DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

TABLE 4A--ANALYSES OF ROCK SAMPLES, GC-SERIES, CAT CREEK AREA
EASTERN SAN JUAN MOUNTAINS; RIO GRANDE AND CONEJOS COUNTIES, COLORADO

	Semiquantitative Spectrographic Analysis ppm																													percent				Atomic Absorption ppm	Instrumental ppm
Sample No.	Ti	Zn	Mn	V	Zr	La	Ni	Cu	Cd	Pb	B	Y	Mo	Sn	Co	Ag	Be	Bi	Ga	As	Sb	W	Sc	Cr	Ba	Sr	Nb	Au	Fe	Mg	Ca	Al	Au	Hg
GC-1-A	1,500	A	30	20	–	30	A	100	A	50	–	10	A	A	A	A	1	A	–	A	A	A	–	5	2,000	200	A	A	1.5	.02	.07	7	.1	.050
1-B	2,000	A	50	50	–	30	A	30	A	50	–	15	A	A	A	A	1	A	–	A	A	A	–	5	150	200	A	A	1.5	.15	.15	7	<.1	.100
1-C	2,000	<200	20	50	200	30	5	30	<20	30	<10	10	<2	<10	<5	2	1	10	20	<200	<100	<50	5	5	300	1,500	–	–	1	.05	.05	–	<.1	.040
1-D	2,000	<200	150	20	200	20	<2	<5	<20	700	<10	15	5	<10	<5	1	<1	<5	–	<200	A	<50	<5	A	300	700	<20	A	2	.1	.07	–	–	.900
2-A	3,000	A	50	50	–	30	A	15	A	700	–	20	5	A	A	2	<1	A	–	A	A	A	–	2	1,000	500	10	A	1.5	15	.15	7	<.1	.100
2-B	2,000	A	10	30	–	30	A	15	A	700	–	15	3	A	A	3	A	A	–	A	A	A	–	2	2,000	150	A	A	.2	.005	.05	5	<.1	.080
2-C	1,500	A	30	30	–	30	A	70	A	1,500	–	10	A	A	A	20	1	A	–	A	A	A	–	1.5	1,500	700	A	A	3	.15	.03	5	<.1	.200
3-A	3,000	<200	100	20	200	30	<2	<5	<20	50	10	20	<2	<10	<5	<.5	<1	<5	–	<200	A	A	5	A	500	150	<20	A	1.5	.3	.15	–	–	.090
3-B	2,000	700	1,500	20	200	50	<2	<5	<20	70	10	20	<2	<10	<5	<.5	2	<5	–	<200	A	A	5	A	500	150	<20	A	3	.3	.15	–	–	.060
3-C	1,500	<200	200	20	300	<20	<2	<5	<20	300	15	10	<2	<10	<5	<.5	3	<5	–	<200	A	<50	7	A	300	150	<20	A	3	.5	<.05	–	–	.900
4-A	3,000	<200	10	50	300	50	<5	20	<20	20,000	<10	15	<2	<10	<5	15	<1	<10	20	<200	100	<50	10	<5	300	700	–	–	2	.02	.05	–	.1	.060
4-B	3,000	A	100	30	–	30	A	5	A	1,500	–	20	A	A	A	1	1.5	A	–	A	A	A	–	2	2,000	300	A	A	2	.7	.07	7	<.1	.400
5-A	3,000	A	150	70	–	50	A	20	A	100	–	20	7	A	A	A	1	A	–	A	A	A	–	7	1,500	100	10	A	1.5	.7	.2	M	<.1	.015
5-B	3,000	300	1,500	70	–	50	3	100	A	100	–	20	10	A	7	A	1	A	–	A	A	A	–	10	1,000	700	A	A	5	.5	.1	7	<.1	.070
6-A	700	<200	500	30	30	<20	<2	150	<20	300	<10	<5	<2	<10	<5	10	<1	7	–	<200	A	<50	<5	A	150	1,000	<20	A	2	.07	.1	–	–	.700
6-B	1,500	200	700	70	70	20	<5	200	<20	500	<10	10	<2	<10	<5	15	<1	<10	<10	<200	<100	<50	5	<5	1,000	>5,000	–	–	2	.05	.2	–	<.1	3.000
7-A	3,000	300	300	50	300	50	<5	20	<20	500	<10	15	<2	<10	<5	2	<1	<10	20	<200	<100	<50	7	5	1,000	700	–	–	3	.03	.1	–	<.1	.300
7-B	3,000	A	700	50	–	50	A	10	A	300	–	30	A	A	A	A	1	A	–	A	A	A	–	2	2,000	150	10	A	3	1	.15	M	<.1	.200
7-C	1,500	A	15	30	–	A	A	20	A	100	–	10	3	A	A	A	A	A	–	A	A	A	–	5	150	500	A	A	3	.03	.1	5	<.1	.120
8-A	5,000	1,500	50	100	200	20	7	150	<20	15,000	<10	20	<2	<10	10	15	<1	<10	15	<200	100	<50	10	5	2,000	5,000	–	–	2	.02	.15	7	.57	.100
8-B	3,000	1,500	7,000	100	–	50	A	300	A	3,000	–	20	5	A	5	30	1	A	–	A	A	A	–	7	3,000	1,500	A	A	3	.7	.3	7	<.1	.400
9-A	5,000	<200	100	70	500	20	<5	10	<20	200	<10	10	100	<10	<5	1	<1	<10	20	<200	<100	<50	7	<5	150	700	–	–	1.5	.02	.05	–	<.1	.060
