

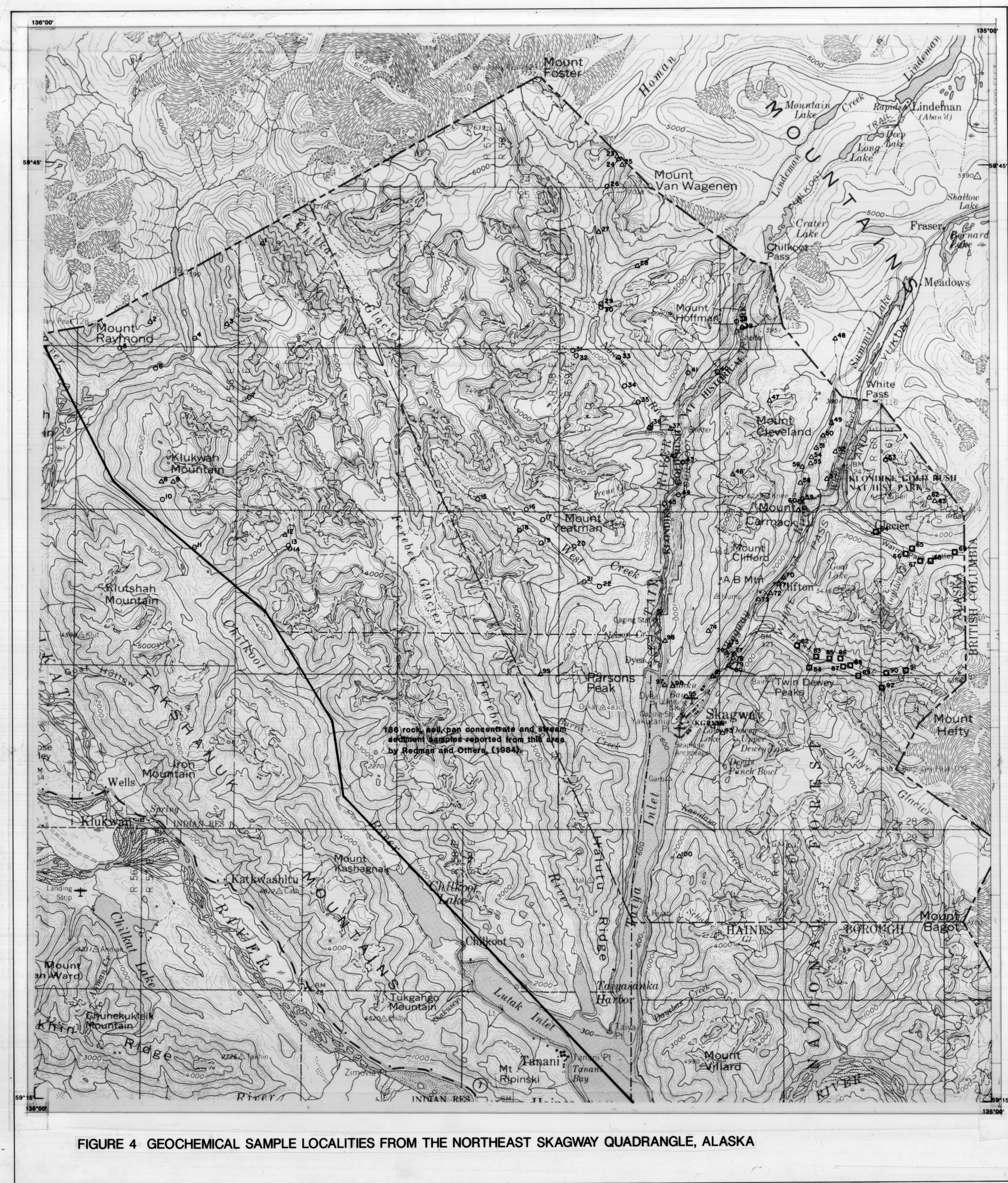


FIGURE 4 GEOCHEMICAL SAMPLE LOCALITIES FROM THE NORTHEAST SKAGWAY QUADRANGLE, ALASKA

Base from U.S. Geological Survey 1:250,000
Skagway, Alaska-Canada Quadrangle, 1961.

