UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ADDITIONAL GEOCHEMICAL DATA FROM THE NABESNA C-4 AND D-5 QUADRANGLES, ALASKA

By

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Open-file report

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This report is preliminary
and has not been edited or
reviewed for conformity with
Geological Survey standards

TABLE 1

Analyses of stream sediments
Nabesna C-4 quadrangle, Alaska

Limits of determination shown in parentheses under element.

Map No.	Field No.	Concentration (ppm)									
		Ag (.5)	Au (.02)	B (10)	Cr (5)	Cu (5)	Mo (5)	Ni (5)	Pb (10)	V (10)	Zn (200)
1	71-RL-69	N	L	15	200	100	L	150	15	200	N
2	71-RL-68	N	L	L	150	70	L	50	20	300	N
3	71-RL-67	N	L	L	200	100	L	70	20	300	N
4	71-RL-66	N	L	L	200	150	L	150	20	300	N
5	71-RL-73	N	L	L	200	70	L	50	10	300	N
6	71-RL-72	N	L	L	150	150	L	30	10	500	N
7	71-RL-101	N	L	30	100	100	L	70	30	200	N
8	71-RL-100	N	L	50	200	150	L	150	50	200	N
9	71-RL-97	N	L	30	150	100	L	100	30	300	N
10	71-RL-96	N	L	L	150	70	L	50	20	500	N
11	71-RL-95	N	L	10	150	100	L	70	10	300	N
12	71-RL-98	N	L	50	100	70	L	100	20	200	N
13	71-RL-99	N	L	70	100	70	L	70	50	150	N
14	71-RL-111	N	L	20	150	150	L	100	L	300	N
15	71-RL-108	N	L	20	100	100	L	70	15	200	N
16	71-RL-109	N	L	50	150	150	L	100	15	300	N
17	71-RL-112	N	L	20	150	200	L	100	30	300	N
18	71-RL-102	N	L	15	100	70	L	70	L	200	N
19	71-RL-103	N	L	20	150	150	L	70	15	300	N
20	71-RL-104	N	L	30	200	100	L	100	50	200	N
21	71-RL-107	N	L	L	150	100	L	100	30	300	N

L = detected, but below limit of determination; N = not detected.

Gold by atomic absorption. Analysts: R.L. Miller, D.G. Murrey.

Other elements by semiquantitative spectrographic analysis. Analyst: K.J. Curry

TABLE 2

Analyses of stream sediments
Nabesna D-5 quadrangle, Alaska

Limits of determination shown in parentheses under element.

Map No.	Field No.	Concentration (ppm)									
		Ag (.5)	Au (.02)	B (10)	Cr (5)	Cu (5)	Mo (5)	Ni (5)	Pb (10)	V (10)	Zn (200)
1	71-RL-34	N	L	50	150	100	L	100	50	200	N
2	71-RL-33	N	L	10	300	150	L	150	20	200	N
3	71-RL-35	L	L	50	100	150	L	70	20	300	L
4	71-RL-36	.5	L	70	150	150	L	100	30	300	L
5	71-RL-15	1	L	100	150	100	5	100	30	300	L
6	71-RL-17	L	L*	100	150	100	7	100	30	300	L
7	71-RL-18	1	L	50	150	150	5	100	30	300	N
8	71-RL-13	1.5	L	150	150	70	15	100	30	500	200
9	71-RL-8	L	L	30	150	70	5	70	15	300	N
10	71-RL-7	N	L	20	150	70	5	70	15	500	N
11	71-RL-6	L	L	50	150	50	L	70	15	200	N
12	71-RL-5	L	L	30	150	100	L	100	15	300	N
13	71-RL-3	L	L	70	150	100	10	100	15	200	L
14	71-PCL-86	.7	L	30	100	70	L	100	30	300	L

L = detected, but below limit of determination; * = usual limits of determination do not apply due to use of different sample weight; N = not detected.

Gold by atomic absorption. Analysts: R.L. Miller, D.G. Murrey.

Other elements by semiquantitative spectrographic analysis. Analyst: K.J. Curry.

NOTES

1. All stream sediment analyses performed on -80 mesh fraction.
2. In all analyses, excepting gold, the results are reported to the nearest number in the series 0.1, 0.15, 0.2, 0.3, 0.7, 1,
3. Copper, lead, molybdenum, and zinc are considered anomalous if they are reported in concentrations approximating, or greater than, 3 times their mean background. Mean background in the area closely approximates average crustal abundance: i.e. copper, 55 ppm; lead, 12.5 ppm; molybdenum, 1.5 ppm; zinc, 70 ppm.
4. Gold and silver are considered anomalous for all values at or above their limits of determination since these limits are greater than 3 times the average crustal abundance for these metals.
5. As, Ba, Be, Bi, Ca, Cd, Co, Fe, La, Mg, Mn, Nb, Sb, Sc, Sn, Sr, Ti, W, Y, and Zr were also looked for and significant anomalies are as follows:

<u>C-4 Map No.</u>	<u>Anomalies (ppm)</u>
5	Zr 700
10	Zr 700

<u>D-5 Map No.</u>	<u>Anomalies (ppm)</u>
3	Ba 3000
4	Ba 3000

6. The maps in this report augment 2 previously open-filed reports: (1) Geochemical Data from the Nabesna C-4 Quadrangle, Alaska; Matson and Richter, 1971. and (2) Geochemical Data from the Nabesna D-5 Quadrangle, Alaska; Matson and Richter, 1971.

GEOCHEMICAL DATA FROM THE NORTHEAST CORNER OF THE NABESNA C-4 QUADRANGLE, ALASKA

Ph, Zn, Ag, Au
Mo, Cu

Stream sediment sample locality with map number on upstream side. Darkened quadrants indicate anomalous concentrations of Ag and/or Au, Cu, Mo, Pb and/or Zn in clockwise order from top. Example 8 is anomalous in Cu and Mo. See Table 1 for analytical values.

GEOCHEMICAL DATA FROM THE NORTHEAST CORNER OF THE NABESNA 65 QUADRANGLE, ALASKA

Pb, Zn Ag, Au

Mo Cu

10

Stream sediment sample localities with map number on upstream side. Darkened quadrants indicate anomalous concentrations of Ag and/or Au, Cu, Mo, Pb and/or Zn in clockwise order from top. Example 10 is anomalous in Mo. See Table 2 for analytical values.