

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS

John W. Katz — Commissioner

Geoffrey Haynes — Deputy Commissioner

Ross G. Schaff — State Geologist

May 1982

This is a preliminary publication of the Alaska Division of Geological and Geophysical Surveys and has not received final editing and review. The author will appreciate candid comments on the accuracy of the data and will welcome suggestions to improve the report.

Alaska Open-file Report 165
GEOCHEMICAL RECONNAISSANCE OF THE NORTHERN
FAIRBANKS D-2 AND SOUTHERN LIVENGOOD A-2
QUADRANGLES, ALASKA; SUMMARY OF DATA ON
STREAM-SEDIMENT, PAN-CONCENTRATE,
AND ROCK SAMPLES
By
M.D. Albanese

TABLE OF CONTENTS

	Page
Introduction.....	1

TABLES

Table 1. Stream-sediment samples, Livengood A-2 Quadrangle.....	2
2. Stream-sediment samples, Fairbanks D-2 Quadrangle.....	9
3. Pan-concentrate samples, Livengood A-2 Quadrangle.....	10
4. Pan-concentrate samples, Fairbanks D-2 Quadrangle.....	10
5. Rock samples, Livengood A-2 Quadrangle.....	11
6. Rock samples, Fairbanks D-2 Quadrangle.....	13

PLATES

Plate 1. Stream-sediment sample locations, northern Fairbanks D-1 and southern Livengood A-2 Quadrangles.....	Envelope
2. Pan-concentrate sample locations, northern Fairbanks D-2 and southern Livengood A-2 Quadrangles.....	Envelope
3. Rock-sample locations, northern Fairbanks D-2 and southern Livengood A-2 Quadrangles.....	Envelope

GEOCHEMICAL RECONNAISSANCE OF THE NORTHERN FAIRBANKS D-2 AND SOUTHERN
LIVENGOOD A-2 QUADRANGLES, ALASKA; SUMMARY OF DATA ON STREAM-SEDIMENT,
PAN-CONCENTRATE, AND ROCK SAMPLES.

By
M.D. Albanese

INTRODUCTION

This report lists the geochemical analyses of 273 stream-sediment samples, 36 pan-concentrate samples, and 433 rock samples from the northern Fairbanks D-2 and southern Livengood A-2 Quadrangles, Alaska.

These geochemical results present part of a geological and mineral investigation of the Fairbanks Mining District conducted by DGGs and the Mineral Industry Research Laboratory, University of Alaska.

The samples were collected during May-July 1981 by DGGs staff members T.E. Smith, T.K. Bundtzen, M.S. Robinson, M.D. Albanese, D.N. Solie, V.M. Ferrell, G.M. Laird, J.D. Blum, M.H. Hall, J.D. Clough, and S.A. Liss; MIRL staff members P.A. Metz and B.W. Campbell; and D.B. Hawkins of the University of Alaska.

Copper, lead, zinc, gold, silver, and molybdenum were analyzed at the DGGs laboratory by atomic-absorption spectrophotometry with a lower detection limit of 0.01 ppm. DGGs laboratory staff involved in these analyses include M.A. Wiltse, D.R. Stein, N.C. Veach, M.R. Ashwell, T.A. Benjamin, M.K. Polly, C.L. Smith, and S.W. Seed.

Tin, tungsten, mercury, and arsenic were analyzed by Bondar-Clegg & Co. Ltd., Vancouver, B.C. Tungsten and arsenic were analyzed by coulometry with a lower detection limit of 2 ppm. Mercury was analyzed by cold-vapor atomic-absorption spectrophotometry with a lower detection limit of 5 ppb. Tin was analyzed by X-ray fluorescence with a lower detection limit of 5 ppm.

The geochemical data were sorted and plotted by using computer programs written by Alyce Egan and Otto Johansen. G. Hall and J. Lindhorst assisted in checking the data for accuracy.

STREAM SEDIMENT SAMPLES LIVEGOOD (A-2) QUADRANGLE
(IF PPK)

Sample	Lat(N)	Long(U)	Cu	Pb	Zn	As
567	65 0 5	147 51 56	13	7	40	22
1215	65 0 1	147 40 10	20	8	49	45
1217	65 0 20	147 40 2	13	7	50	35
1218	65 0 29	147 39 39	13	7	53	30
1219	65 0 35	147 39 48	16	6	43	15
1220	65 0 33	147 33 9	16	19	68	130
1221	65 0 23	147 33 0	12	21	76	85
1223	65 0 7	147 32 31	13	18	66	55
1224	65 0 59	147 31 57	20	13	63	88
1225	65 0 52	147 31 34	15	17	71	85
1226	65 0 40	147 39 56	18	7	50	35
1227	65 0 3	147 42 45	17	8	53	45
1228	65 0 15	147 42 28	14	8	55	20
1229	65 0 26	147 42 33	17	7	57	32
1231	65 0 36	147 42 40	18	9	70	110
1233	65 0 0	147 43 53	55	12	90	165
1235	65 0 13	147 43 50	34	11	73	240
1236	65 0 28	147 43 47	19	8	56	60
1237	65 0 39	147 43 47	14	8	48	32
1238	65 0 41	147 31 2	17	20	83	85
1294	65 0 57	147 35 37	14	10	49	45
1295	65 0 59	147 36 2	20	18	58	160
1296	65 1 7	147 36 42	14	12	57	180
1297	65 1 13	147 37 16	13	7	51	175
1359	65 2 43	147 30 41	14	14	68	125
1361	65 2 59	147 32 26	19	13	63	120
1363	65 3 49	147 31 22	11	7	38	22
1369	65 1 47	147 32 57	15	20	76	88
1370	65 1 47	147 32 37	18	21	223	90
1371	65 1 56	147 33 21	12	43	70	28
1373	65 1 54	147 34 1	16	38	68	135
1374	65 1 49	147 34 21	15	27	85	95
1375	65 1 40	147 34 30	14	46	76	105
1376	65 1 26	147 34 13	31	36	86	120
1380	65 5 36	147 30 37	16	7	51	12
1381	65 4 24	147 30 5	22	13	60	60
1382	65 4 26	147 30 38	28	10	71	40
1383	65 4 21	147 31 24	24	15	70	42
1385	65 4 20	147 31 49	11	6	35	12
1429	65 2 22	147 44 35	16	11	53	8

Table 1

STREAM SEDIMENT SAMPLES LIVERGOOD (A-2) QUADRANGLE
(IN P.P.H) Continued

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	As
1430	65 2 26	147 44 9	17	16	55	45
1463	65 2 36	147 34 31	17	5	54	12
1466	65 1 27	147 30 31	14	13	64	100
1467	65 1 22	147 30 11	12	10	57	180
1472	65 2 28	147 34 55	21	7	58	12
1518	65 5 25	147 30 17	23	8	51	15
1540	65 1 51	147 47 27	15	12	55	40
1541	65 1 55	147 47 6	15	12	48	100
1542	65 1 44	147 47 56	17	11	53	30
1651	65 3 19	147 35 2	40	10	94	120
1652	65 3 31	147 35 23	34	11	84	600
1654	65 3 59	147 35 46	16	10	56	200
1655	65 4 13	147 35 40	16	8	46	15
1656	65 4 20	147 35 23	13	8	47	20
3160	65 0 0	147 36 30	12	19	48	400
3169	65 0 0	147 36 45	8	8	35	40
3627	65 0 6	147 47 31	12	9	39	70
3630	65 0 10	147 46 6	13	8	45	40
3631	65 0 13	147 45 53	21	9	51	85

Table 1 (cont.)