DGG's publications are available at Alaska National Bank of the North
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Table 3. Geochemical Analyses of Selected Stream-Sediment and Pan Concentrate Localities in Northeast Skagway Quadrangle, Alaska.

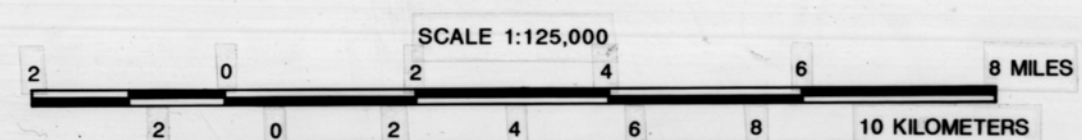
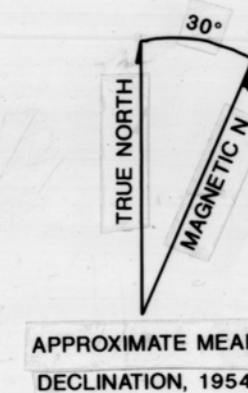
All values in ppm, except for gold (ppb).

Map no.	Sample no.	Name or Location	Sample Type	Ag	As	Au	Ba	Ca	Co	Cr	Cu	Mo	Pb	Sn	Th	U	V	Zn
4	7814	Upper Chilkat R.	Stream Sed	<5	<2	<10	1300	8	40	13	<5	18	<2	8.5	3.7	<3	80	
5	7812	Upper Chilkat R.	Stream Sed	<5	<2	<10	1500	9	34	9	<5	12	<2	9.1	3.9	<3	40	
6	7813	Upper Chilkat R.	Stream Sed	<5	<2	<10	1700	5	26	<5	<5	16	<2	21.6	<3	<3	40	
7	7815	Upper Chilkat R.	Stream Sed	<5	13	<10	1200	14	47	34	<5	18	<2	6.8	3.9	4	110	
10	7808	Klukuh Mt.	Stream Sed	<5	3	<10	1600	4	18	10	<5	14	<2	8.6	5.4	<3	20	
11	7811	Klukuh Mt.	Stream Sed	<5	5	<10	1500	7	30	10	<5	12	<2	16.0	10.6	<3	60	
13	7810	Upper Chilkoot R.	Stream Sed	<5	<2	<10	1200	5	15	8	<5	10	<2	10.0	4.5	<3	30	
14	7809	Upper Chilkoot R.	Stream Sed	<5	<2	<10	1300	6	26	10	<5	12	<2	13.0	9.3	3	40	
15	7807	West Creek	Stream Sed	<5	2	<10	1400	5	13	2	<5	14	<2	6.4	2.2	<3	70	
16	7774	West Creek	Stream Sed	<5	<2	<10	1200	4	5	6	<5	12	<2	5.5	13.0	<3	30	
17	7775	West Creek	Stream Sed	<5	<2	<10	1200	4	10	<1	<5	12	<2	3.6	1.4	<3	50	
18	7861	West Creek	Stream Sed	<5	<2	<10	800	3	10	<1	<5	16	<2	18.0	7.1	<3	30	
19	7805	West Creek	Stream Sed	<5	2	<10	1600	5	14	3	<5	14	<2	8.0	2.9	<3	60	
20	7804	West Creek	Stream Sed	<5	4	<10	1800	8	11	1	<5	16	<2	5.2	3.1	<3	120	
21	7805	West Creek	Stream Sed	<5	<2	<10	400	2	4	3	<5	14	<2	2.7	0.9	<3	40	
22	7806	West Creek	Stream Sed	<5	<2	<10	500	4	2	3	<5	16	<2	1.8	1.3	<3	40	
26	7765	Nourse R.	Stream Sed	<5	20	<10	1100	4	11	4	<5	10	<2	7.3	3.4	<3	70	
29	7817	Nourse R.	Stream Sed	<5	5	<10	1800	13	33	18	<5	8	<2	13.0	3.0	3	130	
30	7765	Nourse R.	Stream Sed	<5	<2	<10	1300	2	6	3	<5	20	<2	7.2	2.8	<3	50	
