ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS

ANALYSES OF STREAM-SEDIMENT SAMPLES SURVEY PASS C-6 QUADRANGLE

OPEN FILE REPORT 65

ANALYTICAL METHOD			ATOMIC ABSORPTION SPECTROPHOTOMETRY							
SAMPLE TYPE	MAP NO.	FIELD NUMBER	AU (PPM)	AG (PPM)	CU (PPM)	PB (PPM)	ZN (PPM)	AS (PPM)	HG (PPM)	SN (PPM)
STRM SD	1	71Z137	NA	NA	5	50	10	NA	NA	NA
	2	71Z136	NA	NA	5	45	15	NA	NA	NA
	3	71Z138	NA	NA	20	15	105	NA	NA	NA
	4	71Z139	NA	NA	5	40	10	NA	NA	NA
	5	71Z140	NA	NA	5	40	10	NA	NA	NA
	6	71R150	NA	NA	30	30	100	NA	NA	NA
	7	71R151	NA	NA	30	20	50	NA	NA	NA
	8	71R152	NA	NA	30	50	130	NA	NA	NA
	9	71R153	NA	NA	20	45	130	NA	NA	NA
	10	71Z141	NA	NA	35	30	90	NA	NA	NA
	11	71P234	NA	NA	15	40	65	NA	NA	NA
	12	71P233	NA	NA	35	30	110	NA	NA	NA
	13	71R235	NA	NA	5	20	20	NA	NA	NA
	14	71Z232	NA	NA	5	35	10	NA	NA	NA
	15	71R234	NA	NA	15	25	25	NA	NA	NA
	16	71R233	NA	NA	20	25	45	NA	NA	NA
	17	71Z231	NA	NA	10	35	35	NA	NA	NA
	18	71Z230	NA	NA	5	40	10	NA	NA	NA
	19	71Z229	NA	NA	20	25	35	NA	NA	NA
	20	71P209	NA	NA	40	10	50	NA	NA	NA
	21	71P210	NA	NA	35	20	65	NA	NA	NA
	22	71P211	NA	NA	25	10	55	NA	NA	NA
CONTINENTAL CRUSTAL AVE			L0.05	0.07	55	12.5	70	1.8	0.08	2
BACKGROUND					27	18.5	75			
THRESHOLD					120	26.5	215			

	SEMIQUANTITATIVE EMISSION SPECTROGRAPHY														
MAP NO.	CU (PPM)	PB (PPM)	ZN (PPM)	MO (PPM)	AG (PPM)	CO (PPM)	CR (PPM)	NI (PPM)	MN (PPM)	TI (PPM)	FE (PCT)	MG (PCT)	CA (PCT)	BA (PPM)	SR (PPM)
1	2	L 0.5	NA	L 0.2	L 0.1	L 0.2	L 0.5	L 0.5	200	NA	0.5	2	30	L 2	1000
2	5	L 0.5	NA	L 0.2	L 0.1	10	L 0.5	5	200	NA	2	1	30	50	500
3	20	20	NA	10	L 0.1	20	50	20	500	NA	2	0.5	10	500	200
4	5	L 0.5	NA	L 0.2	L 0.1	5	L 0.5	5	200	NA	0.2	2	30	L 2	1000
5	10	L 0.5	NA	L 0.2	L 0.1	5	10	10	200	NA	1	2	30	50	500
6	20	20	NA	10	L 0.1	20	100	50	500	NA	2	1	10	500	50
7	50	20	NA	5	L 0.1	20	100	50	2000	NA	5	0.5	10	500	100
8	20	10	NA	10	L 0.1	20	50	20	500	NA	5	1	10	200	200
9	20	20	NA	5	L 0.1	20	50	20	1000	NA	5	2	20	200	200
10	50	20	NA	2	L 0.1	20	100	50	2000	NA	2	1	20	1000	200
11	10	5	NA	5	L 0.1	L 0.2	20	20	200	NA	1	1	30	1000	1000
12	50	20	NA	10	L 0.1	20	50	50	1000	NA	5	5	20	500	500
13	5	L 0.5	NA	L 0.2	L 0.1	L 0.2	L 0.5	5	100	NA	0.5	2	30	L 2	1000
14	2	L 0.5	NA	L 0.2	L 0.1	L 0.2	L 0.5	L 0.5	100	NA	0.5	1	20	L 2	500
15	10	10	NA	2	L 0.1	10	50	20	200	NA	2	1	20	100	500
16	20	20	NA	2	L 0.1	10	50	20	500	NA	2	2	20	500	500
17	10	L 0.5	NA	L 0.2	L 0.1	5	50	10	200	NA	2	1	30	500	500
18	2	L 0.5	NA	L 0.2	L 0.1	5	20	10	200	NA	0.5	1	30	50	500
19	10	20	NA	2	L 0.1	10	100	20	500	NA	2	1	20	200	200
20	50	20	NA	5	L 0.1	20	100	50	500	NA	5	0.5	2	500	L 2
21	50	20	NA	10	L 0.1	20	100	50	500	NA	5	2	20	500	100
22	20	20	NA	5	L 0.1	20	100	50	1000	NA	10	1	1	500	200
CONTINENTAL CRUSTAL AVE	55	12.5	70	1.5	0.07	25	100	75	950	5700	5.6	2.3	4.1	425	375