STREAM SEDIMENT SAMPLES
(IN PPM)

FAIRBANKS (D-2) QUADRANGLE

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Ho	Sb	W	As
421	64 56 52	147 47 37	16	8	45		0.1		<1		6
564	64 59 28	147 52 19	36	18	87						120
568	64 59 55	147 51 48	16	9	44						40
570	64 59 43	147 51 18	14	9	44						80
572	64 59 38	147 51 7	15	12	50						65
573	64 59 36	147 51 13	13	10	41						20
848	64 53 54	147 59 35	17	7	52						13
849	64 54 4	147 59 20	23	7	60						15
850	64 54 18	147 59 10	14	7	50						28
1159	64 59 14	147 58 23	11	8	48						10
1199	64 58 13	147 40 15	15	9	53						5
1200	64 58 16	147 40 47	19	8	58						12
1201	64 58 11	147 41 29	14	8	52						4
1202	64 58 25	147 41 30	17	7	52						7
1204	64 58 10	147 41 46	18	8	54						10
1205	64 58 12	147 41 58	22	9	59						10
1206	64 57 58	147 42 6	16	7	52						7
1207	64 57 45	147 42 14	15	6	46						7
1208	64 57 51	147 42 23	17	6	47						7
1209	64 57 38	147 42 24	18	7	51						10
1210	64 57 31	147 42 22	19	7	58						10
1211	64 57 33	147 41 40	19	7	43						8
1212	64 57 14	147 42 19	18	7	56						10
1214	64 59 52	147 40 26	20	9	53						90
1248	64 58 12	147 30 35	9	8	45						38
1249	64 58 18	147 31 17	17	8	63						30
1250	64 59 48	147 33 16	35	8	51						18
1254	64 58 17	147 56 23	24	10	46						7
1255	64 58 10	147 56 47	25	12	51						10
1257	64 58 5	147 57 21	18	9	46						10
1258	64 57 57	147 57 53	20	10	53						20
1259	64 57 52	147 58 11	14	8	40						8
1260	64 57 46	147 58 31	17	9	49						15
1261	64 57 43	147 58 34	17	9	48						7
1263	64 57 32	147 58 5	19	11	56						7
1265	64 57 47	147 58 48	20	8	47						15
1266	64 57 54	147 59 27	16	9	50						25
1267	64 57 33	147 58 55	17	8	48						13
1268	64 56 50	147 59 15	37	11	50						7

Table 2

STRONG COPPER-TANTALUM SAMPLES
(IN PPT)

FALSBANKS (D-2) QUANTIFIABLE
Continued

Sample	Lat (N)	Long (W)	Cu	Pb	Zn	Au	Ag	Hg	Sb	V	As
1269	64 56 52	147 58 46	23	11	51						10
1270	64 56 28	147 59 9	18	12	43						5
1271	64 55 24	147 40 54	17	7	45						15
1272	64 55 42	147 40 45	14	9	55						20
1273	64 55 45	147 41 57	12	7	53						15
1274	64 55 28	147 42 18	15	7	44						10
1275	64 55 33	147 43 32	13	10	34						33
1276	64 55 51	147 43 47	15	7	41						15
1335	64 56 53	147 55 43	22	14	54						350
1336	64 56 47	147 55 54	16	12	49						>1000
1338	64 56 46	147 55 31	17	13	56						90
1339	64 56 27	147 55 16	14	11	49						85
1340	64 56 29	147 54 49	12	12	54						110
1342	64 56 25	147 54 30	12	9	40						>1000
1343	64 56 19	147 54 6	17	10	46						600
1344	64 56 5	147 56 10	21	16	55						700
1345	64 55 56	147 55 41	20	13	61						130
1346	64 55 56	147 55 5	19	12	51						6
1347	64 55 48	147 54 35	24	12	55						3
1348	64 55 39	147 54 15	20	13	59						7
1353	64 57 17	147 59 35	16	6	51						10
1355	64 57 16	147 59 27	14	6	43						70
1396	64 56 52	147 30 32	12	10	55						54
1397	64 56 37	147 30 19	12	9	55						55
1398	64 56 22	147 30 17	7	8	51						11
1399	64 56 24	147 30 13	11	8	48						100
1420	64 56 46	147 31 16	12	19	72						32
1421	64 55 41	147 31 16	15	19	59						18
1422	64 55 44	147 31 4	12	16	45						10
1423	64 55 44	147 30 42	12	8	59						70
1426	64 57 29	147 50 0	20	13	69						8
1427	64 57 20	147 49 33	19	16	50						20
1428	64 57 14	147 49 2	20	11	50						20
1431	64 59 45	147 32 40	12	4	50						150
1432	64 59 44	147 32 21	22	5	66						130
1440	64 55 6	147 30 31	17	16	58						13
1441	64 55 10	147 31 5	16	16	51						2
1450	64 59 25	147 39 10	12	11	51						
1451	64 59 19	147 38 36	14	12	49						

Table 2 (cont.)

FAIRBANKS (D-2) QUANTIFIABLE
Continued

STREAM SEDIMENT SAMPLES
(IF PPL)

Sample	Lat (N)	Long (W)	Cu	Pb	Zn	Au	Ag	Hg	Sb	U	As
1453	64 58 16	147 38 55	21	19	85						6
1460	64 57 22	147 39 27	20	7	57						80
1461	64 55 27	147 56 54	24	6	65						30
1462	64 55 13	147 56 47	18	6	58						30
1471	64 57 6	147 39 15	16	5	53						400
1473	64 55 46	147 56 59	23	6	55						500
1474	64 55 45	147 58 37	23	6	54						20
1501	64 58 58	147 58 41	13	6	43						8
1502	64 59 17	147 58 49	15	7	44						8
1503	64 59 6	147 58 17	10	5	43						7
1504	64 59 15	147 57 46	13	7	53						10
1505	64 59 16	147 57 25	17	7	46						7
1506	64 59 22	147 57 15	17	8	56						10
1508	64 59 20	147 56 59	17	10	65						12
1509	64 59 33	147 56 45	15	7	44						10
1510	64 59 26	147 56 19	15								12
1511	64 59 16	147 56 5	14	7	43						10
1512	64 59 37	147 56 29	15	7	51						10
1513	64 59 39	147 56 17	16	6	49						6
1514	64 59 53	147 55 52	15	5	44						7
1517	64 59 0	147 39 25	17	15	60						10
1540	64 58 57	147 38 46	15	14	47						14
1550	64 58 25	147 38 55	19	16	62						14
1640	64 59 6	147 46 53	15	9	57						15
1641	64 58 57	147 47 30	15	7	45						28
1643	64 58 46	147 48 12	22	8	58						25
1644	64 58 32	147 48 25	15	8	51						7
1646	64 58 19	147 49 8	21	11	62						7
1647	64 58 15	147 49 38	12	6	44						52
1648	64 58 13	147 50 8	16	7	44						22
1649	64 58 22	147 50 39	20	7	50						7
1650	64 55 16	147 39 10	13	9	49						42
1660	64 57 9	147 32 51	17	7	50						32
1669	64 57 7	147 33 9	16	9	58						88
1671	64 57 7	147 33 45	10	10	50						150
1672	64 57 15	147 34 10	25	11	64						66
1675	64 57 9	147 37 6	21	8	55						11
1676	64 56 11	147 51 19	15	12	49						11
1677	64 58 5	147 51 52									22

Table 2 (cont.)