30	7764	Nourse R.	Stream Sed	<5	2	<10	1400	3	5	3	<5	16	<2	8.7	3.0	<3	30	
31	7766	Nourse R.	Stream Sed	<5	2	<10	1100	9	54	5	<5	16	<2	5.4	1.7	<3	30	
32	7767	Nourse R.	Stream Sed	<5	<2	<10	110	6	33	1	<5	<2	<2	6.8	1.2	<3	30	
33	7768	Nourse R.	Stream Sed	<5	<2	<10	1800	8	28	4	<5	18	<2	8.8	3.9	<3	30	
34	7770	Nourse R.	Stream Sed	<5	<2	<10	1300	16	17	53	<5	18	<2	6.1	1.0	<3	20	
35	7770	Nourse R.	Stream Sed	<5	<2	<10	1100	18	130	16	<5	16	<2	10.0	2.5	<3	110	
36	7759	Nourse R.	Stream Sed	<5	<2	<10	1300	6	13	4	<5	16	<2	11.0	4.4	<3	50	
38	7762	Upper Taiya R.	Stream Sed	<5	<2	<10	1200	5	11	1	<5	16	<2	6.0	2.6	<3	40	
39	7761	Upper Taiya R.	Stream Sed	<5	<2	<10	800	3	10	<1	<5	16	<2	18.0	7.1	<3	30	
40	7760	Upper Taiya R.	Stream Sed	<5	2	<10	1400	5	38	11	<5	20	<2	22.0	10.4	3	40	
41	7758	Upper Taiya R.	Stream Sed	<5	2	<10	1600	5	14	4	<5	16	<2	11.0	4.4	<3	50	
42	7754	Upper Taiya R.	Stream Sed	<5	2	<10	1700	10	52	23	<5	14	<2	8.6	3.2	<3	70	
43	7757	Upper Taiya R.	Stream Sed	<5	3	<10	1300	6	38	10	<5	16	<2	4.3	3.2	<3	60	
44	7755	Upper Taiya R.	Stream Sed	<5	2	<10	1100	12	61	21	<5	10	<2	4.8	3.2	<3	80	
45	7754	Upper Taiya R.	Stream Sed	<5	4	<10	1600	11	53	19	<5	12	<2	8.1	3.5	<3	90	
49	7771	Skagway Road	Stream Sed	<5	<2	<10	1700	2	6	4	<5	20	<2	6.0	3.1	<3	20	
50	7772	Skagway Road	Stream Sed	<5	10	<10	1400	13	71	16	<5	22	<2	10.0	5.0	<3	90	
54	7736	Warm Pass Valley	Stream Sed	<5	<2	<10	1000	2	6	1	<5	20	<2	12.0	5.9	<3	30	
64	7737	Warm Pass Valley	Stream Sed	<5	<2	<10	800	1	8	<1	<5	16	<2	7.1	3.5	<3	20	
65	7734	Warm Pass Valley	Pan Conc.	<5	2	<10	1800	3	59	2	<5	18	<2	200.0	80.0	11	60	
66	7731	Warm Pass Valley	Stream Sed	<5	<2	<10	1000	4	11	3	<5	18	<2	10.0	3.5	6	30	
66	7732	Warm Pass Valley	Pan Conc.	<5	3	<10	800	6	36	3	<5	30	<2	162.0	36.1	20	40	
67	7729	Warm Pass Valley	Stream Sed	<5	<2	<10	1500	4	16	1	<5	16	<2	15.0	5.8	4	30	
67	7730	Warm Pass Valley	Pan Conc.	<5	3	<10	1100	5	16	<1	<5	8	<2	130.0	53.8	41	30	
