	300	20	L	20	15	N	N	N	2000	150	N	150	N	G1000	N
CP05P	1	0.5	7	.15	100	N	N	50	G5000	L	N	N	N	20	20	200	N	L	20	15	N	N	N	2000	150	N	150	N	G1000	N
CP06P	1	2	7	.2	300	N	N	30	1000	L	N	N	N	70	20	100	20	L	30	300	N	N	N	200	150	700	150	N	G1000	N
CP07P	2	1.5	10	.15	200	N	N	50	G5000	L	N	N	N	50	30	150	N	L	30	200	N	N	N	700	150	50	100	N	G1000	N
CP08P	1.5	3	20	.2	500	1	N	20	300	L	N	N	L	100	20	50	10	L	50	150	N	N	N	L	200	1000	50	N	500	N
CP13P	7	0.7	7	G1	300	2	N	10	2000	L	N	N	30	200	100	200	N	L	20	200	N	100	N	200	100	N	150	N	700	N
CP14PA	10	0.7	10	G1	700	N	N	20	5000	L	N	N	30	200	100	300	N	L	30	150	N	70	N	200	100	N	200	N	G1000	N
CP14PB	5	1	3	.5	700	N	N	10	G5000	L	N	N	15	500	20	500	N	N	30	20	N	50	N	5000	100	N	200	N	G1000	N
CP15P	2	0.3	1.5	.15	150	N	N	L	G5000	2	N	N	L	150	5	500	N	N	20	L	N	30	N	5000	50	N	200	N	G1000	N
CP16P	3	0.15	1.5	G1	200	L	N	10	G5000	L	N	N	20	100	20	200	N	N	10	100	N	50	N	1000	100	N	70	N	50	N
CP17P	5	7	7	1	1000	N	N	L	1000	N	N	N	30	5000	30	50	N	L	100	10	N	100	N	150	100	N	50	N	1000	N
CP20P	2	0.3	5	G1	300	N	N	10	G5000	N	N	N	10	100	100	200	N	N	10	300	N	50	N	500	100	N	100	N	1000	N
CP25P	5	5	7	.5	1000	N	N	L	G5000	N	N	N	30	1500	10	50	N	L	100	10	N	50	N	300	500	N	70	N	G1000	N
CP29P	10	3	5	G1	700	L	N	10	5000	N	N	N	30	1500	70	150	N	L	70	10	N	50	N	300	100	N	100	N	1000	N
CP33P	3	5	10	.5	1000	N	N	L	G5000	N	N	N	20	1500	10	70	N	L	100	30	N	50	N	300	100	N	70	N	G1000	N
CP34P	7	7	15	.3	2000	N	N	10	G5000	N	N	N	30	3000	10	70	N	N	100	10	N	100	N	200	200	N	70	N	G1000	N
CP36P	5	7	10	.2	1500	N	N	L	1000	N	N	N	30	2000	20	300	N	N	XXX	20	N	70	N	100	200	N	200	N	G1000	N
CP41P	5	7	10	.2	1500	N	N	L	50	N	N	N	30	3000	10	50	N	XXX	XXX	10	N	50	N	100	200	N	20	N	700	N
CP44P	7	7	10	.3	1500	N	N	10	G5000	N	N	N	50	5000	10	50	N	XXX	XXX	10	N	70	N	100	300	N	70	N	G1000	N
CP46P	10	5	10	.2	1500	N	N	10	150	N	N	N	50	3000	50	70	N	XXX	XXX	L	N	70	N	L	200	N	100	N	G1000	N
CP47P	5	1.5	3	.5	500	N	N	L	G5000	L	N	N	10	700	30	150	N	L	30	70	N	30	N	1500	100	N	70	N	G1000	N
CP50P	5	5	10	.5	1000	N	N	L	G5000	1.5	N	N	30	2000	20	500	N	L	70	10	N	50	N	100	100	N	200	N	G1000	N
CP52P	5	5	10	.2	1500	N	N	10	200	N	N	N	30	1500	20	50	N	L	70	10	N	50	N	200	200	N	50	N	300	N
CP53P	2	0.7	2	.5	300	N	N	10	5000	1.5	N	N	10	200	20	100	N	L	20	30	N	20	N	1000	100	N	50	N	500	N
CP54P	5	5	7	.2	1000	N	N	L	70	N	N	N	30	1500	10	50	N	L	100	10	N	70	N	150	200	N	50	N	G1000	N
CP56P	3	2	5	.3	1000	N	N	10	1500	L	N	N	20	1000	15	70	N	N	50	20	N	50	N	200	100	N	200	N	G1000	N
CP01R	0.5	0.5	0.1	.2	200	L	N	200	500	1	N	N	N	50	20	30	N	L	20	N	N	7	N	N	300	N	L	N	70	N
CP02R	10	3	2	.5	500	N	N	100	500	2	N	N	20	150	50	50	N	L	70	20	N	20	N	150	200	N	50	N	200	N
CP03R	2	0.5	0.5	.2	300	N	N	10	1000	2	N	N	N	50	10	70	N	L	10	20	N	5	N	200	50	N	10	N	200	N
CP04R	0.5	0.7	1	.05	200	L	N	10	300	2	N	N	N	N	L	30	N	L	10	N	N	N	N	100	20	N	L	N	30	N
CP05R	2	0.7	0.5	.2	500	N	N	10	1500	5	N	N	5	20	L	70	N	L	10	20	N	10	N	100	100	N	30	N	300	N
CP06R	2	1.5	1	.3	100	1.5	N	100	500	2	N	N	10	150	50	50	N	L	100	20	N	10	N	100	100	N	30	N	300	N
CP07R	20	0.05	1.5	.03	150	5	N	50	300	N	N	N	N	10	70	30	20	L	30	50	N	N	N	700	100	N	20	700	20	N
CP08R	20	1	3	.02	200	3	N	50	100	N	N	N	N	10	50	30	L	L	30	50	N	N	N	200	70	N	20	200	10	N
CP09R	3	0.5	0.5	.2	300	N	N	100	1000	2	N	N	5	N	20	100	L	L	10	70	N	5	N	100	20	N	20	N	100	N
