

Table 1. Semiquantitative Spectrographic Analyses

Analyses by Chris Heropoulos 1966, 1967

Stream Sediment Samples				Bedrock and Soil Samples				
Sample Number (Locality number on figure 1)	Quadrangle	Percent Copper	Percent other elements in possible anomalous concentrations	Sample Number (Locality number on figure 1)	Quadrangle	Percent Copper	Percent other elements in possible anomalous concentrations	Remarks (Grab samples except as noted)
R5	Ambler River	.001	--	R29	Ambler River	.003	--	Greenstone
R10	" "	.015	--	R31	" "	.0002	--	Quartzite
R25	" "	.0005	--	R52	Baird Mtns.	.003	--	Quartzose mica schist
R48(.1)	Baird Mtns.	.01	Ag .00007 Ti 1.0	R127	" "	.0005	--	Vein quartz in phyllite
R49	" "	.007	--	R178	" "	.005	--	Vein quartz in phyllite
R68	" "	.001	--	R190	" "	1.0	--	Mineralized quartz vein in limestone; malachite and limonite
R70	" "	.0007	--	T77	" "	.01	Ti 1.0	Soil sample
R82	" "	.007	--	T88	Ambler River	.07	Mn .5 W .1 Zn .05	Vein quartz from headwater basin of small gold placer
R84	" "	.002	Sr .1	T116	Misheguk Mtn.	.05	Mn >10	Manganese nodules
R85	" "	.005	--	B23	Ambler River	.015	--	Pyrite from pyritic slate
R108	" "	.003	--	B113	Baird Mtns.	.003	--	Quartz vein in phyllite
R129	" "	.003	--	B120(B)	" "	.005	--	Black silty slate
T6	Ambler River	.0015	--	B120(C)	" "	.001	Sr .15 Mn .2	" "
T47	Baird Mtns.	.003	Sr .1	B120(E)	" "	.0005	Ba .2	" "
T65	" "	.005	--	B120(G)	" "	.001	--	" "
T80	" "	.01	Ti 1.0	B142	" "	.02	Ag .0003 Pb .02	Gossan on quartz vein
T81	" "	.01	Ti 1.5	B154(B)	" "	.003	Ag .0001 Mo .01	Black slaty siltstone
T85(.5)	" "	.005	--	B173	" "	.001	--	Quartz vein in phyllite
T86(.1)	" "	.005	--	B174	" "	.005	--	Quartz vein in calcareous phyllite
T89	" "	.005	--	B178(A)	" "	1.0	Ag .00015 (Au .03 parts per million)	Quartz vein in greenstone sill
T90	" "	.005	--	B178(B)	" "	.02	--	Greenstone
T100 .3	" "	.003	--	B188(B1)	" "	.0015	Ni .005	Phyllitic quartz siltstone
T100 .4	" "	.005	--	B189	" "	.01	--	Silty sandstone
T105	" "	.015	--	B191	" "	.0015	--	Quartz vein in sandstone
T110(.3)	" "	.005	Mo .0015	B191(A)	" "	.002	--	Calcareous sandstone
T110(.4)	" "	.003	Mo .001	B192(A)	" "	.001	--	Quartz vein in calcareous sandstone
T113(.3)	Misheguk Mtn.	.007	--	B192(B2)	" "	.0015	Ni .0015 Cr .002	Slaty siltstone with chrome mica
T142	" "	.01	Ba .7	B192(D2)	" "	.007	Ni .01 Cr .02	" "
T143(.2)	" "	.01	Ba .5	B192(G2)	" "	.007	Ni .015 Cr .02	" "
T149(.3)	" "	.01	Ni .015	B192(X)	" "	.002	Ni .01 Cr .02	" "
T150(.1)	" "	.015	Ni .07 Cr .5	B193	" "	.0015	--	Silty sandstone
T150(.2)	" "	.02	Ni .03	B199	" "	.0015	--	" "
T151	" "	.007	Ni .15 Cr 1.0	B201	" "	.0015	--	Quartz vein in quartzite
R39	Ambler River	.0015	Sr .03	B203	" "	1.5	Ag .0002	Pyritic quartz vein in phyllite
B03	" "	.0015	Sr .015	B203	" "	20 to 30	Ag .005 (Au .05 parts per million)	Pyrite and calcopyrite separated from vein quartz
B68	" "	.001	--	M98(A)	Ambler River	.3	Ag .005 Pb .15 So .1	Mineralized quartz vein in limestone; malachite, azurite, and galena
B103	" "	.005	--					
B115	Baird Mtns.	.007	Ni .01					
B153	" "	.003	Sr .07					
B169	" "	.005	--					
B173	" "	.005	--					
B191	" "	.007	--					
B200	" "	.007	--					
B214	" "	.007	--					
B283	Ambler River	.005	--					

Results are reported in percent to the nearest number in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, and 0.1, etc., which represent approximate mid-points of interval data on a geometric scale. The assigned interval for semiquantitative results will include the quantitative value about 30 percent of the time. (Those analyses for gold that are reported in parts per million are by atomic absorption method; T. Ging, E. Martinez, T. Poemer and Z. Stephenson, analysts.)

## Panned Concentrates of Stream Sediments

Sample Number (Locality number on figure 1)	Quadrangle	Percent Copper	Percent other elements in possible anomalous concentrations
R49(.1)	Baird Mtns.	.01	Ti 20.0 W .07
R49(.2)	" "	.01	W .1 Ba .2
T27(.11)	" "	.03	--
T36(.11)	" "	.05	--
T59	" "	.02	Zn .05
T65(.1)	" "	.005	Au .5 Ag .1 Zn .07 Sn .05
T65(.2)	" "	.003	Sn .05
T65(.3)	" "	.007	Au 3.0 Ag .5
T66(.1) (dredge concentrate)	" "	.015	Au .5 Ag .05 Sn .15 W .1
T44	" "	.007	--
T88	Ambler River	.02	Ag .03 Au .2 Rare Earths 4.5 (35% by weight Au removed before analysis)