68	7727	Warm Pass Valley	Stream Sed	<5	<2	<10	1300	6	13	1	<5	14	<2	5.1	2.5	<3	70	
68	7728	Warm Pass Valley	Pan Conc.	<5	<2	<10	1100	10	36	1	<5	12	<2	57.0	19.3	44	50	
69	7725	Warm Pass Valley	Stream Sed	<5	<2	<10	1000	2	7	<1	<5	16	<2	7.4	3.4	<3	30	
69	7726	Warm Pass Valley	Pan Conc.	<5	<2	<10	800	11	180	<1	<5	<2	110.0	133.0	27	<30		
82	7721	East Fork	Stream Sed	<5	<2	<10	1400	7	21	6	<5	22	<2	9.8	2.8	<3	70	
82	7722	East Fork	Pan Conc.	<5	2	<10	1500	7	21	6	<5	30	<2	36.0	6.3	10	80	
83	7719	East Fork	Stream Sed	<5	<2	<10	1500	7	26	4	<5	12	<2	14.0	4.1	<3	60	
83	7720	East Fork	Pan Conc.	<5	2	<10	1400	7	22	5	<5	16	<2	35.0	13.5	5	30	
84	7723	East Fork	Stream Sed	<5	<2	<10	1000	5	6	<1	<5	8	<2	7.4	1.6	<3	40	
85	7717	East Fork	Pan Conc.	<5	3	<10	800	11	25	5	<5	10	<2	10.0	26.7	7	70	
85	7717	East Fork	Stream Sed	<5	<2	<10	1600	7	19	4	<5	18	<2	8.7	2.6	<3	80	
86	7718	East Fork	Pan Conc.	<5	2	<10	2400	11	33	8	<5	18	<2	50.0	11.1	14	60	
86	7714	East Fork	Stream Sed	<5	4	<10	1500	8	13	8	<5	14	<2	7.2	3.4	<3	70	
86	7714	East Fork	Pan Conc.	<5	<2	<10	1400	6	14	6	<5	14	<2	18.0	4.2	<3	30	
87	7715	East Fork	Stream Sed	<5	<2	<10	1500	7	15	5	<5	18	<2	8.6	2.9	<3	60	
87	7716	East Fork	Pan Conc.	<5	5	<10	1100	10	20	6	<5	30	<2	41.0	7.4	4	60	
88	7711	East Fork	Stream Sed	<5	<2	<10	1700	5	22	3	<5	14	<2	7.0	2.2	<3	50	
88	7712	East Fork	Pan Conc.	<5	4	<10	1300	6	24	6	<5	34	<2	48.0	9.6	5	30	
89	7707	East Fork	Stream Sed	<5	2	<10	1300	8	21	6	<5	20	<2	7.5	3.0	<3	90	
89	7708	East Fork	Pan Conc.	<5	3	<10	1300	8	22	8	<5	14	<2	33.0	5.3	4	60	
90	7703	East Fork	Stream Sed	<5	<2	<10	1700	7	11	5	<5	110	<2	6.7	1.2	<3	120	
90	7704	East Fork	Pan Conc.	<5	<2	<10	1200	6	18	5	<5	18	<2	20.0	2.9	18	40	
91	7701	East Fork	Stream Sed	<5	2	<10	2000	8	32	3	<5	16	<2	8.3	2.3	<3	60	
91	7702	East Fork	Pan Conc.	<5	<2	<10	2200	7	25	8	<5	38	<2	9.0	2.1	3	90	
92	7705	East Fork	Stream Sed	<5	2	<10	1300	5	14	2	<5	12	<2	4.0	2.6	<3	30	
92	7706	East Fork	Pan Conc.	<5	0	<10	1300	8	28	8	<5	<2	<2	62.0	64.3	9	50	