9-B	3,000	<200	150	30	300	<20	<2	5	<20	150	20	20	3	<10	<5	<.5	2	5	–	<200	A	<50	<5	A	150	300	<20	A	3	.3	.07	–	–	.220
10-A	1,500	<200	70	30	50	30	<2	7	<20	300	<10	<5	<2	<10	<5	3	<1	7	–	<200	A	<50	<5	A	700	700	<20	A	.3	.03	.15	–	–	.200
10-B	2,000	<200	100	20	150	50	<2	5	<20	300	<10	<5	<2	<10	<5	2	<1	7	–	<200	A	<50	<5	A	100	700	<20	A	.2	.2	.15	–	–	.090
10-C	2,000	<200	200	50	150	<20	<2	100	<20	1,000	30	10	5	<10	<5	2	<1	5	–	<200	A	<50	<5	10	100	500	<20	A	2	.3	.15	–	–	.150
11	100	<200	700	30	50	20	5	10	<20	15	<10	<5	<2	<10	<5	<.5	1	<5	–	<200	A	<50	<5	A	500	100	20	A	.7	.07	.3	–	–	.090
12-A	1,500	A	500	30	–	30	A	50	A	300	–	15	20	A	A	A	A	A	–	A	A	A	–	3	500	500	A	A	2	.05	.3	3	<.1	<.010
12-B	3,000	A	50	70	–	50	A	30	A	700	–	20	200	A	A	A	A	A	–	A	A	A	–	10	1,000	2,000	10	A	5	.15	.3	7	<.1	.040
13	3,000	700	1,000	150	–	30	5	200	A	1,000	–	30	3	A	10	10	A	15	–	A	A	A	–	20	3,000	300	10	A	5	.1	.3	7	<.1	.280
14-A	500	3,000	<10	10	50	<20	10	150	<20	500	<10	<10	2	<10	15	2	<1	15	<10	<200	<100	<50	5	5	2,000	700	–	–	5	.02	.07	–	.1	.300
14-B	2,000	<200	150	20	300	50	<2	7	<20	200	<10	7	<2	<10	<5	<.5	1	<5	–	<200	A	<50	<5	A	500	200	20	A	1	.5	.1	–	–	.300
15-A	3,000	1,000	<10	30	200	50	20	700	<20	10,000	<10	<10	10	20	10	150	<1	20	<10	<200	100	<50	7	5	>5,000	3,000	–	–	10	<.02	<.05	–	.4	5.000
15-B	2,000	A	70	50	–	30	A	30	A	300	–	10	A	A	A	A	A	A	–	A	A	A	–	3	1,000	300	A	A	1.5	1	.03	5	<.1	.260
15-C	2,000	700	300	70	–	30	A	200	A	5,000	–	15	5	A	A	30	A	10	–	A	A	A	–	10	7,000	1,000	A	A	3	.3	.15	7	<.1	.360
16-A	2,000	200	500	50	300	30	5	100	<20	500	<10	10	7	<10	<5	50	<1	20	20	<200	<100	<50	7	<5	1,000	2,000	–	–	2	.02	.07	–	.28	1.400
16-B	3,000	<200	100	20	300	30	<2	5	<20	70	15	10	<2	<10	<5	<.5	<1	<5	–	<200	A	<50	10	A	1,500	150	20	A	1.5	.3	.15	–	–	<.010
16-C	2,000	<200	500	20	200	50	<2	50	<20	300	50	15	<2	<10	<5	1.5	1.5	5	–	<200	A	<50	<5	A	500	300	<20	A	3	.5	.2	–	–	.600
17-A	2,000	<200	20	50	300	50	15	100	<20	500	<10	<10	3	<10	10	15	<1	10	20	<200	<100	<50	5	5	1,000	5,000	–	–	5	<.02	.07	–	<.1	.100
17-B	3,000	A	150	50	–	70	A	150	A	200	–	20	3	A	A	A	A	A	–	A	A	A	–	1.5	1,500	500	10	A	3	.1	.15	7	<.1	.030
17-C	3,000	A	200	50	–	50	A	150	A	1,500	–	30	5	A	A	1	1	A	–	A	A	A	–	3	1,000	500	10	A	3	.5	.1	7	<.1	.160
18-A	2,000	A	200	70	–	30	A	30	A	2,000	–	A	7	A	A	1	A	A	–	A	A	A	–	7	700	500	A	A	M	.03	.07	7	<.1	.030
18-B	5,000	A	150	100	–	30	A	7	A	300	–	15	A	A	A	A	A	A	–	A	A	A	–	15	700	500	A	A	1	.3	.1	M	<.1	<.010
19-A	700	<200	70	150	500	50	<2	200	<20	5,000	10	7	15	<10	<5	30	1	20	–	500	150	A	7	15	1,000	3,000	<20	A	10	.07	.3	–	–	.260
19-B	5,000	<200	150	200	300	20	<2	150	<20	100	20	<5	<2	<10	<5	<.5	<1	<5	–	<200	A	<50	7	70	50	300	<20	A	10	.3	.3	–	–	.090
20-A	5,000	A	30	150	–	50	A	5	A	50	–	15	A	A	A	A	A	A	–	A	A	A	–	15	300	200	10	A	.5	.5	.15	7	<.1	.015
20-B	3,000	A	20	100	–	30	A	100	A	300	–	10	7	A	A	A	A	A	–	A	A	A	–	10	700	2,000	A	A	M	.1	.2	M	<.1	.030

Sample locations shown on Maps 4a, 4b

>-Greater than value shown
<-Less than value shown

-Not looked for
A-Not detected
M-Greater than 10%