STREAM SEDIMENT SAMPLES
(II. PPH)

FAIRBANKS (D-2) QUADRANGLE
Continued

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Hg	Sb	V	As
1679	64 58 12	147 51 55	15	15	88						100
1680	64 58 1	147 52 2	16	12	45						8
1681	64 57 48	147 52 16	15	12	52						12
1682	64 57 37	147 52 32	17	12	56						8
1683	64 57 28	147 52 46	16	13	60						11
1684	64 57 27	147 52 58	17	11	55						11
1686	64 57 37	147 53 51	20	16	67						6
1687	64 57 13	147 52 58	16	12	54						15
1688	64 57 0	147 53 6	16	12	55						8
1689	64 56 53	147 53 0	16	18	63						7
1690	64 56 45	147 53 14	17	15	73						5
1691	64 56 32	147 53 26	14	12	55						13
1692	64 56 17	147 53 27	14	12	51						8
1693	64 55 55	147 53 21	16	15	55						6
1694	64 55 39	147 53 42	14	11	50						5
2025	64 57 7	147 30 57	21	21	120	<0.1		28	2	21	260
2027	64 57 0	147 31 1	24	16	150	<0.1	0.2	44	4	10	400
2028	64 56 52	147 31 2	18	14	83	<0.1	0.2	27	<2	4	210
2033	64 56 31	147 31 16	19	12	71	0.1	0.1	7	<2	4	28
2034	64 56 28	147 30 59	19	13	66	<0.1		10	<2	15	35
2036	64 56 24	147 30 25	15	7	48					3	80
3141	64 59 10	147 41 38	15	7	48						15
3142	64 59 7	147 42 2	11	7	41						6
3143	64 59 1	147 42 32	12	7	48						5
3144	64 58 50	147 43 13	15	6	43						5
3145	64 58 26	147 44 17	14	6	43						12
3146	64 58 25	147 44 34	16	9	55						12
3147	64 58 9	147 45 30	19	7	50						10
3149	64 58 14	147 45 34	17	11	41						13
3150	64 58 1	147 45 42	16	8	48						13
3151	64 57 50	147 46 43	18	9	50						12
3152	64 57 55	147 45 59	17	8	50						20
3153	64 57 51	147 46 11	15	7	46						15
3154	64 57 51	147 46 23	15	6	44						12
3155	64 57 42	147 46 36	17	7	47						13
3156	64 57 32	147 46 57	15	6	43						10
3157	64 57 22	147 47 27	16	7	48						13
3158	64 57 6	147 48 8	15	7	45						11
3159	64 59 14	147 34 38	20	10	60						6

Table 2 (cont.)

FAIRBANKS (D-2) QUADRANGLE
Continued

STREAM SEDIMENT SAMPLES
(IN PPM)

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Hg	Sb	V	As
3160	64 59 9	147 34 35	16	11	52						6
3161	64 58 59	147 34 26	19	10	50						17
3163	64 58 50	147 34 13	21	15	62						14
3164	64 59 55	147 36 34	21	13	106						24
3165	64 58 6	147 35 26	21	6	61						400
3167	64 59 46	147 37 42	19	6	45						8
3171	64 58 46	147 37 45	14	6	45						8
3172	64 59 40	147 37 25	16	7	43						8
3621	64 59 30	147 54 5	11	10	41						15
3622	64 59 44	147 54 13	14	7	41						15
3623	64 59 33	147 48 14	17	13	38						15
3624	64 59 42	147 47 58	17	13	50						120
3626	64 59 49	147 46 31	23	14	52						95
3629	64 59 57	147 46 30	14	11	47						90

Table 2 (cont.)

PAT CONCENTRATE SAMPLES
(IN PPM) LIVERGOOD (A-2) QUANTANGLE

Sample	Lat(N)	Long(W)	Pb	Au	Ag	Sb	Cu	M
1222	65 0 20	147 32 54		<0.1		<1	ND	30
1232	65 0 37	147 42 40		<0.1		155	ND	20
1234	65 0 0	147 43 54		<0.1		36	ND	5
1239	65 0 41	147 31 2		<0.1		1	ND	18
1290	65 1 14	147 37 18		0.1	0.2	48	ND*	14
1299	65 1 10	147 37 23	15					
1360	65 2 43	147 30 43		<0.1		6	60	20
1562	65 2 58	147 32 26		<0.1		8	ND	9
1372	65 1 56	147 33 21		<0.1		175	ND	19
1377	65 1 26	147 34 12		0.1		131	ND	21
1384	65 4 21	147 31 24		<0.1		3	ND	
1653	65 3 40	147 35 36		0.1		75		
3170	65 0 0	147 36 46		<0.1	<0.1	<1	ND	8

Table 3

FAIRBANKS (D-2) QUADRANGLE

PAN CONCENTRATE SAMPLES

(IN PPH)

Sample	Lat(N)	Long(W)	Cu	Pb	Au	Ag	Sb	Sn	V
566	64 59 57	147 52 9		10	<0.1			ND	2
1203	64 58 10	147 41 46			<0.1		<1	ND	2
1213	64 57 14	147 42 21			<0.1		<1	ND	5
1247	64 56 12	147 30 35					34	ND	2
1256	64 58 5	147 57 20					2	ND	2
1262	64 57 43	147 58 34					9	ND	2
1264	64 57 48	147 58 48			1.7			ND	3
1337	64 56 46	147 55 33			<0.1		<1	ND	3
1341	64 56 26	147 54 31			<0.1		<1	ND	3
1354	64 57 16	147 59 36			<0.1		<1	ND	16
1424	64 55 44	147 30 24			0.1		<1	ND	2
1433	64 59 45	147 32 21			<0.1		<1	ND	3
1452	64 59 19	147 38 37			<0.1		<1	ND	3
1472	64 57 7	147 39 15			<0.1		<1	ND	2
1549	64 58 57	147 38 46	12		<0.1		<1	ND	3
1645	64 58 23	147 46 45			<0.1		5	ND	3
1670	64 57 7	147 33 27	10		<0.1		<1	ND	15
1673	64 57 26	147 34 41			<0.1		<1	ND	19
1678	64 58 24	147 52 23			<0.1		4	ND	3
1685	64 57 32	147 53 21			<0.1		<1	ND	2
3148	64 58 9	147 45 31			<0.1		6	ND	2
3162	64 58 59	147 34 25			<0.1		<1	ND	2
3626	64 59 56	147 47 52		13	<0.1			ND	5

Table 4

ROCK SAMPLES
IN PPM (unless specified otherwise)

LIVENGOOD (A-2) QUADRANGLE
ND=not determined

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Mo	Sb	Sn	Hg	W	As
254	65 1 11	147 34 52	63	12	72	0.1	0.4		32		23	190	400
255	65 1 38	147 31 44	40	32	101	0.1	0.1		22		19	160	220
256	65 1 54	147 30 39	44	16	110	.07	-.1	8	8		10	15	
257	65 1 55	147 30 55	23	21	65	.03	.1	6	5		4	160	
258	65 2 1	147 30 58	28	28	30	.08	.2	6	13		14	110	
259	65 2 3	147 31 1	52	28	57	3.18	.5	4	24		20	130	
253	65 00 29	147 37 31	67	17	70	<0.1	0.2		32		180	40	90
251	65 00 08	147 37 58	78	25	62	<0.1	0.5		31				110
252	65 00 17	147 37 37	57	12	64	<0.1	0.5		21		3	60	45
260	65 1 58	147 30 59	41	8	25	.05	0.1	4	5	339	10	110	
347	65 1 42	147 32 52	37	4	6	.04	-.1	3	2		2	20	
416	65 00 12	147 37 34	291	17	36	1.1	0.2		14	7	1800	10	10
417	65 00 9	147 37 39	116	16	55	<0.1	<0.1		13	ND	20	30	13
418	65 00 8	147 37 50	32	12	37	<0.1	<0.1		6	ND	30	5	7
506	65 2 21	147 32 33	55	7	12	0.1	0.2		14		3	10	14
507	65 2 19	147 33 1	269	830	14	68.0	250	15800			3	60	12
508	65 2 40	147 33 54	93	20	101	0.1	0.8		81		8	80	6
726	65 1 34	147 31 8	64	11	32	<.1	<.1		12				
826	65 00 41	147 35 20	120	580	140	<.1	0.9		56				
827	65 00 41	147 35 20	52	53	76	0.1	0.4		7				
830	65 00 32	147 34 02	190	1.6%	4300	1.4	99		160				
831	65 00 32	147 34 02	112	6600	1500	0.2	28		55				
1216	65 00 20	147 40 20	77	5	17	<0.1	0.1		15		6	30	42
1230	65 00 39	147 42 50	83	8	79	0.1	0.1		52		5	40	500
1240	65 00 39	147 31 11	32	191	625	0.4	1.7		14		42	15	>1000
1533	65 1 31	147 32 5	32	33	107	<0.1	-.1	8	2	ND	20	120	120
1578	65 1 20	147 32 26								ND	30	250	35
1579	65 0 51	147 30 46								ND	2	20	14
1584	65 1 34	147 31 38								ND	10		7
1585	65 1 40	147 31 24								ND	40		2
3616	65 01 50	147 45 10	92	13	108	<0.1	0.1		16		3	90	400
3617	65 01 48	147 45 06	100	7	46	<0.1	<0.1		6		4	90	85
3618	65 02 09	147 45 36	40	52	57		0.1	2			3	80	
3619	65 02 36	147 46 18	34	78	87		0.1	1			4	165	
3683	65 0 53	147 31 37	37	510	540		5.1	129					
3998	65 1 31	147 32 53								ND	3		6

Table 5

ROCK SAMPLES IN PPM (unless otherwise specified)	LIVENGOOD (A-2) QUADRANGLE ND=not determined													
	Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Mo	Sb	Sn	Hg	W	As
3999	65 1 38	147 31 19									ND	13		12
4000	65 2 9	147 31 14									ND	3		7

Table 5 (cont.)