Analyses by Nuclear Activation Analyses, Inc. by direct irradiation instrumental neutron activation method.

RECONNAISSANCE GEOCHEMISTRY

This sheet presents geochemical results from 54 stream-sediment, 17 pan concentrate, and 62 rock samples collected at 100 localities in the map area during 1986 and 1987 as part of a cooperative project of the Alaska Division of Geological and Geophysical Surveys and the U.S. Bureau of Mines to evaluate the mineral resources of the Skagway subdistrict of the Juneau Mining District (fig. 4, tables 3 and 4). The area outlined on this sheet in the southwest part of the map is where Redman and others (1984) have previously presented data for 133 stream-sediment, 12 pan-concentrate, 3 soil, and 20 rock samples (fig. 4). Bailey and others (1985), report reconnaissance stream-sediment and heavy-mineral-concentrate samples to the south of the map area. Clough (1989) reports a summary of the mineral resources of the map area.



CONTOUR INTERVAL 200 FEET
DATUM MEAN SEA LEVEL

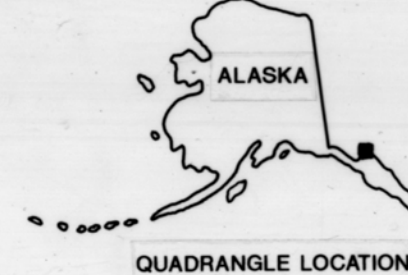


Table 4. Geochemical Analyses of Selected Rock Sample Localities in Northeast Skagway Quadrangle, Alaska.

All values in ppm, except for gold (ppb).