CP10R	5	0.3	0.5	.5	1000	N	N	50	2000	2	N	N	20	20	20	100	L	L	20	70	N	15	N	100	100	N	50	L	300	N
CP11R	7	0.05	0.05	.3	50	N	1000	20	300	2	N	N	20	50	30	50	N	L	50	20	200	10	N	N	100	N	20	L	200	N
CP12R	5	0.2	0.2	.3	300	N	N	10	1000	2	N	N	20	20	20	50	N	L	20	30	L	10	N	100	100	N	20	L	200	N
CP13R	5	0.5	0.7	.5	1000	L	N	50	1500	2	N	N	15	20	20	70	N	L	10	50	N	20	N	100	100	N	50	L	300	N
CP14R	3	0.15	2	.1	1000	N	2000	50	300	2	N	N	10	20	7	30	N	L	10	20	L	10	N	L	70	N	10	N	50	N
CP15R	5	1	2	.3	700	N	N	10	1000	2	N	N	20	30	10	70	N	L	20	50	N	15	N	500	100	N	20	N	150	N
CP16R	5	0.7	7	.2	200	N	N	10	1500	1	N	N	10	20	50	50	N	L	10	50	N	10	N	300	70	N	15	N	150	N
CP17R	2	0.5	0.3	.15	200	N	N	10	1000	1	N	N	5	10	15	70	5	L	5	50	N	10	N	300	50	N	20	N	200	N
CP18R	5	2	1.5	.5	700	N	N	10	1000	1	N	N	20	200	50	100	5	L	50	30	N	30	N	700	200	N	50	N	200	N
CP19R	3	0.7	0.1	.3	150	N	N	10	1000	1	N	N	5	150	20	50	L	L	20	20	N	10	N	200	100	N	20	N	150	N
CP20R	5	0.7	3	.007	300	N	N	20	1000	1.5	N	N	20	150	50	70	L	L	50	20	N	20	N	100	100	N	20	N	200	N
CP21R	7	7	15	.05	2000	N	N	20	200	1	N	N	L	20	5	50	L	L	10	50	N	7	N	2000	50	N	20	N	20	N
CP22R	2	0.7	2	.2	500	N	N	10	150	1.5	N	N	L	10	7	50	N	L	10	10	N	7	N	200	70	N	10	N	30	N
CP23R	5	1	2	.3	300	N	N	10	2000	1.5	N	N	20	20	150	70	10	L	20	50	N	10	N	500	100	N	20	N	150	N
CP24R	5	1	2	.3	500	L	N	10	1000	1.5	N	N	20	20	70	70	5	L	20	50	N	10	N	500	100	N	20	N	150	N
CP25R	5	1	2	.3	1000	N	N	10	1500	2	N	N	15	30	150	100	5	L	20	50	N	15	N	1000	100	N	30	N	300	N
CP26R	3	0.5	1	.2	700	.15	N	20	1500	15	N	N	10	10	10	100	N	L	5	100	N	10	N	200	50	N	30	L	300	N
CP27R	10	0.7	2	.2	1500	N	N	20	700	5	N	N	30	20	15	50	15	L	50	50	N	7	N	200	50	N	10	N	100	N
CP28R	3	0.2	0.2	.15	500	N	N	50	2000	2	N	N	L	L	L	150	L	L	L	70	N	10	N	200	15	N	50	N	300	N
CP29R	5	0.2	0.2	.3	500	N	N	20	1000	2	N	N	20	70	50	70	L	L	20	50	N	20	N	100	150	N	50	N	300	N
CP30R	7	0.15	0.2	.3	1000	N	N	10	1000	2	N	N	50	200	50	70	N	L	70	30	N	20	N	L	150	N	50	N	200	N
CP31R	5	0.2	0.15	.2	300	N	N	10	1000	2	N	N	15	20	20	20	L	L	15	50	N	10	N	L	100	N	20	N	200	N
CP32R	3	0.15	1.5	.15	500	N	N	10	3000	15	N	N	L	N	20	100	L	L	L	70	N	10	N	300	20	N	30	N	300	N
CP33R	2	0.1	0.05	.15	500	N	N	L	2000	1	N	N	N	N	L	100	L	L	N	70	N	10	N	200	10	N	30	N	300	N
CP34R	1.5	0.3	0.15	.15	200	1.5	N	10	1500	2	N	N	L	10	L	50	N	L	L	20	N	7	N	200	30	N	20	N	300	N
CP35R	0.2	0.2	0.05	.03	50	1	N	10	300	2	N	N	L	N	L	50	N	L	L	L	N	L	N	L	20	N	N	N	30	N
CP36R	2	0.3	1.5	.3	150	N	N	50	1500	15	N	N	N	N	500	70	N	L	L	50	N	7	N	300	70	N	20	N	200	N
CP37R	1	0.15	0.2	L	150	15	500	10	50	N	N	500	N	N	100	50	N	L	20	3000	50	N	N	N	20	N	N	10000	N	N
CP38R	2	1	2	.1	2000	5	200	50	100	1	N	500	N	30	50	50	L	L	20	500	N	5	N	L	100	N	10	10000	100	N
CP39R	1.5	0.3	0.1	.2	70	1.5	200	50	500	1.5	N	N	N	50	5	50	L	L	20	300	N	5	N	100	70	N	10	N	200	N
CP40R	2	1	1.5	.3	200	N	N	10	1500	2	N	N	10	70	20	100	L	L	30	300	N	7	N	500	70	N	10	N	200	N
CP41R	10	0.7	7	.05	5000	150	N	20	100	1	150	500	30	30	300	50	L	L	30	20000	N	5	100	L	50	N	20	10000	100	N
CP42R	3	0.3	2	.2	500	.5	N	30	1000	1.5	N	N	L	30	5	100	N	L	20	700	N	5	N	500	50	N	10	200	200	N
CP43R	3	11	1.5	.2	500	N	N	10	700	1	N	N	20	150	20	50	N	L	20	50	N	10	N	500	50	N	10	N	70	N
CP44R	0.5	0.07	0.1	.03	150	N	N	10	500	2	N	N	N	N	20	50	N	L	L	50	N	N	N	N	L	N	10	N	200	N
