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Analyses and descriptions of geochemical samples, Snowbird Roadless Area, Graham County, North Carolina

by

M. S. Erickson, F. G., Lesure, G. W. Day, and J. D. Sharkey

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Abstract

Semiquantitative spectrographic analyses for 31 elements on 53 stream-sediment, 13 panned-concentrate, 116 soil, and 113 rock samples from Snowbird Roadless Area and vicinity, Nantahala National Forest, Graham County, N. C., are reported here in detail. Atomic-absorption analyses for gold and zinc in all samples and fluorometric analyses for uranium in rock samples are also reported. Localities for all samples are given in Universal Transverse Mercator (UTM) coordinates. Brief descriptions of rock samples are also included. Rocks analyzed include metasandstone, graphitic slate, metagraywacke, mica-garnet schist, pseudodiorite, and vein quartz.

Introduction

The analyses reported here are on 53 stream-sediment, 13 panned-concentrate, 116 soil, and 113 rock samples collected by F. G. Lesure, J. H. DeYoung, Jr., J. R. Estabrook, A. E. Grosz, and W. D. Rowe in April 1981. Maps showing sample localities and discussion of the analytical results are given by Lesure (in press).

Snowbird Roadless Area was classified for further planning during the Second Roadless Area Review and Evaluation (RARE II) conducted by the U.S. Forest Service, January 1979.

Sampling Procedures

Most of the small drainage basins in the study area and some adjacent to it were sampled by collecting at random a few handfuls of the finest sediment available at the sample site in the stream. After drying in the laboratory, the samples were sieved to minus 80-mesh (0.007 in. or 0.177 mm) and then pulverized to minus 140-mesh (0.004 in. or 0.105 mm) for analysis. In addition to the fine-grained stream-sediment samples A. E. Grosz panned heavy mineral concentrates at 13 of the stream-sediment sample sites, 9 in the roadless area and 4 outside but adjacent to the area. He also panned alluvium from two streams near the Fontana Copper Mine, Swain County, N. C., for comparative purposes (samples NCBFMC and NCBFMA). The panned concentrates were further separated into a light and a heavy fraction by D. M. Demichelis, U.S.G.S., using bromoform at a specific gravity of 2.86. The light fraction was discarded. Magnetite was removed from the heavy fraction by hand magnet. The sample was separated electromagnetically by a Frantz[1/] isodynamic separator set at a forward and side angle of 20 degrees and an ampere setting of 0.2. The magnetic fraction at 0.2 amperes was discarded and the less magnetic fraction further separated electromagnetically at a setting of 1 ampere. The latter two fractions, one magnetic and one non-magnetic, were analyzed.

The rock samples consist of a few chips taken across bedding or layering over a measured thickness (table 1). The samples are representative of the major rock types exposed in the area. Most of the rock is partly weathered, but the freshest material available was generally sampled. Rock samples were crushed to approximately 0.25 in. (6 mm) and pulverized to minus 140-mesh (0.004 in. or 0.105 mm) in a vertical grinder with ceramic plates.

The soil samples are grab samples from the A_2 or upper B soil zone, just below the dark, organic-rich surface soil (A_1 zone). Soils were dried, sieved to minus 80-mesh (0.007 in. or 0.177 mm), and then pulverized to minus 140-mesh (0.004 in or 0.105 mm).

Analytical Techniques

Each sample was analyzed semiquantitatively for 31 elements by means of a six-step, D.C. (direct-current) arc, optical-emission spectrographic method (Grimes and Marranzino, 1968) by M. S. Erickson, except for the panned concentrates which were analyzed by G. W. Day, in U.S.G.S. laboratories, Denver, Colorado (table 2). In addition, each sample was analyzed by means of atomic-absorption techniques for gold and zinc (Ward and others, 1969, p. 20) by J. D. Sharkey, R. J. Fairfield, D. L. Kelley, and W. C. Martin in U.S.G.S. laboratories, Denver, Colorado. The rock samples were also analyzed for uranium by J. D. Sharkey using the fluorometric method of Cantanni and others (1956). P. G. Schruben formatted the analytical data by computer methods for table 2.

[1/]Use of trade name is for descriptive purposes only and does not imply endorsement by the U.S.G.S.

The semiquantitative spectrographic values are reported as six steps per order of magnitude (1, 0.7, 0.5, 0.3, 0.2, 0.15, or multiples of 10 of these numbers) and are approximate geometric midpoints of the concentration ranges. The expected precision is within one adjoining reporting interval on each side of the reported value 83 percent of the time and within two adjoining intervals 96 percent of the time (Motooka and Grimes, 1976).

EXPLANATION OF TABLE 2

The table shows the results of geochemical analyses of stream-sediment, soil, and rock samples from Snowbird Roadless Area and vicinity.

The X and Y coordinates are Universal Transverse Mercator (UTM) grid, zones 16 and 17. The X coordinate is the easting value in meters; the Y is the northing value in meters.

Iron, magnesium, calcium, and titanium concentrations are reported in percent (pct.); all others are in parts per million (ppm). Letters beneath chemical symbols indicate the method of analysis: S, six-step semiquantitative spectrographic method; AA, atomic absorption. Other symbols used in the table are: N, not detected; --, not determined; <, amount detected is below the lowest limit of determination which is figure shown; >, amount detected is above the highest limit of determination, which is figure shown; P, partial digestion.

Elements looked for spectrographically but not found, except as noted, and the lower limits of detection are: Ag(0.5), As(200), Au(10), Bi(10), Cd(20), Mo(5), Sb(100), Sn(10), Th(100), W(50), and Zn(200). Exceptions: Sample NCB083 reported to contain 0.5 ppm Ag; sample NCB 119 gold detected but less than limit of determination, or <0.05 ppm Au; sample NCB 140 reported to contain 0.15 ppm Au; and sample NCB FMC 1 reported to contain 2.0 ppm Ag.

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Motooka, J. M., and Grimes, D. J., 1976, Analytical precision of one-sixth order semiquantitative spectrographic analyses: U.S. Geological Survey Circular 738, 25 p.

Ward, F. N., Nakagawa, H. M., Harms, T. F., and Van Sickle, G. H., 1969, Atomic-absorption methods of analysis useful in geochemical exploration: U.S. Geolgoical Survey Bulletin 1289, 45 p.

Table 1.--Description of rock samples. [All samples, except as noted, are composites of several small chips taken randomly across the rock structure over the distance given.]

Sample No.	Description
NCB 001	1-m chip sample, light-gray quartz-mica-garnet schist, minor iron-sulfides. Hughes Gap Formation of Hurst (1955)
NCB 002	1-m chip sample, interlayered light-olive-gray fine-grained quartz-biotite metasandstone and medium-dark-gray slate containing minor garnet. Wehutty Formation
NCB 003	1-m chip sample, medium-light-gray fine-grained metasandstone, minor iron sulfides; graded beds 1-2 m thick. Wehutty Formation
NCB 004	1-m chip sample, dark-gray interlayered metagraywacke and slate. Wehutty Formation.
NCB 005	1-m chip sample, light gray fine-grained metasandstone, abundant iron sulfides. Wehutty Formation
NCB 007	1-m chip sample, medium-gray interlayered slate and metasiltstone, minor biotite and garnet porphyroblasts. Wehutty Formation(?)
NCB 008	1-m chip sample, medium-gray fine-grained metasandstone. Wehutty Formation
NCB 010	1-m chip sample, light-gray fine- to coarse-grained metasandstone. Wehutty Formation (?)
NCB 012	Composite sample, white vein quartz, vein 0.15 m thick cuts metasandstone. Copperhill Formation of Hurst (1955) (?)
NCB 013	3-m chip sample, medium-dark-gray interlayered slate and metagraywacke. Copperhill Formation of Hurst (1955) (?)
NCB 014	1-m chip sample, medium-gray fine-grained metasandstone, minor blue quartz. Copperhill Formation of Hurst (1955)?
NCB 016	1-m chip sample, medium-gray slate, minor garnet. Wehutty Formation (?)
NCB 020	1-m chip sample, medium- to dark-gray slate, garnet porphyroblasts. Wehutty Formation (?)
NCB 022	1-m chip sample, light-gray fine- to coarse-grained metasandstone. Hughes Gap Formation of Hurst (1955)
NCB 023	1-m chip sample, light-gray fine-grained muscovite-garnet schist. Hughes Gap Formation of Hurst (1955)
NCB 024	1-m chip sample, light-gray fine-grained metaconglomerate; minor blue quartz. Hughes Gap Formation of Hurst (1955)
NCB 030	1-m chip sample, light- to medium-gray quartz-mica-garnet schist. Hughes Gap Formation of Hurst (1955)
NCB 031	1-m chip sample, light-gray fine-grained metaconglomerate. Wehutty Formation
NCB 032	1-m chip sample, medium-dark-gray interlayered metagraywacke, and slate; iron sulfides. Wehutty Formation
NCB 033	1-m chip sample, light-olive-gray fine-grained conglomerate, metasandstone. Copperhill Formation of Hurst (1955) ?
NCB 037	1-m chip sample, light-gray fine- to medium-grained metasandstone. Copperhill Formation of Hurst (1955) ?
NCB 038	1-m chip sample, dark-gray slate. Copperhill Formation of Hurst (1955) ?