Map no.	Sample no.	Name or Location	Sample type	Sample lithology	Ag	As	Au	Ba	Ca	Co	Cr	Cu	Mo	Pb	Sn	Th	U	V	Zn
1*		Upper Chilkat R.	Select	Qtz monzonite	<0.5	-	<1	911	-	<10	12	-	16	-	-	-	-	-	71
2	7820	Upper Chilkat R.	Select	Gneiss w sulfides	<5	6	<10	400	10	52	11	<5	8	<2	7.8	2.8	<3	50	
3	7819	Upper Chilkat R.	Select	Gneiss w sulfides	<5	<2	<10	2000	3	<2	36	21	14	<2	6.9	2.0	<3	20	
8	7822	Klukuh Mt.	Floot	Skarn w gneiss	<5	9	<10	<150	21	120	220	11	8	<22	1.1	5.2	7	240	
9	7821	Klukuh Mt.	Select	Gneiss w sulfides	<5	<2	<10	1500	9	24	22	<5	26	<2	4.6	4.6	4	71	
12**	2648	Upper Chilkoot R.	Select	Fe-st Biotite Gneiss	0.4	-	-	<1940	13	5	3	20	-	-	-	-	-	-	50
13	7698	Van Wagonen	Chip	Quartzite	11	<5	<10	1400	3	3	20	<5	10	100	120	1.7	<5	30	
24	7699	Van Wagonen	Chip	Quartz Porphyry	<5	<3	<10	900	2	4	<1	<5	20	8	13.0	4.9	<3	30	
25	7697	Van Wagonen	Chip	Porphyritic Granite	<5	<5	<10	1500	4	4	<1	<5	12	2	15.0	2.4	<3	30	
25	7698	Van Wagonen	Chip	Lacite Dike	<5	<4	<10	500	2	5	7	<5	22	<4	14.0	5.8	<3	30	
27	7675	Kourse R.	Select	Gneiss	<5	<3	<10	1400	3	3	<5	<5	10	<2	5.4	4.6	<3	20	
28	7674	Kourse R.	Select	Applitic Dike	<5	<2	<10	500	1	<2	<1	<5	24	<2	<9.9	3.3	<3	30	
36	7616	Kourse R.	Chip	??	<5	<2	<10	1400	20	73	47	<5	18	2	21.0	2.8	<3	100	
37	7818	Kourse R.	Select	??	<5	7	<10	1300	11	69	69	<5	10	<2	<11.0	3.3	<3	60	
46	7615	St. Carmack	Channel	Biocitic Schist	<5	<2	<10	700	34	340	83	<5	280	<2	6.8	3.6	270	550	
47	7617	St. Carmack	Channel	Biocitic Schist	<5	<2	<10	3100	2	19	<5	<5	18	<2	<11.0	2.4	<3	60	
47	8419	St. Carmack	Select	Applitic Dike	<5	<2	<10	700	1	6	7	<5	27	3	22.0	12.6	<3	60	
48	7620	White Pass	Select	Granite	<5	<2	<10	1200	1	<2	<1	<5	18	<2	<9.9	2.0	<3	30	
49	7741	Skagway Road	Select	Shear w gneiss	<5	2	<10	2000	9	4	<1	<5	22	<2	1.5	1.3	<3	100	
50	8441	Skagway Road	Chip	Quartzite	<5	<10	<40	10	51	20	<5	<5	10	<2	12.0	2.4	<3	30	
51	8443	Skagway Road	Select	Quartz-Calcite Vein	70	24	2600	1200	6	140	2	7	33	<4	3.8	1.6	<3	40	
51	8443	Skagway Road	Select	Quartzdiorite	<5	<2	<10	900	5	89	6	5	33	<2	13.0	4.1	<3	70	
52	7662	Inspiration Mine	Select	Skarn	27	<2	<10	200	12	13	1500	12	<4000	660	10.0	1.8	12	24000	
53	7663	Inspiration Mine	Chip	Skarn	5	<2	<10	<150	7	35	8	<5	280	<2	6.8	3.6	270	550	
53	7681	Inspiration Mine	Channel	Diorite	<5	<2	<10	1300	2	19	<5	<5	18	<2	<11.0	2.4	<3	60	
53	7682	Inspiration Mine	Channel	Sheared Diorite	<5	4	<10	1000	8	24	<1	<5	22	6	8.9	7.1	<3	150	
53	7683	Inspiration Mine	Channel	Skarn	<5	<3	<10	1200	12	24	13	<5	300	38	8.0	5.3	<3	350	
53	7684	Inspiration Mine	Channel	Skarn	<5	5	<10	1400	10	51	20	<5	10	<2	12.0	2.4	<3	30	
53	7685	Inspiration Mine	Channel	Skarn	<5	<10	<1100	13	29	75	11	7200	360	19.0	4.7	<3	850		
53	7686	Inspiration Mine	Select	Quartz-feldspar vein	<5	3	20	1	<2	<20	<5	3	6	3	28.0	8.1	<3	240	
54	8444	Skagway Road	Select	Quartz-Calcite Vein	<5	<3	<10	1100	3	140	6	5	10	3	5.0	1.9	<3	30	