ROCK SAMPLES
IN PPM (unless specified otherwise)

FAIRBANKS (D-2) QUADRANGLE
ND=not determined

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Mo	Sb	Sn	Hg	W	As
3	64 47 43	147 57 16	117	31	33	.0	.0		24		2	46	18
4	64 47 43	147 57 18	122	33	58	.0	.0		23		3	40	5
5	64 47 44	147 57 16	114	33	62	.0	.0		22		3	25	5
6	64 47 43	147 57 17	153	34	30	.0	.5		28		2	20	4
7	64 47 44	147 57 17	127	30	26	.0	.0		29		2	20	5
8	64 47 44	147 57 17	22	38	32	.0	.1		40		2	20	2
9	64 47 43	147 57 16	34	29	27	.0	.0		24		2	20	2
10	64 47 43	147 57 17	24	35	31	.0	.0		26		3	10	ND
11	64 47 44	147 57 17	27	32	28	.0	.0		28		2	20	2
12	64 47 43	147 57 17	22	32	34	.0	.0		26		2	10	ND
13	64 47 43	147 57 17	41	35	39	.0	.0		28		2	20	2
14	64 47 43	147 57 16	33	37	26	.0	.0		31		3	10	ND
15	64 47 43	147 57 16	23	37	24	.0	.0		32		2	20	ND
16	64 47 44	147 57 17	32	29	36	.0	.0		23		3	ND	ND
17	64 47 17	147 58 22	68	11	23	.0	.0		6		2	10	9
18	64 47 58	147 59 52	51	31	37	.0	.1		22		2	10	ND
19	64 47 58	147 59 52	44	36	41	.0	.1		26		3	10	ND
20	64 47 58	147 59 52	52	40	51	.0	.1		24		3	15	ND
21	64 47 58	147 59 53	32	57	29	.0	.0		31		2	15	ND
22	64 47 58	147 59 52	43	50	37	.0	.1		26		3	10	ND
23	64 47 58	147 59 52	76	132	162	.0	.2		13		2	60	3
24	64 47 58	147 59 52	68	26	356	.0	.0		8		2	30	ND
25	64 47 58	147 59 52	74	22	459	.0	.0		7		2	20	2
26	64 47 58	147 59 52	72	26	212	.0	.0		8		2	20	5
27	64 47 58	147 59 52	86	29	253	.0	.0		7		2	15	3
41	64 51 41	147 59 36	56	16	64	-.1	-.1		30		3	20	300
42	64 51 41	147 59 36	76	17	38	.1	.1		105		3	25	>1000
43	64 51 41	147 59 36	87	11	32	-.1	-.1		48		3	30	500
44	64 52 40	147 59 1	56	11	40	.1	-.1		41		3	20	800
45	64 51 41	147 59 36	99	14	24	.5	.6		48		ND	30	>1000
46	64 52 40	147 59 1	106	11	28	.7	2.4		34		ND	100	>1000
47	64 52 40	147 59 1	41	11	29	.1	-.1		52		ND	15	800
48	64 52 40	147 59 1	75	11	33	10.7	1.0		120		ND	40	>1000
49	64 52 40	147 59 1	87	10	10	3.1	.2		189		ND	300	>1000
50	64 52 40	147 59 1	85	8	9	.2	.4		33		ND	110	>1000
51	64 52 40	147 59 1	118	9	19	.1	.2		20		3	60	>1000

Table 6

-13-

ROCK SAMPLES
IN PPM (unless otherwise specified)

FAIRBANKS (D-2) QUADRANGLE
ND=not determined

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Mo	Sb	Sn	Hg	W	As
52	64 52 40	147 59 1	82	31	9	0.3	1.7		45		3	110	>1000
53	64 51 41	147 59 36									3	60	>1000
54	64 51 41	147 59 36	75	17	63	0.61	0.7		495		3	65	>1000
55	64 51 51	147 59 09	65	9	59	0.03	<0.1		55		3	40	800
56	64 51 51	147 59 09	145	42	60	2.95	1.3		610		3	120	>1000
57	64 51 51	147 59 09	140	7	38	0.02	0.2		119		3	120	400
58	64 51 52	147 59 05	89	8	25	<0.1	<0.1		19		3	20	170
59	64 51 52	147 59 05	79	14	65	0.4	0.1		34		3	20	170
60	64 51 52	147 59 05	136	15	63	<0.1	0.1		72		3	40	>1000
61	64 49 57	147 53 42	75	13	50	.0	.0		30		2	10	10
62	64 51 44	147 59 31	71	9	5	.5	5.2		91				
63	64 51 44	147 59 31	53	10	4	.4	2.3		88				
64	64 51 44	147 59 31	111	17	3	1.1	.8		74		ND	80	>1000
65	64 51 44	147 59 31	88	9	4	-.1	-.1		37		ND	20	>1000
66	64 51 44	147 59 31	52	7	3	-.1	-.1		22		2	10	350
67	64 51 44	147 59 31	65	6	2	-.1	-.1		31		3	20	400
68	64 51 41	147 59 36	83	19	40	-.1	-.1		22		2	10	130
69	64 51 41	147 59 36	49	27	41	-.1	-.1		47		2	100	300
70	64 51 41	147 59 36	44	22	32	-.1	-.1		38		2	40	200
71	64 51 41	147 59 36	21	29	26	-.1	-.1		60		2	35	500
72	64 51 41	147 59 36	78	18	33	-.1	-.1		39		2	50	400
73	64 51 41	147 59 36	30	22	33	-.1	-.1		33		2	20	160
74	64 51 41	147 59 36	37	21	36	-.1	-.1		32		2	20	160
75	64 51 41	147 59 36	34	18	30	-.1	-.1		30		2	20	220
76	64 51 41	147 59 36	58	17	33	-.1	-.1		33		2	40	220
77	64 51 41	147 59 36	49	17	32	-.1	-.1		45		2	25	160
78	64 51 41	147 59 36	69	12	37	-.1	-.1		57		3	50	800
79	64 51 41	147 59 36	64	14	34	-.1	-.1		50		3	50	800
80	64 51 41	147 59 36	89	12	56	.2	-.1		35		2	40	600
84	64 48 15	147 59 33	91	2	4	.0	.0		4		2	ND	20
105	64 51 44	147 59 31	57	54	188	.01	.1		39		2	60	240
106	64 51 44	147 59 31	74	76	189	.02	.1		50		2	30	220
107	64 51 44	147 59 31	78	66	226	.01	.1		59		2	30	220
108	64 51 44	147 59 31	70	231	313	.01	.6		72		2	45	220
109	64 51 44	147 59 31	66	103	238	<.01	.3		56		2	30	170
110	64 51 44	147 59 31	71	118	258	<.01	.4		71		2	20	90

Table 6 (cont.)