Sample No.	Description
NCB 040	2-m chip sample, light- to medium-gray fine- to coarse-grained metasandstone; minor blue quartz. Hughes Gap
NCB 041	Composite sample, white vein quartz; vein 0.15-.3 m thick cutting metasandstone. Hughes Gap Formation of Hurst (1955)
NCB 043	1-m chip sample, light-gray fine-grained metaconglomerate. Wehutty Formation
NCB 044	1-m chip sample, medium-light gray fine-grained metagraywacke; garnet and staurolite (?) porphryoblasts, minor iron sulfides. Wehutty Formation
NCB 045	1-m chip sample, medium- to dark-gray slate; minor garnet. Wehutty Formation.
NCB 046	Composite sample, white vein quartz; vein 0.5-1 cm thick cutting metaconglomerate. Copperhill Formation of Hurst (1955) ?
NCB 049	1-m chip sample, light- to medium-gray interbedded slate and metagraywacke. Wehutty Formation (?)
NCB 050	1-m chip sample, medium-gray conglomeratic metagraywacke; slate fragments. Wehutty Formation (?)
NCB 052	Composite sample, white vein quartz; vein 0.01-0.3 m thick cutting metaconglomerate. Copperhill Formation of Hurst (1955) ?
NCB 053	2-m chip sample, medium-gray fine-grained metaconglomerate, minor blue quartz. Copperhill Formation of Hurst (1955) ?
NCB 054	Composite sample, white vein quartz; vein 0.1 m thick cutting metaconglomerate. Copperhill Formation Hurst (1955) ?
NCB 055	1-m chip sample, medium-light-gray fine- to medium-grained metasandstone and fine-grained metaconglomerate. Hughes Gap Formation of Hurst (1955)
NCB 056	1-m chip sample, light-olive-gray fine-grained quartz-muscovite-biotite-garnet schist. Hughes Gap Formation of Hurst (1955)
NCB 057	1-m chip sample, light-gray very fine-grained quartz-muscovite-biotite-garnet schist, minor staurolite (?). Hughes Gap Formation of Hurst (1955)
NCB 058	1-m chip sample, medium-dark to dark-gray graphitic slate, minor iron-sulfide. Wehutty Formation
NCB 059	0.6-m chip sample, light-gray metagraywacke, garnet and biotite porphyroblasts. Wehutty Formation
NCB 060	2-m chip sample, olive-gray conglomeratic metasandstone. Wehutty Formation
NCB 062	Composite sample, psuedodiorite; lens 0.3 m thick and 1 m long. Hughes Gap Formation of Hurst (1955)
NCB 063	1-m chip sample, interlayered light-gray fine-grained metagraywacke and dark gray slate; minor mica and garnet porphyroblasts. Wehutty Formation ?
NCB 064	1-m chip sample, olive-gray fine- to coarse-grained conglomeratic metasandstone. Copperhill Formation of Hurst (1955) ?
NCB 065	1-m chip sample, dark gray interlayered slate and graywacke; minor iron sulfides. Copperhill Formation of Hurst (1955) ?
NCB 066	1-m chip sample, light-gray fine- to coarse-grained conglomeratic metasandstone; minor blue quartz. Copperhill Formation of Hurst (1955) ?

Sample No.	Description
NCB 068	1-m chip sample, light-olive-gray fine- to coarse-grained conglomeratic metasandstone; minor blue quartz and granite pebbles. Copperhill Formation of Hurst (1955) ?
NCB 070	1-m chip sample, dark gray slate; biotite porphyroblasts. Wehutty Formation
NCB 071	Composite sample, psuedodiorite; two 0.3 m pods. Hughes Gap Formation of Hurst (1955)
NCB 072	2-m chip sample, light-gray fine- to coarse-grained conglomeratic metasandstone; minor blue quartz. Hughes Gap Formation of Hurst (1955)
NCB 073	1-m chip sample, light-olive-gray muscovite-biotite-garnet schist. Hughes Gap Formation of Hurst (1955)
NCB 075	1-m chip sample, light-olive-gray muscovite-biotite-garnet schist. Hughes Gap Formation of Hurst (1955)
NCB 077	2-m chip sample, medium-light-gray, fine- to medium-grained metasandstone. Hughes Gap Formation of Hurst (1955)
NCB 080	1-m chip sample, light-gray, fine- to coarse-grained metasandstone. Copperhill Formation of Hurst (1955) ?
NCB 081	Composite sample, psuedodiorite; lens 0.3 m thick and 1 m long. Wehutty Formation (?)
NCB 082	1-m chip sample, dark-gray crinkled slate. Copperhill Formation of Hurst (1955) ?
NCB 083	2-m chip sample, light-gray, medium- to coarse-grained conglomeratic metasandstone. Copperhill Formation of Hurst (1955) ?
NCB 084	2-m chip sample, medium-dark- to dark-gray graphitic slate; biotite, garnet, and staurolite (?) porphyroblasts. Wehutty Formation
NCB 085	1-m chip sample, light-olive-gray fine- to coarse-grained metasandstone. Wehutty Formation
NCB 086	1-m chip sample, light-medium-gray muscovite-biotite-garnet schist. Hughes Gap Formation of Hurst (1955)
NCB 087	2-m chip sample, light-gray fine-grained metaconglomerate; quartz and feldspar pebbles. Wehutty Formation
NCB 088	Composite sample, dark gray graphitic slate. Wehutty Formation
NCB 108	1-m chip sample, light-gray fine- to coarse-grained conglomeratic metasandstone; minor blue quartz. Copperhill Formation of Hurst (1955) ?
NCB 109	1-m chip sample, medium-gray schistose metagraywacke, biotite and garnet porphyroblasts. Copperhill Formation of Hurst (1955) ?
NCB 112	1-m chip sample, light-olive-gray fine- to coarse-grained conglomeratic metasandstone; quartz pebbles and granules. Copperhill Formation of Hurst (1955) ?
NCB 116	Composite sample, psuedodiorite, lens 0.02-.3 m thick and 5 m long. Hughes Gap Formation of Hurst (1955)
NCB 117	3-m chip sample, light-gray very fine- to medium-grained metasandstone. Hughes Gap Formation of Hurst (1955)
NCB 131	2-m chip sample, light-gray fine- to medium-grained metasandstone. Copperhill Formation of Hurst (1955) ?
NCB 133	1-m chip sample, light-gray to olive-gray muscovite-quartz-biotite-garnet schist; garnet, biotite and staurolite porphyroblasts. Hughes Gap Formation of Hurst (1955)

Sample No.	Description
NCB 134	1-m chip sample, light-olive-gray fine- to coarse-grained conglomeratic metasandstone; quartz granules and fine pebbles. Hughes Gap Formation of Hurst (1955)
NCB 136	2-m chip sample, light-olive-gray fine-grained conglomeratic metasandstone; quartz and feldspar fine pebbles. Hughes Gap Formation of Hurst (1955)
NCB 139	Composite sample, psuedodiorite, lens 0.06-.12 m thick and 2 m long. Hughes Gap Formation of Hurst (1955)
NCB 140	2-m chip sample, light- to medium-light-gray muscovite-quartz-biotite-garnet schist; biotite and garnet porphyroblasts, minor iron sulfides. Hughes Gap Formation of Hurst (1955)
NCB 141	1-m chip sample, schistose fine-grained metasandstone. Hughes Gap Formation of Hurst (1955)
NCB 142	3-m chip sample, light-gray fine- to coarse-grained conglomeratic metasandstone; quartz and feldspar pebbles. Hughes Gap Formation of Hurst (1955)
NCB 144	2-m chip sample, medium-dark-gray slate; biotite porphyroblasts. Wehutty Formation
NCB 145	2-m chip sample, light-gray fine-grained metasandstone. Copperhill Formation of Hurst (1955) ?
NCB 146	1-m chip sample, medium-gray interlayered slate and fine-grained metagraywacke. Copperhill Formation of Hurst (1955) ?
NCB 148	0.75-m chip sample, light-olive-gray fine-grained metasandstone. Copperhill Formation of Hurst (1955) ?
NCB 151	3-m chip sample, light-olive-gray, fine- to coarse-grained metasandstone. Copperhill Formation of Hurst (1955) ?
NCB 158	0.5-m chip sample, yellowish-gray fine-grained muscovite-quartz-garnet schist; garnet and rare biotite porphyroblasts. Hughes Gap Formation of Hurst (1955)
NCB 168	3-m chip sample, olive-gray, fine- to coarse-grained metasandstone. Wehutty Formation
NCB 172	3-m chip sample, light-gray to olive-gray fine-grained metagraywacke; slate chips; garnet and minor biotite porphyroblasts. Wehutty Formation
NCB 205	1-m chip sample, medium-gray fine-grained metagraywacke; minor iron sulfides. Copperhill Formation of Hurst (1955) ?
NCB 206	0.25-m chip sample, dark-gray slate interlayered with fine-grained metasandstone; minor iron sulfides. Wehutty Formation
NCB 211	1-m chip sample, medium-dark-gray slate; very fine garnet porphyroblasts, minor iron sulfides. Copperhill Formation of Hurst (1955) ?
NCB 213	1-m chip sample, dark-gray very hard slate. Wehutty Formation
NCB 228	1-m chip sample, medium-dark-gray fine- to coarse-grained metasandstone. Copperhill Formation of Hurst (1955) ?
NCB 235	Grab sample, psuedodiorite. Wehutty Formation
NCB 236	1-m chip sample, light- to medium-gray schistose metagraywacke; biotite porphyroblasts. Wehutty Formation
NCB 242	1-m chip sample, medium-light-gray fine- to coarse-grained metasandstone; minor blue quartz granules. Copperhill Formation of Hurst (1955) ?
NCB 244	1-m chip sample, medium-light-gray fine- to coarse-grained metasandstone. Wehutty Formation (?)

Sample No.	Description
NCB 254	1-m chip sample, dusky-yellow fine-grained muscovite-quartz-garnet schist. Hughes Gap Formation of Hurst (1955)
NCB 257	1-m chip sample, medium-dark-gray, fine-grained quartz-biotite schist; biotite porphyroblasts. Hughes Gap Formation of Hurst (1955)
NCB 301	1-m chip sample, light-gray fine-grained quartz-muscovite-biotite-garnet schist; biotite and garnet porphyroblasts. Hughes Gap Formation of Hurst (1955)
NCB 303	1-m chip sample, interlayered fine-grained dark-gray and olive-gray quartz-muscovite-biotite-garnet schist. Hughes Gap Formation of Hurst (1955)
NCB 304	1-m chip sample, interlayered fine-grained light-gray metasandstone and quartz-muscovite-biotite-garnet schist. Hughes Gap Formation of Hurst (1955)
NCB 305	1-m chip sample, light-gray fine- to coarse-grained metasandstone. Hughes Gap Formation of Hurst (1955)
NCB 312	1-m chip sample, medium-light-gray to light-olive-gray fine-grained quartz-muscovite-biotite-garnet schist; biotite and garnet porphyroblasts. Hughes Gap Formation of Hurst (1955)
NCB 313	2-m chip sample, medium-light-gray to olive-gray fine-grained quartz-muscovite phyllite; minor very small garnet porphyroblasts. Wehutty Formation
NCB 314	1-m chip sample, medium-gray very fine-grained graphitic(?) slate, minor iron sulfides. Wehutty Formation
NCB 315	1.5-m chip sample, dark-gray slate. Wehutty Formation
NCB 316	1-m chip sample, olive-gray fine-grained metagraywacke. Wehutty Formation
NCB 317	1-m chip sample, dark-gray laminated slate. Wehutty Formation
NCB 319	1-m chip sample, medium-gray fine- to coarse-grained metagraywacke. Wehutty Formation
NCB 320	1-m chip sample, dark-gray slate; laminated. Wehutty Formation
NCB 321	2-m chip sample, medium-gray to olive-gray fine-grained metasandstone. Wehutty Formation
NCB 322	1-m chip sample, dark-yellowish-brown fine- to coarse-grained conglomeratic metagraywacke; dark-gray slate chips. Wehutty Formation
NCB 326	1-m chip sample, olive-gray fine-grained muscovite-quartz-garnet-biotite schist; garnet and minor biotite porphyroblasts; crinkled. Hughes Gap Formation of Hurst (1955)
NCB 327	1-m chip sample, medium-gray graphitic slate; garnet porphyroblasts in metasandstone stringers. Wehutty Formation
NCB 328	Composite sample, white vein quartz. Wehutty Formation
NCB 413	1-m chip sample, yellowish-gray fine-grained quartz-muscovite-biotite-garnet schist; biotite and garnet porphyroblasts. Hughes Gap Formation of Hurst (1955)
NCB 414	1-m chip sample, medium-light-gray fine- to coarse-grained metasandstone. Hughes Gap Formation of Hurst (1955)
NCB 419	1-m chip sample, dark-gray fine-grained slaty metagraywacke. Copperhill Formation of Hurst (1955) ?
NCB 432	1-m chip sample, pinkish-gray fine-grained quartz-muscovite-biotite-garnet schist; biotite and garnet porphyroblasts. Hughes Gap Formation of Hurst (1955)