CP45R	2	1	2	.3	700	N	N	20	1500	1.5	N	N	10	100	30	100	N	L	20	50	N	20	N	1000	100	N	20	N	200	N
CP46R	5	1.5	3	.3	1000	N	N	10	1500	1.5	N	N	30	300	50	70	L	L	100	50	N	30	N	1000	200	N	20	N	200	N
CP47R	5	1.5	3	.3	1000	N	N	10	1000	1.5	N	N	20	200	50	100	L	L	30	50	N	30	N	1000	200	N	30	N	200	N
CP48R	5	0.5	0.2	.2	300	N	N	10	700	1.5	N	N	20	200	50	50	10	L	150	30	N	15	N	200	100	N	10	N	100	N
CP49R	5	1	2	.3	700	N	N	10	1000	2	N	N	30	700	50	70	N	L	150	30	N	15	N	700	100	N	20	N	150	N
CP50R	3	0.2	0.15	.3	70	N	N	10	1000	2	N	N	L	150	50	70	20	L	30	50	N	15	N	300	150	N	20	N	200	N
CP51R	5	1	2	.3	1000	N	N	10	1000	1.5	N	N	30	100	30	50	L	L	20	50	N	20	N	700	150	N	20	N	150	N
CP52R	20	0.7	0.7	.5	700	N	N	20	1000	50	N	N	70	200	500	50	N	L	200	20	N	30	N	600	150	N	70	2000	150	N
CP53R	7	1.5	5	.5	2000	N	N	20	1000	1.5	N	N	30	500	50	70	L	L	50	50	N	30	N	1000	150	N	50	N	200	N
CP54R	5	2	2	.5	1000	N	N	30	1500	2	N	N	30	500	50	70	5	L	100	50	N	30	N	700	200	N	20	N	200	N
CP55R	3	1	2	.3	500	N	N	20	1000	2	N	N	20	200	50	50	N	L	70	30	N	20	N	500	200	N	20	N	150	N
CP56R	5	1.5	2	.3	1000	N	N	L	1000	2	N	N	20	300	50	70	N	L	70	20	N	20	N	500	150	N	20	N	150	N
CP57R	2	0.5	0.7	.3	300	N	N	L	1000	2	N	N	10	10	30	70	L	L	7	20	N	10	N	300	100	N	20	N	200	N
CP58R	2	1	1	.3	300	N	N	10	1500	2	N	N	10	50	30	100	N	L	15	30	N	10	N	200	100	N	30	N	100	N
CP59R	0.5	0.5	2	.15	200	N	N	50	1000	3	N	N	L	N	L	200	N	L	L	30	N	5	N	200	20	N	20	N	200	N
CP60R	2	1	1.5	.3	300	2	N	50	200	3	10	N	10	200	L	100	L	L	50	20	N	20	N	300	200	N	20	N	200	N
CP61R	2	0.5	1	.2	300	1.5	N	50	1000	2	N	N	10	10	30	100	L	L	L	100	N	7	N	100	30	N	20	N	200	N

Remarks: G = greater than value shown; N = not detected at limit of detection or at value shown; L = detected, but below limit of determination or below value shown. All values reported in parts per million unless otherwise noted. R = rock sample S = stream sample (-180 mesh) P = panned concentrate (-180 mesh)

Detection Limit / Sample #	(.05) Fe%	(.02) Mg%	(.05) Ca%	(.002) Ti%	(10) Mn	(.5) Ag	(200) As	(10) B	(20) Ba	(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	(10) Pb	(100) Sb	(5) Sc	(10) Sn	(100) Sr	(10) V	(50) W	(10) Y	(200) Zn	(10) Zr	(100) Th
CP62R	1	0.5	1.5	.15	200	N	N	70	700	2	N	N	5	10	L	70	L	L	5	15	N	L	N	100	30	N	10	N	100	N
CP63R	0.5	0.5	0.7	.1	100	0.5	N	10	200	3	N	N	L	20	10	50	N	L	15	10	N	L	N	N	50	N	L	N	200	N
CP64R	1.5	0.7	0.5	.2	200	1	N	10	700	2	N	N	L	20	100	50	5	L	5	10	N	5	N	100	200	N	10	N	100	N
CP65R	5	1	1	.3	500	1	N	20	1500	2	N	N	20	200	50	70	5	L	70	30	N	20	N	300	100	N	20	N	100	N
CP66R	3	1.5	2	.2	700	N	N	10	1500	1.5	N	N	20	200	50	200	L	L	100	50	N	20	N	1000	100	N	20	N	150	N
CP67R	5	1.5	2	.3	700	N	N	10	1000	1.5	N	N	30	500	70	70	N	L	150	50	N	20	N	500	100	N	20	N	200	N
CP68R	5	1	1.5	.5	700	N	N	20	1000	1.5	N	N	50	200	50	70	10	L	70	50	N	20	N	700	100	N	20	N	200	N
CP01S	3	1.5	0.5	.3	300	0.5	N	50	700	1	N	N	10	100	20	50	L	L	30	20	N	10	N	100	100	N	20	L	500	N
CP02S	2	1	0.5	.2	300	0.5	N	70	500	1	N	N	7	70	20	50	5	L	50	20	N	7	N	100	100	N	20	200	300	N
CP03S	2	1	0.5	.2	200	1	N	100	500	1	N	N	7	150	30	50	5	L	20	30	N	5	N	100	100	N	20	200	500	N
CP04S	1.5	1	0.5	.2	200	1	N	100	700	1.5	N	N	5	70	30	50	L	L	30	20	N	5	N	100	100	N	20	200	200	N