ROCK SAMPLES
IN PPM (unless otherwise specified)

FAIRBANKS (D-2) QUADRANGLE
ND=not determined

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Mo	Sb	Sn	Hg	W	As
111	64 51 44	147 59 31	70	41	118	.03	.1		177		3	40	500
112	64 51 44	147 59 31	51	28	39	<.01	<.1		450		2	25	300
113	64 51 44	147 59 31	37	34	72	<.01	<.1		266		2	40	300
114	64 51 44	147 59 31	111	18	86	.2	.1		156		3	150	600
115	64 51 44	147 59 31	113	13	53	1.96	2.4		147		3	135	>1000
116	64 51 44	147 59 31	271	30	103	.2	1.8		303		3	150	>1000
117	64 51 44	147 59 31	151	23	16	2.32	9.6		157		3	100	>1000
118	64 51 44	147 59 31	155	10	15	2.66	15.1		206		3	70	>1000
119	64 51 44	147 59 31	139	6	20	1.75	5.9		236		3	80	>1000
129	64 51 23	147 59 36	96	6	2	.8	1.0		41		3	200	>1000
130	64 51 23	147 59 35	315	463	4	97.6	44.5		830		3	270	>1000
131	64 52 45	147 59 46	56	41	16	1.31	2.4		53		3	1100	>1000
132	64 52 45	147 59 46	111	44	5	2.92	2.9		28		3	70	>1000
133	64 52 45	147 59 46	123	14	3	0.45	22.6		39		3	600	>1000
134	64 52 45	147 59 46	108	30	30	0.30	8.3		99		3	490	>1000
135	64 52 45	147 59 46	80	13	11	0.92	6.4		40		3	450	>1000
136	64 52 41	147 59 27	65	195	97	4.25	1.1		95		3	170	>1000
137	64 52 41	147 59 27	66	14	124	.007	0.2		27		3	425	>1000
173	64 53 33	147 59 22	38	17	45	0.01	0.1		4		2	67	360
213	64 59 48	147 41 34	175	10	69	0.02	<0.1		34	ND	5	250	
214	64 58 57	147 40 8	77	13	31	<0.01	<0.1		16	ND	5	10	
215	64 57 9	147 47 0	44	80	63	<0.01	<0.1		36	6	3	10	
220	64 57 0	147 47 49	135	12	32	<.1	0.4		6	ND	3	10	10
222	64 55 34	147 58 47	12	11	48	-.1	-.1	3	17		2	10	13
223	64 59 27	147 45 37	195	11	35	15.1	2.2	3	14%				>1000
223	64 59 27	147 43 37	195	11	35	15.1	2.2	3					
224	64 57 9	147 47 0	76	22	56	-.1	.1	0	125		2	30	25
225	64 59 53	147 45 31	64	10	34	0.87	0.4		1.95				
226	64 59 53	147 45 31	139	8	25	2.10	0.4		1.90%				>1000
227	64 59 53	147 45 31	77	28	97	0.75	0.3		227				>1000
228	64 59 53	147 45 30	158	5	19	0.98	0.7		11.5%				>1000
229	64 59 53	147 45 31	159	10	6	1.92	0.4		8.6%				>1000
237	64 58 42	147 55 22	35	44	28	<.1	<.1		4	ND	3	5	5
239	64 57 11	147 38 45	55	47	92	<.1	0.1		20	ND	2	20	18
240	64 59 53	147 45 30	83	20	96	<0.01	<0.1		90				140
241	64 59 53	147 45 31	104	11	44	1.41	0.2		38				>1000

Table 6 (cont.)

-15-

ROCK SAMPLES
IN PPM (unless otherwise specified)

FAIRBANKS (D-2) QUADRANGLE
ND=not determined

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Mo	Sb	Sn	Hg	W	As
242	64 59 53	147 45 30	93	110	193	3.06	1.3		379				>1000
243	64 59 53	147 45 30	92	25	29	5.70	0.6		1.35%	ND	3	15	>1000
244	64 59 53	147 45 30	77	13	41	1.41	0.1		100	ND	3	10	>1000
245	64 59 53	147 45 29	59	22	60	<0.01	<0.1		55	6	3	20	>1000
246	64 59 52	147 44 45	61	28	82	0.75	0.3		28	ND	3	20	>1000
247	64 59 53	147 45 31	70	11	50	<0.01	<0.1		38				
248	64 59 52	147 44 39	20	34	16	<0.01	<0.1		52	ND	3	10	120
249	64 59 52	147 44 39	135	17	79	<0.01	<0.1		68	ND	4	55	80
261	64 59 52	147 44 39	118	17	45	0.13	0.5		72	ND	3	55	>1000
262	64 59 52	147 44 39	57	10	2	1.96	0.4		540	8	3	10	>1000
263	64 59 52	147 44 45	57	34	62	0.85	0.4		18	ND	3	20	>1000
264	64 59 52	147 44 45	80	20	65	0.16	0.2		40	ND	3	55	>1000
265	64 59 52	147 44 45	56	40	40	0.76	0.2		24	ND	3	10	>1000
266	64 59 53	147 45 31	57	19	101	0.07	0.1		25	ND	3	40	1000
267	64 59 53	147 44 30	68	26	81	0.16	0.2		49	ND	3	75	>1000
268	64 59 53	147 44 29	25	17	78	0.08	0.1		34	ND	3	30	>1000
280	64 55 33	147 53 52	70	940	1200	.01	.9		57		2	50	13
281	64 55 28	147 53 50	72	8	24	<.01	<.1		22		3	10	20
282	64 55 19	147 53 45	42	4	7	.01	<.1		18		2	10	20
284	64 54 54	147 53 46	116	7	26	<.01	<.1		26		2	20	8
285	64 55 36	147 53 3	35	4	18	<.01	<.1		13		3	10	6
286	64 55 36	147 53 4	99	10	171	<.01	<.1		28		2	10	6
287	64 55 36	147 53 3	169	14	65	<.01	1.1		19		2	35	21
288	64 55 36	147 53 3	57	9	7	<.01	<.1		33		3	10	10
289	64 55 36	147 53 3	94	9	195	<.01	.1		27		2	10	7
290	64 55 43	147 52 46	134	15	53	<.01	.7		18		3	20	18
291	64 55 44	147 52 39	194	11	18	<.01	.1		32		2	20	7
292	64 53 9	147 35 38	67	12	44	<0.1	<0.1		8		2	10	8
293	64 54 59	147 33 18	74	172	9	<0.1	0.3		13		3	10	320
294	64 54 59	147 33 19	86	139	19	0.1	1.3		22		3	10	>1000
295	64 54 12	147 31 12	185	21	69	<0.1	0.3		6		3	15	12
300	64 55 39	147 32 45	8	7	7	<0.1	<0.1	1	4	ND	5	5	13
301	64 55 32	147 32 42	68	12	87	<0.1	0.1	2	7	ND	2	10	25
302	64 56 13	147 33 3	21	70	20	<0.1	0.2	1	9	16	4	36	60
303	64 56 13	147 33 2	63	3650	28	0.1	5.3	3	182	340	3	90	>1000
337	64 57 18	147 30 24	29	8	34		<0.1	5			2	5	

Table 6 (cont.)