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples [Explanation of symbols used in table and additional analytical data are given in the text of this report under the heading "Explanation of Table 2"]

SNOWBIRD STREAM SEDIMENT SAMPLES

Sample	X coor-dinate	Y coor-dinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
NCB025	228,020	3,904,820	1.0	.3	.15	.7	700	70	500	1.5	10	30
NCB026	227,980	3,904,880	1.0	.3	.10	.5	500	70	500	1.5	10	30
NCB027	228,190	3,904,970	1.5	.3	.15	.5	1,000	100	500	2.0	15	50
NCB028	228,350	3,907,040	1.0	.2	.10	.5	700	100	500	1.5	10	30
NCB029	228,820	3,907,040	1.0	.3	.10	.5	1,500	100	500	2.0	20	50
NCB035	228,790	3,907,860	1.0	.3	.10	.5	500	100	500	2.0	10	50
NCB036	229,240	3,908,200	2.0	.5	.15	.5	1,000	70	1,000	2.0	20	100
NCB042	230,860	3,904,920	.7	.5	.15	.5	1,000	70	300	2.0	7	20
NCB061	220,740	3,906,200	1.0	.5	.15	.5	1,000	100	500	2.0	7	50
NCB101	232,060	3,905,480	1.5	.2	.15	.7	1,000	100	500	2.0	15	70
NCB111	771,810	3,909,520	1.0	.3	.15	.5	1,000	100	500	2.0	10	50
NCB113	771,610	3,908,650	1.0	.3	.10	.5	700	70	500	2.0	5	50
NCB114	771,260	3,908,770	.7	.2	.10	.2	500	70	500	1.5	5	20
NCB118	228,540	3,904,900	1.0	.3	.15	1.0	1,000	150	500	1.0	15	50
NCB119	228,640	3,904,880	1.5	.3	.20	1.0	1,500	100	700	1.5	15	70
NCB120	229,680	3,905,170	1.0	.3	.20	1.0	1,000	100	500	2.0	15	30
NCB127	228,940	3,907,820	1.0	.5	.20	.5	1,000	100	700	2.0	15	20
NCB129	229,210	3,908,220	1.0	.3	.30	.5	1,000	70	500	2.0	15	20
NCB132	228,070	3,906,510	1.5	.5	.20	1.0	1,500	100	500	1.5	15	20
NCB143	229,440	3,906,290	1.0	.5	.15	1.0	1,500	100	700	2.0	15	50
NCB150	772,150	3,908,520	1.5	.5	.20	.5	1,000	100	1,000	2.0	15	70
NCB152	772,340	3,908,440	2.0	.5	.10	1.0	1,500	100	700	1.5	15	30
NCB153	772,470	3,908,060	1.5	.5	.20	.5	1,500	150	700	2.0	15	50
NCB154	772,400	3,908,020	1.0	.3	.15	.5	1,000	70	500	2.0	10	30
NCB166	230,200	3,904,910	1.5	.3	.20	1.0	1,000	100	500	2.0	15	50
NCB203	229,250	3,910,480	2.0	.7	.15	.7	1,000	100	700	2.0	15	70
NCB208	772,530	3,909,960	1.5	.5	.15	.7	1,500	100	700	2.0	15	50
NCB210	771,730	3,909,800	1.5	.5	.10	.7	1,500	150	500	2.0	15	50
NCB215	230,040	3,906,470	1.0	.3	.10	.3	1,000	100	700	1.5	15	50
NCB217	230,680	3,905,070	1.5	.3	.15	1.0	1,000	100	500	1.5	10	50
NCB218	228,020	3,907,210	1.5	.5	.15	1.0	1,500	100	500	2.0	15	30
NCB219	228,240	3,907,230	1.0	.5	.15	.5	1,000	100	700	2.0	10	50
NCB221	228,120	3,907,190	1.5	.7	.70	.5	1,000	100	700	2.0	15	50
NCB223	228,050	3,907,150	1.5	.7	.20	.5	1,500	100	500	1.5	15	50
NCB224	227,650	3,906,780	1.5	.7	.20	.7	1,500	150	500	2.0	15	50
NCB225	228,630	3,906,200	1.5	.5	.20	.7	1,500	100	500	1.0	15	50
NCB227	228,580	3,906,030	1.5	.3	.20	.7	1,000	100	300	1.5	15	30
NCB248	227,500	3,907,680	1.5	.7	.20	.5	1,000	100	1,000	1.5	15	50
NCB249	772,820	3,907,790	1.5	.5	.15	.5	1,000	70	700	2.0	15	50
NCB250	227,130	3,907,860	1.5	.7	.70	.5	1,500	100	700	1.5	15	70
NCB251	227,350	3,907,640	2.0	.7	.15	.5	1,500	150	1,000	2.0	15	70
NCB255	231,040	3,902,780	2.0	1.0	.50	1.0	1,500	100	700	2.0	15	100
NCB258	229,130	3,910,510	1.5	1.0	.20	.7	1,000	70	1,000	2.0	15	50
NCB260	232,890	3,909,140	2.0	.7	.20	.7	1,500	100	700	2.0	15	70
NCB306	233,530	3,906,720	2.0	.5	.10	>1.0	1,000	200	700	1.5	15	30

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD STREAM SEDIMENT SAMPLES

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zr-ppm s	Zn-ppm aa
NCB025	15	N	N	N	<5	10	7	N	50	20	1,000	45
NCB026	15	N	N	N	5	15	7	N	70	20	1,000	55
NCB027	15	N	N	N	5	20	10	N	70	20	1,000	40
NCB028	7	N	N	N	5	<10	10	N	70	20	1,000	35
NCB029	20	N	N	N	5	50	10	N	100	30	1,000	35
NCB035	15	N	<5	<20	5	30	7	N	100	15	700	55
NCB036	20	30	N	N	7	30	10	200	100	20	1,000	55
NCB042	20	N	N	N	5	30	5	N	70	20	700	55
NCB061	15	N	N	N	5	20	7	N	100	20	1,000	55
NCB101	20	N	N	N	7	30	10	N	100	20	1,000	60
NCB111	20	N	N	N	5	30	10	N	100	20	>1,000	50
NCB113	15	N	N	N	5	50	7	N	70	20	500	55
NCB114	7	N	N	N	<5	20	<5	N	50	15	700	65
NCB118	30	N	N	<20	7	30	10	N	100	20	1,000	45
NCB119	30	30	N	<20	5	30	15	150	100	30	1,000	40
NCB120	10	N	N	N	10	10	15	<100	70	20	1,000	40
NCB127	10	N	N	N	5	10	10	150	70	20	700	45
NCB129	15	N	N	N	5	20	7	N	70	20	700	45
NCB132	20	N	N	N	7	30	10	N	70	20	1,000	45
NCB143	15	N	N	N	5	20	10	N	70	20	1,000	35
NCB150	20	N	N	N	5	30	15	150	70	20	1,000	40
NCB152	20	N	N	N	7	20	7	100	70	20	1,000	70
NCB153	20	N	N	N	7	30	15	<100	70	20	1,000	60
NCB154	10	50	5	N	5	20	7	N	70	20	300	55
NCB166	20	N	N	N	5	30	15	N	70	15	500	50
NCB203	30	N	N	N	5	30	20	<100	100	20	700	80
NCB208	20	N	N	N	5	30	20	<100	70	30	>1,000	50
NCB210	20	N	N	N	5	50	15	N	70	30	1,000	45
NCB215	20	N	N	N	5	50	15	N	50	20	700	45
NCB217	20	N	<5	N	5	50	15	N	70	20	1,000	45
NCB218	20	N	N	N	7	30	15	N	70	20	700	50
NCB219	10	N	N	N	10	30	10	100	100	20	1,000	40
NCB221	15	N	N	N	7	30	15	200	100	20	1,000	50
NCB223	10	N	N	N	7	50	15	200	100	20	>1,000	45
NCB224	20	N	N	N	10	50	15	100	100	20	700	65
NCB225	15	N	N	N	10	50	10	<100	70	20	1,000	40
NCB227	15	N	N	N	10	15	10	<100	100	15	1,000	40
NCB248	15	N	N	N	7	30	7	150	100	20	>1,000	45
NCB249	15	N	N	N	7	30	10	<100	100	15	1,000	50
NCB250	15	N	N	N	7	50	10	200	100	15	1,000	45
NCB251	20	30	N	N	15	30	10	<100	100	20	1,000	65
NCB255	30	30	N	<20	20	30	10	200	100	30	700	80
NCB258	20	30	N	N	15	50	10	150	100	20	1,000	65
NCB260	20	30	N	N	20	30	10	100	100	20	>1,000	65
NCB306	20	N	N	<20	20	20	15	<100	100	20	>1,000	50

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD STREAM SEDIMENT SAMPLES--continued

Sample	X coordinate	Y coordinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
NCB307	232,910	3,906,270	2.0	.5	.15	>1.0	1,000	150	500	1.5	15	50
NCB308	232,500	3,906,130	2.0	.5	.20	>1.0	1,500	150	500	1.5	15	50
NCB309	232,740	3,906,120	2.0	.7	.20	>1.0	1,500	150	500	1.5	20	50
NCB310	233,140	3,906,240	2.0	.7	.20	.7	1,000	150	500	2.0	15	50
NCB311	233,800	3,906,710	2.0	.7	.15	.7	1,000	150	500	1.5	15	50
NCB401	230,670	3,905,010	1.5	.5	.20	1.0	1,000	100	500	2.0	10	30
NCB402	231,810	3,905,500	2.0	.7	.20	1.0	1,500	100	700	2.0	15	50
NCB415	230,920	3,906,110	1.5	.5	.20	1.0	1,000	100	500	1.5	10	50