CP05S	2	1	1	.2	300	1	N	150	1500	1.5	N	N	10	100	30	50	5	L	70	20	N	10	N	100	200	N	30	300	300	N
CP06S	2	1	0.5	.2	200	1	N	100	500	1.5	N	N	10	100	30	50	L	L	50	20	N	10	N	100	100	N	20	200	300	N
CP07S	2	1.5	0.7	.2	300	0.5	N	100	1000	1.5	N	N	10	100	30	50	5	L	50	20	N	7	N	100	150	N	20	200	300	N
CP08S	1.5	1	0.3	.3	200	1.5	N	100	1000	1.5	N	N	5	150	30	50	5	L	50	30	N	7	N	100	100	N	20	200	300	N
CP09S	5	1	0.5	.5	1000	1	N	20	1000	2	N	N	15	50	70	100	N	L	15	100	N	15	N	200	100	N	30	N	200	N
CP10S	3	0.7	0.7	.5	500	N	N	20	1000	2	N	N	10	50	20	70	L	L	15	30	N	15	N	300	100	N	20	N	200	N
CP11S	3	0.7	0.5	.3	500	N	N	20	700	2	N	N	10	50	30	70	L	L	20	30	N	10	N	200	100	N	20	N	200	N
CP12S	5	0.7	1	.3	700	N	N	50	1000	2	N	N	15	50	30	70	L	L	20	70	N	20	N	200	100	N	50	N	300	N
CP13S	5	0.7	0.7	.5	700	N	N	50	1000	2	N	N	20	100	50	70	L	L	50	50	N	20	N	100	100	N	50	N	200	N
CP14SA	5	0.7	1	.5	700	N	N	30	1000	2	N	N	20	70	30	70	L	L	20	50	N	20	N	200	100	N	50	N	300	N
CP14SB	5	1	1.5	.3	700	N	N	30	1000	2	N	N	20	150	30	70	N	L	20	50	N	20	N	300	100	N	20	N	300	N
CP15S	5	0.7	1.5	.3	300	N	N	30	1000	2	N	N	20	100	30	70	N	L	20	50	N	10	N	300	100	N	20	N	300	N
CP16S	5	0.5	.7	.3	300	N	N	30	1000	2	N	N	15	70	30	70	N	L	20	30	N	20	N	200	100	N	20	N	300	N
CP17S	5	0.7	1.5	.3	700	N	N	20	1000	2	N	N	20	200	50	70	N	L	30	20	N	20	N	300	100	N	20	N	150	N
CP18S	1	0.2	0.7	.1	300	N	N	30	500	2	N	N	10	20	20	70	N	L	5	15	N	7	N	L	50	N	20	L	100	N
CP19S	1.5	0.2	1	.1	300	N	N	30	500	2	N	N	L	20	10	50	N	L	5	20	N	7	N	200	50	N	20	L	150	N
CP20S	5	0 .7	1	.5	1000	L	N	30	1500	2	N	N	15	70	30	100	N	L	15	50	N	20	N	300	100	N	50	N	300	N
CP21S	5	1	2	.5	1000	N	N	30	1000	2	N	N	30	100	30	100	N	L	30	50	N	20	N	300	150	N	50	N	300	N
CP22S	0.3	0.15	1	.03	200	N	N	30	200	1	N	N	N	20	10	30	N	L	30	10	N	N	N	200	20	N	L	L	20	N
CP23S	5	0.7	1	.3	700	N	N	30	1000	2	N	N	15	50	30	50	10	L	30	70	N	20	N	200	150	N	30	200	200	N
CP24S	5	1	2	.5	700	N	N	30	1500	2	N	N	20	300	30	70	L	L	70	50	N	20	N	500	150	N	30	N	500	N
CP25S	5	1.5	2	.5	700	N	N	20	1000	2	N	N	30	700	30	70	N	L	100	50	N	30	N	500	200	N	30	N	300	N
CP26S	5	0.7	1	.5	500	N	N	30	1500	2	N	N	15	100	30	70	L	L	20	50	N	20	N	300	150	N	30	N	300	N
CP27S	0.7	0.2	1.5	.07	1000	N	N	50	200	2	N	N	N	20	15	30	N	L	50	10	N	N	N	200	30	N	L	500	50	N
CP28S	5	1	1	.3	700	N	N	30	1500	2	N	N	15	70	20	100	N	L	15	50	N	20	N	200	100	N	50	N	300	N
CP29S	3	0.7	1	.3	500	N	N	30	1000	2	N	N	10	70	20	7	N	L	10	30	N	15	N	300	100	N	30	N	200	N
CP30S	5	1	2	.5	1500	N	N	30	2000	2	N	N	10	150	20	###	N	L	5	50	N	20	N	700	150	N	50	N	500	N
CP31S	1	0.2	1	.1	300	N	N	20	500	2	N	N	N	50	15	30	10	L	5	10	N	5	N	200	50	N	10	N	100	N
CP32S	5	1	2	.3	700	N	N	20	1000	2	N	N	30	500	30	50	N	L	100	30	N	20	N	700	100	N	20	N	100	N
CP33S	5	1.5	2	.5	700	N	N	20	1000	2	N	N	30	700	50	70	N	L	100	30	N	20	N	500	150	N	20	N	200	N
CP34S	5	1.5	2	.3	1000	N	N	10	1000	2	N	N	30	300	50	70	N	L	70	50	N	30	N	700	200	N	30	N	200	N
CP35S	5	1	1.5	.3	700	N	N	20	1000	2	N	N	20	200	50	70	L	L	50	50	N	20	N	500	150	N	20	N	300	N
CP36S	5	1	1.5	.3	700	N	N	10	1000	2	N	N	20	200	50	70	N	L	50	50	N	20	N	500	150	N	50	N	300	N
CP37S	7	1.5	2	.3	1000	N	N	20	1000	2	N	N	50	1000	50	50	N	L	100	30	N	30	N	500	200	N	30	N	200	N
CP38S	7	1.5	2	.3	1000	N	N	20	1000	2	N	N	30	500	50	70	N	L	70	30	N	30	N	500	200	N	30	N	200	N