ROCK SAMPLES
IN PPM (unless otherwise specified)

FAIRBANKS (D-2) QUADRANGLE
ND=not determined

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Mo	Sb	Sn	Hg	W	As
338	64 57 17	147 30 23	58	13	11		<0.1	3			2	5	
339	64 57 18	147 30 23	36	11	22	.02	<0.1	7	<1		23	10	50
340	64 57 18	147 30 35	25	9	16	.02	0.1	6	121		20	256	17
414	64 55 34	147 53 3	150	8	38	<0.1	0.5		4	6	2	15	12
419	64 59 44	147 38 19	43	12	50	<0.1	<0.1		6	ND	2	5	4
420	64 58 39	147 38 08	75	10	49	<0.1	<0.1		4	ND	2	5	5
422	64 55 53	147 56 54	85	13	41	<0.1	<0.1		10	ND	2	2	ND
423	64 55 55	147 56 32	74	10	59	<0.1	<0.1		7	ND	2	5	ND
424	64 55 55	147 56 32	58	10	11	<0.1	<0.1		178	ND	2	5	2
451	64 55 20	147 57 18				.0	.0	6	3	<5	2	15	25
452	64 55 23	147 57 37				.0	.0		.5	<5	2	15	ND
467	64 53 37	147 59 46	106	72	60	.4	3.8		91	20	4	55	280
468	64 53 33	147 59 22	95	43	4	.3	.1		34	<5	3	20	600
472	64 52 43	147 59 28	93	22	14	0.3	7.7		72	ND	3	230	>1000
473	64 52 43	147 59 28	94	15	44	0.6	23.6		71	ND	3	540	>1000
474	64 52 43	147 59 28	92	16	13	2.2	6.7		35	ND	3	20	>1000
475	64 59 53	147 45 30	66	15	68	0.01	<0.1		1980	ND	3	15	600
476	64 51 48	147 59 23	83	21	3	2.8	8.0		437	ND	3	135	>1000
477	64 51 48	147 59 23	81	8	11	.1	.1		170	ND	4	95	>1000
478	64 51 48	147 59 23	76	13	23	0.6	1.4		487	ND	3	45	>1000
479	64 51 48	147 59 23	97	3	2	-.1	-.1		27	ND	2	10	260
480	64 51 48	147 59 23	102	9	9	0.2	0.4		255	ND	3	20	>1000
482	64 51 42	147 59 34	69	27	91	-.1	-.1		43	ND	3	10	50
483	64 51 42	147 59 34	45	20	26	-.1	-.1		30	ND	2	10	280
484	64 51 42	147 59 34	130	35	5	4.8	2.1		2.8%	ND	3	175	>1000
485	64 51 42	147 59 34								ND	3	55	>1000
486	64 51 39	147 59 40	87	17	175	-.1	-.1		39		3	120	800
487	64 51 39	147 59 40	86	18	64	-.1	-.1		46		3	30	600
488	64 51 39	147 59 40	86	11	21	-.1	.1		55		3	130	800
489	64 51 39	147 59 40	168	260	43	7.9	9.5		261		3	135	>1000
490	64 51 39	147 59 40	136	22	18	2.8	1.5		216		3	120	>1000
491	64 51 39	147 59 40	131	10	16	-.1	.2		114		3	165	>1000
492	64 51 40	147 59 45	69	18	34	.2	-.1		75	ND	17	10	220
493	64 51 40	147 59 45	134	43	14	4.0	1.9		260	ND	3	600	>1000
494	64 51 40	147 59 45	53	18	37	-0.1	.8		56	ND	4	10	320
495	64 59 53	147 45 30	68	15	102	0.10	0.1		472	15	4	15	>1000

Table 6 (cont.)

ROCK SAMPLES
IN PPM (unless otherwise specified)

FAIRBANKS (D-2) QUADRANGLE
ND=not determined

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Mo	Sb	Sn	Hg	W	As
509	64 56 38	147 30 29	63	6	18	0.7	0.2		16		3	5	4
510	64 56 7	147 31 7	28	153	152	0.1	0.1		15		7	30	13
571	64 59 43	147 51 15	38	51	22	0.3	0.2		22			10	>1000
602	64 51 52	147 59 05	160	9	25	<0.1	<0.1		112		3	20	>1000
603	64 51 52	147 59 05	186	6	19	<0.1	<0.1		141		3	20	>1000
604	64 51 52	147 59 05	114	5	15	<0.1	0.1		81		3	25	>1000
605	64 51 52	147 59 05	193	7	17	<0.1	<0.1		88		3	20	1000
606	64 51 52	147 59 05	195	8	19	<0.1	<0.1		88		3	40	>1000
607	64 51 52	147 59 05	130	6	17	0.3	0.2		94		3	30	>1000
608	64 51 52	147 59 05	134	10	27	0.8	0.5		52		3	65	>1000
609	64 51 52	147 59 05	110	6	10	0.1	0.1		51		ND	80	>1000
610	64 52 13	147 58 54	100	15	42	0.3	1.1		12		ND	70	>1000
611	64 52 13	147 58 54	70	49	80	0.7	1.4		22		ND	60	>1000
612	64 52 13	147 58 54	93	34	97	1.2	2.7		27		ND	70	>1000
613	64 52 13	147 58 54	98	12	25	0.4	0.6		20		ND	100	>1000
614	64 52 13	147 58 54	97	12	26	0.3	0.3		14		ND	290	>1000
615	64 52 13	147 58 54	84	21	85	0.2	0.7		31		ND	295	>1000
616	64 52 13	147 58 54	81	43	50	1.0	0.9		36		ND	90	>1000
617	64 52 13	147 58 54	135	228	44	4.0	5.4		640		3	90	>1000
618	64 52 13	147 58 54	100	13	53	<0.1	<0.1		12		3	40	>1000
619	64 52 13	147 58 54	64	17	72	<0.1	0.1		14		3	25	800
620	64 52 13	147 58 54	77	18	74	<0.1	0.2		12		3	30	800
621	64 52 13	147 58 54	94	14	45	0.1	0.5		15		ND	40	>1000
622	64 52 13	147 58 54	85	15	44	<0.1	0.3		13		3	30	>1000
623	64 52 13	147 58 54	86	14	61	<0.1	0.3		14		3	40	>1000
624	64 52 13	147 58 54	52	18	59	<0.1	0.3		10		3	30	>1000
625	64 52 44	147 58 57	69	13	79	<0.1	0.2		14		3	70	>1000
626	64 52 44	147 58 57	95	16	65	0.1	0.4		19		3	250	>1000
627	64 52 44	147 58 57	53	14	41	<0.1	0.2		8		3	20	600
628	64 52 44	147 58 57	67	17	49	0.1	0.3		10		3	25	>1000
629	64 54 12	147 36 7	104	44	122	<0.1	0.1		9		2	20	20
630	64 54 12	147 36 7	126	112	264	<0.1	0.3		6		2	20	50
648	64 52 42	147 59 49	135	14	31	0.1	0.6		59		3	140	600
654	64 52 42	147 59 49	85	12	53	<0.1	<0.1		17		2	30	240
655	64 52 42	147 59 49	90	15	66	<0.1	0.1		24		2	10	400
656	64 52 42	147 59 49	107	20	48	0.1	0.7		29		3	40	>1000

Table 6 (cont.)

ROCK SAMPLES
IN PPM (unless otherwise specified)