SNOWBIRD PAN CONCENTRATE SAMPLES

Sample	X coordinate	Y coordinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
NCB2011	232,790	3,906,190	15.0	2.00	.50	1.5	>10,000	1,500	50	N	10	100
NCB2021	229,250	3,910,480	20.0	2.00	1.00	>2.0	>10,000	5,000	500	N	10	100
NCB2041	229,830	3,902,160	20.0	2.00	.50	>2.0	>10,000	1,000	50	N	30	200
NCB2141	230,040	3,906,470	20.0	2.00	1.00	>2.0	>10,000	2,000	200	N	10	100
NCB2161	230,680	3,905,070	20.0	2.00	1.00	>2.0	>10,000	1,500	50	N	10	100
NCB2201	228,120	3,907,190	30.0	1.50	1.00	>2.0	>10,000	1,000	50	N	10	100
NCB2221	228,050	3,907,150	20.0	2.00	1.50	>2.0	>10,000	5,000	50	N	10	100
NCB2261	228,580	3,907,030	20.0	1.50	1.50	2.0	>10,000	500	200	N	20	100
NCB2381	233,530	3,906,720	20.0	1.50	1.00	>2.0	>10,000	2,000	50	N	20	100
NCB2391	232,500	3,906,130	20.0	1.50	1.00	>2.0	>10,000	2,000	200	N	20	100
NCB2401	230,920	3,906,120	20.0	1.50	1.00	>2.0	>10,000	2,000	50	N	20	100
NCB2561	231,040	3,902,780	30.0	1.50	1.00	>2.0	>10,000	1,000	200	N	30	150
NCB2591	232,890	3,909,140	20.0	2.00	1.00	>2.0	>10,000	5,000	300	N	20	100
NCBFMA1	248,700	3,929,110	20.0	.70	.10	>2.0	>10,000	200	500	N	50	300
NCBFMC1	248,650	3,929,150	30.0	1.00	.10	>2.0	5,000	100	700	N	50	100
NCB2012	232,790	3,906,190	2.0	1.00	1.00	2.0	700	5,000	700	N	N	70
NCB2022	229,250	3,910,480	.3	.10	.10	.5	200	2,000	300	N	N	N
NCB2042	229,830	3,902,160	1.0	.10	.20	.7	500	1,000	500	N	N	N
NCB2142	230,040	3,906,470	2.0	.10	.15	2.0	2,000	2,000	500	N	N	N
NCB2162	230,680	3,905,070	7.0	.50	1.00	2.0	5,000	5,000	500	N	N	50
NCB2202	228,120	3,907,190	1.0	.10	.10	.7	1,000	5,000	100	N	N	N
NCB2222	228,050	3,907,150	2.0	.50	.20	>2.0	5,000	>5,000	100	N	N	N
NCB2262	228,580	3,907,030	5.0	.50	.50	.5	1,500	1,000	1,000	2	10	50
NCB2382	233,530	3,906,720	1.0	.10	.20	.5	1,000	3,000	1,000	N	N	70
NCB2392	232,500	3,906,130	2.0	.20	1.00	1.5	1,000	5,000	1,000	N	N	70
NCB2402	230,920	3,906,120	2.0	.20	.50	1.0	5,000	1,000	500	N	N	N
NCB2562	231,040	3,902,780	2.0	.50	.50	1.5	1,000	1,000	1,500	N	N	70
NCB2592	232,890	3,909,140	2.0	.05	.50	>2.0	3,000	200	50	N	N	N
NCBFMA2	248,700	3,929,110	2.0	.20	<.10	>2.0	1,000	100	200	N	N	700
NCBFMC2	248,650	3,929,150	10.0	.50	.20	>2.0	2,000	50	1,500	N	10	50

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD STREAM SEDIMENT SAMPLES--continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zr-ppm s	Zn-ppm aa
NCB307	20	N	N	<20	15	20	15	N	50	20	>1,000	40
NCB308	20	N	N	20	15	20	15	<100	50	20	>1,000	35
NCB309	30	N	N	20	20	30	15	100	50	30	1,000	60
NCB310	20	N	N	N	20	30	10	<100	70	20	300	60
NCB311	20	20	N	N	20	20	7	<100	50	20	1,000	70
NCB401	20	20	N	N	20	30	10	<100	50	20	700	45
NCB402	20	N	N	N	20	50	10	200	70	20	1,000	60
NCB415	20	N	N	N	10	30	7	150	50	20	500	50

SNOWBIRD PAN CONCENTRATE SAMPLES

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Zn-ppm aa
NCB2011	20	100	N	N	10	20	20	N	50	1,000	N	500	40
NCB2021	100	100	N	50	50	N	50	N	70	2,000	N	>2,000	45
NCB2041	20	100	N	50	30	N	50	N	200	1,000	N	200	30
NCB2141	20	100	N	N	10	N	70	N	50	2,000	N	500	40
NCB2161	20	50	N	N	10	N	70	N	50	1,000	N	1,500	25
NCB2201	50	50	N	N	10	N	70	N	50	2,000	N	2,000	10
NCB2221	15	200	N	50	10	N	70	N	70	2,000	N	500	30
NCB2261	15	50	N	N	10	N	70	N	100	2,000	N	200	45
NCB2381	20	50	N	50	10	N	70	N	70	1,000	N	700	35
NCB2391	20	50	N	70	10	N	70	N	70	1,000	N	700	55
NCB2401	20	50	N	50	10	N	70	N	100	1,500	N	700	40
NCB2561	20	100	N	50	10	N	70	N	200	1,500	N	700	20
NCB2591	50	50	N	<50	30	N	70	N	100	1,500	N	2,000	60
NCBFMA1	300	100	N	200	30	N	20	N	150	150	N	500	55
NCBFMC1	20,000	100	N	50	50	200	10	N	50	100	5,000	500	1,500
NCB2012	50	700	N	<50	10	100	50	N	150	500	N	>2,000	20
NCB2022	20	200	N	<50	10	50	50	N	50	200	N	>2,000	10
NCB2042	<10	200	N	N	10	N	10	N	70	100	N	>2,000	10
NCB2142	<10	150	N	N	10	50	10	N	70	500	N	>2,000	10
NCB2162	50	300	N	<50	10	150	50	200	100	500	N	>2,000	15
NCB2202	10	2,000	N	50	10	70	70	200	70	1,500	N	>2,000	10
NCB2222	50	500	N	<50	10	70	70	200	70	1,000	N	>2,000	10
NCB2262	10	200	N	N	10	20	10	N	100	50	N	>2,000	35
NCB2382	10	50	N	N	10	30	70	N	50	300	N	>2,000	15
NCB2392	10	150	N	N	10	50	70	200	100	300	N	>2,000	10
NCB2402	10	200	N	N	10	20	10	N	70	300	N	>2,000	20
NCB2562	15	200	N	50	10	150	50	200	100	200	N	>2,000	15
NCB2592	15	150	N	N	10	30	70	N	50	1,000	N	>2,000	--
NCBFMA2	1,000	200	N	50	10	20	70	N	500	200	N	>2,000	80
NCBFMC2	>50,000	300	N	50	10	70	20	N	100	200	N	>2,000	920

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD SOIL SAMPLES

Sample	X coordinate	Y coordinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
NCB006	227,950	3,909,120	1.5	.20	.05	.50	1,000	50	500	1.5	N	50
NCB009	228,880	3,908,590	1.5	.50	.05	.50	700	70	500	1.5	15	70
NCB011	229,870	3,908,140	1.0	.20	.07	.50	500	20	700	1.5	<5	20
NCB015	229,980	3,908,790	1.0	.20	.05	.30	300	50	300	1.5	N	20
NCB017	229,710	3,908,810	2.0	.70	.05	.50	700	70	500	2.0	10	70
NCB018	229,060	3,908,820	1.5	.50	.20	.50	700	50	700	2.0	10	50
NCB019	228,900	3,909,000	1.5	.70	<.05	.50	1,500	70	500	2.0	15	100
NCB021	227,900	3,909,940	2.0	.70	.10	.70	1,500	70	500	2.0	15	100
NCB034	229,030	3,907,390	1.5	.50	.07	.50	700	50	500	2.0	<5	70
NCB039	229,540	3,907,090	1.0	.10	<.05	.30	100	30	300	1.0	N	30
NCB047	772,000	3,905,300	1.5	.70	.10	.50	150	50	500	1.5	5	50
NCB048	771,970	3,905,900	2.0	.50	.05	.70	700	100	700	2.0	10	70
NCB051	772,480	3,906,430	2.0	.50	.05	.50	150	70	700	2.0	10	100
NCB067	771,300	3,907,860	1.5	.50	.07	.70	500	70	500	1.0	10	100
NCB069	770,380	3,908,940	1.5	.30	<.05	.50	700	70	500	1.0	5	100
NCB074	232,960	3,905,260	.7	.10	<.05	.20	150	50	300	2.0	N	50
NCB076	233,440	3,905,420	1.0	.05	<.05	.70	500	30	300	<1.0	N	70
NCB078	233,440	3,905,680	.7	.10	<.05	.30	150	30	500	1.5	7	50
NCB079	233,420	3,905,600	1.0	.30	<.05	.50	300	70	700	2.0	7	70
NCB089	232,080	3,907,600	.7	.05	<.05	.30	100	70	200	1.0	N	50
NCB090	232,440	3,906,730	2.0	.30	<.05	.50	150	150	1,000	2.0	15	100
NCB102	770,680	3,910,070	2.0	.50	<.05	.50	500	100	700	2.0	N	100
NCB103	770,830	3,910,330	2.0	.50	.10	.70	700	150	500	2.0	N	70
NCB104	771,120	3,910,500	3.0	.50	.07	.70	500	150	700	2.0	N	100
NCB105	771,400	3,910,670	2.0	.50	.07	.50	500	70	200	2.0	<5	70
NCB106	771,820	3,910,640	1.0	.20	.07	.50	500	70	300	2.0	N	50
NCB107	227,310	3,910,020	2.0	.50	.05	.50	700	50	1,000	2.0	5	100
NCB110	772,070	3,909,500	1.5	.30	.05	.50	300	50	500	2.0	5	70
NCB115	770,650	3,909,630	1.5	.50	.10	.50	1,000	70	500	2.0	7	70
NCB121	229,700	3,906,390	2.0	.50	<.05	.50	1,000	100	500	2.0	50	100
NCB122	229,590	3,906,720	2.0	.30	<.05	.50	500	100	500	2.0	15	70
NCB123	229,510	3,906,780	1.5	.30	.05	.50	1,000	70	500	2.0	10	70
NCB124	229,350	3,907,010	2.0	.70	.10	.70	1,500	50	500	2.0	15	100
NCB125	229,230	3,907,240	2.0	.70	<.05	.50	1,000	150	700	3.0	15	100
NCB126	229,220	3,907,440	1.5	.30	.05	.50	300	50	500	1.5	<5	70
NCB130	229,510	3,907,770	2.0	1.00	<.05	.70	500	50	1,000	1.5	15	100
NCB135	228,820	3,904,130	2.0	.70	.05	.70	1,000	150	500	1.5	15	70
NCB137	229,960	3,904,110	1.0	.07	<.05	.20	100	70	300	2.0	N	20
NCB138	230,420	3,904,190	1.5	.20	<.05	.50	300	70	300	1.5	5	50
NCB147	772,360	3,908,890	1.5	.30	.07	.30	300	70	300	1.5	<5	70
NCB149	772,450	3,908,750	1.5	.15	<.05	.50	150	70	300	1.0	N	30
NCB155	227,770	3,907,770	1.0	.05	<.05	.30	150	50	300	1.5	N	<10
NCB156	228,320	3,907,860	1.0	.15	.05	.50	200	70	500	1.5	N	50
NCB157	228,640	3,908,460	1.5	.30	.05	.50	300	100	500	2.0	15	70
NCB159	231,150	3,904,650	1.5	.30	.05	.70	300	100	300	1.5	10	50