CP39S	7	1.5	2	.3	1000	N	N	20	1000	2	N	N	30	500	50	70	N	L	100	50	N	30	N	700	200	N	50	N	300	N
CP40S	7	2	3	.3	1000	N	N	10	1000	2	N	N	30	1000	50	50	N	L	100	50	N	30	N	500	200	N	20	N	150	N
CP41S	5	1.5	2	.3	700	N	N	10	1000	2	N	N	30	300	30	70	N	L	50	30	N	20	N	500	200	N	20	N	200	N
CP42S	5	1	1.5	.3	1000	N	N	20	1500	2	N	N	30	200	50	70	N	L	50	50	N	20	N	500	150	N	20	N	300	N
CP43S	7	1.5	2	.3	1000	N	N	10	700	2	N	N	20	700	50	50	N	L	100	30	N	20	N	500	200	N	20	N	200	N
CP44S	7	1.5	2	.3	500	N	N	10	1000	2	N	N	30	500	50	70	N	L	70	30	N	20	N	500	200	N	20	N	200	N
CP45S	5	1	1.5	.3	1000	N	N	20	1000	2	N	N	20	150	50	70	N	L	20	50	N	20	N	300	200	N	20	N	300	N
CP46S	5	1	2	.3	700	N	N	20	1000	2	N	N	20	200	50	70	10	L	70	50	N	20	N	500	200	N	20	N	200	N
CP47S	5	1	2	.5	1000	N	N	20	1500	2	N	N	20	200	50	100	N	L	50	50	N	20	N	700	200	N	30	N	500	N
CP48S	5	1	1.5	.3	700	N	N	20	1000	2	N	N	20	200	50	70	N	L	50	70	N	20	N	500	200	N	20	N	500	N
CP49S	5	1	1.5	.3	700	N	N	20	700	2	N	N	20	200	50	50	N	L	50	50	N	20	N	500	200	N	20	N	300	N
CP50S	7	1.5	2	.5	1000	N	N	20	1500	2	N	N	20	300	50	100	L	L	50	50	N	30	N	1000	200	N	50	N	500	N
CP51S	7	1	1.5	.5	1000	N	N	20	1000	2	N	N	20	300	30	70	N	L	50	50	N	30	N	500	200	N	50	N	500	N
CP52S	7	1	2	.5	700	N	N	20	1500	1.5	N	N	20	500	30	70	N	L	50	50	N	30	N	1000	200	N	50	N	300	N
CP53S	5	0.7	1.5	.3	500	N	N	10	1000	2	N	N	20	200	30	70	N	L	50	20	N	20	N	500	150	N	50	N	300	N
CP54S	7	2	5	.5	1500	N	N	20	1500	1.5	N	N	30	700	50	100	N	L	70	50	N	30	N	2000	200	N	70	N	300	N
CP55S	7	1	2	.5	700	N	N	20	1500	2	N	N	20	300	30	100	N	L	50	50	N	30	N	700	150	N	70	N	500	N
CP56S	7	1.5	3	.5	1000	N	N	20	1500	2	N	N	30	300	50	100	N	L	50	50	N	30	N	1000	200	N	50	N	500	N
CP57S	7	1.5	3	.3	700	N	N	10	1000	1.5	N	N	30	700	50	50	N	L	70	20	N	30	N	500	200	N	30	N	100	N
CP58S	10	3	5	.5	1500	N	N	50	1500	1	N	N	30	1500	50	50	N	L	100	30	N	50	N	1000	200	N	50	N	200	N
CPF01R	10	2	3	.5	1000	N	N	10	2000	1	N	N	30	50	50	100	N	L	50	50	N	20	N	1000	200	N	50	N	200	N
CPF02R	7	0.2	0.2	.5	700	N	N	20	1000	2	N	N	30	150	50	100	N	L	70	20	N	20	N	100	200	N	50	L	300	N
CPF03R	10	0.2	0.2	.3	1500	N	N	20	1000	2	N	N	20	100	30	70	10	L	70	20	N	20	N	L	200	N	50	L	200	N
CPF04R	7	0.2	3	.5	1000	N	N	20	1000	2	N	N	20	50	30	150	L	L	20	70	N	20	N	L	200	N	50	L	300	N
CPF05R	10	0.5	0.7	.7	1500	N	N	20	1500	2	N	N	30	100	50	150	N	L	20	30	N	30	N	L	300	N	50	L	200	N
CPF06R	10	0.5	20	.1	2000	N	N	L	150	1	N	N	20	20	10	100	N	L	20	100	N	10	N	500	100	N	20	N	30	N
CPF07R	2	1	20	.07	2000	N	N	L	50	L	N	N	5	10	L	50	N	L	10	20	N	5	N	700	50	N	10	N	20	N
CPF08R	5	0.7	2	.3	700	N	N	20	2000	2	N	N	10	10	20	100	L	L	10	30	N	10	N	700	70	N	20	N	300	N
CPF09R	3	0.2	0.2	.5	500	N	N	100	1500	2	N	N	10	20	20	70	N	L	10	50	N	10	N	100	100	N	20	L	300	N
CPF10R	5	0.5	1.5	.3	500	N	N	20	1000	2	N	N	20	30	7	70	L	L	15	50	N	10	N	300	100	N	20	L	300	N
CPF11R	5	1	10	.15	1000	N	N	10	700	1.5	N	N	20	10	5	50	L	L	10	50	N	7	N	500	100	N	15	L	30	N
CPF12R	3	0.5	G20	.05	1000	N	N	N	G5000	L	N	N	15	N	L	50	L	L	10	70	N	N	N	2000	20	N	N	L	20	N
CPF13R	1.5	0.2	1	.07	500	20	N	L	500	L	N	N	5	10	10	50	5	L	10	20	N	N	N	100	20	N	L	N	20	N
CPF14R	5	0.7	5	.5	1000	N	N	N	2000	1.5	N	N	20	50	30	100	L	L	10	50	N	20	N	200	100	N	50	N	200	N
CPF15R	5	2	2	.2	1500	1	500	N	300	1.5	N	N	10	150	10	50	L	L	20	20	N	10	N	2000	70	N	20	N	100	N