FAIRBANKS (D-2) QUADRANGLE
ND=not determined

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Mo	Sb	Sn	Hg	W	As
657	64 52 42	147 59 49	75	12	26	0.2	1.1		28		3	30	>1000
658	64 52 42	147 59 49	55	10	18	0.1	0.3		18		3	20	700
659	64 52 42	147 59 49	54	7	24	<0.1	0.1		24		2	10	400
660	64 52 42	147 59 49	136	14	28	<.1	.1		19		2	25	200
661	64 52 42	147 59 49	59	18	52	<.1	.2		22		2	10	400
662	64 52 42	147 59 49	76	15	70	<.1	.1		24		3	15	400
663	64 52 42	147 59 49	80	16	48	.1	.6		28		3	70	>1000
664	64 52 42	147 59 49	58	13	68	.3	1.4		39		3	50	>1000
665	64 52 42	147 59 49	66	19	60	1.9	.9		38		3	40	>1000
666	64 52 42	147 59 49	51	14	54	<.1	.1		55		3	30	600
667	64 52 42	147 59 49	73	9	27	<.1	.1		31		2	50	600
668	64 52 42	147 59 49	77	19	48	<.1	.2		75		2	25	500
669	64 52 42	147 59 49	61	14	79	<.1	.1		47		3	25	600
670	64 52 42	147 59 49	79	12	73	<.1	.1		91		3	25	600
671	64 52 42	147 59 49	83	26	74	.1	.3		95		3	35	>1000
672	64 52 42	147 59 49	111	13	93	<.1	.2		46		3	45	800
673	64 52 42	149 59 49	73	16	108	.3	1.4		149		3	800	>1000
674	64 52 42	147 59 49	76	26	61	.9	3.0		171		ND	260	>1000
675	64 52 42	147 59 49	123	14	10	.3	3.1		78		ND	150	>1000
676	64 52 45	147 59 46	80	18	19	.3	2.3		30		ND	30	>1000
677	64 52 45	147 59 46	93	18	42	.2	.8		37		ND	20	>1000
678	64 52 45	147 59 46	95	16	43	<.1	1.0		21		ND	30	>1000
679	64 52 45	147 59 46	83	10	23	.1	1.6		20		ND	20	>1000
680	64 52 45	147 59 46	82	10	16	.3	1.9		15		ND	15	>1000
681	64 52 45	147 59 46	65	17	58	.6	1.5		32		ND	60	>1000
682	64 52 45	147 59 46	92	28	63	.9	4.4		62		ND	130	>1000
683	64 52 45	147 59 46	138	65	18	.8	19.6		73		ND	2000	>1000
684	64 52 45	147 59 46	106	14	7	1.3	6.1		106		ND	410	>1000
685	64 52 45	147 59 46	216	19	12	1.2	6.5		91		3	700	>1000
686	64 52 45	147 59 46	73	10	43	.9	3.3		33		3	500	>1000
687	64 52 45	147 59 46	56	11	55	1.2	1.7		31		3	1550	>1000
688	64 52 45	147 59 46	110	10	88	.1	.4		13		3	1900	>1000
689	64 52 45	147 59 46	108	16	42	.6	7.5		40		3	110	>1000
690	64 52 45	147 59 46	89	8	46	.1	.3		242		3	30	>1000
691	64 52 41	147 59 27	71	24	173	<0.1	0.1		11		3	50	120
692	64 52 41	147 59 27	84	49	78	0.4	0.2		23		3	380	>1000

Table 6 (cont.)

ROCK SAMPLES
IN PPM (unless otherwise specified)

FAIRBANKS (D-2) QUADRANGLE
ND=not determined

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Mo	Sb	Sn	Hg	W	As
693	64 52 41	147 59 27	76	71	70	3.2	0.8		35		3	430	>1000
694	64 52 41	147 59 27	78	11	17	0.1	0.2		6		2	90	220
695	64 52 41	147 59 27	77	16	24	0.1	0.2		264		2	150	600
696	64 52 41	147 59 27	68	8	29	<0.1	0.1		7		3	70	400
697	64 52 41	147 59 27	71	11	34	0.1	0.1		8		2	110	800
698	64 52 41	147 59 27	77	9	34	<0.1	<0.1		231		2	210	160
699	64 52 41	147 59 27	77	11	43	<0.1	<0.1		8		2	90	140
700	64 52 41	147 59 27	70	14	32	<0.1	0.1		12		3	110	>1000
701	64 52 41	147 59 27	64	256	34	2.3	2.0		153		3	110	>1000
702	64 52 41	147 59 27	38	31	36	0.3	1.2		21		3	90	>1000
703	64 52 41	147 59 27	73	16	143	0.1	0.1		28		2	70	>1000
704	64 52 44	147 58 25	56	28	71	0.2	0.3		25		3	45	>1000
705	64 52 44	147 58 25	103	10	48	0.3	0.3		15		3	45	>1000
706	64 52 40	147 59 1	83	18	45	<0.1	0.2		16		3	30	500
707	64 52 40	147 59 1	64	26	60	0.2	0.5		19		3	60	>1000
708	64 52 40	147 59 1	66	32	167	<0.1	0.3		16		2	50	800
709	64 52 40	147 59 1	86	8	62	0.1	0.5		15		2	50	400
710	64 52 40	147 59 1	72	19	27	0.1	0.6		11		3	70	>1000
711	64 52 40	147 59 1	94	19	85	0.5	0.9		21		3	130	>1000
712	64 52 40	147 59 1	91	26	85	0.6	1.1		30		23	235	>1000
713	64 52 40	147 59 1	101	28	78	0.5	2.0		28		8	240	>1000
714	64 52 40	147 59 1	106	36	62	0.2	0.5		19		8	215	>1000
715	64 52 40	147 59 1	76	14	52	<0.1	0.5		11		5	200	>1000
716	64 52 40	147 59 1	90	30	67	0.7	3.1		49		3	110	>1000
717	64 52 40	147 59 1	82	16	66	<0.1	0.2		9		2	40	130
718	64 52 40	147 59 1	181	35	60	0.3	1.2		26		3	50	>1000
719	64 52 40	147 59 01	99	23	62	0.4	0.8		20		3	30	>1000
720	64 52 54	147 57 46	79	43	34	0.4	1.0		14		3	35	>1000
721	64 52 54	147 57 45	74	39	19	0.3	0.7		10		2	30	600
722	64 55 12	147 41 50	181	21	71	0.1	0.4		17		85	70	>1000
723	64 55 12	147 41 49	161	18	31	0.2	0.2		10		34	50	220
725	64 52 40	147 59 1	78	37	53	<.01	.1	5	67		2	20	20
726	64 52 40	147 59 1	64	11	32	<.1	<.1		12				
727	64 52 40	147 59 1	116	1440	64	0.1	13.2		19				
728	64 52 40	147 59 1	66	17	550	<.1	0.1		685				
746	64 54 11	147 36 7	141	28	86	<0.1	<0.1		8		2	10	22

Table 6 (cont.)

ROCK SAMPLES
IN PPM (unless otherwise specified)

FAIRBANKS (D-2) QUADRANGLE
ND=not determined

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Mo	Sb	Sn	Hg	W	As
747	64 54 12	147 36 6	73	35	54	<0.1	0.1		6		2	10	20
748	64 54 11	147 36 7	107	16	67	<0.1	<0.1		6		2	10	25
749	64 54 11	147 36 6	111	219	22	<.1	0.5		67				
750	64 54 11	147 36 7	50	14	70	<0.1	<0.1	8	8		3	10	400
751	64 54 36	147 35 45	68	25	87	<0.1	0.1		9		ND	20	30
752	64 54 36	147 35 44	82	13	43	<0.1	<0.1		10		ND	10	65
753	64 54 36	147 35 43	63	17	60	<0.1	0.1		10		3	10	160
754	64 54 36	147 35 44	87	16	83	<0.1	0.1		2		3	10	>1000
755	64 54 36	147 35 44	90	15	56	<0.1	0.2		29		3	20	160
756	64 54 36	147 35 44	30	58	121	<0.1	0.1		18		3	5	400
757	64 54 36	147 35 44	66	35	51	<0.1	0.3		14		3	15	>1000
758	64 54 36	147 35 44	64	11	43	<0.1	<0.1		13		3	10	220
759	64 54 34	147 35 46	25	18	77	<0.1	<0.1		10		3	10	>1000
760	64 54 34	147 35 46	32	27	9	0.9	0.7		375		3	10	>1000
761	64 54 33	147 35 46	137	21	26	0.2	0.2		59		3	20	>1000
762	64 54 34	147 35 46	65	22	96	<0.1	<0.1		164		3	10	220
763	64 54 34	147 35 46	10	19	67	<0.1	<0.1		10		3	10	400
764	64 54 34	147 35 45	20	27	80	<0.1	<0.1		11		3	10	400
765	64 54 34	147 35 46	102	16	54	<0.1	<0.1		8		3	10	400
766	64 54 31	147 35 47	52	18	100	<0.1	<0.1		10		3	10	160
767	64 54 31	147 35 46	27	14	84	<0.1	<0.1		9		3	20	800
768	64 54 31	147 35 46	73	13	42	0.1	0.1		13		3	ND	>1000
769	64 54 30	147 35 47	37	26	37	<.01	.1	3	31		2	20	80
770	64 54 31	147 35 47	33	43	198	<.01	.1	3	28		2	45	55
771	64 54 31	147 35 47	44	87	45	<.01	.4	3	41		2	20	220
772	64 54 30	147 35 47	38	54	16	<.01	.3	2	26		3	ND	180
773	64 54 31	147 35 47	75	15	71	<.01	.1	2	30		2	20	20
774	64 54 31	147 35 46	145	11	16	.05	.2	3	35		3	20	>1000
775	64 54 31	147 35 47	31	7	26	<0.1	<.1		<1				11
776	64 54 12	147 36 07	59	23	53	<.01	<.1		41		3	20	10
777	64 54 12	147 36 07	49	18	49	<.01	<.1		37		3	10	12
778	64 54 12	147 36 07	47	6	16	<.01	<.1		13		2	5	11
779	64 54 12	147 36 07	50	15	52	<.05	<.1		31		2	10	10
780	64 54 12	147 36 07	62	22	66	<.01	<.1		36		2	10	15
781	64 54 12	147 36 07	24	47	170	<.01	<.1		64		2	10	30
782	64 54 12	147 36 07	51	11	46	<.01	<.1		20		ND	10	10