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD SOIL SAMPLES

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Zn-ppm aa
NCB006	15	N	N	N	15	20	7	N	70	15	N	200	95
NCB009	30	N	5	N	20	30	10	N	100	20	N	300	140
NCB011	10	N	N	N	10	<10	7	N	70	20	N	200	65
NCB015	15	N	N	N	10	<10	5	N	70	10	N	150	70
NCB017	20	N	N	N	15	20	10	N	100	20	N	500	85
NCB018	20	N	N	N	10	15	10	200	70	20	N	300	65
NCB019	30	50	N	N	10	50	15	N	100	30	N	700	110
NCB021	50	N	5	N	15	50	10	<100	100	20	N	500	100
NCB034	30	N	<5	N	15	50	10	<100	100	20	N	100	85
NCB039	7	N	<5	N	10	20	5	N	70	10	N	150	35
NCB047	20	N	N	N	15	15	10	N	70	20	N	150	120
NCB048	30	50	N	N	15	50	10	<100	70	20	N	300	100
NCB051	30	N	<5	N	20	50	15	<100	100	20	N	200	60
NCB067	20	N	7	N	20	50	10	<100	100	20	N	500	60
NCB069	20	N	N	N	10	30	10	N	100	15	N	300	70
NCB074	20	50	N	N	7	10	10	N	50	20	N	200	70
NCB076	10	N	<5	N	10	30	10	N	70	20	N	500	10
NCB078	15	N	N	N	15	15	10	N	70	20	N	200	80
NCB079	20	30	N	N	20	20	15	N	100	30	N	300	140
NCB089	15	N	N	N	10	10	7	N	50	10	N	200	25
NCB090	50	30	N	N	20	50	20	100	100	15	N	200	20
NCB102	50	N	7	<20	10	50	20	N	150	30	N	500	40
NCB103	20	N	10	N	20	20	15	<100	150	30	N	500	40
NCB104	20	N	N	<20	5	50	20	N	100	50	N	500	30
NCB105	20	N	5	N	20	10	10	N	100	15	N	200	85
NCB106	20	N	N	N	5	10	10	N	100	10	N	200	45
NCB107	30	N	5	N	10	70	15	N	150	10	N	300	40
NCB110	20	N	7	N	15	20	10	N	150	10	N	300	50
NCB115	30	N	N	N	15	20	10	N	100	15	N	200	100
NCB121	70	N	7	N	30	100	15	N	100	20	N	300	70
NCB122	50	30	5	N	30	30	20	N	100	20	N	200	65
NCB123	20	N	10	N	20	30	15	N	100	20	N	300	80
NCB124	20	N	N	N	20	100	15	<100	100	30	N	500	100
NCB125	50	70	<5	N	20	50	20	N	100	50	N	300	110
NCB126	20	N	N	N	15	20	10	N	100	20	N	300	70
NCB130	30	50	N	N	20	70	20	N	100	50	N	500	85
NCB135	30	30	10	N	20	100	20	N	100	30	N	700	95
NCB137	15	N	5	N	10	<10	7	N	50	10	N	100	45
NCB138	20	N	10	N	15	20	10	N	50	20	N	500	85
NCB147	20	N	10	N	10	30	10	N	70	15	N	300	75
NCB149	15	N	5	N	10	15	7	N	100	10	N	1,000	50
NCB155	10	N	N	N	7	20	10	N	100	10	N	300	40
NCB156	15	N	N	N	5	15	5	N	100	15	N	200	55
NCB157	30	30	<5	N	15	20	15	N	100	20	N	300	100
NCB159	20	N	N	N	20	20	10	N	100	30	N	200	125

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD SOIL SAMPLES--continued

Sample	X coordinate	Y coordinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
NCB160	231,810	3,904,970	1.5	.20	<.05	.70	500	100	500	1.5	10	50
NCB161	232,220	3,904,920	1.0	.20	<.05	.50	100	70	500	1.5	15	30
NCB162	232,650	3,905,320	1.0	.30	.05	.50	300	70	500	2.0	7	30
NCB163	232,590	3,905,480	1.5	.10	<.05	.50	200	100	500	1.5	N	30
NCB164	232,210	3,905,690	2.0	.50	.05	.50	200	100	700	2.0	10	30
NCB165	232,150	3,905,790	2.0	1.00	<.05	.70	500	100	1,000	2.0	15	100
NCB167	230,160	3,907,460	2.0	.70	.05	.50	500	100	1,000	2.0	10	100
NCB169	230,370	3,906,520	2.0	.30	<.05	.50	300	100	500	2.0	10	100
NCB170	230,340	3,906,630	2.0	.70	.05	.50	700	100	1,500	2.0	15	150
NCB171	230,280	3,907,000	.7	.10	.05	.20	200	50	300	1.0	10	50
NCB173	231,380	3,906,710	1.0	.30	<.05	.30	300	100	700	2.0	10	70
NCB174	231,680	3,906,200	2.0	.50	<.05	.50	200	150	700	2.0	15	100
NCB207	772,130	3,910,560	1.0	.20	.07	.30	500	20	500	1.5	N	50
NCB209	771,870	3,909,210	1.0	.30	<.05	.30	500	15	500	2.0	<5	50
NCB212	771,490	3,908,970	1.0	.10	.05	.30	200	70	500	1.5	N	50
NCB229	228,990	3,906,320	1.0	.10	<.05	.50	300	15	500	1.5	<5	50
NCB230	772,930	3,904,690	1.5	.50	.10	.50	1,000	50	700	1.5	10	100
NCB231	227,070	3,905,070	1.5	.20	<.05	.30	200	50	500	1.5	N	100
NCB232	227,430	3,905,200	1.0	.15	.07	.50	500	30	500	1.5	<5	50
NCB233	227,730	3,905,440	1.0	.10	.07	.30	500	15	300	1.5	N	20
NCB234	228,140	3,905,420	2.0	.20	<.05	.50	300	100	500	1.5	10	70
NCB237	228,510	3,905,470	1.5	.30	<.05	.50	500	30	1,000	2.0	N	70
NCB241	227,990	3,909,170	1.0	.10	.10	.50	300	50	300	1.5	N	20
NCB243	227,700	3,908,770	.7	.10	.10	.30	70	30	200	1.0	N	<10
NCB245	227,550	3,908,330	1.0	.10	<.05	.50	200	30	300	1.5	<5	50
NCB246	227,540	3,908,070	.7	.07	.07	.20	100	15	300	1.5	N	<10
NCB247	227,440	3,907,850	1.0	.20	<.05	.50	150	20	500	1.5	N	50
NCB252	227,990	3,907,860	1.0	.20	.07	.30	300	30	500	2.0	5	50
NCB253	228,420	3,908,130	1.0	.20	.05	.50	300	50	500	1.5	N	70
NCB302	227,360	3,904,050	1.5	.50	.20	.50	700	50	500	1.5	5	70
NCB323	230,490	3,904,510	2.0	.50	<.05	.70	500	150	700	1.5	15	100
NCB324	232,520	3,904,930	1.5	.50	<.05	.30	150	100	700	2.0	15	100
NCB325	233,210	3,905,410	1.5	.30	<.05	.70	300	50	500	1.0	10	70
NCB403	772,760	3,904,360	2.0	.20	.10	.50	1,000	100	500	1.5	7	50
NCB404	772,730	3,904,760	1.5	.20	.05	.70	500	20	700	1.0	5	70
NCB405	772,380	3,905,000	.7	.10	<.05	.15	100	50	300	2.0	N	20
NCB406	771,920	3,905,540	1.0	.20	.05	.20	300	30	500	1.5	<5	50
NCB407	771,980	3,905,800	2.0	.50	.07	.30	500	50	700	2.0	15	50
NCB408	771,890	3,906,090	1.0	.20	<.05	.20	100	50	500	2.0	N	30
NCB409	771,980	3,906,430	1.0	.20	<.05	.20	500	30	300	1.5	N	30
NCB410	771,940	3,906,720	.7	.05	.05	.10	150	30	200	1.5	N	<10
NCB411	771,980	3,907,280	1.0	.10	<.05	.20	300	20	300	1.5	N	<10
NCB412	233,380	3,906,540	1.0	.10	<.05	.20	100	30	500	2.0	5	30
NCB416	771,660	3,907,410	1.5	.30	.07	.30	500	70	500	2.0	7	50
NCB417	771,430	3,907,710	1.5	.50	.10	.30	500	20	300	1.5	5	20