CPF16R	3	0.7	1	.3	200	1.5	L	10	500	2	N	N	5	10	10	50	L	L	10	20	N	10	N	L	100	N	10	N	100	N
CPF17R	5	0.7	15	.2	500	1.5	N	10	2000	2	N	N	5	20	30	50	5	L	20	20	N	7	N	L	100	N	10	N	70	N
CPF18R	5	0.7	3	.3	500	N	N	50	1000	2	N	N	15	20	20	70	L	L	15	30	N	10	N	N	100	N	20	N	300	N
CPF19R	3	0.7	0.2	.3	200	N	N	50	300	2	N	N	10	20	20	70	L	L	10	30	N	10	N	N	100	N	10	N	200	N
CPF20R	3	0.5	0.5	.3	500	L	N	20	1500	1.5	N	N	15	20	20	70	L	L	10	50	N	10	N	200	100	N	15	N	150	N
CPF21R	5	0.7	0.2	.5	150	0.5	N	20	5000	1	N	N	10	30	20	70	L	L	L	100	N	20	N	500	200	N	10	N	300	N
CPF22R	2	0.5	0.2	.5	70	N	N	20	2000	1	10	N	N	30	10	100	L	L	N	50	N	20	N	700	200	N	20	N	200	N
CPF23R	5	1.5	5	.5	1000	N	N	10	1500	1	N	N	30	200	50	100	L	L	50	50	N	30	N	1000	200	N	50	N	300	N
CPF24R	2	0.7	0.3	.2	1000	2	N	10	700	2	N	N	5	20	15	50	10	L	10	10	N	10	N	200	100	N	20	N	100	N
CPF25R	1	0.2	0.2	.1	200	0.5	N	20	300	2	N	N	L	N	5	30	L	L	5	L	N	5	N	L	50	N	L	N	50	N
CPF26R	5	1	1.5	.3	500	N	N	20	1000	1.5	N	N	20	150	30	70	L	L	50	50	N	15	N	200	150	N	20	N	200	N
CPF27R	5	0.3	5	.07	2000	L	N	20	500	1.5	N	N	20	20	10	70	L	L	50	20	N	5	N	300	50	N	20	N	30	N
CPF28R	5	0.2	0.2	.5	200	1	N	20	1500	1	N	N	L	70	20	100	L	L	L	50	N	20	N	500	200	N	20	N	200	N
CPF29R	5	0.7	0.3	.3	300	1	N	20	1000	2	N	N	15	50	30	100	L	L	15	20	N	20	N	L	200	N	20	N	200	N
CPF30R	3	0.5	0.1	.2	70	3	N	20	300	2	N	N	5	50	10	50	50	L	15	20	N	10	N	L	1000	N	10	N	100	N
CPF31R	2	0.7	0.15	.2	1000	3	N	10	500	2	N	N	5	20	10	50	50	L	10	10	N	5	N	100	100	N	L	N	100	N
CPF32R	0.5	0.2	0.1	.05	100	1.5	N	L	300	2	N	N	L	10	L	30	N	L	5	N	N	N	N	L	20	N	N	N	20	N
CPF33R	5	0.7	2	.3	1000	N	N	20	1500	2	N	N	10	20	10	100	N	L	5	70	N	20	N	300	100	N	50	N	300	N
CPF34R	5	1	2	.3	1500	N	N	20	2000	1.5	N	N	10	10	10	100	N	20	L	50	N	20	N	500	100	N	50	N	300	N
CPF35R	5	1.5	1	.3	1000	N	N	20	2000	1.5	N	N	20	20	20	100	N	L	10	50	N	20	N	700	150	N	30	N	200	N
CPF36R	2	0.5	G20	.05	2000	N	N	N	150	L	N	N	N	10	N	50	N	L	N	L	N	N	N	1500	20	N	10	N	20	N
CPF37R	0.5	0.3	0.5	.3	1000	N	N	10	700	1.5	N	N	N	L	L	50	N	L	7	L	N	5	N	100	30	N	10	N	200	N
CPF38R	5	0.7	0.1	.3	100	N	N	20	1000	1.5	N	N	N	20	30	70	N	L	10	50	N	10	N	100	100	N	10	N	100	N
CPF39R	0.5	0.3	0.2	.5	150	N	N	50	1000	1.5	N	N	N	10	10	50	N	20	N	10	N	10	N	100	50	N	10	N	500	N
CPF40R	1	0.3	0.2	.5	150	N	N	50	1000	2	N	N	N	10	10	50	N	20	N	02	N	10	N	200	50	N	10	N	300	N
CPF41R	15	0.1	0.1	.3	70	N	N	50	300	1	N	N	N	L	10	50	N	L	N	10	N	5	N	L	20	N	10	N	200	N
CPF42R	10	0.2	0.15	.3	50	N	N	20	5000	1	N	N	N	150	100	50	N	L	N	20	N	10	N	200	200	N	20	N	200	N
CPF43R	3	0.2	0.15	.5	200	N	N	50	1000	1	N	N	10	L	30	50	N	L	N	30	N	7	N	100	30	N	15	N	300	N
CPF44R	.5	0.1	0.2	.7	70	N	N	30	1000	1	N	N	N	20	10	50	10	20	N	20	N	10	N	200	100	N	20	N	500	N
CPF45R	5	0.7	0.2	.5	500	N	N	10	2000	1	N	N	15	30	20	70	N	L	5	50	N	20	N	500	200	N	20	N	300	N
CPF46R	5	0.5	0.15	.3	100	N	N	10	1500	1	N	N	L	30	20	70	N	L	5	20	N	20	N	300	100	N	20	N	200	N
CPF47R	0.7	0.05	0.2	.5	1000	N	N	10	300	L	N	N	N	20	20	30	N	20	N	L	N	5	N	N	20	N	L	N	500	N
CPF48R	5	0.7	0.15	.5	200	N	N	10	1500	1	N	N	L	30	20	70	L	L	10	50	N	20	N	200	150	N	20	N	200	N
CPF49R	0.2	0.1	0.1	.5	100	N	N	L	200	L	N	N	L	15	L	20	N	20	N	L	N	5	N	L	30	N	20	N	200	N
CPF50R	5	0.7	0.1	.5	100	N	N	10	1500	1	N	N	L	20	15	70	N	L	5	50	N	20	N	300	200	N	20	N	200	N