Table 6 (cont.)

-21-

ROCK SAMPLES
IN PPM (unless otherwise specified)

FAIRBANKS (D-2) QUADRANGLE
ND=not determined

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Mo	Sb	Sn	Hg	W	As
783	64 54 12	147 36 07	85	17	35	<.01	<.1		21		ND	10	13
784	64 54 12	147 36 07	77	15	31	<.01	<.1		19		ND	10	23
785	64 54 12	147 36 07	53	18	37	<.01	<.1		29		ND	10	30
786	64 54 12	147 36 07	70	3	13	<.01	<.1		10		ND	10	23
787	64 54 12	147 36 07	63	7	30	<.01	<.1		17		ND	5	28
788	64 54 12	147 36 07	89	13	51	.04	<.1		33		2	30	25
789	64 54 12	147 36 07	95	18	67	<.01	<.1		33		2	25	20
790	64 54 12	147 36 07	115	25	65	<.01	<.1		30		2	20	27
791	64 52 40	147 59 1	80	80	93	<.01	<.1		36		2	10	20
792	64 54 12	147 36 07	147	23	80	<.01	<.1		34		2	20	13
800	64 54 40	147 43 45	90	10	40	.03	.3		32		3	12	800
801	64 53 15	147 47 58	102	25	49	.16	.1		49		3	30	>1000
802	64 53 21	147 47 58	119	12	102	.01	.1		156		3	50	800
803	64 53 21	147 47 58	112	11	68	<.01	.1		84		3	35	220
804	64 53 9	147 47 59	178	12	79	<.01	.8		39		2	90	27
805	64 51 10	147 33 39	25	42	28	<0.1	0.1		39		2	10	25
806	64 51 10	147 33 39	116	20	84	<0.1	0.1		35		2	20	55
810	64 54 31	147 35 46	106	14	98	0.01	.1		32		2	10	120
811	64 54 31	147 35 47	47	191	51	.01	.6		58		3	10	1000
1480	64 53 36	147 59 19	53	31	48	0.27	0.2		92				>1000
1481	64 53 32	147 59 24	48	7	4	0.02	<0.1		2				165
1786	64 57 17	147 30 31	53	305	55	<0.1	1.9		<1				
1787	64 57 16	147 30 30	62	123	82	<0.1	0.7		<1				
1788	64 57 16	147 30 31	75	195	25	<0.1	1.0		1				
1789	64 57 16	147 30 31	48	22	95	<0.1	0.2		<1				
1790	64 57 16	147 30 30	82	15	61	<0.1	0.2		<1				
1791	64 57 16	147 30 31	63	24	10	<0.1	0.1		<1				
1792	64 57 16	147 30 31	83	355	42	<0.1	0.6		11				
1793	64 57 16	147 30 31	61	97	55	0.1	0.4		12				
1794	64 57 16	147 30 31	82	48	93	0.3	1.1		32				
1795	64 57 25	147 31 5	50	10	26	<0.1	0.2		<1				
1796	64 57 24	147 31 7	59	14	53	<0.1	1.1		5				
1797	64 54 41	147 35 27	72	13	31	<0.1	0.1		<1				
1798	64 54 41	147 35 27	47	3	16	<0.1	<0.1		<1				
1799	64 54 41	147 35 26	440	135	16	1.6	11.9		310				
1800	64 54 41	147 35 26	63	8	3	<0.1	0.6		<1				

Table 6 (cont.)

-22-

ROCK SAMPLES
IN PPM (unless otherwise specified)

FAIRBANKS (D-2) QUADRANGLE
ND=not determined

Sample	Lat(N)	Long(W)	Cu	Pb	Zn	Au	Ag	Mo	Sb	Sn	Hg	W	As
1801	64 54 41	147 35 26	67	9	7	<0.1	0.2		<1				
1802	64 54 41	147 35 27	93	3	9	<0.1	0.5		1				
1803	64 54 41	147 35 27	108	47	34	0.5	0.9		73				
1804	64 54 50	147 35 25	138	6	41	0.1	0.2		5				
1805	64 54 50	147 35 24	55	58	20	0.2	1.4		4				
1806	64 54 52	147 35 31	59	167	72	0.1	1.8		6				
1807	64 54 52	147 35 29	48	6	10	<0.1	<0.1		2				
1808	64 54 54	147 35 33	73	12	18	<0.1	<0.1		<1				
1809	64 54 54	147 35 33	670	7	40	0.3	0.4		<1				
1810	64 54 54	147 35 32	55	14	10	<0.1	0.1		<1				
1811	64 54 54	147 35 33	84	10	325	0.4	2.1		<1				
1813	64 54 36	147 45 17	65	13	23	<0.1	0.1		<1				
1814	64 54 37	147 45 16	152	11	67	<0.1	0.2		<1				
1815	64 54 43	147 46 32	60	12	17	<0.1	0.1		6				
2034	64 56 13	147 30 38	70	3	14	<.1	<.1	2	<2		5		32
2091	64 56 18	147 30 49	96	3	65	<.1	0.3	5	<2		2		7
2092	64 56 15	147 30 54	59	7	9	<.1	0.2	5	<2		3		250
2093	64 56 29	147 31 34	209	54	53	0.7	1.6	9	<2		675		62
2094	64 56 29	147 31 35	152	4	79	0.2	0.1	7	<2		1440		67
2095	64 56 29	147 31 35	83	4	68	0.2	<.1	20	<2		>2000		53
3165	64 59 57	147 36 34	144	6	13	<0.1	0.1		4		2	20	52
3201	64 57 27	147 37 23	81	9	98	<.1	0.1	5	<2	ND	2		12
3202	64 57 28	147 37 24	106	4	81	<.1	0.1	11	<2	ND	2		ND
3622	64 59 47	147 54 18	26	7	257	<0.1	0.1		503			25	62
3687	64 56 48	147 32 23	136	7	56	<.1	<.1	13	<1				
3688	64 56 47	147 32 17	56	27	53	<.1	<.1	16	2				
3689	64 56 30	147 34 35	65	1380	46	<.1	1.5	18	113				
3690	64 56 17	147 35 50	62	20	37	<.1	<.1	4	2				
3691	64 54 51	147 38 43	79	8	16	<0.1	0.1		1				
3692	64 54 47	147 39 5	78	36	6	0.3	0.4		4				
3693	64 54 42	147 38 54	116	3	3	2.9	0.9		<1				
3694	64 55 2	147 40 44	122	6	59	0.8	0.8		31				
3695	64 55 1	147 41 58	830	250	28	1.2	37.1		62				
3696	64 55 3	147 41 40	76	8	76	<0.1	0.4		<1				
3697	64 54 57	147 42 48	86	33	73	0.1	0.1		10				

Table 6 (cont.)

-23-