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD SOIL SAMPLES--continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Zn-ppm aa
NCB160	20	N	N	N	20	20	10	N	100	20	N	200	80
NCB161	15	N	N	N	20	20	10	N	70	15	N	100	85
NCB162	30	N	<5	N	20	30	10	N	100	20	N	300	90
NCB163	20	N	<5	N	20	20	10	N	100	15	N	300	40
NCB164	20	30	N	N	20	30	10	N	100	20	<200	200	125
NCB165	50	50	N	N	30	50	15	N	100	30	<200	300	125
NCB167	30	50	N	N	20	30	10	N	100	30	N	300	110
NCB169	30	30	N	N	20	20	15	N	100	30	N	500	110
NCB170	50	20	N	N	20	30	15	N	100	30	<200	300	125
NCB171	7	N	10	N	15	20	7	N	50	10	N	200	95
NCB173	20	20	7	N	15	30	10	N	70	10	N	150	55
NCB174	30	20	5	N	20	30	15	N	100	20	<200	300	200
NCB207	7	20	N	N	10	20	7	N	70	10	N	150	40
NCB209	30	20	5	N	15	30	10	N	70	20	N	200	130
NCB212	10	N	<5	N	10	30	7	N	70	10	N	200	40
NCB229	10	N	N	N	<5	15	7	N	100	20	N	300	55
NCB230	20	N	<5	N	10	100	10	N	100	15	N	500	65
NCB231	30	N	<5	N	5	100	15	N	100	20	N	200	20
NCB232	10	N	N	N	<5	20	7	N	100	10	N	500	55
NCB233	10	N	5	N	5	20	5	N	100	15	N	200	60
NCB234	30	30	N	N	7	70	10	N	100	15	N	200	60
NCB237	20	30	N	N	7	50	10	N	100	20	N	300	55
NCB241	15	N	N	N	<5	100	7	N	100	20	N	700	35
NCB243	10	N	N	N	N	70	5	N	70	<10	N	200	25
NCB245	15	N	N	N	7	30	7	N	100	10	N	200	55
NCB246	15	N	5	N	<5	50	5	N	50	<10	N	100	25
NCB247	10	N	N	N	5	20	7	N	70	<10	N	500	45
NCB252	20	20	N	N	7	30	7	N	70	15	N	200	110
NCB253	20	N	N	N	7	20	7	N	100	20	N	200	60
NCB302	20	N	N	N	10	70	10	200	100	20	<200	200	90
NCB323	50	30	N	N	15	70	20	N	100	30	N	300	100
NCB324	50	50	N	N	10	100	20	200	100	20	N	200	80
NCB325	30	20	<5	N	10	50	15	N	100	50	N	500	100
NCB403	30	N	7	N	10	100	10	N	100	20	N	300	85
NCB404	20	N	<5	N	7	70	10	N	100	15	N	500	60
NCB405	20	N	N	N	5	15	7	N	50	<10	N	70	40
NCB406	15	N	N	N	15	20	7	N	70	15	N	200	80
NCB407	30	20	N	N	10	30	10	N	70	20	N	200	95
NCB408	20	N	N	N	<5	20	5	N	50	<10	N	100	65
NCB409	20	20	N	N	5	10	7	N	70	10	N	300	95
NCB410	10	N	N	N	5	15	<5	N	50	N	N	300	50
NCB411	20	N	N	N	N	20	5	N	50	N	N	150	60
NCB412	20	30	N	N	15	20	10	N	50	15	N	70	65
NCB416	15	N	5	N	10	20	10	N	100	15	N	300	90
NCB417	7	N	N	N	10	20	7	150	70	20	N	500	80

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD SOIL SAMPLES--continued

Sample	X coordinate	Y coordinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
NCB418	771,080	3,907,900	1.0	.10	.10	.20	700	10	200	1.5	N	N
NCB420	771,040	3,908,140	.7	.07	<.05	.20	300	30	300	1.5	N	N
NCB421	770,930	3,908,380	1.0	.10	<.05	.20	300	15	300	1.5	N	N
NCB422	770,800	3,908,620	2.0	.30	.05	.50	700	50	500	2.0	10	70
NCB423	770,530	3,908,850	1.5	.15	<.05	.50	500	50	500	1.5	<5	30
NCB424	230,240	3,904,070	2.0	1.00	.10	.70	500	50	700	2.0	20	100
NCB425	230,510	3,904,080	1.0	.30	<.05	.10	30	70	500	2.0	7	30
NCB426	230,920	3,904,420	1.5	.20	<.05	.10	200	50	300	1.0	N	30
NCB427	231,310	3,904,910	1.5	.20	<.05	.50	150	50	500	2.0	15	50
NCB428	231,470	3,904,950	1.0	.20	<.05	.50	100	70	500	2.0	10	30
NCB429	231,460	3,905,550	1.0	.15	.05	.30	200	20	300	1.0	N	20
NCB430	231,320	3,905,700	1.0	.20	.05	.30	150	50	300	1.5	N	<10
NCB431	231,220	3,905,750	1.5	.10	<.05	.30	70	70	500	2.0	N	20
NCB433	230,420	3,907,780	1.5	.30	.07	.30	500	50	300	1.5	10	30
NCB434	230,600	3,907,510	1.5	.30	.07	.30	300	50	500	2.0	5	50
NCB435	231,060	3,907,720	2.0	.30	<.05	.50	300	100	700	1.5	7	50
NCB436	231,680	3,907,610	1.0	.20	<.05	.30	70	50	300	2.0	5	20
NCB437	231,790	3,907,140	2.0	.20	.05	.30	200	70	300	1.5	N	20
NCB438	231,840	3,907,040	2.0	.10	<.05	.30	150	70	200	1.0	<5	20
NCB439	231,710	3,907,350	1.0	.07	<.05	.30	200	50	300	2.0	5	15
NCB440	231,840	3,907,700	1.0	.15	.05	.30	300	50	300	1.0	5	20
NCB441	232,040	3,907,690	2.0	.30	<.05	.70	300	50	500	2.0	5	50
NCB442	232,170	3,907,400	1.5	.15	<.05	.50	100	50	500	<1.0	N	30
NCB443	232,310	3,906,790	2.0	.20	<.05	.50	150	70	500	1.0	N	50
NCB445	232,580	3,906,450	2.0	1.00	<.05	.50	500	70	500	2.0	15	50
NCB128	228,910	3,907,950	5.0	.70	.05	1.00	500	30	700	1.5	15	70

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD SOIL SAMPLES--continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Zn-ppm aa
NCB418	20	N	<5	N	7	20	5	N	50	10	N	150	75
NCB420	7	N	N	N	5	10	<5	N	70	10	N	500	65
NCB421	10	N	N	N	5	10	5	N	50	<10	N	300	60
NCB422	20	50	N	N	15	20	10	N	100	20	N	500	80
NCB423	20	30	<5	N	10	20	7	N	100	10	N	200	65
NCB424	50	50	N	<20	30	30	15	N	100	30	<200	300	90
NCB425	15	50	N	N	10	20	10	N	70	10	N	70	65
NCB426	20	N	<5	N	7	20	7	N	50	15	N	300	60
NCB427	30	50	N	N	15	20	10	N	100	20	N	300	95
NCB428	30	N	N	N	15	20	10	N	100	15	N	200	85
NCB429	15	N	N	N	10	30	5	N	50	10	N	200	60
NCB430	20	N	N	N	10	15	7	N	70	20	N	200	80
NCB431	15	50	N	N	10	20	7	N	70	<10	N	300	35
NCB433	20	30	N	N	15	15	7	N	70	20	N	300	90
NCB434	20	30	N	N	15	15	10	N	100	30	N	200	90
NCB435	30	30	7	N	20	20	10	N	100	30	N	300	70
NCB436	20	30	N	N	15	10	7	N	70	15	N	200	95
NCB437	20	N	N	N	15	10	10	N	70	10	N	200	80
NCB438	20	20	N	N	15	15	7	N	50	15	N	300	80
NCB439	30	20	N	N	5	15	5	N	50	10	N	70	55
NCB440	20	N	N	N	10	10	7	N	70	10	N	100	70
NCB441	30	N	N	N	10	15	10	N	100	30	N	200	100
NCB442	10	N	N	N	5	10	5	N	100	15	N	500	40
NCB443	20	20	N	N	7	10	7	N	100	20	N	300	60
NCB445	20	30	N	N	20	15	10	N	100	30	N	200	150
NCB128	20	30	N	N	20	20	10	N	100	20	N	300	100