55	7742	Skagway Road	Select	Quartz-Calcite Vein	220	20	2300	300	5	5	7	6	180	18	4.9	2.3	<3	310	
56	7661	Inspiration Mine	Select	Gneiss	<5	<2	<10	150	2	<2	<5	<5	10	<2	8.3	3.9	<3	110	
56	7661	Inspiration Mine	Chip	Skarn	<5	<2	720	<150	25	10	800	10	10	<4	3.2	6.8	<3	110	
58	7740	Skagway Road	Select	Skarn	9	38	10	700	7	6	60	<5	44	<2	6.0	5.0	<3	50	
59	7672	Skagway Road	Select	Granite	<5	<2	<10	600	1	3	<1	<5	26	<2	14.0	5.3	<3	30	
62	8425	W. Mann Pass	Select	Mafic Dike	<5	<2	<10	900	33	170	25	<5	7	5	3.5	0.9	<3	30	
63	7735	White Pass	Select	Gneiss	<5	<2	<10	1000	13	35	110	14	300	<2	8.8	4.1	12	230	
70	7695	Clifton	Select	Siliceous Granite	<5	<2	<10	800	1	2	<1	<5	36	<2	15.0	5.1	<3	40	
71	7694	Clifton	Select	Diorase Dike	<5	<2	<10	100	29	120	8	<5	8	<2	<2.0	1.0	<3	60	
72	7693	Clifton	Channel	Sheared Granite	<5	<2	<10	1200	3	15	<2	<5	20	8	17.0	9.8	<3	60	
73	7743	White Pass Road	Select	Altered Dike	<5	<2	<10	2600	7	8	<2	<5	10	<2	12.0	2.4	<3	30	
73	7744	White Pass Road	Select	Granite	<5	<2	<10	2800	2	19	<5	<5	18	<2	10.0	4.1	<3	60	
74	7678	Ab Mountain	Select	Granodiorite	<5	<2	<10	4500	3	<2	<1	<5	18	<4	8.6	1.9	<3	40	
74	7679	Ab Mountain	Select	Biocitic Gneiss	<5	<2	<10	22000	3	160	25	<5	<2	<4	5.5	6.4	<3	110	
75	7609	Skagway Road	Chip	Biocitic Gneiss	<5	<2	<10	600	17	44	150	<5	<2	<5	2.2	2.2	<3	50	
76	7675	Kourse R.	Select	Felsic Dike	<5	<2	<10	<150	1	3	<1	<5	28	<2	<9.9	3.3	<3	30	
77	7613	White Pass RR	Channel	Felsic Dike	<5	<2	<10	<150	1	3	<1	<5	28	<2	<9.9	3.3	<3	30	
78	7612	White Pass RR	Channel	Felsic Dike	<5	<2	<10	200	2	13	<1	<5	50	<2	16.0	7.0	<3	180	
79	7611	Skagway R.	Chip	Pyrrhotitic Skarn	<5	<2	<10	2000	9	84	12	<5	18	<4	11.0	4.2	<3	60	
80	7610	Skagway R.	Floot	Pegmatite	<5	<2	<10	900	3	7	<1	<5	38	<2	6.7	10.5	<3	50	
81	7608	Kenai	Select	Gneiss	<5	<2	<10	1400	10	51	20	<5	10	<2	12.0	2.4	<3	30	
93	7544	Dewey Lakes Trail	Chip	Quartz Monzonite	<5	<2	<10	2400	4	<2	<5	<5	12	<2	5.9	1.1	<3	60	
94	7545	Dewey Lakes Trail	Chip	Mafic Dike	<5	<2	<10	1800	23	120	20	5	18	<2	<3.8	1.4	<3	120	
95	7546	Dewey Road	Chip	Rhyolite	<5	<2	<10	<150	1	<2	<2	<5	22	<2	12.0	5.0	<3	60	
95	7547	Dewey Road	Chip	Rhyolite	<5	<2	<10	<150	1	8	<1	<5	18	<2	13.0	5.1	<3	60	
96	7607	Dewey Road	Select	Granite	<5	<2	<10	1800	5	7	<1	<5	18	<2	3.2	1.0	<3	60	
96	7606	Dewey Road	Select	Granite	<5	<2	<10	1800	5	7	<1	<5	18	<2	4.9	1.0	<3	90	
97	7605	Dewey Road	Select	Granodiorite	<5	<2	<10	1700	5	17	<1	<5	16	<2	9.1	0.7	<3	60	
98	7604	Dewey Road	Select	Granodiorite	<5	<2	<10	1700	6	23	<1	<5	12	<2	7.1	1.4	<3	60	
99	7614	Burro Creek	Chip	Quartz Vein	<5	<2	<10	1000	1	1	<2	<5	21	<2	7.5	2.1	<3	60	
100	7676	Burro Creek	Chip	Quartz Vein	<5	<2	<10	2000	3	<2	<1	<5	18	<2	5.7	2.3	<3	60	
100	7677	Schubert Glacier	Chip	Quartz Diorite	<5	<2	<10	1800	4	3	<1	<5	18	<2	5.2	1.0	<3	60	