	SEMIQUANTITATIVE EMISSION SPECTROGRAPHY														
MAP NO.	B (PPM)	BE (PPM)	SN (PPM)	W (PPM)	ZR (PPM)	LA (PPM)	NB (PPM)	SC (PPM)	Y (PPM)	V (PPM)	AS (PPM)	SB (PPM)	BI (PPM)	CD (PPM)	AU (PPM)
1	L 0.2	L 0.1	L 0.1	L 20	NA	NA	NA	L 0.1	NA	10	NA	L 20	NA	NA	NA
2	5	L 0.1	L 0.1	L 20	NA	NA	NA	L 0.1	NA	20	NA	L 20	NA	NA	NA
3	20	1	L 0.1	L 20	NA	NA	NA	10	NA	50	NA	L 20	NA	NA	NA
4	L 0.2	L 0.1	L 0.1	L 20	NA	NA	NA	L 0.1	NA	10	NA	L 20	NA	NA	NA
5	5	L 0.1	L 0.1	L 20	NA	NA	NA	L 0.1	NA	20	NA	L 20	NA	NA	NA
6	50	1	L 0.1	L 20	NA	NA	NA	20	NA	100	NA	L 20	NA	NA	NA
7	20	1	L 0.1	L 20	NA	NA	NA	10	NA	50	NA	L 20	NA	NA	NA
8	20	1	L 0.1	L 20	NA	NA	NA	10	NA	50	NA	L 20	NA	NA	NA
9	20	1	L 0.1	L 20	NA	NA	NA	10	NA	50	NA	L 20	NA	NA	NA
10	20	L 0.1	L 0.1	L 20	NA	NA	NA	20	NA	50	NA	L 20	NA	NA	NA
11	5	L 0.1	L 0.1	L 20	NA	NA	NA	L 0.1	NA	50	NA	L 20	NA	NA	NA
12	20	L 0.1	L 0.1	L 20	NA	NA	NA	5	NA	100	NA	L 20	NA	NA	NA
13	L 0.2	L 0.1	L 0.1	L 20	NA	NA	NA	L 0.1	NA	10	NA	L 20	NA	NA	NA
14	L 0.2	L 0.1	L 0.1	L 20	NA	NA	NA	L 0.1	NA	10	NA	L 20	NA	NA	NA
15	10	L 0.1	L 0.1	L 20	NA	NA	NA	5	NA	20	NA	L 20	NA	NA	NA
16	20	1	L 0.1	L 20	NA	NA	NA	10	NA	50	NA	L 20	NA	NA	NA
17	5	L 0.1	L 0.1	L 20	NA	NA	NA	L 0.1	NA	50	NA	L 20	NA	NA	NA
18	5	L 0.1	L 0.1	L 20	NA	NA	NA	L 0.1	NA	20	NA	L 20	NA	NA	NA
19	20	1	L 0.1	L 20	NA	NA	NA	10	NA	50	NA	L 20	NA	NA	NA
20	50	1	L 0.1	L 20	NA	NA	NA	20	NA	100	NA	L 20	NA	NA	NA
21	20	L 0.1	L 0.1	L 20	NA	NA	NA	20	NA	100	NA	L 20	NA	NA	NA
22	50	1	L 0.1	L 20	NA	NA	NA	20	NA	100	NA	L 20	NA	NA	NA
CONTINENTAL CRUSTAL AVE	10	2.8	2	1.5	165	25	20	22	33	135	1.8	0.2	0.17	0.2	L0.05

MAP NO.	CREEK WIDTH (FT)	SAMPLING SITE REL. CRK LEVEL	RELATIVE ORGANIC CONTENT	RELATIVE SEDIMENT SIZE	DEPTH OF SOIL SAMPLE (INCHES)	SAMPLE DESCRIPTION	MAP NO.
1		AT EDGE	MED	SLT-CLAY		MARB90 VQTZ5 UNDIFF5	1
2	2-8	AT EDGE	MED			MARB100	2
3	2-8	AT EDGE	LOW	SLT-CLAY		MARB100	3
4	2-8	AT EDGE	MED	SLT-CLAY		MARB100	4
5	2-8	AT EDGE	MED	SLT-CLAY		MARB100	5
6	2-8	AT EDGE	LOW	SLT-CLAY		CALC SLST60 MARB20 UNDIFF20	6
7	2-8	AT EDGE	LOW	SLT-CLAY		GREEN SHALE50 VQTZ30 MARB5 CALC SCH5	7
8	2-8	AT EDGE	LOW	SLT-CLAY		GREEN SHALE50 VQTZ30 MARB20	8
9	2-8	AT EDGE	LOW	SLT-CLAY		SHALE50 VQTZ30 MARB20	9
10	2-8	AT EDGE	MED	SLT-CLAY		MARB60 SH40	10
11	L-2	AT EDGE	LOW	SLT-CLAY		SH60 MARB40	11
12	L-2	ABOVE	LOW	SAND		SH50 MARB50	12
13	2-8	AT EDGE	LOW	SLT-CLAY		MARB60 SLST40	13
14	2-8	AT EDGE	MED	SLT-CLAY		MARB100	14
15	8-20	AT EDGE	LOW	SLT-CLAY		MARB50 SLST20 SCH20 VQTZ10	15
16		AT EDGE	LOW	SLT-CLAY		MARB70 VQTZ30	16
17	2-8	AT EDGE	MED	SLT-CLAY		MARB80 BLK SCH20	17
18	8-20	AT EDGE	MED	SLT-CLAY		MARB100	18
19	8-20	AT EDGE	MED	SLT-CLAY		MARB100	19
20	L-2	ABOVE	LOW	SLT-CLAY			20
21	L-2	ABOVE	LOW	SLT-CLAY			21
22	2-8	BELOW	LOW	SLT-CLAY			22

Backgrounds and thresholds are computed using standard techniques as discussed in Lepeltier, Claude, 1969, A SIMPLIFIED TREATMENT OF GEOCHEMICAL DATA BY GRAPHICAL REPRESENTATION; Econ. Geol., v. 64, no. 5, p. 538-550.