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD ROCK SAMPLES

Sample	X coordinate	Y coordinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
NCB001	232,700	3,906,150	2.00	1.00	.15	.300	2,000	50	1,000	2.0	20	70
NCB002	227,800	3,910,820	2.00	1.00	.20	1.000	1,500	100	1,500	1.5	10	100
NCB003	227,680	3,911,060	1.50	.70	.20	.500	500	50	1,000	2.0	7	50
NCB004	770,890	3,910,340	2.00	1.00	.20	.500	1,000	100	700	2.0	N	70
NCB005	771,850	3,910,710	1.50	.70	1.00	.500	2,000	100	300	2.0	15	50
NCB007	228,600	3,909,380	2.00	1.00	.15	.700	1,500	150	1,000	2.0	10	100
NCB008	228,670	3,909,250	1.50	.70	.20	.500	500	70	500	2.0	10	50
NCB010	229,320	3,908,720	2.00	.70	.30	.500	1,000	15	1,000	2.0	15	100
NCB012	230,130	3,908,340	.30	.05	.05	.100	70	N	500	N	N	N
NCB013	230,130	3,908,400	1.50	1.00	.15	.500	1,500	70	1,500	2.0	15	70
NCB014	230,310	3,908,800	2.00	.70	.30	.700	1,000	20	1,000	2.0	15	100
NCB016	229,830	3,908,810	3.00	.70	<.05	.700	1,000	100	1,500	2.0	15	100
NCB020	228,860	3,909,090	1.00	1.00	.15	.500	2,000	30	1,500	2.0	15	100
NCB022	230,620	3,905,160	1.50	.70	.30	.500	500	20	700	1.5	15	70
NCB023	230,170	3,905,120	2.00	1.00	.05	.500	1,500	50	1,000	2.0	30	100
NCB024	229,970	3,905,270	1.50	.70	.70	.500	1,000	30	700	2.0	15	50
NCB030	229,390	3,905,200	2.00	1.00	.15	.300	300	50	700	2.0	15	50
NCB031	229,730	3,906,490	2.00	1.00	.20	.500	1,000	50	1,000	2.0	15	100
NCB032	229,490	3,906,800	2.00	1.00	.20	.500	1,000	100	1,000	2.0	10	100
NCB033	229,180	3,907,250	2.00	1.00	.50	.500	1,000	50	1,000	2.0	20	100
NCB037	229,340	3,907,960	2.00	1.00	.20	.500	1,500	70	1,000	2.0	15	50
NCB038	229,340	3,907,960	1.50	.70	.15	.500	1,000	50	1,000	3.0	5	70
NCB040	232,000	3,905,480	2.00	.30	.20	.500	500	50	1,500	2.0	15	100
NCB041	230,890	3,904,960	<.05	<.02	<.05	.005	N	N	100	N	N	N
NCB043	772,700	3,904,800	1.00	.70	.20	.500	300	20	500	1.0	5	30
NCB044	772,740	3,904,890	3.00	1.00	.10	1.000	2,000	150	1,000	1.5	15	150
NCB045	772,540	3,905,000	1.50	1.00	<.05	.500	700	150	1,000	3.0	5	100
NCB046	772,280	3,905,130	<.05	<.02	<.05	.007	N	N	70	N	N	N
NCB049	771,920	3,905,970	1.50	.70	1.50	.500	1,000	70	1,000	1.5	7	100
NCB050	772,140	3,906,390	1.50	.70	2.00	.500	1,500	20	1,000	1.5	10	30
NCB052	771,960	3,906,580	<.05	<.02	<.05	.003	N	N	100	N	N	N
NCB053	771,930	3,906,830	1.50	1.00	.20	.500	700	20	700	1.5	15	50
NCB054	771,930	3,906,830	.05	<.02	<.05	.070	<10	N	100	N	N	N
NCB055	231,530	3,905,730	1.50	.70	2.00	.500	1,500	70	700	2.0	15	70
NCB056	230,240	3,905,810	3.00	.70	.15	.500	1,500	70	1,000	2.0	15	100
NCB057	230,260	3,906,190	2.00	1.00	.15	.500	700	50	1,000	2.0	10	70
NCB058	230,090	3,906,410	1.50	1.00	.10	.500	3,000	70	1,000	2.0	70	100
NCB059	230,040	3,906,420	2.00	1.00	.15	.700	2,000	200	1,500	2.0	15	150
NCB060	228,590	3,906,130	2.00	.70	.30	.500	1,000	20	700	2.0	15	70
NCB062	233,400	3,906,350	1.00	.50	7.00	.500	2,000	N	50	2.0	10	50
NCB063	771,960	3,907,310	2.00	.70	.15	.500	2,000	50	1,000	2.0	5	100
NCB064	771,770	3,907,280	2.00	.70	.50	.500	1,000	50	500	2.0	15	70
NCB065	771,430	3,907,490	2.00	.70	.15	.500	1,000	50	1,000	2.0	15	70
NCB066	771,360	3,907,540	1.50	1.00	.50	.500	500	30	500	1.5	15	50
NCB068	771,020	3,908,060	2.00	.70	.50	.500	1,000	50	700	2.0	20	100

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD ROCK SAMPLES

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Zn-ppm aa	U-INST
NCB001	30	30	N	N	15	100	20	100	100	50	<200	100	80	.90
NCB002	30	100	N	N	5	50	20	100	100	70	N	500	75	2.50
NCB003	30	N	<5	N	5	20	10	300	100	20	N	300	30	.90
NCB004	20	20	N	N	5	30	15	100	100	20	N	200	65	1.50
NCB005	30	N	N	N	20	30	10	200	70	30	N	300	65	.90
NCB007	30	30	N	<20	7	70	20	<100	100	30	<200	300	65	2.00
NCB008	7	N	N	N	10	20	10	200	100	20	N	200	45	.70
NCB010	15	N	N	N	15	30	15	200	100	20	N	500	45	1.50
NCB012	N	N	N	N	<5	N	N	N	<10	N	N	N	N	.10
NCB013	15	20	N	N	7	15	20	150	70	20	<200	150	80	1.50
NCB014	20	50	N	20	20	30	10	300	100	50	N	700	55	1.00
NCB016	50	50	N	N	15	20	30	N	100	50	<200	200	75	3.00
NCB020	50	N	N	N	15	15	20	N	100	50	<200	70	55	2.50
NCB022	<5	20	N	N	10	30	7	300	70	20	N	500	40	.65
NCB023	50	20	N	N	30	70	20	100	100	50	200	100	90	2.00
NCB024	<5	50	N	N	15	20	10	300	70	30	N	500	35	.95
NCB030	50	20	N	N	20	50	15	100	100	30	200	100	65	.90
NCB031	10	N	N	N	20	50	15	300	100	20	N	500	50	.80
NCB032	30	50	N	N	7	50	20	<100	100	30	<200	200	90	1.00
NCB033	20	N	N	N	20	20	15	300	100	30	N	500	50	.95
NCB037	30	30	N	N	7	50	20	100	100	20	N	300	80	1.00
NCB038	50	N	N	N	<5	30	15	200	70	10	<200	200	50	2.00
NCB040	20	N	N	N	20	30	15	150	100	20	N	500	40	1.00
NCB041	N	N	N	N	N	N	N	N	N	N	N	N	N	.05
NCB043	<5	N	N	N	5	20	5	200	50	20	N	700	25	.85
NCB044	15	70	N	<20	10	20	30	N	100	70	200	500	85	1.50
NCB045	50	50	N	N	<5	30	20	150	100	30	<200	200	45	3.00
NCB046	N	N	N	N	N	N	N	N	N	N	N	N	N	<.05
NCB049	30	100	N	N	5	30	20	100	100	100	N	200	55	2.00
NCB050	30	50	N	N	10	30	15	300	100	50	N	500	35	.90
NCB052	N	N	N	N	N	N	N	N	N	N	N	N	N	N
NCB053	<5	N	N	N	20	30	10	150	100	20	N	300	50	.85
NCB054	N	N	N	N	N	N	N	N	N	N	N	N	N	<.05
NCB055	10	50	N	N	20	20	10	200	100	50	N	500	35	.85
NCB056	30	50	N	N	15	30	20	<100	100	50	<200	150	85	2.00
NCB057	50	30	N	N	20	20	15	<100	70	30	200	150	35	1.50
NCB058	100	50	N	N	50	50	20	N	100	50	200	100	75	2.00
NCB059	20	20	N	N	15	50	20	200	100	50	<200	300	65	1.00
NCB060	20	30	N	N	20	30	10	200	100	20	N	500	40	.80
NCB062	<5	N	5	N	7	<10	7	500	50	50	N	300	5	.50
NCB063	30	20	N	N	5	150	20	100	100	20	N	150	55	.70
NCB064	15	N	N	<20	15	30	10	200	70	30	N	700	45	1.50
NCB065	50	N	N	<20	20	100	20	N	100	30	N	300	55	2.00
NCB066	5	N	N	N	10	10	7	300	70	20	N	200	35	.60
NCB068	15	N	N	N	15	50	15	200	100	20	N	300	55	.70

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD ROCK SAMPLES--continued

Sample	X coordinate	Y coordinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
NCB070	770,240	3,909,080	3.00	1.00	<.05	.700	1,500	50	1,000	2.0	15	100
NCB071	230,460	3,904,150	2.00	.70	7.00	.500	2,000	N	70	3.0	15	100
NCB072	230,680	3,904,450	1.50	.70	.50	.500	1,500	70	1,000	1.5	15	100
NCB073	231,180	3,904,620	3.00	1.00	.05	.700	1,000	70	1,000	1.5	15	100
NCB075	233,300	3,905,410	2.00	1.00	.07	.700	700	100	1,000	1.5	15	100
NCB077	233,410	3,905,590	1.50	.70	.50	.500	500	10	500	1.5	15	50
NCB080	228,020	3,909,500	2.00	1.00	.50	.500	1,000	30	700	2.0	20	100
NCB081	229,760	3,908,900	2.00	.70	2.00	.500	1,500	15	100	2.0	15	50
NCB082	230,200	3,908,030	2.00	1.00	.05	.700	1,000	100	1,000	2.0	10	100
NCB083	230,500	3,907,690	2.00	1.00	.50	.500	1,000	70	1,500	2.0	20	100
NCB084	230,840	3,907,540	2.00	1.00	.20	.500	1,500	100	1,000	3.0	10	100
NCB085	231,580	3,907,610	2.00	.70	.50	.700	1,000	50	1,000	1.5	15	70
NCB086	231,790	3,907,100	3.00	1.00	.20	.500	1,000	200	1,000	2.0	15	100
NCB087	231,770	3,907,170	2.00	.50	.30	.500	500	50	700	2.0	10	50
NCB088	231,710	3,907,350	2.00	.50	<.05	.700	700	100	700	2.0	15	100
NCB108	772,630	3,909,610	2.00	.70	.50	.500	500	50	1,000	2.0	10	70
NCB109	772,220	3,909,710	2.00	1.00	.15	.700	5,000	30	1,000	3.0	15	100
NCB112	771,490	3,909,250	5.00	.70	.70	.700	1,000	50	1,000	2.0	15	70
NCB116	229,270	3,905,290	2.00	.70	3.00	.500	2,000	10	100	2.0	15	70
NCB117	228,520	3,904,940	5.00	1.00	1.00	.500	1,000	100	1,500	2.0	20	100
NCB131	227,760	3,907,000	3.00	1.00	1.00	.500	1,000	70	700	2.0	15	100
NCB133	772,980	3,904,220	2.00	1.00	.10	.700	2,000	100	700	2.0	15	100
NCB134	227,040	3,904,190	1.50	.50	.10	.500	200	20	1,000	1.0	<5	20
NCB136	229,260	3,904,050	2.00	.70	.30	.500	500	150	1,000	2.0	15	70
NCB139	231,530	3,905,730	1.00	.50	2.00	.070	1,000	20	100	1.5	10	<10
NCB140	230,440	3,905,750	2.00	1.00	.07	.500	700	100	700	2.0	10	70
NCB141	230,460	3,905,740	5.00	1.00	1.00	1.000	2,000	50	500	2.0	20	100
NCB142	230,190	3,906,200	1.50	.30	.70	.500	500	15	500	1.5	7	<10
NCB144	228,430	3,906,400	2.00	.70	.20	.700	700	70	1,000	1.5	15	100
NCB145	772,740	3,909,960	2.00	1.00	.20	1.000	2,000	50	1,000	1.5	10	150
NCB146	772,360	3,909,280	2.00	1.00	.20	.700	1,500	200	1,000	1.5	15	70
NCB148	772,400	3,908,760	3.00	1.00	1.00	1.000	1,000	70	1,500	2.0	15	100
NCB151	772,130	3,908,500	3.00	1.00	1.00	.700	1,000	50	1,000	1.5	20	100
NCB158	230,510	3,904,080	1.50	1.00	.05	.500	1,000	100	1,000	3.0	15	100
NCB168	230,340	3,906,810	2.00	1.00	.70	1.000	1,000	50	1,500	2.0	20	100
NCB172	231,120	3,906,920	2.00	.70	.20	1.000	1,500	100	700	1.5	7	100
NCB175	230,460	3,905,740	1.50	.70	5.00	.500	2,000	30	100	2.0	15	70
NCB205	227,580	3,910,080	2.00	1.00	.20	.500	2,000	150	1,000	2.0	10	100
NCB206	227,680	3,910,800	1.50	1.00	.07	.500	200	30	1,500	1.5	<5	100
NCB211	771,450	3,909,230	1.50	.70	.05	.700	1,500	70	1,000	3.0	N	70
NCB213	770,800	3,908,990	2.00	1.00	.05	.700	500	70	2,000	1.5	15	100
NCB228	228,000	3,906,640	2.00	1.00	1.00	.700	1,000	70	1,000	1.5	20	100
NCB235	228,100	3,905,410	2.00	.70	3.00	.500	2,000	10	20	2.0	15	70
NCB236	228,230	3,905,440	2.00	1.00	.20	.500	500	100	1,000	1.5	15	100
NCB242	227,750	3,908,980	2.00	1.00	1.00	1.000	1,000	50	1,000	1.5	10	50