CPF51R	5	0.7	0.1	.3	100	N	N	10	1500	1.5	N	N	L	50	15	70	N	L	L	30	N	20	N	300	100	N	20	N	200	N
CPF52R	5	0.7	0.3	.5	200	N	N	10	1500	1	N	N	L	50	20	100	N	L	N	50	N	20	N	500	100	N	20	N	300	N
CPF53R	3	0.15	0.1	.2	200	N	N	20	700	1.5	N	N	5	20	15	70	N	L	5	30	N	10	N	100	70	N	20	N	200	N
CPF54R	5	1	2	.3	700	N	N	20	1000	1.5	N	N	10	30	20	70	L	L	5	70	N	20	N	700	100	N	20	N	300	N
CPF55R	5	1	10	.3	1000	N	N	20	3000	1.5	N	N	10	50	10	100	L	L	L	50	N	20	N	G5000	100	N	50	N	300	N
CPF56R	2	0.2	0.3	.2	2000	N	N	20	300	1.5	N	N	5	20	5	50	L	L	5	20	N	10	N	100	100	N	10	N	150	N
CPF57R	5	0.5	2	.3	1000	N	N	50	1500	2	N	N	10	20	5	100	L	20	L	70	N	15	N	100	100	N	50	N	300	N
CPF58R	3	0.5	1	.3	700	N	N	10	1500	2	N	N	10	20	15	100	N	20	L	70	N	20	N	300	70	N	50	N	500	N
CPF59R	3	0.5	1	.2	700	N	N	10	1500	2	N	N	10	20	10	100	N	L	5	50	N	10	N	300	50	N	50	N	300	N
CPF60R	5	0.5	1	.3	700	N	N	10	1500	2	N	N	10	20	10	100	N	L	L	70	N	15	N	300	70	N	50	N	300	N
CPF61R	3	0.05	0.1	.2	300	N	N	10	1500	15	N	N	5	L	20	100	N	L	L	50	N	10	N	200	20	N	20	N	300	N
CPF62R	5	0.5	0.2	.3	1000	N	N	10	2000	2	N	N	10	15	10	100	10	20	L	70	N	10	N	300	50	N	50	N	300	N
CPF63R	2	0.5	0.5	.2	500	N	N	10	2000	2	N	N	L	N	7	100	N	L	L	50	N	5	N	200	20	N	20	N	200	N
CPR64R	1	0.2	0.15	.2	300	1	N	10	500	2	N	N	5	10	7	50	N	L	5	20	N	5	N	L	50	N	L	N	100	N
CPF65R	5	0.5	0.15	.3	200	5	N	10	1500	2	N	N	L	10	15	50	200	L	L	70	N	10	N	200	50	N	20	N	300	N
CPF66R	2	0.7	0.15	.2	200	2	N	10	300	2	N	N	L	10	5	50	N	L	L	20	N	7	N	200	50	N	20	N	70	N
CPF67R	5	0.7	1	.3	700	N	N	10	2000	2	N	N	10	20	10	100	10	L	L	70	N	15	N	300	70	N	50	N	500	N
CPF68R	3	0.7	2	.3	1000	N	N	10	3000	2	N	N	L	15	L	150	L	20	N	70	N	15	N	300	50	N	50	N	300	N
CPF69R	5	0.5	0.2	.3	700	N	N	10	3000	2	N	N	L	10	L	200	N	20	N	100	N	20	N	200	20	N	70	N	500	N
CPF70R	3	0.1	0.1	.15	500	N	N	10	2000	1.5	N	N	N	N	L	100	N	20	N	100	N	15	N	100	10	N	50	N	300	N
CPF71R	5	1	2	.5	1000	N	N	10	2000	1.5	N	N	20	50	30	100	N	L	10	50	N	20	N	500	100	N	50	N	200	N
CPF72R	5	1	1.5	.5	700	N	N	10	2000	1.5	N	N	30	30	50	100	N	L	15	50	N	20	N	500	200	N	50	N	200	N
CPF73R	0.7	1.5	2	.2	300	0.5	N	10	500	1.5	N	N	L	100	10	50	N	L	10	10	N	5	N	150	30	N	20	N	500	N
CPF74R	0.5	1.5	0.2	.3	50	0.5	N	10	3000	2	N	N	L	10	10	70	L	20	N	20	N	10	N	200	20	N	50	N	500	N
CPF75R	3	1	1.5	.2	1500	N	N	10	2000	2	N	N	L	20	7	150	N	20	N	70	N	10	N	200	50	N	50	N	500	N
CPF76R	2	1	0.7	.2	300	N	N	20	1000	2	N	N	--	--	20	50	N	L	--	30	N	7	N	300	70	N	20	N	200	N
CPF77R	3	1	1.5	.5	300	N	N	20	1500	2	N	N	--	--	20	100	N	20	--	50	N	20	N	700	100	N	50	N	200	N
CPF78R	1.5	0.7	0.5	.2	300	N	N	10	1000	2	N	N	--	--	L	100	N	20	--	70	N	5	N	200	20	N	30	N	200	N
CPF79R	5	1	1	.5	200	N	N	10	2000	1.5	N	N	--	--	50	100	N	L	--	50	N	20	N	500	150	N	50	N	200	N
CPF80R	5	2	5	.5	1000	N	N	10	2000	1.5	N	N	--	--	50	100	N	L	--	70	N	30	N	1500	150	N	50	N	300	N
CPF81R	5	0.7	0.7	.3	1000	N	N	10	1000	2	N	N	--	--	30	100	N	L	--	50	N	20	N	300	150	N	30	N	150	N
CPF82R	1	1	3	.2	300	3	N	10	200	1	N	N	--	--	50	50	N	L	--	20	N	5	N	200	50	N	20	N	300	N
CPF83R	5	1	2	.5	700	0.5	N	10	2000	2	N	N	--	--	50	100	N	L	--	50	N	20	N	1000	100	N	30	N	200	N
CPF84R	0.5	0.7	G20	.07	500	N	N	10	150	1	N	N	--	--	L	30	N	L	--	10	N	L	N	500	20	N	20	N	30	N