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD ROCK SAMPLES--continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Zn-ppm aa	U-INST
NCB070	100	30	5	<20	10	100	20	N	100	50	<200	300	70	3.50
NCB071	10	200	5	N	30	<10	20	500	100	100	N	300	10	2.00
NCB072	10	50	N	N	15	30	10	300	100	50	N	300	30	.80
NCB073	30	70	N	<20	15	50	20	<100	100	70	<200	200	65	1.50
NCB075	50	70	N	<20	15	30	20	100	100	50	<200	200	65	1.50
NCB077	<5	20	N	<20	10	20	7	200	100	30	N	500	30	.65
NCB080	<5	50	N	N	20	50	15	200	100	50	N	700	55	.55
NCB081	10	50	N	N	20	20	10	300	100	50	N	500	20	.90
NCB082	30	70	<5	N	7	100	30	N	100	70	N	200	75	1.00
NCB083	30	20	N	N	20	20	20	200	100	30	N	500	65	2.00
NCB084	30	50	N	N	7	50	20	<100	100	70	300	200	50	3.00
NCB085	20	N	N	N	20	30	10	300	100	50	N	500	35	.75
NCB086	50	50	N	<20	20	100	30	150	100	50	200	300	75	2.00
NCB087	<5	N	N	N	5	15	10	200	70	20	N	1,000	35	.85
NCB088	50	N	N	N	5	100	30	N	100	15	<200	200	15	3.00
NCB108	10	50	N	N	5	30	15	300	100	30	N	700	35	1.50
NCB109	20	N	N	N	10	100	20	100	100	30	<200	300	80	1.50
NCB112	15	50	N	N	15	15	15	200	100	50	N	500	55	1.50
NCB116	20	N	<5	N	30	10	10	300	70	30	N	500	15	1.50
NCB117	30	N	N	N	20	20	15	200	100	20	N	700	60	.85
NCB131	15	N	N	N	15	20	10	200	100	30	N	700	45	.70
NCB133	50	100	N	<20	20	100	30	150	70	70	200	100	50	1.50
NCB134	<5	N	N	N	7	<10	5	150	50	10	N	700	20	.45
NCB136	10	20	N	N	10	<10	15	100	100	50	N	1,000	40	.50
NCB139	<5	N	N	N	7	N	5	200	50	20	N	300	15	.50
NCB140	70	30	N	N	10	50	20	N	100	50	200	200	100	2.00
NCB141	30	30	N	N	15	30	15	150	100	50	N	700	80	1.50
NCB142	5	N	N	N	5	10	5	200	50	20	N	700	25	.60
NCB144	30	50	N	N	20	50	20	200	70	50	<200	150	60	1.00
NCB145	20	N	N	N	5	50	30	150	150	20	N	500	80	1.50
NCB146	30	N	N	N	15	70	20	200	100	20	N	500	85	1.00
NCB148	20	N	N	<20	20	50	20	200	100	50	N	700	45	.80
NCB151	7	50	N	N	30	20	15	200	100	50	N	500	50	.35
NCB158	50	100	N	<20	50	100	20	200	100	70	<200	100	40	1.50
NCB168	15	N	N	N	20	30	15	200	100	50	N	500	55	.60
NCB172	20	30	N	N	7	50	15	200	100	50	N	300	140	.80
NCB175	7	50	<5	N	30	15	15	300	100	50	N	700	15	1.00
NCB205	30	20	N	N	15	100	15	<100	100	30	N	200	100	2.00
NCB206	30	70	N	<20	5	20	20	N	70	20	N	300	25	3.50
NCB211	50	70	N	N	<5	50	20	<100	70	30	N	300	25	2.50
NCB213	50	50	N	N	15	20	30	N	100	30	N	300	35	1.50
NCB228	20	N	N	N	30	30	15	150	100	30	N	500	55	.70
NCB235	20	N	<5	N	15	<10	10	200	70	50	N	500	10	1.50
NCB236	30	20	N	<20	20	50	20	N	100	50	200	300	45	1.50
NCB242	7	N	N	N	5	15	10	200	70	30	N	700	35	.35

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD ROCK SAMPLES--continued

Sample	X coordinate	Y coordinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Co-ppm s	Cr-ppm s
NCB244	227,680	3,908,510	2.00	1.00	.50	1.000	1,000	150	1,000	2.0	20	100
NCB254	229,740	3,903,540	2.00	1.00	.05	.500	2,000	50	1,000	2.0	50	70
NCB257	230,420	3,905,030	2.00	1.00	.50	.700	1,500	100	2,000	2.0	15	100
NCB301	230,920	3,905,680	2.00	1.00	.07	.500	1,500	100	1,500	2.0	10	100
NCB303	228,190	3,904,190	3.00	1.00	.50	.700	700	100	1,000	2.0	10	100
NCB304	228,610	3,904,080	2.00	1.00	1.50	1.000	1,500	100	1,500	2.0	20	100
NCB305	230,460	3,904,150	2.00	1.00	.70	1.000	2,000	150	1,000	2.0	20	150
NCB312	233,690	3,906,660	2.00	1.00	.15	.500	1,000	200	1,000	2.0	10	100
NCB313	770,040	3,909,200	1.50	1.00	.07	.500	2,000	70	700	2.0	20	70
NCB314	770,080	3,909,230	5.00	1.00	.05	.500	2,000	150	1,000	1.5	20	100
NCB315	770,290	3,909,360	1.00	.70	.15	.500	2,000	100	1,000	2.0	N	70
NCB316	770,670	3,910,010	2.00	.70	.15	.500	>5,000	150	500	1.5	N	50
NCB317	770,760	3,910,140	1.50	1.00	.10	.700	2,000	100	1,000	2.0	N	100
NCB319	771,470	3,910,720	2.00	1.50	.15	.700	2,000	150	1,000	2.0	<5	150
NCB320	771,760	3,910,690	1.50	1.00	.10	.500	1,500	70	1,500	2.0	5	70
NCB321	772,460	3,910,590	3.00	1.50	.70	1.000	1,500	150	1,500	2.0	20	150
NCB322	772,590	3,910,600	2.00	1.00	.20	.700	700	200	1,000	2.0	N	100
NCB326	233,240	3,905,720	3.00	1.00	.10	1.000	2,000	150	1,000	2.0	20	100
NCB327	230,650	3,906,900	1.50	.70	<.05	.500	500	150	1,000	3.0	N	100
NCB328	231,010	3,907,170	<.05	<.02	<.05	<.002	<10	N	70	N	N	N
NCB413	233,380	3,906,540	2.00	1.00	.07	.500	1,500	50	1,500	2.0	20	100
NCB414	233,210	3,906,310	1.50	.70	.50	.700	500	20	700	1.5	15	50
NCB419	771,080	3,907,900	2.00	1.00	.20	.500	1,500	20	1,000	2.0	N	70
NCB432	231,220	3,905,750	1.50	.70	.05	.300	2,000	50	1,500	2.0	20	100

Table 2. --Analyses of stream-sediment, pan-concentrate, soil, and rock samples--continued

SNOWBIRD ROCK SAMPLES--continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Zn-ppm aa	U-INST
NCB244	50	30	N	<20	15	30	20	<100	100	70	N	700	55	.70
NCB254	50	100	N	<20	50	100	20	200	70	70	300	100	65	1.00
NCB257	50	30	10	<20	20	50	30	200	100	50	<200	300	55	1.00
NCB301	50	50	N	<20	15	100	20	100	100	50	<200	200	100	1.50
NCB303	30	50	5	<20	20	100	20	150	100	50	300	300	50	1.50
NCB304	20	N	N	N	15	20	20	300	100	50	N	1,000	85	.95
NCB305	30	50	N	N	20	50	20	100	100	100	N	500	90	1.50
NCB312	50	100	N	N	20	150	30	150	100	50	<200	300	100	1.50
NCB313	100	50	N	N	15	50	20	N	70	50	<200	300	55	1.50
NCB314	100	N	N	N	15	30	15	N	70	20	200	300	80	1.50
NCB315	7	30	N	N	N	50	20	200	100	30	N	500	30	1.00
NCB316	20	N	N	<20	<5	70	10	<100	100	50	N	500	20	.35
NCB317	30	50	5	N	5	50	20	100	100	50	N	200	25	1.00
NCB319	20	30	N	N	5	100	30	<100	100	50	N	500	55	2.00
NCB320	20	N	N	N	7	50	20	100	100	50	N	200	40	2.00
NCB321	30	50	N	<20	20	30	30	200	100	50	N	700	120	2.00
NCB322	30	30	N	N	5	100	20	150	100	50	N	300	75	1.00
NCB326	50	150	N	<20	20	50	20	150	100	100	300	300	65	2.00
NCB327	20	50	N	N	<5	100	20	200	100	30	N	100	10	.80
NCB328	N	N	N	N	N	N	N	N	N	N	N	N	N	N
NCB413	70	100	N	N	20	150	30	150	100	50	200	100	60	.85
NCB414	<5	30	N	N	10	20	7	300	70	30	N	700	25	1.00
NCB419	20	50	N	N	5	50	15	<100	100	30	N	200	60	1.50
NCB432	50	100	N	N	50	100	20	100	70	50	200	100	90	1.00