CPF85R	0.5	0.2	10	.1	150	N	N	10	300	N	N	N	--	--	L	30	N	L	--	L	N	L	N	100	20	N	10	N	300	N
CPF86R	3	0.2	1	.1	100	N	N	20	300	1.5	N	N	--	--	50	30	N	L	--	30	N	L	N	100	50	N	10	N	100	N
CPF87R	0.05	0.1	0.5	L	70	N	N	10	50	N	N	N	--	--	N	20	N	N	--	L	N	N	N	N	L	N	N	N	N	N
CPF88R	1.5	0.5	0.2	.1	70	N	N	20	1000	2	N	N	--	--	10	50	N	2	--	30	N	5	N	L	50	N	10	L	150	N
CPF89R	1.5	0.15	L	.05	20	N	N	10	300	L	N	N	--	--	L	20	N	L	--	30	N	N	N	N	10	N	N	N	200	N
CPF90R	1	2	10	.1	300	N	N	10	700	L	N	N	---	--	L	20	N	L	--	20	N	L	N	100	30	N	N	N	200	N
CPF91R	0.7	2	10	.1	300	N	N	10	700	N	N	N	--	--	L	20	N	L	--	20	N	L	N	150	20	N	10	N	300	N
CPF92R	3	1	1.5	.3	500	N	N	10	1500	2	N	N	--	--	30	70	N	L	--	50	N	10	N	300	50	N	20	N	200	N
CPF93R	1	1.5	5	.2	200	N	N	50	2000	1	N	N	35	100	10	50	N	L	L	10	N	5	N	100	30	N	20	N	500	N
CPF94R	1.5	0.7	1	.2	500	N	N	10	1000	2	N	N	5	50	20	70	N	L	20	30	N	5	N	500	30	N	10	N	150	N
CPF95R	2	1	10	.2	200	3	N	100	700	1.5	N	N	10	300	50	50	10	L	150	10	N	20	N	500	100	N	100	300	200	N
CPF96R	0.5	0.1	0.2	.05	70	N	N	10	300	L	N	N	L	N	50	30	50	L	N	L	N	N	N	100	20	N	N	N	30	N
CPF97R	1	0.02	0.1	.01	50	N	N	10	200	L	N	N	N	N	50	30	20	L	N	L	N	N	N	150	10	N	N	N	30	N
CPF98R	0.7	0.1	0.05	.1	70	N	N	50	500	15	N	N	N	30	7	50	L	L	L	20	N	L	N	L	200	N	20	N	50	N
CPF99R	0.5	0.7	2	.1	150	N	N	L	200	2	N	N	N	50	10	50	N	L	10	L	N	L	N	100	20	N	20	N	300	N
F82-43	3	1.5	2	.3	700	L	N	10	2000	1	N	N	20	N	30	50	7	L	30	50	L	10	N	500	100	N	10	N	70	N
F82-44	0.15	0.1	0.5	.015	50	N	N	L	50	2	N	N	N	N	15	20	N	L	L	L	N	N	N	L	15	N	L	N	50	N
F82-45	3	2	2	.2	500	1	N	20	200	1	N	N	20	N	50	20	5	L	50	50	N	15	N	200	100	N	20	N	70	N
F82-46	5	2	1.5	.5	500	N	N	100	300	1	N	N	20	N	50	50	N	L	50	30	L	20	N	100	100	N	20	N	70	N
F82-47	1	0.1	0.15	.1	70	N	N	10	200	3	N	N	L	N	20	100	10	L	L	50	N	5	N	150	15	N	20	N	50	N
F82-48	1	2	20	.15	500	M	M	10	500	1	N	N	10	N	15	30	N	L	20	30	L	10	N	500	50	N	20	N	100	N
F82-49	1.5	1	0.5	.5	50	5	N	200	5000	1	N	N	N	L	50	50	15	L	20	20	100	15	N	100	150	N	70	N	500	N
F82-50	3	2	2	.03	500	0.5	N	10	2000	1	N	N	5	N	50	70	L	L	20	70	L	15	N	500	100	N	20	N	100	N
F82-51	5	1.5	3	.5	500	2	N	15	2000	1	N	N	20	70	50	100	L	L	30	50	N	30	N	500	100	N	20	N	100	N
F82-52	3	1.5	3	.15	200	3	N	150	100	1	N	N	5	N	50	20	N	L	30	10	N	7	N	N	100	N	10	N	30	N
F82-53	1	1	0.03	.02	300	1	N	10	10	1	10	N	L	N	50	20	20	N	10	70	N	N	N	L	70	N	L	N	20	N
F82-54	3	2	3	.3	700	N	N	10	2000	1	N	N	20	N	50	15	L	10	30	50	N	30	N	500	100	N	20	N	100	N
F82-55	1.5	0.1	1	.15	500	N	N	10	1000	2	N	N	N	N	10	50	L	N	5	70	N	10	N	500	70	N	L	N	70	N
F82-56	1	1	3	.07	500	N	N	10	200	1.5	N	N	N	N	30	20	L	N	5	15	N	N	N	L	10	N	L	N	100	N
GM82-146	1	2	0.05	.1	70	5	200	N	700	L	N	N	N	N	15	20	10	L	5	10	N	L	N	L	100	N	L	N	30	N
GM82-147A	2	0.1	0.1	.2	500	N	N	20	70	1	N	N	20	70	20	30	L	10	20	20	L	10	N	N	100	N	10	N	70	N
GM82-147B	2	0.05	L	.15	100	L	N	20	70	1	N	N	N	70	15	70	15	10	L	50	N	7	1	200	50	1	20	N	200	N

Remarks: G = Greater than value shown; N = not detected at limit of detection or at value shown; L = detected, but below limit of determination or below value shown. All values reported in parts per million unless otherwise noted. R = rock sample; S = stream sediment sample (-180 mesh); P = panned concentrate sample (-180 mesh)

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards.