UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ANALYSES OF ROCK AND STREAM-SEDIMENT SAMPLES FROM THE PRINCE RUPERT QUADRANGLE, SOUTHEASTERN ALASKA

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OPEN-FILE REPORT 78-156-B

Menlo Park, California

1978

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by

R. D. Koch and R. L. Elliott

Introduction

A reconnaissance geochemical sampling program was conducted between 1975 and 1977 in the Ketchikan and Prince Rupert 1:250,000-scale quadrangles, southeastern Alaska. The study was done to assist in a mineral resource evaluation of the area as part of the Alaska Mineral Resource Assessment Program (AMRAP). This report contains the analytical data for all samples collected in the Prince Rupert quadrangle during this study and also includes data from samples collected during U.S. Geological Survey mapping in 1969 and 1970. Data from 117 rock and 206 stream-sediment samples are reported. These samples comprise all of the normal rock and stream-sediment geochemical samples collected during U.S. Geological Survey geological mapping investigations within the Prince Rupert quadrangle through 1977. Brief statistical summaries of the rock and stream-sediment analytical data are included in this report.

Analytical data from geochemical sampling within the Ketchikan quadrangle directly north of the Prince Rupert quadrangle are contained in two companion reports (Koch and Elliott, 1978a, 1978b), and data from the southern portion of the Bradfield Canal quadrangle (north of the Ketchikan quadrangle) in Koch and others (1976). Data from all of the normal U.S. Geological Survey rock and stream-sediment geochemical samples collected in the Ketchikan and Prince Rupert quadrangles are available on magnetic computer tape (Koch, Van Trump, and McDanal, 1978).

Geologic studies in the Ketchikan area

The northeastern portion of the Prince Rupert quadrangle is underlain by Cretaceous granitic rocks of the Coast Range metamorphic-plutonic complex and associated greenschist to amphibolite facies metasedimentary and metavolcanic rocks. A metamorphosed early Paleozoic or older trondhjemite pluton underlies the area between Foggy Bay and Cape Fox. To the west, Duke and Percy Islands are dominated by early Cretaceous ultramafic bodies which intrude metamorphosed sedimentary and volcanic rocks.

The earliest comprehensive discussions of the geology of the Ketchikan area are contained in reports by Wright and Wright (1908) and Buddington and Chapin (1929). Recent discussions of the geology of this area include a report by Hutchison (1970) on the Coast Range metamorphic-plutonic complex in the Prince Rupert region of British Columbia and one by Irvine (1974) on the ultramafic complex on Duke Island.

Recent geologic investigations by the U.S. Geological Survey in the Prince Rupert quadrangle began with reconnaissance mapping in the Prince Rupert D2 and D3 quadrangles in 1969 and 1970. Field studies continued from 1975 to 1977 (Berg, Elliott, and Koch, 1976; Elliott, Smith, and Hudson, 1976; Koch and others, 1977). Reconnaissance mapping of the Ketchikan and Prince Rupert quadrangles has been completed and a geologic map at a scale of 1:250,000 has been published (Berg and others, 1978).

Sampling

Stream-sediment Samples

Stream-sediment samples were generally collected from the finest, most organic-free sediment in the active stream channel. In rare instances where this was not possible, samples were collected from bank or terrace

deposits adjacent to the channel. At sites below the tree line, it was not always possible to collect a sample completely free of organic material and a small number of samples have low to occasionally high organic content. Stream-sediment samples collected from shoreline sites were obtained above highest high tide level whenever possible. Most of the study area is steep and sediment in the resulting swift streams is essentially all detrital material resulting from mechanical, not chemical weathering. The bulk of most stream-sediment samples comprises material ranging in size from very fine sand to pebbles. Samples with a large percentage of silt- and clay-sized material are rare and are generally from areas of low elevation and gentle gradient.

Rock Samples

The rock samples are primarily grab samples chosen to provide data on background values for a lithologic unit. The majority of these samples are representative of the dominant lithologies at the sample site. A lesser number of samples were collected from minor lithologies, known mineralized occurrences, or outcrops that are conspicuously iron-stained or contain visible metallic minerals.

Sample preparation and analytical procedures

Stream-sediment samples were dried and sieved; the -80 mesh (-0.2 mm) fraction was pulverized and a split was analyzed. Rock samples were crushed, a split was pulverized and a split of this material analyzed.

Samples were analyzed by the Branch of Exploration Research of the U.S. Geological Survey for up to 30 elements by the six-step semiquantitative emission spectrographic method (Grimes and Marranzino, 1968), and for gold, copper, lead and zinc by atomic absorption spectrophotometry (Ward and

others, 1969). Some analyses were not performed on all samples. The semi-quantitative spectrographic analyses were performed by E. F. Cooley, K. J. Curry, and C. L. Forn. The atomic absorption analyses were done by D. E. Detra, J. D. Hoffman, A. L. Meier, R. L. Miller, R. M. O'Leary, J. A. Roybal, and R. F. Sanzolone.

Geochemical data

Locations of sample sites are shown on plate I and identified by station numbers. The analytical data for the stream-sediment and rock samples are given in tables 6 and 8 respectively and are identified by station number with a letter appended to the station number to distinguish different samples from the same station. Four stream-sediment samples were re-analyzed as part of a test of analytical variance. These sample numbers appear twice in table 6 along with data for both analyses.

Each rock sample has been assigned a rock type and is labeled in table 8 with a rock name code consisting of a two-letter rock-name symbol which may be followed by one or more two-letter mineral-modifier symbols. An explanation of these rock-name and mineral-modifier codes is listed in table 4 (p. 15).

Analytical Values

Analytical results are reported in tables 6 and 8 as percent of the sample (for spectrographic analyses of Fe, Mg, Ca, and Ti) or as parts per million (ppm) for all other analyses. The minimum limits of determination and the units used to report each analysis are listed in table 1.

A single-letter symbol is used by USGS analysts to indicate that no analysis was performed for an element or that the analytical result is outside the limits of determinability. These symbols (commonly called

Table 1. Lower determination limits and units for analyses performed from 1969 through 1977. S - indicates spectrographic analysis, AA - indicates atomic absorption analysis. The units used to report values for each analytical procedure are listed after the determination limit.

S-Fe--------- .05%	S-Cd----------20 ppm	S-Sr----------100 ppm
S-Mg--------- .02%	S-Co---------- 5 ppm	S-V---------- 10 ppm
S-Ca--------- .05%	S-Cr[1/]--------10 ppm	S-W---------- 50 ppm
S-Ti---------.002%	S-Cu---------- 5 ppm	S-Y---------- 10 ppm
S-Mn---------10 ppm	S-La----------20 ppm	S-Zn----------200 ppm
S-Ag---------.5 ppm	S-Mo---------- 5 ppm	S-Zr---------- 10 ppm
S-As--------200 ppm	S-Nb----------20 ppm	AA-Au[2/]-------.05 ppm
S-Au-------- 10 ppm	S-Ni---------- 5 ppm	AA-Cu--------- .5 ppm
S-B--------- 10 ppm	S-Pb----------10 ppm	AA-Pb--------- 5 ppm
S-Ba-------- 20 ppm	S-Sb---------100 ppm	AA-Zn--------- 5 ppm
S-Be-------- 1 ppm	S-Sc--------- 5 ppm	
S-Bi-------- 10 ppm	S-Sn--------- 10 ppm	

[1/] 5 ppm prior to 1970.

[2/] .02 ppm prior to 1972.

"qualification codes") are used in the statistical summary but some are represented differently in the data tables. An explanation of both forms is listed in table 2. The code T does not appear in these data.

Table 2.--Qualification codes

Qualification code	Form in tables 6 & 8	Explanation
B	--	No analytical data for this analysis.
N	N	Nothing detected by analysis.
L	<	Element detected but below listed value (lower limit of determinability).
G	>	Element detected in amount greater than listed value (upper limit of determinability).
H	(value = 0)	Interference - no valid data.
T		Trace

Because the original computer printout is used in the tables, element symbols are in capital letters; for example, the symbol for iron, Fe, is shown as FE, magnesium, Mg, is shown as MG, and so on. In the tables, the prefix S stands for spectrographic analysis and AA for atomic absorption analysis.

Results from semiquantitative emission spectrographic analyses (also referred to as six-step spectrographic analyses) are reported as the midpoints of geometric class intervals. Midpoints of class intervals and the associated class interval boundaries are listed in table 3. Reported values may be any integral power of ten times one of the listed class interval midpoints.

Table 3. Class intervals of the six-step scale.

Class interval midpoint	Class interval limits	
1.0	0.83	1.2
1.5	1.2	1.8
2.0	1.8	2.6
3.0	2.6	3.8
5.0	3.8	5.6
7.0	5.6	8.3
10.0	8.3	12.0

Precision

Tests have been performed to determine the analytical precision of the six-step semiquantitative spectrographic technique used by the Branch of Exploration Research (Motooka and Grimes, 1976). These tests indicate that the frequency with which values from repeated analyses of the same sample will fall within the class interval containing the "true" value (as measured by the mean of a series of analytical runs) plus or minus one and two adjoining intervals is approximately 83 percent and 96 percent respectively. For example, if a value is reported as 3.0, the probability is .83 that a repeated analysis would be reported as 2.0, 3.0, or 5.0. This study found analytical variance to be consistent for a variety of geologic materials, and to show no appreciable difference between elements or concentration ranges except near the limits of determinability. Another experiment (Johnson and others, 1977) suggests that analytical precision may vary appreciably between elements. Analyses by the atomic absorption methods are not reported on the six-step scale; they are more sensitive and more precise than spectrographic analyses.

Statistical summary

The analytical data from the stream-sediment and rock samples were processed by a computer program known as GEOSUM and the program's output is presented in tables 5 and 7 respectively. For samples which have been re-analyzed, the values listed second in the data tables have been arbitrarily omitted from the statistical summary to reduce bias. The GEOSUM program is designed to summarize and tabulate geochemical data--primarily data from semiquantitative spectrographic analyses. All distributions are treated in terms of the six-step class intervals described above and thus the atomic absorption data are regrouped to fit into these intervals. The program output consists of: (a) a frequency distribution table, histogram, summary of qualified values, range of values and geometric mean and deviation for each element, and (b) a statistical summary for all elements, which includes geometric means and geometric deviations.

The histograms are on a logarithmic scale and are computed using the class intervals of the six-step semiquantitative scale. The histogram bars are composed of X's; each X represents approximately 1 percent of the total number of samples analyzed for that element. Decimal numbers are printed by the computer as powers of 10, for example:

7.0e-01	means	7.0×10^{-1}	or	0.7
7.0e+00	means	7.0×10^{0}	or	7.0
7.0e+01	means	7.0×10^{1}	or	70.0
7.0e+02	means	7.0×10^{2}	or	700.0

The frequency distribution tables, histograms, and statistics for each element were derived using only data values within the range of analytical determination which have been used since 1975. Between 1969 and 1975, the lower limits of determinability were raised for atomic absorption analyses

of Au and for spectrographic analyses of Cr. Unqualified values less than the current determinability limits and all values qualified with N, L, G, or H were ignored in these computations. The resulting frequency tables and statistics are biased and the histograms incomplete.

The summaries at the ends of tables 5 and 7 show which elements have qualified values, as well as the number of values having each type of qualification. The summary also presents a recomputed geometric mean and geometric deviation using a method devised by A. J. Cohen for treating censored distributions. If an element has no qualified data values, the mean and geometric deviation will be the same in both this summary and on the page within the table for the particular element. For elements with qualified data, the estimates of mean and geometric deviation are unbiased in a strict sense only where the data are derived from a log-normal parent population, but experiments have shown that large departures from this requirement do not usually invalidate the results. Acceptance and use of the estimates, however, is the responsibility of the user.

The geometric mean is the antilogarithm of the arithmetic mean of the logarithms of the analyses. It is not an estimate of geochemical abundance but of "central tendency" (or characteristic value) for a frequency distribution that is approximately symmetrical on a logarithmic scale. The geometric mean is useful for characterizing many geochemical distributions. The geometric deviation is the antilogarithm of the standard deviation of the logarithms of the analyses.

For further discussion of geometric mean and geometric deviation and of Cohen's method for censored distributions, see Miesch (1963, 1967).

Bias and variability affecting interpretation

In reviewing the data in tables 6 and 8 and the statistical summary in tables 5 and 7, several sources of bias and variability in the data must be considered. Factors including time limitations, weather, snow and vegetative cover, outcrop exposure, and availability of helicopter landing sites prevented uniform sampling in all areas. Uneven sample density also resulted from more concentrated sampling of some areas which show evidence of mineralization such as iron-staining or visible metallic minerals. This practice has biased the data slightly in favor of samples containing values above true background levels. This applies most strongly to rock samples. For stream-sediment samples the requirement of truly random sampling--that all potential samples have an equal likelihood of being selected--is not met either. In addition, samples were collected from a large area, where lithologic units of various origins or rock types may comprise several dissimilar geochemical populations. No attempt has been made here to group samples on the basis of geological or geochemical affinity. The summary of their values thus provides only a general indication of the trends that may be present.

Values from stream-sediment samples which contain appreciable organic material may be influenced by scavenging. Variability of any value is influenced by many factors including the difficulty of obtaining representative samples of inhomogeneous media, variation in sample preparation and variability inherent in the analytical techniques. It is likely with any large data-set that errors have occurred during recording, key-punching, and editing of the data which have gone undetected. Therefore, high values for a single element or a single site should be considered questionable indicators of bedrock mineralization.

Acknowledgments

We wish to thank several U.S. Geological Survey colleagues for their considerable cooperation and assistance. George Van Trump, Jr., provided invaluable aid by resolving computer-programming problems. Steven K. McDanal and Christine M. McDougal helped locate and collect computer data-files from previous projects and with entry of data into the computer. Michael F. Diggles worked tirelessly proofing enormous lists and cluttered maps.

We also wish to thank Kenneth Eichner of TEMSCO Helicopters who was most generous with his time and advice and volunteered logistical assistance which greatly aided our field efforts. The skillful flying of TEMSCO pilot, Barry Roberts, allowed us to sample this particularly inaccessible terrain. Bud Bodding, captain of M/V MYTIME, went out of his way to help with our fieldwork and guided us safely through several field seasons.

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Table 4. Rock Name and Mineral Modifier Codes

Plutonic Rocks

GR - Granite
QM - Quartz Monzonite
GD - Granodiorite (including trondhjemite)
QD - Quartz Diorite
GB - Gabbro
DI - Diorite
UM - Ultramafic

Metamorphic Rocks

AM - Amphibolite
FV - Felsic Metavolcanics
GG - Granitic Gneiss
GS - Greenschist (mainly chlorite or chlorite-actinolite schist and phyllite)
MB - Marble
MG - Migmatite
MS - Metasediments (locally tuffaceous, including slate, argillite, gray phyllite)
MU - Undivided metamorphic rock
MV - Intermediate or mafic metavolcanics
PN - Paragneiss or schist
QF - Quartzofeldspathic schist or gneiss

Veins

VQ - Quartz vein, pod, lens ...
VN - Vein other than quartz

Dikes and Sills

DG - Granitic
DF - Felsic (not including DG, DP, DQ)
DQ - Quartz Porphoritic
DP - Pegmatitic
DM - Mafic or intermediate composition
DL - Lamprophyre

Other

BS - Basalt
FZ - Fault, shear, gouge or breccia

Mineral Modifiers

BA - Barite
CP - Chalcopyrite
GN - Galena
HM - Hematite
MG - Magnetite
MO - Molybdenite
PY - Pyrite
SL - Sphalerite

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES

TITLE
PRINCE RUPERT STREAM-SEDIMENT

S-AS CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

S-AU CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

S-BI CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

S-CD CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

S-SB CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

THE MAX AND MIN 0.10000e+02 FOR S-SN ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.

S-W CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

AA-AU CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

INST-HG CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

THE FREQUENCY DISTRIBUTIONS AND HISTOGRAMS ON THE FOLLOWING PAGES ARE ON LOGARITHMIC SCALES, AND EMPLOY THE SAME CLASS INTERVALS AS USED IN REPORTING 6-STEP SEMIQUANTITATIVE SPECTROGRAPHIC ANALYSES. IMPORTANT NOTE- THE STATISTICS GIVEN BELOW THE HISTOGRAMS ARE DERIVED ONLY FROM DATA VALUES WITHIN THE RANGES OF ANALYTICAL DETERMINATION, AND ARE, THEREFORE, BIASED IF DATA VALUES QUALIFIED WITH N, L, G, T, OR H CODES ARE PRESENT. SEE LATER SECTION OF OUTPUT FOR STATISTICAL ESTIMATES THAT ARE UNBIASED IN THIS REGARD. THE GEOMETRIC MEAN IS AN ESTIMATE OF "CENTRAL TENDENCY," OR OF A CHARACTERISTIC VALUE, OF A FREQUENCY DISTRIBUTION THAT IS APPROXIMATELY SYMMETRICAL ON A LOG SCALE, AND IS THEREFORE USEFUL FOR CHARACTERIZING MANY GEOCHEMICAL DISTRIBUTIONS. THE GEOMETRIC MEAN IS NOT AN ESTIMATE OF GEOCHEMICAL ABUNDANCE AND IS OF NO VALUE IN ESTIMATING RESERVES OR TOTAL AMOUNTS OF ELEMENTS PRESENT.

THE CUMULATIVE FREQUENCY PERCENTS GIVEN BELOW SHOULD BE PLOTTED AGAINST THE "LOWER" LIMITS TO GIVE THE LEPELTIER-TYPE CUMULATIVE CURVE.

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 1 (S-FE%)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e-02 -	5.6e-02	0	0	0.00	100.00
5.6e-02 -	8.3e-02	0	0	0.00	100.00
8.3e-02 -	1.2e-01	0	0	0.00	100.00
1.2e-01 -	1.8e-01	0	0	0.00	100.00
1.8e-01 -	2.6e-01	0	0	0.00	100.00
2.6e-01 -	3.8e-01	0	0	0.00	100.00
3.8e-01 -	5.6e-01	0	0	0.00	100.00
5.6e-01 -	8.3e-01	0	0	0.00	100.00
8.3e-01 -	1.2e+00	0	0	0.00	100.00
1.2e+00 -	1.8e+00	3	3	1.48	100.00
1.8e+00 -	2.6e+00	13	16	6.40	98.52
2.6e+00 -	3.8e+00	42	58	20.69	92.12
3.8e+00 -	5.6e+00	58	116	28.57	71.43
5.6e+00 -	8.3e+00	28	144	13.79	42.86
8.3e+00 -	1.2e+01	50	194	24.63	29.06
1.2e+01 -	1.8e+01	9	203	4.43	4.43

HISTOGRAM FOR COLUMN 1 (S-FE%)

```
1.5e+00 X
2.0e+00 XXXXXX
3.0e+00 XXXXXXXXXXXXXXXXXXXX
5.0e+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.0e+00 XXXXXXXXXXXXXX
1.0e+01 XXXXXXXXXXXXXXXXXXXXXXXX
1.5e+01 XXXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	3	0	0	203
0.00	0.00			0.00	0.00	

MAXIMUM = 1.50010e+01
MINIMUM = 1.50000e+00
GEOMETRIC MEAN = 5.43644e+00
GEOMETRIC DEVIATION = 1.74688e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 2 (S-MG%)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8e-02 -	2.6e-02	0	0	0.00	100.00
2.6e-02 -	3.8e-02	0	0	0.00	100.00
3.8e-02 -	5.6e-02	0	0	0.00	100.00
5.6e-02 -	8.3e-02	0	0	0.00	100.00
8.3e-02 -	1.2e-01	0	0	0.00	100.00
1.2e-01 -	1.8e-01	0	0	0.00	100.00
1.8e-01 -	2.6e-01	0	0	0.00	100.00
2.6e-01 -	3.8e-01	0	0	0.00	100.00
3.8e-01 -	5.6e-01	3	3	1.48	100.00
5.6e-01 -	8.3e-01	9	12	4.43	98.52
8.3e-01 -	1.2e+00	37	49	18.23	94.09
1.2e+00 -	1.8e+00	61	110	30.05	75.86
1.8e+00 -	2.6e+00	40	150	19.70	45.81
2.6e+00 -	3.8e+00	32	182	15.76	26.11
3.8e+00 -	5.6e+00	15	197	7.39	10.34
5.6e+00 -	8.3e+00	6	203	2.96	2.96

HISTOGRAM FOR COLUMN 2 (S-MG%)

```
5.0e-01 X
7.0e-01 XXXX
1.0e+00 XXXXXXXXXXXXXXXXXX
1.5e+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.0e+00 XXXXXXXXXXXXXXXXXXX
3.0e+00 XXXXXXXXXXXXXXX
5.0e+00 XXXXXXX
7.0e+00 XXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	3	0	0	203
0.00	0.00			0.00	0.00	

MAXIMUM = 7.00000e+00
MINIMUM = 5.00000e-01
GEOMETRIC MEAN = 1.78958e+00
GEOMETRIC DEVIATION = 1.75009e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 3 (S-CA%)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e-02 -	5.6e-02	0	0	0.00	100.00
5.6e-02 -	8.3e-02	0	0	0.00	100.00
8.3e-02 -	1.2e-01	0	0	0.00	100.00
1.2e-01 -	1.8e-01	0	0	0.00	100.00
1.8e-01 -	2.6e-01	0	0	0.00	100.00
2.6e-01 -	3.8e-01	2	2	0.99	100.00
3.8e-01 -	5.6e-01	4	6	1.97	99.01
5.6e-01 -	8.3e-01	2	8	0.99	97.04
8.3e-01 -	1.2e+00	22	30	10.84	96.06
1.2e+00 -	1.8e+00	51	81	25.12	85.22
1.8e+00 -	2.6e+00	42	123	20.69	60.10
2.6e+00 -	3.8e+00	30	153	14.78	39.41
3.8e+00 -	5.6e+00	32	185	15.76	24.63
5.6e+00 -	8.3e+00	12	197	5.91	8.87
8.3e+00 -	1.2e+01	3	200	1.48	2.96
1.2e+01 -	1.8e+01	3	203	1.48	1.48

HISTOGRAM FOR COLUMN 3 (S-CA%)

```
3.0e-01 X
5.0e-01 XX
7.0e-01 X
1.0e+00 XXXXXXXXXX
1.5e+00 XXXXXXXXXXXXXXXXXXXXXXXX
2.0e+00 XXXXXXXXXXXXXXXXXXXX
3.0e+00 XXXXXXXXXXXXXX
5.0e+00 XXXXXXXXXXXXXX
7.0e+00 XXXXXX
1.0e+01 X
1.5e+01 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	3	0	0	203
0.00	0.00			0.00	0.00	

MAXIMUM = 1.50010e+01
MINIMUM = 3.00000e-01
GEOMETRIC MEAN = 2.27364e+00
GEOMETRIC DEVIATION = 2.01479e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 4 (S-TI%)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8e-03 -	2.6e-03	0	0	0.00	100.00
2.6e-03 -	3.8e-03	0	0	0.00	100.00
3.8e-03 -	5.6e-03	0	0	0.00	100.00
5.6e-03 -	8.3e-03	0	0	0.00	100.00
8.3e-03 -	1.2e-02	0	0	0.00	100.00
1.2e-02 -	1.8e-02	0	0	0.00	100.00
1.8e-02 -	2.6e-02	0	0	0.00	100.00
2.6e-02 -	3.8e-02	0	0	0.00	100.00
3.8e-02 -	5.6e-02	0	0	0.00	100.00
5.6e-02 -	8.3e-02	0	0	0.00	100.00
8.3e-02 -	1.2e-01	0	0	0.00	100.00
1.2e-01 -	1.8e-01	1	1	0.49	100.00
1.8e-01 -	2.6e-01	4	5	1.97	99.51
2.6e-01 -	3.8e-01	12	17	5.91	97.54
3.8e-01 -	5.6e-01	37	54	18.23	91.63
5.6e-01 -	8.3e-01	59	113	29.06	73.40
8.3e-01 -	1.2e+00	69	182	33.99	44.33

HISTOGRAM FOR COLUMN 4 (S-TI%)

```
2.0e-01 XX
3.0e-01 XXXXXX
5.0e-01 XXXXXXXXXXXXXXXXX
7.0e-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.0e+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	3	0	21	182
0.00	0.00			0.00	10.34	

MAXIMUM = 1.00000e+00
MINIMUM = 1.50000e-01
GEOMETRIC MEAN = 6.82687e-01
GEOMETRIC DEVIATION = 1.50369e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 5 (S-MN)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 -	1.2e+01	0	0	0.00	100.00
1.2e+01 -	1.8e+01	0	0	0.00	100.00
1.8e+01 -	2.6e+01	0	0	0.00	100.00
2.6e+01 -	3.8e+01	0	0	0.00	100.00
3.8e+01 -	5.6e+01	0	0	0.00	100.00
5.6e+01 -	8.3e+01	0	0	0.00	100.00
8.3e+01 -	1.2e+02	0	0	0.00	100.00
1.2e+02 -	1.8e+02	0	0	0.00	100.00
1.8e+02 -	2.6e+02	1	1	0.49	100.00
2.6e+02 -	3.8e+02	1	2	0.49	99.51
3.8e+02 -	5.6e+02	4	6	1.97	99.01
5.6e+02 -	8.3e+02	10	16	4.93	97.04
8.3e+02 -	1.2e+03	54	70	26.60	92.12
1.2e+03 -	1.8e+03	78	148	38.42	65.52
1.8e+03 -	2.6e+03	36	184	17.73	27.09
2.6e+03 -	3.8e+03	10	194	4.93	9.36
3.8e+03 -	5.6e+03	7	201	3.45	4.43

HISTOGRAM FOR COLUMN 5 (S-MN)

```
       5.0e+02 XX
       7.0e+02 XXXXX
       1.0e+03 XXXXXXXXXXXXXXXXXXXXXXXXXXX
       1.5e+03 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
       2.0e+03 XXXXXXXXXXXXXXXXX
       3.0e+03 XXXXX
       5.0e+03 XXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	3	0	2	201
0.00	0.00			0.00	0.99	

MAXIMUM = 5.00000e+03
MINIMUM = 2.00010e+02
GEOMETRIC MEAN = 1.41439e+03
GEOMETRIC DEVIATION = 1.59337e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 6 (S-AG)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e-01 -	5.6e-01	1	1	0.49	0.97
5.6e-01 -	8.3e-01	1	2	0.49	0.49

HISTOGRAM FOR COLUMN 6 (S-AG)

N	L	H	B	T	G	ANALYTICAL VALUES
200	4	0	0	0	0	2
97.09	1.94			0.00	0.00	

MAXIMUM = 7.00000e-01
MINIMUM = 5.00000e-01
GEOMETRIC MEAN = 5.91608e-01
GEOMETRIC DEVIATION = 1.26861e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 9 (S-B)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 -	1.2e+01	82	82	40.39	58.62
1.2e+01 -	1.8e+01	19	101	9.36	18.23
1.8e+01 -	2.6e+01	9	110	4.43	8.87
2.6e+01 -	3.8e+01	4	114	1.97	4.43
3.8e+01 -	5.6e+01	3	117	1.48	2.46
5.6e+01 -	8.3e+01	1	118	0.49	0.99
8.3e+01 -	1.2e+02	1	119	0.49	0.49

HISTOGRAM FOR COLUMN 9 (S-B)

```
1.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.5e+01 XXXXXXXXX
2.0e+01 XXXX
3.0e+01 XX
5.0e+01 X
7.0e+01
1.0e+02
```

N	L	H	B	T	G	ANALYTICAL VALUES
2	82	0	3	0	0	119
0.99	40.39			0.00	0.00	

MAXIMUM = 1.00010e+02
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 1.25907e+01
GEOMETRIC DEVIATION = 1.55235e+00

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 10 (S-BA)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8e+01 -	2.6e+01	0	0	0.00	100.00
2.6e+01 -	3.8e+01	0	0	0.00	100.00
3.8e+01 -	5.6e+01	1	1	0.49	100.00
5.6e+01 -	8.3e+01	4	5	1.97	99.51
8.3e+01 -	1.2e+02	2	7	0.99	97.54
1.2e+02 -	1.8e+02	9	16	4.43	96.55
1.8e+02 -	2.6e+02	13	29	6.40	92.12
2.6e+02 -	3.8e+02	50	79	24.63	85.71
3.8e+02 -	5.6e+02	41	120	20.20	61.08
5.6e+02 -	8.3e+02	57	177	28.08	40.89
8.3e+02 -	1.2e+03	19	196	9.36	12.81
1.2e+03 -	1.8e+03	6	202	2.96	3.45
1.8e+03 -	2.6e+03	1	203	0.49	0.49

HISTOGRAM FOR COLUMN 10 (S-BA)

```
       7.0e+01 XX
       1.0e+02 X
       1.5e+02 XXXX
       2.0e+02 XXXXXX
       3.0e+02 XXXXXXXXXXXXXXXXXXXXXXXX
       5.0e+02 XXXXXXXXXXXXXXXXXXX
       7.0e+02 XXXXXXXXXXXXXXXXXXXXXXXXXXX
       1.0e+03 XXXXXXXXX
       1.5e+03 XXX
       2.0e+03
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	3	0	0	203
0.00	0.00			0.00	0.00	

MAXIMUM = 2.00010e+03
MINIMUM = 5.00000e+01
GEOMETRIC MEAN = 4.50095e+02
GEOMETRIC DEVIATION = 1.91632e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 11 (S-BE)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e-01 -	1.2e+00	58	58	28.16	32.04
1.2e+00 -	1.8e+00	5	63	2.43	3.88
1.8e+00 -	2.6e+00	0	63	0.00	1.46
2.6e+00 -	3.8e+00	3	66	1.46	1.46

HISTOGRAM FOR COLUMN 11 (S-BE)

```
1.0e+00 XXXXXXXXXXXXXXXXXXXXXXXXXXX
1.5e+00 XX
2.0e+00
3.0e+00 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
60	80	0	0	0	0	66
29.13	38.83			0.00	0.00	

MAXIMUM = 3.00000e+00
MINIMUM = 1.00000e+00
GEOMETRIC MEAN = 1.08400e+00
GEOMETRIC DEVIATION = 1.28209e+00

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 14 (S-CO)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	1	1	0.49	99.51
5.6e+00 -	8.3e+00	1	2	0.49	99.03
8.3e+00 -	1.2e+01	6	8	2.91	98.54
1.2e+01 -	1.8e+01	31	39	15.05	95.63
1.8e+01 -	2.6e+01	68	107	33.01	80.58
2.6e+01 -	3.8e+01	74	181	35.92	47.57
3.8e+01 -	5.6e+01	16	197	7.77	11.65
5.6e+01 -	8.3e+01	6	203	2.91	3.88
8.3e+01 -	1.2e+02	1	204	0.49	0.97
1.2e+02 -	1.8e+02	1	205	0.49	0.49

HISTOGRAM FOR COLUMN 14 (S-CO)

```
1.0e+01 XXX
1.5e+01 XXXXXXXXXXXXXX
2.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
5.0e+01 XXXXXXXX
7.0e+01 XXX
1.0e+02
1.5e+02
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	1	0	0	0	0	205
0.00	0.49			0.00	0.00	

MAXIMUM = 1.50010e+02
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 2.43442e+01
GEOMETRIC DEVIATION = 1.57604e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 15 (S-CR)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 -	1.2e+01	3	3	1.46	99.51
1.2e+01 -	1.8e+01	5	8	2.43	98.06
1.8e+01 -	2.6e+01	5	13	2.43	95.63
2.6e+01 -	3.8e+01	13	26	6.31	93.20
3.8e+01 -	5.6e+01	23	49	11.17	86.89
5.6e+01 -	8.3e+01	47	96	22.82	75.73
8.3e+01 -	1.2e+02	21	117	10.19	52.91
1.2e+02 -	1.8e+02	50	167	24.27	42.72
1.8e+02 -	2.6e+02	7	174	3.40	18.45
2.6e+02 -	3.8e+02	16	190	7.77	15.05
3.8e+02 -	5.6e+02	9	199	4.37	7.28
5.6e+02 -	8.3e+02	5	204	2.43	2.91
8.3e+02 -	1.2e+03	0	204	0.00	0.49
1.2e+03 -	1.8e+03	1	205	0.49	0.49

HISTOGRAM FOR COLUMN 15 (S-CR)

```
1.0e+01 X
1.5e+01 XX
2.0e+01 XX
3.0e+01 XXXXXX
5.0e+01 XXXXXXXXXXX
7.0e+01 XXXXXXXXXXXXXXXXXXXXXXX
1.0e+02 XXXXXXXXXX
1.5e+02 XXXXXXXXXXXXXXXXXXXXXXXX
2.0e+02 XXX
3.0e+02 XXXXXXXX
5.0e+02 XXXX
7.0e+02 XX
1.0e+03
1.5e+03
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	1	0	0	0	0	205
0.00	0.49			0.00	0.00	

MAXIMUM = 1.50010e+03
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 9.84676e+01
GEOMETRIC DEVIATION = 2.44562e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 16 (S-CU)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	9	9	4.37	99.03
5.6e+00 -	8.3e+00	9	18	4.37	94.66
8.3e+00 -	1.2e+01	23	41	11.17	90.29
1.2e+01 -	1.8e+01	36	77	17.48	79.13
1.8e+01 -	2.6e+01	50	127	24.27	61.65
2.6e+01 -	3.8e+01	38	165	18.45	37.38
3.8e+01 -	5.6e+01	16	181	7.77	18.93
5.6e+01 -	8.3e+01	18	199	8.74	11.17
8.3e+01 -	1.2e+02	3	202	1.46	2.43
1.2e+02 -	1.8e+02	1	203	0.49	0.97
1.8e+02 -	2.6e+02	1	204	0.49	0.49

HISTOGRAM FOR COLUMN 16 (S-CU)

```
5.0e+00 XXXX
7.0e+00 XXXX
1.0e+01 XXXXXXXXXXX
1.5e+01 XXXXXXXXXXXXXXXXX
2.0e+01 XXXXXXXXXXXXXXXXXXXXXXXX
3.0e+01 XXXXXXXXXXXXXXXXX
5.0e+01 XXXXXXXX
7.0e+01 XXXXXXXXX
1.0e+02 X
1.5e+02
2.0e+02
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	2	0	0	0	0	204
0.00	0.97			0.00	0.00	

MAXIMUM = 2.00010e+02
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 2.13728e+01
GEOMETRIC DEVIATION = 2.05566e+00

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 17 (S-LA)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8e+01 -	2.6e+01	36	36	17.48	58.25
2.6e+01 -	3.8e+01	30	66	14.56	40.78
3.8e+01 -	5.6e+01	22	88	10.68	26.21
5.6e+01 -	8.3e+01	12	100	5.83	15.53
8.3e+01 -	1.2e+02	12	112	5.83	9.71
1.2e+02 -	1.8e+02	4	116	1.94	3.88
1.8e+02 -	2.6e+02	3	119	1.46	1.94
2.6e+02 -	3.8e+02	0	119	0.00	0.49
3.8e+02 -	5.6e+02	0	119	0.00	0.49
5.6e+02 -	8.3e+02	1	120	0.49	0.49

HISTOGRAM FOR COLUMN 17 (S-LA)

```
       2.0e+01 XXXXXXXXXXXXXXXX
       3.0e+01 XXXXXXXXXXXXXX
       5.0e+01 XXXXXXXXXX
       7.0e+01 XXXXXX
       1.0e+02 XXXXXX
       1.5e+02 XX
       2.0e+02 X
       3.0e+02
       5.0e+02
       7.0e+02
```

N	L	H	B	T	G	ANALYTICAL VALUES
46	40	0	0	0	0	120
22.33	19.42			0.00	0.00	

MAXIMUM = 7.00010e+02
MINIMUM = 2.00000e+01
GEOMETRIC MEAN = 4.06775e+01
GEOMETRIC DEVIATION = 2.00551e+00

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 18 (S-MO)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	4	4	1.94	4.37
5.6e+00 -	8.3e+00	3	7	1.46	2.43
8.3e+00 -	1.2e+01	2	9	0.97	0.97

HISTOGRAM FOR COLUMN 18 (S-MO)

```
5.0e+00 XX
7.0e+00 X
1.0e+01 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
152	45	0	0	0	0	9
73.79	21.84			0.00	0.00	

MAXIMUM = 1.00000e+01
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 6.52492e+00
GEOMETRIC DEVIATION = 1.33355e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 19 (S-NB)

LIMITS LOWER - UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8e+01 - 2.6e+01	2	2	0.97	24.76

HISTOGRAM FOR COLUMN 19 (S-NB)

2.0e+01 X

N	L	H	B	T	G	ANALYTICAL VALUES
100	55	0	0	0	0	51
48.54	26.70			0.00	0.00	

MAXIMUM = 2.00000e+01
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 1.09504e+01
GEOMETRIC DEVIATION = 1.21248e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 20 (S-NI)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	4	4	1.94	99.51
5.6e+00 -	8.3e+00	0	4	0.00	97.57
8.3e+00 -	1.2e+01	19	23	9.22	97.57
1.2e+01 -	1.8e+01	14	37	6.80	88.35
1.8e+01 -	2.6e+01	35	72	16.99	81.55
2.6e+01 -	3.8e+01	36	108	17.48	64.56
3.8e+01 -	5.6e+01	32	140	15.53	47.09
5.6e+01 -	8.3e+01	41	181	19.90	31.55
8.3e+01 -	1.2e+02	10	191	4.85	11.65
1.2e+02 -	1.8e+02	10	201	4.85	6.80
1.8e+02 -	2.6e+02	3	204	1.46	1.94
2.6e+02 -	3.8e+02	0	204	0.00	0.49
3.8e+02 -	5.6e+02	0	204	0.00	0.49
5.6e+02 -	8.3e+02	0	204	0.00	0.49
8.3e+02 -	1.2e+03	1	205	0.49	0.49

HISTOGRAM FOR COLUMN 20 (S-NI)

```
5.0e+00 XX
7.0e+00
1.0e+01 XXXXXXXXX
1.5e+01 XXXXXXX
2.0e+01 XXXXXXXXXXXXXXXX
3.0e+01 XXXXXXXXXXXXXXXX
5.0e+01 XXXXXXXXXXXXXXX
7.0e+01 XXXXXXXXXXXXXXXXXXX
1.0e+02 XXXXX
1.5e+02 XXXXX
2.0e+02 X
3.0e+02
5.0e+02
7.0e+02
1.0e+03
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	1	0	0	0	0	205
0.00	0.49			0.00	0.00	

MAXIMUM = 1.00000e+03
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 3.58439e+01
GEOMETRIC DEVIATION = 2.31028e+00

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 21 (S-PB)

LIMITS LOWER - UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 - 1.2e+01	54	54	26.21	67.48
1.2e+01 - 1.8e+01	27	81	13.11	41.26
1.8e+01 - 2.6e+01	28	109	13.59	28.16
2.6e+01 - 3.8e+01	19	128	9.22	14.56
3.8e+01 - 5.6e+01	7	135	3.40	5.34
5.6e+01 - 8.3e+01	4	139	1.94	1.94

HISTOGRAM FOR COLUMN 21 (S-PB)

```
1.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXX
1.5e+01 XXXXXXXXXXXXX
2.0e+01 XXXXXXXXXXXXX
3.0e+01 XXXXXXXXX
5.0e+01 XXX
7.0e+01 XX
```

N	L	H	B	T	G	ANALYTICAL VALUES
7	60	0	0	0	0	139
3.40	29.13			0.00	0.00	

MAXIMUM = 7.00010e+01
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 1.65801e+01
GEOMETRIC DEVIATION = 1.69665e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 23 (S-SC)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	1	1	0.49	100.00
5.6e+00 -	8.3e+00	5	6	2.46	99.51
8.3e+00 -	1.2e+01	3	9	1.48	97.04
1.2e+01 -	1.8e+01	26	35	12.81	95.57
1.8e+01 -	2.6e+01	66	101	32.51	82.76
2.6e+01 -	3.8e+01	75	176	36.95	50.25
3.8e+01 -	5.6e+01	15	191	7.39	13.30
5.6e+01 -	8.3e+01	11	202	5.42	5.91
8.3e+01 -	1.2e+02	1	203	0.49	0.49

HISTOGRAM FOR COLUMN 23 (S-SC)

```
7.0e+00 XX
1.0e+01 X
1.5e+01 XXXXXXXXXXXXX
2.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
5.0e+01 XXXXXXX
7.0e+01 XXXXX
1.0e+02
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	3	0	0	203
0.00	0.00			0.00	0.00	

MAXIMUM = 1.00010e+02
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 2.47614e+01
GEOMETRIC DEVIATION = 1.61612e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 25 (S-SR)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+01 -	1.2e+02	4	4	1.97	100.00
1.2e+02 -	1.8e+02	1	5	0.49	98.03
1.8e+02 -	2.6e+02	11	16	5.42	97.54
2.6e+02 -	3.8e+02	64	80	31.53	92.12
3.8e+02 -	5.6e+02	53	133	26.11	60.59
5.6e+02 -	8.3e+02	35	168	17.24	34.48
8.3e+02 -	1.2e+03	26	194	12.81	17.24
1.2e+03 -	1.8e+03	9	203	4.43	4.43

HISTOGRAM FOR COLUMN 25 (S-SR)

```
1.0e+02 XX
1.5e+02
2.0e+02 XXXXX
3.0e+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
5.0e+02 XXXXXXXXXXXXXXXXXXXXXXXXX
7.0e+02 XXXXXXXXXXXXXXXXX
1.0e+03 XXXXXXXXXXXXX
1.5e+03 XXXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	3	0	0	203
0.00	0.00			0.00	0.00	

MAXIMUM = 1.50010e+03
MINIMUM = 1.00010e+02
GEOMETRIC MEAN = 4.74267e+02
GEOMETRIC DEVIATION = 1.75956e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 26 (S-V)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 -	1.2e+01	0	0	0.00	100.00
1.2e+01 -	1.8e+01	0	0	0.00	100.00
1.8e+01 -	2.6e+01	0	0	0.00	100.00
2.6e+01 -	3.8e+01	0	0	0.00	100.00
3.8e+01 -	5.6e+01	2	2	0.97	100.00
5.6e+01 -	8.3e+01	4	6	1.94	99.03
8.3e+01 -	1.2e+02	26	32	12.62	97.09
1.2e+02 -	1.8e+02	61	93	29.61	84.47
1.8e+02 -	2.6e+02	51	144	24.76	54.85
2.6e+02 -	3.8e+02	54	198	26.21	30.10
3.8e+02 -	5.6e+02	5	203	2.43	3.88
5.6e+02 -	8.3e+02	2	205	0.97	1.46
8.3e+02 -	1.2e+03	1	206	0.49	0.49

HISTOGRAM FOR COLUMN 26 (S-V)

```
5.0e+01 X
7.0e+01 XX
1.0e+02 XXXXXXXXXXXX
1.5e+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.0e+02 XXXXXXXXXXXXXXXXXXXXXXXX
3.0e+02 XXXXXXXXXXXXXXXXXXXXXXXXX
5.0e+02 XX
7.0e+02 X
1.0e+03
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	0	0	0	206
0.00	0.00			0.00	0.00	

MAXIMUM = 1.00000e+03
MINIMUM = 5.00000e+01
GEOMETRIC MEAN = 1.88736e+02
GEOMETRIC DEVIATION = 1.58843e+00

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 28 (S-Y)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 -	1.2e+01	13	13	6.31	98.06
1.2e+01 -	1.8e+01	35	48	16.99	91.75
1.8e+01 -	2.6e+01	65	113	31.55	74.76
2.6e+01 -	3.8e+01	57	170	27.67	43.20
3.8e+01 -	5.6e+01	28	198	13.59	15.53
5.6e+01 -	8.3e+01	4	202	1.94	1.94

HISTOGRAM FOR COLUMN 28 (S-Y)

```
1.0e+01 XXXXXX
1.5e+01 XXXXXXXXXXXXXXXXX
2.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
5.0e+01 XXXXXXXXXXXXXX
7.0e+01 XX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	4	0	0	0	0	202
0.00	1.94			0.00	0.00	

MAXIMUM = 7.00010e+01
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 2.37485e+01
GEOMETRIC DEVIATION = 1.58241e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 29 (S-ZN)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8e+02 -	2.6e+02	1	1	0.49	0.97
2.6e+02 -	3.8e+02	0	1	0.00	0.49
3.8e+02 -	5.6e+02	0	1	0.00	0.49
5.6e+02 -	8.3e+02	0	1	0.00	0.49
8.3e+02 -	1.2e+03	0	1	0.00	0.49
1.2e+03 -	1.8e+03	0	1	0.00	0.49
1.8e+03 -	2.6e+03	1	2	0.49	0.49

HISTOGRAM FOR COLUMN 29 (S-ZN)

N	L	H	B	T	G	ANALYTICAL VALUES
182	22	0	0	0	0	2
88.35	10.68			0.00	0.00	

MAXIMUM = 2.00010e+03
MINIMUM = 2.00010e+02
GEOMETRIC MEAN = 6.32487e+02
GEOMETRIC DEVIATION = 5.09456e+00

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 30 (S-ZR)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 -	1.2e+01	1	1	0.49	100.00
1.2e+01 -	1.8e+01	1	2	0.49	99.51
1.8e+01 -	2.6e+01	3	5	1.48	99.01
2.6e+01 -	3.8e+01	6	11	2.96	97.54
3.8e+01 -	5.6e+01	19	30	9.36	94.58
5.6e+01 -	8.3e+01	43	73	21.18	85.22
8.3e+01 -	1.2e+02	44	117	21.67	64.04
1.2e+02 -	1.8e+02	46	163	22.66	42.36
1.8e+02 -	2.6e+02	22	185	10.84	19.70
2.6e+02 -	3.8e+02	10	195	4.93	8.87
3.8e+02 -	5.6e+02	4	199	1.97	3.94
5.6e+02 -	8.3e+02	1	200	0.49	1.97
8.3e+02 -	1.2e+03	1	201	0.49	1.48

HISTOGRAM FOR COLUMN 30 (S-ZR)

```
       2.0e+01 X
       3.0e+01 XXX
       5.0e+01 XXXXXXXXX
       7.0e+01 XXXXXXXXXXXXXXXXXXX
       1.0e+02 XXXXXXXXXXXXXXXXXXXXX
       1.5e+02 XXXXXXXXXXXXXXXXXXXXXXX
       2.0e+02 XXXXXXXXXXX
       3.0e+02 XXXXX
       5.0e+02 XX
       7.0e+02
       1.0e+03
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	3	0	2	201
0.00	0.00			0.00	0.99	

MAXIMUM = 1.00000e+03
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 1.05532e+02
GEOMETRIC DEVIATION = 1.94884e+00

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 32 (AA-CU-P)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	18	18	13.33	97.04
5.6e+00 -	8.3e+00	0	18	0.00	83.70
8.3e+00 -	1.2e+01	26	44	19.26	83.70
1.2e+01 -	1.8e+01	25	69	18.52	64.44
1.8e+01 -	2.6e+01	42	111	31.11	45.93
2.6e+01 -	3.8e+01	14	125	10.37	14.81
3.8e+01 -	5.6e+01	1	126	0.74	4.44
5.6e+01 -	8.3e+01	2	128	1.48	3.70
8.3e+01 -	1.2e+02	3	131	2.22	2.22

HISTOGRAM FOR COLUMN 32 (AA-CU-P)

```
5.0e+00 XXXXXXXXXXXX
7.0e+00
1.0e+01 XXXXXXXXXXXXXXXXXX
1.5e+01 XXXXXXXXXXXXXXXXXX
2.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0e+01 XXXXXXXXXX
5.0e+01 X
7.0e+01 X
1.0e+02 XX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	4	0	71	0	0	131
0.00	2.96			0.00	0.00	

MAXIMUM = 1.00010e+02
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 1.56814e+01
GEOMETRIC DEVIATION = 1.93007e+00

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 33 (AA-PB-P)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	55	55	40.74	91.85
5.6e+00 -	8.3e+00	0	55	0.00	51.11
8.3e+00 -	1.2e+01	53	108	39.26	51.11
1.2e+01 -	1.8e+01	13	121	9.63	11.85
1.8e+01 -	2.6e+01	3	124	2.22	2.22

HISTOGRAM FOR COLUMN 33 (AA-PB-P)

```
5.0e+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.0e+00
1.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.5e+01 XXXXXXXXXX
2.0e+01 XX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	11	0	71	0	0	124
0.00	8.15			0.00	0.00	

MAXIMUM = 2.50000e+01
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 7.81641e+00
GEOMETRIC DEVIATION = 1.53863e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

FREQUENCY TABLE FOR COLUMN 34 (AA-ZN-P)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	2	2	1.45	100.00
5.6e+00 -	8.3e+00	0	2	0.00	98.55
8.3e+00 -	1.2e+01	7	9	5.07	98.55
1.2e+01 -	1.8e+01	6	15	4.35	93.48
1.8e+01 -	2.6e+01	16	31	11.59	89.13
2.6e+01 -	3.8e+01	23	54	16.67	77.54
3.8e+01 -	5.6e+01	50	104	36.23	60.87
5.6e+01 -	8.3e+01	23	127	16.67	24.64
8.3e+01 -	1.2e+02	9	136	6.52	7.97
1.2e+02 -	1.8e+02	2	138	1.45	1.45

HISTOGRAM FOR COLUMN 34 (AA-ZN-P)

```
5.0e+00 X
7.0e+00
1.0e+01 XXXXX
1.5e+01 XXXX
2.0e+01 XXXXXXXXXXX
3.0e+01 XXXXXXXXXXXXXXXX
5.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.0e+01 XXXXXXXXXXXXXXXX
1.0e+02 XXXXXXX
1.5e+02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	68	0	0	138
0.00	0.00			0.00	0.00	

MAXIMUM = 1.40010e+02
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 3.89878e+01
GEOMETRIC DEVIATION = 1.86750e+00

Table 5.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES -- continued

TITLE
PRINCE RUPERT STREAM-SEDIMENT

IN THE COMPUTATIONS PERFORMED TO PRODUCE THE FOLLOWING TABLE OF GEOMETRIC MEANS AND DEVIATIONS, ALL ELEMENTS ARE IGNORED WHERE ONE OR MORE OF THE UNQUALIFIED DATA VALUES IS LESS THAN THE ANALYTICAL LIMIT OF DETECTION SPECIFIED ON INPUT OR WHERE ANY DATA VALUES ARE QUALIFIED WITH THE G (GREATER THAN) CODE. DATA VALUES QUALIFIED WITH B OR H ARE NOT USED IN THE COMPUTATIONS. WHERE NONE OF THE DATA VALUES FOR AN ELEMENT ARE QUALIFIED THE MEAN AND DEVIATION SHOULD BE THE SAME AS THOSE GIVEN IN THE PRECEDING SECTION. WHERE DATA ARE QUALIFIED WITH THE CODES N, L, OR T, THE ESTIMATES OF GEOMETRIC MEAN AND DEVIATION ARE BASED ON A METHOD BY A. J. COHEN FOR TREATING CENSORED DISTRIBUTIONS. THE APPLICATION OF THIS METHOD TO GEOCHEMICAL PROBLEMS IS DESCRIBED IN USGS PROFESSIONAL PAPER 574-B. THE ESTIMATES ARE UNBIASED IN A STRICT SENSE ONLY WHERE THE DATA ARE DERIVED FROM A LOGNORMAL PARENT POPULATION.

ELEMENT	N	L	H	B	T	G	ANALYTICAL VALUES
S-FE%	0	0	0	3	0	0	203
S-MG%	0	0	0	3	0	0	203
S-CA%	0	0	0	3	0	0	203
S-TI%	0	0	0	3	0	21	182
S-MN	0	0	0	3	0	2	201
S-AG	200	4	0	0	0	0	2
S-B	2	82	0	3	0	0	119
S-BA	0	0	0	3	0	0	203
S-BE	60	80	0	0	0	0	66
S-CO	0	1	0	0	0	0	205
S-CR	0	1	0	0	0	0	205
S-CU	0	2	0	0	0	0	204
S-LA	46	40	0	0	0	0	120
S-MO	152	45	0	0	0	0	9
S-NB	100	55	0	0	0	0	51
S-NI	0	1	0	0	0	0	205
S-PB	7	60	0	0	0	0	139
S-SC	0	0	0	3	0	0	203
S-SR	0	0	0	3	0	0	203
S-V	0	0	0	0	0	0	206
S-Y	0	4	0	0	0	0	202
S-ZN	182	22	0	0	0	0	2
S-ZR	0	0	0	3	0	2	201
AA-CU-P	0	4	0	71	0	0	131
AA-PB-P	0	11	0	71	0	0	124
AA-ZN-P	0	0	0	68	0	0	138

A470 Table 7.-- STATISTICAL SUMMARY - STREAM SEDIMENT SAMPLES

ELEMENT	GEOMETRIC MEAN	GEOMETRIC DEVIATION	REMARKS
S-FE%	5.436440	1.75	206 SAMPLES AND 203 ANALYTICAL VALUES.
S-MG%	1.789582	1.75	206 SAMPLES AND 203 ANALYTICAL VALUES.
S-CA%	2.273639	2.01	206 SAMPLES AND 203 ANALYTICAL VALUES.
S-TI%	********	******	21 GREATER THAN VALUES. NO COMPUTATIONS.
S-MN	********	******	2 GREATER THAN VALUES. NO COMPUTATIONS.
S-AG	0.022392	3.37	204 NOT DETECTED, LESS THAN, OR TRACE VALUES. 2 REPORTED VALUES.
S-B	8.787791	1.80	84 NOT DETECTED, LESS THAN, OR TRACE VALUES. 119 REPORTED VALUES.
S-BA	450.095154	1.92	206 SAMPLES AND 203 ANALYTICAL VALUES.
S-BE	0.667799	1.55	140 NOT DETECTED, LESS THAN, OR TRACE VALUES. 66 REPORTED VALUES.
S-CO	24.115940	1.61	1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 205 REPORTED VALUES.
S-CR	97.161135	2.49	1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 205 REPORTED VALUES.
S-CU	20.967571	2.10	2 NOT DETECTED, LESS THAN, OR TRACE VALUES. 204 REPORTED VALUES.
S-LA	21.042005	2.76	86 NOT DETECTED, LESS THAN, OR TRACE VALUES. 120 REPORTED VALUES.
S-MO	0.488321	3.35	197 NOT DETECTED, LESS THAN, OR TRACE VALUES. 9 REPORTED VALUES.
S-NB	********	******	49 VALUES LESS THAN SPECIFIED LIMIT OF DETECTION. NO COMPUTATIONS.
S-NI	35.411743	2.35	1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 205 REPORTED VALUES.
S-PB	11.262546	2.10	67 NOT DETECTED, LESS THAN, OR TRACE VALUES. 139 REPORTED VALUES.
S-SC	24.761403	1.62	206 SAMPLES AND 203 ANALYTICAL VALUES.
S-SR	474.267204	1.76	206 SAMPLES AND 203 ANALYTICAL VALUES.
S-V	188.736021	1.59	206 SAMPLES AND 206 ANALYTICAL VALUES.
S-Y	23.187813	1.63	4 NOT DETECTED, LESS THAN, OR TRACE VALUES. 202 REPORTED VALUES.
S-ZN	635.241440	5.09	204 NOT DETECTED, LESS THAN, OR TRACE VALUES. 2 REPORTED VALUES.
S-ZR	********	******	2 GREATER THAN VALUES. NO COMPUTATIONS.
AA-CU-P	14.919851	2.03	4 NOT DETECTED, LESS THAN, OR TRACE VALUES. 131 REPORTED VALUES.
AA-PB-P	7.237699	1.63	11 NOT DETECTED, LESS THAN, OR TRACE VALUES. 124 REPORTED VALUES.
AA-ZN-P	38.987841	1.87	206 SAMPLES AND 138 ANALYTICAL VALUES.

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
70S936S	54 58 53	130 58 11	10.0	3.0	3.0	.70	5,000	N	N	N	10	300	1.5	N	N
70S937S	54 58 24	130 57 6	10.0	2.0	3.0	1.00	5,000	N	N	N	10	500	1.0	N	N
70S938S	54 58 59	130 55 59	7.0	2.0	3.0	.70	3,000	N	N	N	50	300	1.0	N	N
70S939S	54 59 4	130 55 6	10.0	1.5	3.0	1.00	2,000	N	N	N	10	300	1.5	N	N
70S940S	54 59 50	130 52 59	15.0	7.0	15.0	>1.00	5,000	N	N	N	10	150	<1.0	N	N
70S941S	54 59 3	130 53 29	10.0	2.0	5.0	>1.00	2,000	N	N	N	10	500	1.0	N	N
70S942S	54 58 44	130 54 44	7.0	2.0	5.0	.70	1,500	N	N	N	<10	300	1.0	N	N
70S943S	54 58 6	130 56 54	5.0	3.0	5.0	.70	2,000	N	N	N	<10	300	1.0	N	N
70S944S	54 57 11	130 56 9	7.0	1.5	1.5	1.00	1,000	N	N	N	10	300	<1.0	N	N
70S945S	54 56 48	130 56 4	7.0	2.0	1.5	1.00	700	N	N	N	50	300	<1.0	N	N
70S946S	54 55 38	130 56 16	10.0	2.0	.5	.50	>5,000	N	N	N	15	150	<1.0	N	N
70S947S	54 55 32	130 56 21	3.0	1.5	1.0	.50	700	N	N	N	30	300	<1.0	N	N
70S948S	54 55 4	130 57 34	7.0	2.0	.7	.50	700	N	N	N	20	200	<1.0	N	N
70S949S	54 53 31	130 56 48	5.0	1.5	2.0	.30	700	N	N	N	<10	200	<1.0	N	N
70S950S	54 52 24	130 56 40	5.0	1.5	2.0	.30	700	N	N	N	10	300	1.0	N	N
70S951S	54 51 11	130 56 3	2.0	1.0	15.0	.20	500	N	N	N	20	150	N	N	N
70S952S	54 49 14	130 56 4	7.0	7.0	10.0	.30	1,500	N	N	N	<10	70	<1.0	N	N
70S953S	54 48 12	130 54 41	3.0	1.0	1.5	.50	500	N	N	N	15	500	<1.0	N	N
70S954S	54 47 23	130 53 59	1.5	.7	1.0	.30	200	N	N	N	15	300	<1.0	N	N
70S955S	54 57 39	130 43 45	10.0	3.0	5.0	.70	1,500	N	N	N	10	700	<1.0	N	N
70S956S	54 45 41	130 41 20	7.0	3.0	3.0	.50	1,000	N	N	N	<10	300	N	N	N
70S957S	54 45 42	130 41 0	10.0	3.0	3.0	1.00	1,500	N	N	N	10	150	<1.0	N	N
70S958S	54 46 41	130 40 35	10.0	5.0	7.0	>1.00	2,000	N	N	N	10	300	<1.0	N	N
70S959S	54 46 4	130 41 27	10.0	3.0	5.0	.70	1,000	N	N	N	<10	150	<1.0	N	N
70S960S	54 45 53	130 42 50	7.0	1.5	1.5	.70	1,500	N	N	N	<10	150	1.0	N	N
70S961S	54 46 47	130 43 40	10.0	5.0	5.0	1.00	1,500	N	N	N	<10	150	1.0	N	N
70S962S	54 47 40	130 41 26	10.0	5.0	5.0	1.00	2,000	N	N	N	<10	500	1.0	N	N
70S963S	54 48 12	130 41 30	10.0	5.0	5.0	1.00	3,000	N	N	N	<10	300	1.0	N	N
70S964S	54 49 15	130 42 1	7.0	5.0	5.0	1.00	2,000	N	N	N	<10	300	1.5	N	N
70S965S	54 49 55	130 41 49	7.0	2.0	5.0	1.00	1,500	N	N	N	<10	500	1.0	N	N
70S966S	54 50 44	130 42 29	7.0	3.0	3.0	.50	1,500	N	N	N	10	300	<1.0	N	N
70S967S	54 51 17	130 42 59	3.0	1.5	3.0	.30	700	N	N	N	70	500	1.5	N	N
70S968S	54 50 17	130 43 18	7.0	5.0	5.0	1.00	1,500	N	N	N	10	200	N	N	N
70S969S	54 51 11	130 43 35	10.0	5.0	7.0	1.00	2,000	N	N	N	10	300	<1.0	N	N
70S970S	54 52 6	130 43 35	10.0	3.0	5.0	>1.00	2,000	N	N	N	10	500	<1.0	N	N
70S971S	54 53 3	130 43 42	15.0	5.0	5.0	>1.00	3,000	N	N	N	<10	200	<1.0	N	N
70S972S	54 53 57	130 43 29	7.0	3.0	5.0	.70	1,500	N	N	N	<10	700	1.0	N	N
70S973S	54 54 20	130 43 31	10.0	5.0	5.0	.70	1,500	N	N	N	<10	500	1.0	N	N
70S974S	54 56 13	130 44 7	10.0	5.0	5.0	1.00	1,500	N	N	N	<10	300	<1.0	N	N
70S975S	54 57 26	130 43 59	10.0	3.0	5.0	.50	1,500	N	N	N	<10	700	<1.0	N	N
70S976S	54 57 47	130 44 31	7.0	3.0	5.0	.30	1,500	.7	N	N	10	300	1.0	N	N
70S977S	54 57 39	130 45 5	15.0	7.0	3.0	1.00	>5,000	<5	N	N	10	300	<1.0	N	N
70S978S	54 56 21	130 45 38	15.0	7.0	7.0	1.00	5,000	N	N	N	10	300	<1.0	N	N
70S979S	54 55 54	130 45 38	10.0	7.0	15.0	.70	5,000	N	N	N	10	100	<1.0	N	N
70S980S	54 54 53	130 45 29	10.0	7.0	10.0	.50	2,000	N	N	N	<10	300	<1.0	N	N

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES

SAMPLE	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN
70S936S	30	150	100	200	<5	10	100	30	N	30	N	700	300	N	50	<200
70S937S	30	150	30	700	<5	10	30	15	N	50	N	500	300	N	70	N
70S938S	30	150	70	20	<5	10	70	30	N	30	N	700	200	N	30	N
70S939S	30	150	70	20	7	10	70	50	N	30	N	700	300	N	50	N
70S940S	30	500	70	50	<5	20	150	20	N	70	N	1,500	500	N	70	N
70S941S	30	150	70	30	N	10	70	30	N	30	N	700	300	N	30	N
70S942S	30	150	20	<20	N	10	50	20	N	30	N	700	200	N	30	N
70S943S	30	70	20	<20	N	10	30	15	N	30	N	700	150	N	20	N
70S944S	15	100	50	N	N	10	30	30	N	30	N	1,000	300	N	15	N
70S945S	20	100	30	N	N	10	50	10	N	30	N	700	300	N	20	N
70S946S	70	50	100	N	N	10	20	30	N	20	N	300	200	N	15	N
70S947S	<5	30	70	N	N	10	15	30	N	15	N	500	200	N	10	N
70S948S	30	150	50	N	N	10	70	50	N	70	N	300	500	N	20	<200
70S949S	15	70	70	N	N	10	20	15	N	30	N	500	200	N	15	N
70S950S	15	70	15	N	N	10	30	15	N	30	N	500	200	N	10	N
70S951S	5	30	100	N	N	<10	10	30	N	10	N	1,500	70	N	10	N
70S952S	30	300	50	N	<5	<10	70	10	N	100	N	500	200	N	15	N
70S953S	15	700	30	N	N	<10	20	30	N	15	N	700	150	N	15	N
70S954S	15	50	70	N	N	N	15	15	N	7	N	700	70	N	<10	N
70S955S	30	150	70	<20	<5	10	70	20	N	70	N	700	300	N	30	<200
70S956S	30	150	10	N	<5	<10	100	10	N	30	N	700	300	N	15	N
70S957S	30	150	30	N	<5	10	30	15	N	30	N	500	300	N	30	N
70S958S	30	500	30	150	<5	15	100	20	N	50	N	700	300	N	70	<200
70S959S	30	100	10	N	<5	10	70	<10	N	30	N	1,000	200	N	15	N
70S960S	30	15	15	<20	N	10	10	15	N	20	N	1,000	200	N	15	N
70S961S	30	200	50	<20	<5	10	150	15	N	30	N	700	300	N	30	N
70S962S	30	300	20	N	<5	10	150	15	N	30	N	700	300	N	30	<200
70S963S	30	300	30	100	<5	15	150	15	N	50	N	300	300	N	50	<200
70S964S	30	150	20	<20	<5	15	100	15	N	30	N	700	200	N	30	<200
70S965S	20	70	50	30	<5	10	30	15	N	30	N	1,000	200	N	50	N
70S966S	20	200	7	30	N	10	50	15	N	30	N	500	300	N	20	N
70S967S	15	70	15	N	N	<10	30	15	N	30	N	300	150	N	15	N
70S968S	30	150	15	<20	<5	10	70	<10	N	70	N	500	300	N	30	N
70S969S	30	150	15	150	<5	10	70	10	N	70	N	1,000	300	N	50	N
70S970S	30	150	<5	100	N	10	50	<10	N	70	N	700	300	N	30	N
70S971S	30	150	5	30	<5	<10	50	10	N	70	N	1,000	300	N	50	N
70S972S	30	150	15	N	<5	10	70	20	N	30	N	1,000	200	N	15	N
70S973S	30	150	15	N	<5	<10	30	10	N	30	N	1,500	200	N	15	N
70S974S	50	700	30	<20	<5	10	150	<10	N	30	N	700	300	N	15	<200
70S975S	30	200	15	50	<5	<10	70	<10	N	50	N	700	300	N	20	<200
70S976S	20	150	70	N	<5	10	70	15	N	30	N	700	300	N	15	<200
70S977S	150	700	70	N	<5	10	200	20	N	30	N	300	300	N	50	<200
70S978S	50	500	70	N	<5	10	100	20	N	70	N	700	500	N	70	<200
70S979S	30	700	30	30	<5	15	100	10	N	50	N	1,000	300	N	50	<200
70S980S	30	300	50	100	N	15	150	15	N	50	N	1,000	300	N	50	<200

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES

SAMPLE	S-ZR	AA-AU-P	AA-CU-P	AA-PB-P	AA-ZN-P	INST-HG
70S936S	200	<02	--	--	--	--
70S937S	1,000	<02	--	--	--	--
70S938S	300	<02	--	--	--	--
70S939S	500	<02	--	--	--	--
70S940S	200	<02	--	--	--	--
70S941S	200	<02	--	--	--	--
70S942S	100	<02	--	--	--	--
70S943S	70	<02	--	--	--	--
70S944S	70	<02	--	--	--	--
70S945S	200	<02	--	--	--	--
70S946S	100	<02	--	--	--	--
70S947S	70	<02	--	--	--	--
70S948S	70	<02	--	--	--	--
70S949S	70	<02	--	--	--	--
70S950S	70	<02	--	--	--	--
70S951S	50	<02	--	--	--	--
70S952S	30	<02	--	--	--	--
70S953S	70	<02	--	--	--	--
70S954S	70	<02	--	--	--	--
70S955S	100	<02	--	--	--	--
70S956S	300	<02	--	--	--	--
70S957S	70	<02	--	--	--	--
70S958S	300	<02	--	--	--	--
70S959S	100	<02	--	--	--	--
70S960S	200	<02	--	--	--	--
70S961S	150	<02	--	--	--	--
70S962S	150	<02	--	--	--	--
70S963S	500	<02	--	--	--	--
70S964S	150	<02	--	--	--	--
70S965S	700	<02	--	--	--	--
70S966S	300	<02	--	--	--	--
70S967S	100	<02	--	--	--	--
70S968S	200	<02	--	--	--	--
70S969S	150	<02	--	--	--	--
70S970S	200	<02	--	--	--	--
70S971S	>1,000	<02	--	--	--	--
70S972S	150	<02	--	--	--	--
70S973S	100	<10	--	--	--	--
70S974S	70	<02	--	--	--	--
70S975S	70	<04	--	--	--	--
70S976S	50	<02	--	--	--	--
70S977S	150	<20	--	--	--	--
70S978S	100	<04	--	--	--	--
70S979S	150	<10	--	--	--	--
70S980S	100	<04	--	--	--	--

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES--continued

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
70S981S	54 53 54	130 45 8	15.0	5.0	10.0	>1.00	3,000	N	N	N	<10	300	<1.0	N	N
70S982S	54 53 2	130 45 5	15.0	3.0	5.0	.70	2,000	N	N	N	<10	300	<1.0	N	N
70S983S	54 52 11	130 44 35	15.0	5.0	5.0	1.00	2,000	N	N	N	30	500	<1.0	N	N
70S984S	54 51 38	130 44 30	7.0	3.0	3.0	.50	1,500	N	N	N	<10	500	1.5	N	N
70S985S	54 50 39	130 44 41	10.0	3.0	5.0	.70	2,000	N	N	N	<10	200	<1.0	N	N
70S986S	54 50 0	130 44 4	7.0	3.0	5.0	.70	3,000	N	N	N	<10	300	<1.0	N	N
70S987S	54 49 0	130 44 48	15.0	3.0	5.0	>1.00	2,000	<5	N	N	10	300	<1.0	N	N
70S988S	54 49 27	130 45 30	10.0	2.0	3.0	1.00	1,500	N	N	N	100	700	1.0	N	N
70S989S	54 49 28	130 46 9	15.0	2.0	3.0	>1.00	5,000	N	N	N	10	1,000	<1.0	N	N
70S990S	54 50 57	130 48 7	10.0	3.0	3.0	.70	1,500	N	N	N	15	500	<1.0	N	N
70S991S	54 50 59	130 48 15	10.0	2.0	3.0	>1.00	3,000	N	N	N	15	500	1.0	N	N
70S992S	54 50 23	130 48 1	10.0	1.5	1.5	1.00	5,000	N	N	N	15	300	<1.0	N	N
70S993S	54 49 54	130 47 35	10.0	3.0	1.0	1.00	2,000	<5	N	N	15	700	1.0	N	N
70S994S	54 48 53	130 47 12	7.0	3.0	2.0	1.00	1,000	N	N	N	10	300	<1.0	N	N
70S995S	54 48 7	130 47 16	5.0	1.5	1.5	1.00	500	N	N	N	10	300	1.0	N	N
70S996S	54 47 11	130 47 48	10.0	2.0	2.0	1.00	1,000	N	N	N	15	500	<1.0	N	N
70S997S	54 46 37	130 49 9	10.0	3.0	1.5	1.00	3,000	N	N	N	15	300	1.0	N	N
70S999S	54 46 37	130 51 11	3.0	1.0	1.0	.20	2,000	N	N	N	N	300	<1.0	N	N
75BW086S	54 59 4	130 55 35	--	--	--	--	--	N	N	--	--	--	3.0	--	--
75BW088S	54 58 54	130 55 58	--	--	--	--	--	N	N	--	--	--	3.0	--	--
75BW088S	54 58 54	130 55 58	--	--	--	--	--	N	N	N	15	1,000	1.0	N	N
75BW094S	54 58 24	130 57 6	--	--	--	--	--	N	N	--	--	--	3.0	--	--
76BG019S	54 58 53	130 58 14	10.0	2.0	7.0	.70	3,000	N	N	N	15	500	1.0	N	N
76BG021S	54 57 51	130 55 24	10.0	2.0	5.0	.50	1,000	N	N	N	10	1,000	1.0	N	N
76BG036S	54 57 15	130 54 50	3.0	1.0	1.0	.50	500	N	N	N	10	1,000	1.0	N	N
76BG041S	54 57 43	130 53 41	5.0	1.5	1.5	.70	1,500	N	N	N	20	1,500	1.0	N	N
76BG043S	54 59 57	130 54 10	10.0	3.0	3.0	.50	1,500	N	N	N	10	500	1.0	N	N
76CH008S	54 58 8	130 55 29	7.0	2.0	2.0	.50	2,000	N	N	N	10	700	1.0	N	N
76CH014S	54 56 53	130 54 24	5.0	1.0	.5	.30	300	N	N	N	10	1,000	1.0	N	N
76CH015S	54 56 26	130 53 20	5.0	2.0	2.0	.70	1,000	N	N	N	30	1,000	1.0	N	N
76CH017S	54 59 4	130 54 35	7.0	1.0	2.0	.50	1,000	N	N	N	30	1,000	1.0	N	N
76ER422S	54 58 4	130 52 5	5.0	2.0	2.0	.50	700	N	N	N	15	700	1.0	N	N
76ER423S	54 58 13	130 52 24	5.0	1.5	3.0	.30	2,000	N	N	N	10	700	1.0	N	N
76ER424S	54 58 36	130 53 4	10.0	2.0	5.0	.70	1,500	N	N	N	10	700	1.0	N	N
76ER425S	54 59 21	130 52 51	10.0	2.0	7.0	.70	1,500	N	N	N	10	300	1.0	N	N
76ER426S	54 59 26	130 52 54	10.0	2.0	7.0	1.00	1,500	N	N	N	10	700	1.0	N	N
76RK023S	54 58 9	130 51 42	5.0	3.0	7.0	.70	1,500	N	N	N	<10	200	1.0	N	N
76RK024S	54 58 13	130 51 43	7.0	3.0	5.0	.50	1,500	N	N	N	10	500	1.0	N	N
76RK027S	54 58 28	130 52 9	10.0	3.0	7.0	.50	3,000	N	N	N	10	500	1.0	N	N
76RK028S	54 58 31	130 52 9	10.0	2.0	7.0	.50	2,000	N	N	N	10	700	1.0	N	N
76RK030S	54 59 8	130 52 59	10.0	1.5	7.0	.50	1,500	N	N	N	10	200	1.0	N	N
76RK056S	54 56 3	130 53 20	10.0	2.0	7.0	.70	2,000	N	N	N	10	500	1.0	N	N
76RK057S	54 56 9	130 54 15	5.0	.7	.3	.20	1,500	N	N	N	10	1,500	1.0	N	N
76RK058S	54 57 10	130 52 45	10.0	2.0	3.0	.50	1,000	N	N	N	20	500	1.0	N	N
76RK059S	54 56 43	130 53 2	10.0	2.0	3.0	.50	1,000	N	N	N	15	500	1.0	N	N

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES--continued

SAMPLE	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN
70S981S	30	300	70	<20	10	10	150	10	N	70	N	700	500	N	50	<200
70S982S	30	150	70	30	<5	15	50	70	N	50	N	700	300	N	30	<200
70S983S	30	150	20	30	<5	15	70	10	N	50	N	700	300	N	30	<200
70S984S	20	150	50	30	<5	10	30	20	N	30	N	1,000	300	N	20	N
70S985S	30	70	50	N	<5	10	30	20	N	30	N	1,000	300	N	20	N
70S986S	30	150	15	<20	N	10	50	20	N	30	N	1,000	300	N	20	N
70S987S	30	150	30	N	<5	10	50	15	N	50	N	700	300	N	50	N
70S988S	30	100	30	N	5	10	70	20	N	30	N	700	300	N	30	<200
70S989S	30	70	50	<20	<5	<10	30	15	N	50	N	500	300	N	50	<200
70S990S	30	150	30	N	<5	<10	70	15	N	30	N	700	300	N	30	<200
70S991S	30	70	70	<20	7	15	30	20	N	30	N	700	300	N	30	<200
70S992S	30	70	30	<20	<5	10	20	20	N	30	N	500	300	N	20	N
70S993S	30	70	70	30	<5	10	30	30	N	30	N	500	300	N	30	N
70S994S	30	150	30	<20	<5	<10	30	70	N	30	N	500	300	N	30	2,000
70S995S	15	70	30	<20	<5	10	15	15	N	30	N	300	200	N	20	N
70S996S	20	50	20	20	<5	10	30	20	N	30	N	1,000	300	N	20	N
70S997S	30	150	20	20	<5	10	150	20	N	30	N	700	200	N	15	N
70S999S	15	10	10	N	N	<10	5	15	N	7	N	1,000	70	N	<10	N
75BW086S	30	200	30	70	N	N	70	50	N	--	N	--	700	N	50	N
75BW088S	50	300	70	70	N	N	70	70	N	--	N	--	1,000	N	30	N
75BW088S	50	150	30	50	N	<20	50	20	N	20	N	300	200	N	20	N
75BW094S	30	200	30	70	N	20	50	30	N	--	N	--	700	N	50	N
76BG019S	50	150	200	100	<5	<20	70	50	N	30	N	1,000	200	N	50	<200
76BG021S	20	100	15	100	N	<20	20	70	N	30	N	1,500	200	N	30	N
76BG036S	15	70	5	50	N	<20	20	30	N	15	N	1,000	150	N	15	N
76BG041S	20	100	20	50	N	<20	30	30	N	20	N	500	200	N	20	N
76BG043S	70	500	10	100	N	<20	200	30	N	30	N	200	200	N	30	N
76CH008S	30	200	20	100	N	<20	100	50	N	20	N	300	150	N	30	N
76CH014S	20	50	20	50	N	<20	20	30	N	10	N	500	150	N	10	N
76CH015S	15	70	20	50	<5	<20	10	20	N	30	N	500	200	N	20	N
76CH017S	30	150	50	70	N	<20	70	50	N	20	N	700	200	N	20	N
76ER422S	20	150	<5	70	N	<20	30	20	N	20	N	500	150	N	20	N
76ER423S	30	100	20	70	N	<20	50	30	N	15	N	700	150	N	20	N
76ER424S	50	500	30	200	N	<20	150	30	N	30	N	1,000	200	N	50	N
76ER425S	50	300	30	150	N	<20	70	20	N	50	N	1,500	200	N	50	N
76ER426S	30	150	15	100	N	<20	70	20	N	50	N	1,500	200	N	50	N
76RK023S	30	300	20	100	N	<20	100	10	N	30	N	1,000	300	N	50	N
76RK024S	50	300	10	70	N	<20	150	20	N	30	N	1,000	300	N	30	N
76RK027S	70	500	50	200	N	<20	200	20	N	30	N	1,000	300	N	50	N
76RK028S	50	200	50	150	N	<20	100	20	N	30	N	1,500	300	N	50	N
76RK030S	20	50	20	50	N	<20	20	10	N	30	N	300	300	N	30	N
76RK056S	20	100	30	50	N	<20	20	20	N	30	N	1,000	300	N	30	N
76RK057S	20	<10	7	<20	N	<20	<5	50	N	5	N	1,000	100	N	10	N
76RK058S	20	70	30	<20	N	<20	20	10	N	30	N	1,000	300	N	20	N
76RK059S	20	100	15	50	N	<20	20	10	N	30	N	1,000	300	N	30	N

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES--continued

SAMPLE	S-ZR	AA-AU-P	AA-CU-P	AA-PB-P	AA-ZN-F	INST-HG
70S981S	70	<02	--	--	--	--
70S982S	150	<04	--	--	--	--
70S983S	150	<02	--	--	--	--
70S984S	70	<02	--	--	--	--
70S985S	150	<04	--	--	--	--
70S986S	100	<04	--	--	--	--
70S987S	300	<02	--	--	--	--
70S988S	100	<10	--	--	--	--
70S989S	150	<10	--	--	--	--
70S990S	70	<10	--	--	--	--
70S991S	70	<04	--	--	--	--
70S992S	150	<20	--	--	--	--
70S993S	200	<10	--	--	--	--
70S994S	70	<02	--	--	--	--
70S995S	150	<02	--	--	--	--
70S996S	70	<04	--	--	--	--
70S997S	150	<04	--	--	--	--
70S999S	70	--	--	--	--	--
75BW086S	--	--	--	--	35	--
75BW088S	--	N	--	--	50	--
75BW088S	150	--	--	--	--	--
75BW094S	--	N	--	--	45	--
76BG019S	150	N	65	20	100	--
76BG021S	150	N	10	10	35	--
76BG036S	100	N	5	5	10	--
76BG041S	150	N	15	10	65	--
76BG043S	150	N	10	10	30	--
76CH008S	150	N	20	15	70	--
76CH014S	150	N	10	10	35	--
76CH015S	100	N	5	5	15	--
76CH017S	150	N	35	25	65	--
76ER422S	200	N	5	5	10	--
76ER423S	200	N	20	15	75	--
76ER424S	300	N	20	15	60	--
76ER425S	150	N	10	<5	15	--
76ER426S	200	N	5	<5	10	--
76RK023S	150	N	15	5	20	--
76RK024S	150	N	10	5	30	--
76RK027S	150	N	25	15	75	--
76RK028S	150	N	30	10	50	--
76RK030S	150	N	15	5	10	--
76RK056S	150	N	10	5	40	--
76RK057S	100	N	5	20	40	--
76RK058S	100	N	15	5	35	--
76RK059S	100	N	10	5	25	--

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES--continued

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
76RK060S	54 53 18	130 49 11	10.0	2.0	3.0	.70	1,000	N	N	N	10	500	1.0	N	N
76RK061S	54 51 52	130 51 10	3.0	.5	.3	.30	2,000	N	N	N	10	700	1.0	N	N
76RK062S	54 52 26	130 47 21	10.0	1.5	2.0	.70	1,000	N	N	N	20	700	1.0	N	N
76RK063S	54 52 22	130 47 21	10.0	2.0	3.0	1.00	1,500	N	N	N	20	500	1.0	N	N
76RK064S	54 53 17	130 47 9	10.0	3.0	5.0	.50	1,500	N	N	N	50	500	1.0	N	N
76RK065S	54 50 11	130 49 27	3.0	.7	.5	.30	700	N	N	N	<10	700	1.0	N	N
76RK066S	54 49 9	130 48 45	3.0	.5	.5	.20	2,000	N	N	N	<10	700	1.0	N	N
76RK066S	54 49 9	130 48 45	--	--	--	--	--	N	N	N	15	700	1.0	N	N
76RK067S	54 57 53	130 51 43	10.0	3.0	3.0	.70	2,000	N	N	N	10	700	1.0	N	N
76RK068S	54 58 10	130 51 2	10.0	5.0	5.0	1.00	2,000	N	N	N	10	200	1.0	N	N
76RK069S	54 58 5	130 51 1	10.0	3.0	5.0	1.00	2,000	N	N	N	<10	200	1.0	N	N
76RK070S	54 57 34	130 48 6	--	--	--	--	--	N	N	N	<10	500	1.0	N	N
76RK070S	54 57 34	130 48 6	7.0	3.0	3.0	.70	1,500	N	N	N	<10	700	1.0	N	N
76RK071S	54 56 17	130 48 33	7.0	3.0	3.0	.50	1,000	N	N	N	<10	1,000	1.0	N	N
76RK073S	54 57 34	130 46 18	10.0	5.0	7.0	.70	1,500	N	N	N	10	1,000	1.0	N	N
76RK075S	54 59 2	130 41 3	--	--	--	--	--	N	N	N	<10	500	1.0	N	N
76RK075S	54 59 2	130 41 3	10.0	5.0	5.0	.70	1,500	N	N	N	10	1,000	1.0	N	N
76RK076S	54 58 45	130 44 16	10.0	3.0	5.0	.50	1,500	N	N	N	<10	1,500	1.0	N	N
77DM401S	54 51 32	130 34 32	3.0	1.0	1.5	1.00	1,000	N	N	N	<10	500	<1.0	N	N
77DM402S	54 52 59	130 28 49	2.0	.5	1.0	.70	1,000	N	N	N	<10	500	<1.0	N	N
77DM403S	54 54 7	130 27 11	3.0	1.0	1.0	.70	1,000	N	N	N	10	500	N	N	N
77DM404S	54 54 25	130 27 15	3.0	1.0	1.5	1.00	1,000	N	N	N	<10	500	N	N	N
77DM405S	54 55 11	130 26 25	3.0	1.0	1.0	1.00	1,000	N	N	N	<10	700	N	N	N
77DM406S	54 55 27	130 24 35	3.0	1.5	1.0	1.00	1,000	N	N	N	<10	300	N	N	N
77DM407S	54 56 35	130 22 41	3.0	1.0	1.5	.70	1,000	N	N	N	<10	700	<1.0	N	N
77DM408S	54 57 21	130 22 14	5.0	1.5	1.5	.70	1,000	N	N	N	<10	700	N	N	N
77DM409S	54 59 3	130 23 7	1.5	1.0	1.0	.30	700	N	N	N	N	300	<1.0	N	N
77DM410S	54 59 12	130 25 6	2.0	1.0	1.0	.50	1,000	N	N	N	<10	700	<1.0	N	N
77DM411S	54 57 47	130 25 18	5.0	1.0	1.5	.70	1,500	N	N	N	<10	1,000	<1.0	N	N
77DM412S	54 56 12	130 27 32	3.0	1.0	1.5	.50	1,000	N	N	N	<10	1,000	N	N	N
77DM413S	54 55 58	130 27 29	2.0	1.0	1.0	.50	700	N	N	N	<10	700	<1.0	N	N
77DM414S	54 59 16	130 27 53	3.0	1.0	1.5	.50	1,500	N	N	N	<10	1,500	<1.0	N	N
77DM415S	54 59 38	130 27 51	3.0	1.0	1.0	.50	1,000	N	N	N	<10	700	<1.0	N	N
77DM416S	54 59 48	130 27 1	3.0	.7	1.5	.50	1,000	N	N	N	<10	700	<1.0	N	N
77DM417S	54 58 38	130 29 8	3.0	1.0	1.0	.70	1,000	N	N	N	<10	700	N	N	N
77DM418S	54 57 35	130 29 5	5.0	1.5	1.5	>1.00	1,500	N	N	N	<10	500	<1.0	N	N
77DM419S	54 57 15	130 28 9	5.0	1.5	2.0	1.00	1,500	N	N	N	<10	700	<1.0	N	N
77DM420S	54 54 56	130 28 58	3.0	1.5	2.0	1.00	1,000	N	N	N	<10	500	<1.0	N	N
77DM421S	54 55 10	130 30 20	3.0	2.0	1.5	1.00	1,500	N	N	N	<10	500	<1.0	N	N
77DM422S	54 55 50	130 31 14	5.0	2.0	1.5	>1.00	1,500	N	N	N	<10	500	N	N	N
77DM423S	54 53 52	130 32 40	3.0	1.5	1.0	>1.00	1,500	N	N	N	<10	500	N	N	N
77DM424S	54 55 50	130 34 26	5.0	1.5	2.0	1.00	1,000	N	N	N	<10	700	N	N	N
77DM425S	54 55 47	130 34 28	5.0	1.5	2.0	1.00	1,000	N	N	N	<10	500	N	N	N
77DM426S	54 56 32	130 32 43	5.0	1.5	2.0	1.00	1,500	N	N	N	<10	700	N	N	N
77DM427S	54 57 11	130 31 51	3.0	1.5	1.5	1.00	1,500	N	N	N	<10	700	<1.0	N	N

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES--continued

SAMPLE	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN
76RK060S	20	100	30	30	N	<20	20	20	N	30	N	1,000	300	N	20	N
76RK061S	20	30	10	30	N	<20	10	30	N	7	N	500	100	N	10	N
76RK062S	30	50	15	30	N	<20	10	10	N	30	N	700	300	N	20	N
76RK063S	20	100	20	30	N	<20	20	20	N	30	N	700	200	N	30	N
76RK064S	30	150	15	30	N	<20	20	20	N	30	N	700	200	N	30	N
76RK065S	10	50	5	50	N	<20	5	30	N	7	N	700	70	N	<10	N
76RK066S	20	50	10	50	N	<20	10	20	N	7	10	500	50	N	<10	N
76RK066S	20	20	20	50	N	<20	20	30	N	5	N	300	300	N	<10	N
76RK067S	50	100	20	50	N	<20	30	10	N	30	N	500	200	N	30	N
76RK068S	50	300	20	100	N	<20	70	10	N	30	N	1,500	300	N	50	N
76RK069S	50	300	30	100	N	<20	70	20	N	30	N	1,500	200	N	50	N
76RK070S	20	70	20	50	N	<20	30	<10	N	20	N	500	500	N	20	N
76RK070S	20	150	30	50	N	<20	50	10	N	30	N	1,000	200	N	20	N
76RK071S	20	50	20	50	N	<20	10	15	N	20	N	500	300	N	20	N
76RK073S	70	300	150	50	N	<20	70	10	N	50	N	500	300	N	50	N
76RK075S	15	50	15	50	N	<20	20	<10	N	20	N	500	500	N	20	N
76RK075S	50	300	20	50	N	<20	20	15	N	30	N	500	300	N	50	N
76RK076S	70	150	30	50	N	<20	70	30	N	30	N	700	200	N	30	N
77DM401S	20	50	15	30	N	N	20	<10	N	15	N	500	100	N	20	N
77DM402S	15	70	10	20	N	N	20	10	N	10	N	300	100	N	10	N
77DM403S	20	150	30	30	N	N	70	<10	N	15	N	300	150	N	30	N
77DM404S	20	70	30	<20	N	N	30	<10	N	20	N	500	150	N	15	N
77DM405S	20	70	20	<20	N	N	30	10	N	20	N	300	150	N	20	N
77DM406S	15	100	15	<20	N	N	50	<10	N	20	N	300	100	N	15	N
77DM407S	15	70	20	20	N	N	20	10	N	20	N	300	150	N	20	N
77DM408S	20	30	30	20	5	N	10	<10	N	20	N	500	150	N	20	N
77DM409S	10	100	10	20	N	N	50	10	N	15	N	300	100	N	15	N
77DM410S	20	15	20	20	N	N	5	<10	N	20	N	300	100	N	20	N
77DM411S	20	20	50	20	N	N	5	<10	N	20	N	300	150	N	30	N
77DM412S	15	50	20	<20	N	N	15	10	N	20	N	500	150	N	20	N
77DM413S	20	150	30	30	<5	N	70	10	N	20	N	300	150	N	30	N
77DM414S	20	10	50	30	N	N	10	10	N	20	N	300	100	N	30	N
77DM415S	15	15	50	30	<5	N	10	10	N	15	N	500	150	N	20	N
77DM416S	15	15	20	20	N	N	10	10	N	15	N	300	100	N	15	N
77DM417S	20	50	20	<20	N	N	20	<10	N	20	N	300	150	N	20	N
77DM418S	30	150	50	70	N	<20	70	10	N	30	N	300	150	N	50	N
77DM419S	20	70	20	50	N	N	30	<10	N	30	N	300	150	N	50	N
77DM420S	20	70	15	20	N	N	20	10	N	30	N	300	100	N	30	N
77DM421S	30	70	20	30	N	N	50	10	N	20	N	300	100	N	30	N
77DM422S	30	150	20	70	N	N	70	10	N	30	N	300	100	N	30	N
77DM423S	20	70	15	30	N	<20	30	<10	N	20	N	300	150	N	30	N
77DM424S	20	70	15	<20	N	N	20	<10	N	30	N	300	150	N	30	N
77DM425S	20	70	7	20	N	N	15	10	N	20	N	500	150	N	20	N
77DM426S	30	70	20	70	N	N	70	<10	N	20	N	300	150	N	30	N
77DM427S	20	70	20	30	N	N	50	<10	N	20	N	300	150	N	30	N

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES--continued

SAMPLE	S-ZR	AA-AU-P	AA-CU-P	AA-PB-P	AA-ZN-P	INST-HG
76RK060S	150	N	20	10	55	--
76RK061S	200	N	10	15	35	--
76RK062S	100	N	10	10	40	--
76RK063S	100	N	20	10	45	--
76RK064S	200	N	5	5	15	--
76RK065S	200	N	15	5	50	--
76RK066S	100	N	--	--	--	--
76RK066S	70	--	--	--	--	--
76RK067S	150	N	--	--	--	--
76RK068S	200	N	--	--	--	--
76RK069S	200	N	20	5	45	--
76RK070S	70	--	--	--	--	--
76RK070S	100	N	20	5	40	--
76RK071S	100	N	15	5	30	--
76RK073S	150	N	30	10	45	--
76RK075S	150	--	--	--	--	--
76RK075S	>1,000	N	--	--	--	--
76RK076S	500	--	--	--	--	--
77DM401S	150	N	70	<5	35	--
77DM402S	50	N	15	5	70	--
77DM403S	50	N	35	10	130	--
77DM404S	70	N	25	5	70	--
77DM405S	70	N	20	10	75	--
77DM406S	70	N	10	10	60	--
77DM407S	70	N	20	10	55	--
77DM408S	70	N	25	5	40	--
77DM409S	50	N	10	5	50	--
77DM410S	500	N	20	5	35	--
77DM411S	300	N	70	<5	40	--
77DM412S	70	N	35	5	60	--
77DM413S	150	N	35	10	120	--
77DM414S	50	N	85	5	75	--
77DM415S	70	N	95	5	55	--
77DM416S	70	N	35	10	50	--
77DM417S	70	N	20	10	85	--
77DM418S	150	N	20	5	40	--
77DM419S	100	N	25	10	45	--
77DM420S	200	N	20	5	50	--
77DM421S	70	N	25	10	70	--
77DM422S	70	N	25	10	55	--
77DM423S	300	N	15	10	55	--
77DM424S	50	N	20	10	55	--
77DM425S	50	N	10	15	35	--
77DM426S	150	N	25	10	50	--
77DM427S	150	N	25	5	40	--

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES--continued

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
77DM428S	54 56 52	130 33 41	3.0	1.5	2.0	1.00	1,000	N	N	N	<10	700	N	N	N
77DM429S	54 58 32	130 33 2	2.0	1.5	2.0	1.00	1,000	N	N	N	<10	700	<1.0	N	N
77DM430S	54 59 0	130 34 44	5.0	2.0	2.0	1.00	1,000	N	N	N	<10	700	N	N	N
77DM431S	54 58 14	130 35 17	5.0	1.5	2.0	1.00	1,500	N	N	N	<10	700	N	N	N
77DM432S	54 58 10	130 35 21	2.0	1.5	2.0	.70	1,000	N	N	N	<10	1,000	N	N	N
77DM433S	54 57 57	130 38 44	3.0	1.5	2.0	1.00	1,500	N	N	N	<10	700	N	N	N
77DM434S	54 54 11	130 39 1	2.0	1.5	1.5	.70	1,000	N	N	N	<10	500	N	N	N
77DM435S	54 56 39	130 40 29	7.0	1.5	1.5	1.00	1,000	N	N	N	<10	700	<1.0	N	N
77DM436S	54 53 26	130 36 53	3.0	1.0	1.5	.70	1,000	N	N	N	<10	700	<1.0	N	N
77DM437S	54 53 9	130 36 51	5.0	1.0	1.5	1.00	1,000	N	N	N	<10	700	<1.0	N	N
77DM438S	54 51 43	130 36 56	5.0	2.0	2.0	>1.00	1,500	N	N	N	<10	700	N	N	N
77DM439S	54 50 39	130 38 35	5.0	1.5	2.0	>1.00	1,000	N	N	N	<10	500	N	N	N
77DM440S	54 52 15	130 41 30	5.0	1.5	2.0	1.00	1,000	N	N	N	<10	500	<1.0	N	N
77DM441S	54 55 22	130 40 18	3.0	1.5	3.0	1.00	1,000	N	N	N	10	700	N	N	N
77DM442S	54 59 22	130 45 57	5.0	1.5	2.0	1.00	1,000	N	N	N	<10	300	N	N	N
77DM452S	54 59 13	130 49 1	3.0	3.0	1.5	.30	1,500	N	N	N	10	200	N	N	N
77DM464S	54 59 2	130 31 9	3.0	1.5	2.0	.70	1,500	N	N	N	<10	700	<1.0	N	N
77DM465S	54 59 3	130 31 1	3.0	1.0	1.5	1.00	1,500	N	N	N	10	700	<1.0	N	N
77DM470S	54 59 53	130 38 0	5.0	2.0	3.0	.70	1,000	N	N	N	<10	700	<1.0	N	N
77ER023S	54 57 38	131 26 0	2.0	.7	1.5	.70	1,000	N	N	N	10	500	<1.0	N	N
77ER024S	54 57 38	131 25 29	2.0	1.0	1.5	.70	1,000	N	N	N	10	500	N	N	N
77ER025S	54 57 37	131 24 33	7.0	1.0	1.0	>1.00	2,000	N	N	N	10	300	N	N	N
77ER026S	54 57 33	131 23 48	5.0	1.5	1.5	1.00	2,000	N	N	N	10	300	N	N	N
77ER027S	54 58 5	131 21 6	5.0	1.0	1.5	.70	1,500	N	N	N	<10	300	N	N	N
77ER028S	54 57 19	131 20 32	7.0	1.5	1.5	1.00	1,500	N	N	N	10	200	N	N	N
77ER029S	54 56 39	131 20 41	3.0	1.0	1.0	.15	1,500	N	N	N	10	50	N	N	N
77ER030S	54 57 26	131 21 59	3.0	.7	1.0	.70	2,000	N	N	N	10	300	N	N	N
77ER031S	54 57 24	131 21 55	5.0	1.5	1.5	.70	2,000	N	N	N	10	200	N	N	N
77ER032S	54 57 43	131 18 48	3.0	1.0	1.5	.70	1,000	N	N	N	10	1,000	<1.0	N	N
77ER033S	54 58 14	131 18 23	3.0	1.0	1.5	.50	1,000	N	N	N	10	700	N	N	N
77ER034S	54 58 27	131 18 10	5.0	1.5	1.5	1.00	1,000	N	N	N	10	70	N	N	N
77ER035S	54 58 45	131 15 20	5.0	1.0	1.5	.50	1,500	N	N	N	<10	300	N	N	N
77ER036S	54 57 44	131 14 58	5.0	1.0	1.5	1.00	1,500	N	N	N	10	300	<1.0	N	N
77ER037S	54 57 24	131 15 53	5.0	1.5	2.0	.70	1,500	N	N	N	<10	300	N	N	N
77ER038S	54 57 32	131 15 53	5.0	1.5	2.0	.70	1,500	N	N	N	10	300	N	N	N
77ER039S	54 56 48	131 13 59	5.0	1.5	1.5	>1.00	1,500	N	N	N	10	300	N	N	N
77ER040S	54 56 20	131 16 9	7.0	1.5	1.5	>1.00	1,500	N	N	N	<10	300	N	N	N
77ER041S	54 55 51	131 18 34	5.0	2.0	3.0	.50	2,000	N	N	N	10	150	N	N	N
77ER042S	54 55 20	131 20 7	10.0	2.0	3.0	1.00	1,000	N	N	N	10	70	N	N	N
77ER043S	54 55 1	131 21 30	2.0	3.0	5.0	.70	1,000	N	N	N	15	70	N	N	N
77ER044S	54 54 24	131 23 57	2.0	2.0	3.0	.70	1,000	N	N	N	<10	300	N	N	N
77ER045S	54 55 23	131 24 51	7.0	.7	1.5	>1.00	1,000	N	N	N	<10	500	<1.0	N	N
77ER046S	54 55 46	131 23 45	5.0	2.0	3.0	.70	1,500	N	N	N	20	150	N	N	N
77ER047S	54 56 41	131 29 3	1.5	1.5	2.0	.70	1,500	N	N	N	<10	500	N	N	N
77ER048S	54 55 53	131 28 59	2.0	1.0	2.0	.50	1,500	N	N	N	10	700	<1.0	N	N

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES--continued

SAMPLE	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN
77DM428S	20	70	20	50	N	N	30	<10	N	20	N	300	150	N	50	N
77DM429S	15	70	20	50	N	N	50	10	N	20	N	300	100	N	30	N
77DM430S	20	70	15	20	N	N	30	<10	N	20	N	500	150	N	30	N
77DM431S	20	70	15	30	N	N	20	<10	N	20	N	300	100	N	30	N
77DM432S	15	100	20	20	<5	N	30	10	N	20	N	300	150	N	30	N
77DM433S	20	150	15	20	N	N	20	15	N	20	N	300	100	N	30	N
77DM434S	20	70	15	20	N	N	20	10	N	20	N	500	100	N	15	N
77DM435S	30	50	7	30	N	N	20	10	N	30	N	500	150	N	30	N
77DM436S	15	30	30	<20	N	N	15	15	N	15	N	500	150	N	20	N
77DM437S	15	30	15	30	N	N	15	<10	N	15	N	500	100	N	20	N
77DM438S	30	150	15	20	N	N	30	<10	N	30	N	300	150	N	30	N
77DM439S	20	50	15	30	N	N	20	<10	N	20	N	300	100	N	20	N
77DM440S	20	70	7	<20	N	N	20	10	N	20	N	500	100	N	20	N
77DM441S	20	50	5	<20	N	N	20	10	N	20	N	500	150	N	15	N
77DM442S	20	70	15	<20	N	N	50	10	N	30	N	500	150	N	30	N
77DM452S	70	700	20	N	N	N	1,000	<10	N	15	N	300	50	N	10	N
77DM464S	20	50	20	30	N	N	30	10	N	20	N	500	150	N	30	N
77DM465S	50	70	30	30	N	N	50	10	N	20	N	300	100	N	30	N
77DM470S	30	100	20	20	N	N	50	10	N	30	N	500	150	N	30	N
77ER023S	15	30	10	20	N	N	15	<10	N	15	N	300	150	N	20	N
77ER024S	10	30	20	<20	N	N	10	<10	N	15	N	300	100	N	15	N
77ER025S	20	20	20	N	N	N	15	<10	N	20	N	300	100	N	20	N
77ER026S	20	50	10	<20	N	N	20	<10	N	20	N	300	150	N	20	N
77ER027S	15	20	20	N	N	N	15	<10	N	20	N	300	150	N	15	N
77ER028S	30	100	30	N	N	N	50	N	N	20	N	100	150	N	15	N
77ER029S	30	70	10	N	N	N	70	<10	N	20	N	100	150	N	10	N
77ER030S	20	50	7	N	N	N	30	<10	N	15	N	500	150	N	15	N
77ER031S	30	150	10	N	N	N	50	<10	N	20	N	300	150	N	10	N
77ER032S	15	100	15	<20	N	<20	30	<10	N	20	N	200	200	N	30	N
77ER033S	20	100	20	N	N	N	50	<10	N	20	N	150	200	N	20	N
77ER034S	20	150	5	N	N	N	50	N	N	20	N	100	200	N	10	N
77ER035S	15	300	10	<20	N	<20	30	<10	N	20	N	300	150	N	20	N
77ER036S	15	70	7	<20	N	N	50	<10	N	20	N	100	200	N	15	N
77ER037S	30	150	10	N	N	N	70	<10	N	30	N	300	200	N	20	N
77ER038S	20	150	20	N	N	<20	50	<10	N	30	N	200	200	N	20	N
77ER039S	20	70	20	N	N	N	20	<10	N	20	N	300	150	N	20	N
77ER040S	20	500	10	30	N	N	20	<10	N	20	N	200	200	N	20	N
77ER041S	30	500	10	N	N	N	70	N	N	20	N	200	200	N	15	N
77ER042S	30	500	10	N	N	N	50	N	N	70	N	200	200	N	15	N
77ER043S	100	150	70	N	N	N	70	<10	N	70	N	200	500	N	10	N
77ER044S	15	100	5	<20	N	N	10	<10	N	50	N	300	150	N	15	N
77ER045S	10	50	5	20	N	N	10	N	N	20	N	300	150	N	20	N
77ER046S	50	150	30	N	N	N	20	<10	N	50	N	200	300	N	15	N
77ER047S	20	70	10	<20	N	N	70	10	N	20	N	300	150	N	20	N
77ER048S	7	20	10	20	N	N	10	<10	N	15	N	500	100	N	15	N

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES--continued

SAMPLE	S-ZR	AA-AU-P	AA-CU-P	AA-PB-P	AA-ZN-P	INST-HG
77DM428S	150	N	20	10	35	--
77DM429S	100	N	30	10	40	--
77DM430S	100	N	15	5	35	--
77DM431S	30	N	15	5	35	--
77DM432S	70	N	30	5	55	--
77DM433S	150	N	20	10	60	--
77DM434S	150	N	10	10	50	--
77DM435S	50	N	10	10	30	--
77DM436S	100	N	35	15	70	--
77DM437S	150	N	10	15	50	--
77DM438S	150	N	15	10	40	--
77DM439S	150	N	5	10	45	--
77DM440S	100	N	5	10	30	--
77DM441S	100	N	5	10	40	--
77DM442S	150	N	15	5	5	--
77DM452S	30	N	20	10	60	--
77DM464S	200	N	20	10	45	--
77DM465S	100	N	35	15	70	--
77DM470S	100	N	25	5	40	--
77ER023S	70	N	15	5	30	--
77ER024S	200	N	10	5	20	--
77ER025S	70	N	15	5	40	--
77ER026S	100	N	20	5	45	--
77ER027S	70	N	15	5	60	--
77ER028S	20	N	30	5	55	--
77ER029S	50	N	65	10	55	--
77ER030S	150	N	15	10	35	--
77ER031S	70	N	10	10	30	--
77ER032S	100	N	10	5	45	--
77ER033S	150	N	20	10	30	--
77ER034S	15	N	40	15	25	--
77ER035S	70	N	15	<5	20	--
77ER036S	70	N	10	10	140	--
77ER037S	150	N	5	5	15	--
77ER038S	100	N	5	5	25	--
77ER039S	50	N	10	<5	20	--
77ER040S	50	N	<5	<5	10	--
77ER041S	20	N	15	5	25	--
77ER042S	20	N	15	<5	15	--
77ER043S	10	N	100	5	15	--
77ER044S	50	N	5	<5	10	--
77ER045S	100	N	<5	<5	5	--
77ER046S	30	N	35	5	30	--
77ER047S	70	N	10	5	25	--
77ER048S	70	N	15	5	25	--

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES--continued

SAMPLE	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI	S-CD
77ER049S	54 55 14	131 28 1	2.0	1.5	2.0	.70	1,500	N	N	N	10	300	<1.0	N	N
77ER050S	54 55 0	131 26 13	5.0	1.5	1.5	.50	1,000	N	N	N	10	300	<1.0	N	N
77ER051S	54 53 7	131 19 2	5.0	2.0	1.5	1.00	1,000	N	N	N	15	300	N	N	N
77ER052S	54 53 3	131 19 4	5.0	2.0	2.0	1.00	1,500	N	N	N	10	300	N	N	N
77ER053S	54 53 48	131 16 32	5.0	2.0	2.0	.70	1,000	N	N	N	10	100	N	N	N
77ER054S	54 54 8	131 15 6	5.0	2.0	2.0	.70	1,500	N	N	N	10	200	N	N	N
77ER055S	54 55 13	131 17 25	5.0	1.5	3.0	.70	1,500	N	N	N	10	300	N	N	N
77ER376S	54 48 42	130 36 23	5.0	1.5	2.0	1.00	1,500	.5	N	N	10	500	<1.0	N	N
77ER377S	54 49 31	130 35 45	3.0	1.0	1.5	.70	2,000	N	N	N	<10	1,000	<1.0	N	N
77ER378S	54 49 41	130 36 42	3.0	1.5	2.0	1.00	2,000	N	N	N	<10	700	N	N	N
77ER379S	54 50 25	130 35 21	3.0	1.0	1.5	>1.00	1,500	N	N	N	10	1,500	N	N	N
77ER380S	54 51 55	130 33 5	3.0	1.5	2.0	1.00	2,000	N	N	N	10	700	N	N	N
77ER381S	54 51 33	130 32 27	5.0	1.5	2.0	1.00	2,000	N	N	N	10	700	N	N	N
77ER382S	54 51 48	130 31 42	5.0	1.5	1.0	1.00	1,500	N	N	N	20	1,000	N	N	N
77ER383S	54 50 31	130 30 38	3.0	1.5	2.0	1.00	1,500	N	N	N	10	700	<1.0	N	N
77ER384S	54 49 32	130 31 13	3.0	1.5	1.5	1.00	1,500	N	N	N	10	1,000	<1.0	N	N
77ER385S	54 51 15	130 28 41	5.0	1.0	1.0	1.00	3,000	N	N	N	15	700	<1.0	N	N
77ER386S	54 51 12	130 28 50	5.0	1.5	1.5	>1.00	1,500	N	N	N	20	700	N	N	N
77ER387S	54 51 16	130 27 38	5.0	1.5	2.0	1.00	1,500	N	N	N	15	700	<1.0	N	N
77ER388S	54 52 11	130 26 31	5.0	1.5	1.5	1.00	2,000	N	N	N	15	700	N	N	N
77ER389S	54 52 40	130 25 47	5.0	1.5	1.5	1.00	1,500	N	N	N	15	700	<1.0	N	N
77ER390S	54 54 17	130 23 3	5.0	1.5	1.5	1.00	1,500	N	N	N	10	700	N	N	N
77ER391S	54 55 19	130 21 11	5.0	1.5	1.5	.70	1,500	N	N	N	10	700	<1.0	N	N
77ER392S	54 56 7	130 20 20	3.0	1.5	2.0	.70	1,500	<5	N	N	10	1,000	<1.0	N	N
77ER393S	54 56 34	130 20 31	3.0	1.0	2.0	.70	1,500	N	N	N	10	1,500	<1.0	N	N
77ER394S	54 57 21	130 18 35	5.0	.7	.7	.50	2,000	N	N	N	10	700	<1.0	N	N
77ER395S	54 58 18	130 17 26	5.0	1.0	1.5	.70	1,500	N	N	N	10	2,000	<1.0	N	N
77ER396S	54 59 23	130 16 26	5.0	1.0	1.0	.50	2,000	N	N	N	15	1,000	1.0	N	N
77RK483S	54 56 9	130 54 15	7.0	2.0	2.0	>1.00	1,500	N	N	N	<10	1,000	<1.0	N	N
77RK485S	54 56 4	130 53 21	5.0	.7	1.0	1.00	1,500	N	N	N	<10	700	<1.0	N	N

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES--continued

SAMPLE	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN
77ER049S	10	20	5	20	N	N	10	<10	N	20	N	500	150	N	20	N
77ER050S	15	30	7	20	N	N	15	<10	N	20	N	300	150	N	15	N
77ER051S	30	150	30	N	N	N	50	N	N	30	N	200	200	N	20	N
77ER052S	30	70	20	N	N	N	50	N	N	30	N	200	150	N	20	N
77ER053S	30	1,500	5	N	N	N	100	<10	N	30	N	200	150	N	10	N
77ER054S	50	300	30	N	N	N	70	<10	N	30	N	500	150	N	20	N
77ER055S	20	70	10	<20	N	N	30	<10	N	20	N	300	150	N	15	N
77ER376S	20	50	70	20	N	N	20	10	N	20	N	300	150	N	30	N
77ER377S	20	50	10	70	N	N	15	10	N	20	N	300	150	N	30	N
77ER378S	20	70	30	20	10	N	50	<10	N	20	N	500	300	N	20	N
77ER379S	20	30	20	20	N	N	30	<10	N	20	N	500	200	N	20	N
77ER380S	30	100	20	50	5	N	50	<10	N	20	N	500	150	N	20	N
77ER381S	20	70	15	70	N	N	30	<10	N	30	N	500	150	N	30	N
77ER382S	15	300	20	<20	7	N	70	<10	N	20	N	300	200	N	20	N
77ER383S	15	50	7	20	N	N	10	<10	N	20	N	500	150	N	20	N
77ER384S	15	30	10	20	N	N	10	10	N	20	N	300	150	N	20	N
77ER385S	50	150	30	20	N	N	70	10	N	15	N	300	200	N	20	N
77ER386S	30	150	15	50	N	N	70	10	N	20	N	300	200	N	20	N
77ER387S	20	150	15	20	N	N	50	<10	N	15	N	500	200	N	20	N
77ER388S	30	70	15	<20	N	N	50	<10	N	20	N	500	200	N	20	N
77ER389S	20	70	15	30	N	N	30	<10	N	15	N	300	200	N	20	N
77ER390S	30	150	20	20	N	N	70	<10	N	15	N	300	200	N	30	200
77ER391S	20	70	20	<20	<5	N	30	10	N	15	N	300	200	N	20	N
77ER392S	20	70	30	<20	5	N	30	10	N	15	N	300	200	N	20	N
77ER393S	15	30	20	<20	N	N	15	10	N	15	N	500	150	N	15	N
77ER394S	30	30	15	20	N	N	20	10	N	15	N	300	100	N	15	N
77ER395S	20	50	20	20	N	N	20	10	N	20	N	500	200	N	20	N
77ER396S	20	10	15	20	N	N	15	15	N	15	N	300	100	N	20	N
77RK483S	30	70	30	100	N	N	70	10	N	20	N	500	150	N	30	N
77RK485S	10	15	15	20	N	N	10	15	N	15	N	500	100	N	20	N

TABLE 6. ANALYTICAL DATA FOR STREAM-SEDIMENT SAMPLES--continued

SAMPLE	S-ZR	AA-AU-P	AA-CU-P	AA-PB-P	AA-ZN-P	INST-HG
77ER049S	50	N	5	5	20	--
77ER050S	50	N	5	5	20	--
77ER051S	50	N	15	5	30	--
77ER052S	50	N	5	5	10	--
77ER053S	50	N	<5	<5	20	--
77ER054S	30	N	20	5	20	--
77ER055S	30	N	<5	5	20	--
77ER376S	100	N	25	10	75	--
77ER377S	200	N	5	10	40	--
77ER378S	200	N	25	10	85	--
77ER379S	300	N	20	5	45	--
77ER380S	100	N	25	10	80	--
77ER381S	100	N	10	5	40	--
77ER382S	100	N	25	10	90	--
77ER383S	300	N	5	5	40	--
77ER384S	200	N	5	5	45	--
77ER385S	100	N	20	15	95	--
77ER386S	100	N	15	10	70	--
77ER387S	100	N	15	10	55	--
77ER388S	100	N	15	10	55	--
77ER389S	100	N	15	10	55	--
77ER390S	100	N	20	10	110	--
77ER391S	100	N	25	10	90	--
77ER392S	100	N	35	15	95	--
77ER393S	70	N	20	5	35	--
77ER394S	50	N	10	10	55	--
77ER395S	70	N	25	10	55	--
77ER396S	70	N	10	15	75	--
77RK483S	70	N	25	10	65	--
77RK485S	70	N	10	10	25	--

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES

TITLE
PRINCE RUPERT QUAD ROCK DATA

THE MAX AND MIN 0.20000e+01 FOR S-AG ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.

S-AS CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

S-AU CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

S-BI CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

S-CD CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

S-SB CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

S-SN CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

S-W CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

THE MAX AND MIN 0.10000e+00 FOR AA-AU ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.

INST-HG CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

THE FREQUENCY DISTRIBUTIONS AND HISTOGRAMS ON THE FOLLOWING PAGES ARE ON LOGARITHMIC SCALES, AND EMPLOY THE SAME CLASS INTERVALS AS USED IN REPORTING 6-STEP SEMIQUANTITATIVE SPECTROGRAPHIC ANALYSES. IMPORTANT NOTE- THE STATISTICS GIVEN BELOW THE HISTOGRAMS ARE DERIVED ONLY FROM DATA VALUES WITHIN THE RANGES OF ANALYTICAL DETERMINATION, AND ARE, THEREFORE, BIASED IF DATA VALUES QUALIFIED WITH N, L, G, T, OR H CODES ARE PRESENT. SEE LATER SECTION OF OUTPUT FOR STATISTICAL ESTIMATES THAT ARE UNBIASED IN THIS REGARD. THE GEOMETRIC MEAN IS AN ESTIMATE OF "CENTRAL TENDENCY," OR OF A CHARACTERISTIC VALUE, OF A FREQUENCY DISTRIBUTION THAT IS APPROXIMATELY SYMMETRICAL ON A LOG SCALE, AND IS THEREFORE USEFUL FOR CHARACTERIZING MANY GEOCHEMICAL DISTRIBUTIONS. THE GEOMETRIC MEAN IS NOT AN ESTIMATE OF GEOCHEMICAL ABUNDANCE AND IS OF NO VALUE IN ESTIMATING RESERVES OR TOTAL AMOUNTS OF ELEMENTS PRESENT.

THE CUMULATIVE FREQUENCY PERCENTS GIVEN BELOW SHOULD BE PLOTTED AGAINST THE "LOWER" LIMITS TO GIVE THE LEPELTIER-TYPE CUMULATIVE CURVE.

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 1 (S-FE%)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e-02 -	5.6e-02	0	0	0.00	100.00
5.6e-02 -	8.3e-02	0	0	0.00	100.00
8.3e-02 -	1.2e-01	0	0	0.00	100.00
1.2e-01 -	1.8e-01	0	0	0.00	100.00
1.8e-01 -	2.6e-01	2	2	1.74	100.00
2.6e-01 -	3.8e-01	0	2	0.00	98.26
3.8e-01 -	5.6e-01	2	4	1.74	98.26
5.6e-01 -	8.3e-01	1	5	0.87	96.52
8.3e-01 -	1.2e+00	4	9	3.48	95.65
1.2e+00 -	1.8e+00	12	21	10.43	92.17
1.8e+00 -	2.6e+00	17	38	14.78	81.74
2.6e+00 -	3.8e+00	10	48	8.70	66.96
3.8e+00 -	5.6e+00	16	64	13.91	58.26
5.6e+00 -	8.3e+00	9	73	7.83	44.35
8.3e+00 -	1.2e+01	24	97	20.87	36.52
1.2e+01 -	1.8e+01	17	114	14.78	15.65
1.8e+01 -	2.6e+01	1	115	0.87	0.87

HISTOGRAM FOR COLUMN 1 (S-FE%)

```
2.0e-01 XX
3.0e-01
5.0e-01 XX
7.0e-01 X
1.0e+00 XXX
1.5e+00 XXXXXXXXXX
2.0e+00 XXXXXXXXXXXXXXX
3.0e+00 XXXXXXXXX
5.0e+00 XXXXXXXXXXXXXX
7.0e+00 XXXXXXXX
1.0e+01 XXXXXXXXXXXXXXXXXXXXX
1.5e+01 XXXXXXXXXXXXXX
2.0e+01 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	2	0	0	115
0.00	0.00			0.00	0.00	

MAXIMUM = 2.00000e+01
MINIMUM = 2.00000e-01
GEOMETRIC MEAN = 4.39422e+00
GEOMETRIC DEVIATION = 2.70522e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 2 (S-MG%)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8e-02 -	2.6e-02	1	1	0.87	100.00
2.6e-02 -	3.8e-02	0	1	0.00	99.13
3.8e-02 -	5.6e-02	2	3	1.74	99.13
5.6e-02 -	8.3e-02	2	5	1.74	97.39
8.3e-02 -	1.2e-01	0	5	0.00	95.65
1.2e-01 -	1.8e-01	0	5	0.00	95.65
1.8e-01 -	2.6e-01	4	9	3.48	95.65
2.6e-01 -	3.8e-01	8	17	6.96	92.17
3.8e-01 -	5.6e-01	5	22	4.35	85.22
5.6e-01 -	8.3e-01	17	39	14.78	80.87
8.3e-01 -	1.2e+00	11	50	9.57	66.09
1.2e+00 -	1.8e+00	12	62	10.43	56.52
1.8e+00 -	2.6e+00	19	81	16.52	46.09
2.6e+00 -	3.8e+00	19	100	16.52	29.57
3.8e+00 -	5.6e+00	8	108	6.96	13.04
5.6e+00 -	8.3e+00	7	115	6.09	6.09

HISTOGRAM FOR COLUMN 2 (S-MG%)

```
      2.0e-02 X
      3.0e-02
      5.0e-02 XX
      7.0e-02 XX
      1.0e-01
      1.5e-01
      2.0e-01 XXX
      3.0e-01 XXXXXXX
      5.0e-01 XXXX
      7.0e-01 XXXXXXXXXXXXXX
      1.0e+00 XXXXXXXXXX
      1.5e+00 XXXXXXXXXX
      2.0e+00 XXXXXXXXXXXXXXXX
      3.0e+00 XXXXXXXXXXXXXXXX
      5.0e+00 XXXXXXX
      7.0e+00 XXXXXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	2	0	0	115
0.00	0.00			0.00	0.00	

MAXIMUM = 7.00000e+00
MINIMUM = 2.00000e-02
GEOMETRIC MEAN = 1.23835e+00
GEOMETRIC DEVIATION = 3.14807e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 3 (S-CA%)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e-02 -	5.6e-02	0	0	0.00	100.00
5.6e-02 -	8.3e-02	0	0	0.00	100.00
8.3e-02 -	1.2e-01	4	4	3.48	100.00
1.2e-01 -	1.8e-01	4	8	3.48	96.52
1.8e-01 -	2.6e-01	4	12	3.48	93.04
2.6e-01 -	3.8e-01	4	16	3.48	89.57
3.8e-01 -	5.6e-01	6	22	5.22	86.09
5.6e-01 -	8.3e-01	7	29	6.09	80.87
8.3e-01 -	1.2e+00	16	45	13.91	74.78
1.2e+00 -	1.8e+00	11	56	9.57	60.87
1.8e+00 -	2.6e+00	21	77	18.26	51.30
2.6e+00 -	3.8e+00	16	93	13.91	33.04
3.8e+00 -	5.6e+00	18	111	15.65	19.13
5.6e+00 -	8.3e+00	2	113	1.74	3.48
8.3e+00 -	1.2e+01	2	115	1.74	1.74

HISTOGRAM FOR COLUMN 3 (S-CA%)

```
1.0e-01 XXX
1.5e-01 XXX
2.0e-01 XXX
3.0e-01 XXX
5.0e-01 XXXXX
7.0e-01 XXXXXX
1.0e+00 XXXXXXXXXXXXX
1.5e+00 XXXXXXXXXX
2.0e+00 XXXXXXXXXXXXXXXXX
3.0e+00 XXXXXXXXXXXXX
5.0e+00 XXXXXXXXXXXXXXX
7.0e+00 XX
1.0e+01 XX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	2	0	0	115
0.00	0.00			0.00	0.00	

MAXIMUM = 1.00000e+01
MINIMUM = 1.00000e-01
GEOMETRIC MEAN = 1.40804e+00
GEOMETRIC DEVIATION = 3.00586e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 4 (S-TI%)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8e-03 -	2.6e-03	0	0	0.00	99.13
2.6e-03 -	3.8e-03	0	0	0.00	99.13
3.8e-03 -	5.6e-03	0	0	0.00	99.13
5.6e-03 -	8.3e-03	0	0	0.00	99.13
8.3e-03 -	1.2e-02	2	2	1.74	99.13
1.2e-02 -	1.8e-02	1	3	0.87	97.39
1.8e-02 -	2.6e-02	1	4	0.87	96.52
2.6e-02 -	3.8e-02	0	4	0.00	95.65
3.8e-02 -	5.6e-02	0	4	0.00	95.65
5.6e-02 -	8.3e-02	2	6	1.74	95.65
8.3e-02 -	1.2e-01	5	11	4.35	93.91
1.2e-01 -	1.8e-01	11	22	9.57	89.57
1.8e-01 -	2.6e-01	27	49	23.48	80.00
2.6e-01 -	3.8e-01	25	74	21.74	56.52
3.8e-01 -	5.6e-01	31	105	26.96	34.78
5.6e-01 -	8.3e-01	6	111	5.22	7.83
8.3e-01 -	1.2e+00	3	114	2.61	2.61

HISTOGRAM FOR COLUMN 4 (S-TI%)

```
1.0e-02 XX
1.5e-02 X
2.0e-02 X
3.0e-02
5.0e-02
7.0e-02 XX
1.0e-01 XXXX
1.5e-01 XXXXXXXXXX
2.0e-01 XXXXXXXXXXXXXXXXXXXXXX
3.0e-01 XXXXXXXXXXXXXXXXXXXX
5.0e-01 XXXXXXXXXXXXXXXXXXXXXXXXXX
7.0e-01 XXXXX
1.0e+00 XXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	1	0	2	0	0	114
0.00	0.87			0.00	0.00	

MAXIMUM = 1.00000e+00
MINIMUM = 1.00000e-02
GEOMETRIC MEAN = 2.63127e-01
GEOMETRIC DEVIATION = 2.24894e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 5 (S-MN)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 -	1.2e+01	0	0	0.00	99.13
1.2e+01 -	1.8e+01	0	0	0.00	99.13
1.8e+01 -	2.6e+01	0	0	0.00	99.13
2.6e+01 -	3.8e+01	0	0	0.00	99.13
3.8e+01 -	5.6e+01	2	2	1.74	99.13
5.6e+01 -	8.3e+01	4	6	3.48	97.39
8.3e+01 -	1.2e+02	6	12	5.22	93.91
1.2e+02 -	1.8e+02	2	14	1.74	88.70
1.8e+02 -	2.6e+02	12	26	10.43	86.96
2.6e+02 -	3.8e+02	5	31	4.35	76.52
3.8e+02 -	5.6e+02	13	44	11.30	72.17
5.6e+02 -	8.3e+02	10	54	8.70	60.87
8.3e+02 -	1.2e+03	21	75	18.26	52.17
1.2e+03 -	1.8e+03	36	111	31.30	33.91
1.8e+03 -	2.6e+03	3	114	2.61	2.61

HISTOGRAM FOR COLUMN 5 (S-MN)

```
5.0e+01 XX
7.0e+01 XXX
1.0e+02 XXXXX
1.5e+02 XX
2.0e+02 XXXXXXXXXX
3.0e+02 XXXX
5.0e+02 XXXXXXXXXXX
7.0e+02 XXXXXXXXX
1.0e+03 XXXXXXXXXXXXXXXXXX
1.5e+03 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.0e+03 XXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	1	0	2	0	0	114
0.00	0.87			0.00	0.00	

MAXIMUM = 2.00010e+03
MINIMUM = 5.00000e+01
GEOMETRIC MEAN = 6.14733e+02
GEOMETRIC DEVIATION = 2.69977e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 9 (S-B)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 -	1.2e+01	36	36	31.30	46.09
1.2e+01 -	1.8e+01	6	42	5.22	14.78
1.8e+01 -	2.6e+01	4	46	3.48	9.57
2.6e+01 -	3.8e+01	2	48	1.74	6.09
3.8e+01 -	5.6e+01	3	51	2.61	4.35
5.6e+01 -	8.3e+01	1	52	0.87	1.74
8.3e+01 -	1.2e+02	1	53	0.87	0.87

HISTOGRAM FOR COLUMN 9 (S-B)

```
1.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.5e+01 XXXXX
2.0e+01 XXX
3.0e+01 XX
5.0e+01 XXX
7.0e+01 X
1.0e+02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
2	60	0	2	0	0	53
1.74	52.17			0.00	0.00	

MAXIMUM = 1.00010e+02
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 1.36471e+01
GEOMETRIC DEVIATION = 1.77313e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 10 (S-BA)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8e+01 -	2.6e+01	1	1	0.87	97.39
2.6e+01 -	3.8e+01	0	1	0.00	96.52
3.8e+01 -	5.6e+01	1	2	0.87	96.52
5.6e+01 -	8.3e+01	0	2	0.00	95.65
8.3e+01 -	1.2e+02	1	3	0.87	95.65
1.2e+02 -	1.8e+02	5	8	4.35	94.78
1.8e+02 -	2.6e+02	0	8	0.00	90.43
2.6e+02 -	3.8e+02	12	20	10.43	90.43
3.8e+02 -	5.6e+02	11	31	9.57	80.00
5.6e+02 -	8.3e+02	23	54	20.00	70.43
8.3e+02 -	1.2e+03	29	83	25.22	50.43
1.2e+03 -	1.8e+03	20	103	17.39	25.22
1.8e+03 -	2.6e+03	9	112	7.83	7.83

HISTOGRAM FOR COLUMN 10 (S-BA)

```
       2.0e+01 X
       3.0e+01
       5.0e+01 X
       7.0e+01
       1.0e+02 X
       1.5e+02 XXXX
       2.0e+02
       3.0e+02 XXXXXXXXXX
       5.0e+02 XXXXXXXXXX
       7.0e+02 XXXXXXXXXXXXXXXXXXXX
       1.0e+03 XXXXXXXXXXXXXXXXXXXXXXXX
       1.5e+03 XXXXXXXXXXXXXXXX
       2.0e+03 XXXXXXXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	3	0	2	0	0	112
0.00	2.61			0.00	0.00	

MAXIMUM = 2.00010e+03
MINIMUM = 2.00000e+01
GEOMETRIC MEAN = 7.34092e+02
GEOMETRIC DEVIATION = 2.21363e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 11 (S-BE)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e-01 -	1.2e+00	26	26	22.22	31.62
1.2e+00 -	1.8e+00	3	29	2.56	9.40
1.8e+00 -	2.6e+00	8	37	6.84	6.84

HISTOGRAM FOR COLUMN 11 (S-BE)

```
1.0e+00 XXXXXXXXXXXXXXXXXXXXX
1.5e+00 XXX
2.0e+00 XXXXXXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
2	78	0	0	0	0	37
1.71	66.67			0.00	0.00	

MAXIMUM = 2.00000e+00
MINIMUM = 1.00000e+00
GEOMETRIC MEAN = 1.20051e+00
GEOMETRIC DEVIATION = 1.34112e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 14 (S-CO)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	3	3	2.56	74.36
5.6e+00 -	8.3e+00	1	4	0.85	71.79
8.3e+00 -	1.2e+01	24	28	20.51	70.94
1.2e+01 -	1.8e+01	4	32	3.42	50.43
1.8e+01 -	2.6e+01	22	54	18.80	47.01
2.6e+01 -	3.8e+01	22	76	18.80	28.21
3.8e+01 -	5.6e+01	9	85	7.69	9.40
5.6e+01 -	8.3e+01	2	87	1.71	1.71

HISTOGRAM FOR COLUMN 14 (S-CO)

```
5.0e+00 XXX
7.0e+00 X
1.0e+01 XXXXXXXXXXXXXXXXXXXX
1.5e+01 XXX
2.0e+01 XXXXXXXXXXXXXXXXXX
3.0e+01 XXXXXXXXXXXXXXXXXX
5.0e+01 XXXXXXXX
7.0e+01 XX
```

N	L	H	B	T	G	ANALYTICAL VALUES
2	28	0	0	0	0	87
1.71	23.93			0.00	0.00	

MAXIMUM = 7.00010e+01
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 1.92507e+01
GEOMETRIC DEVIATION = 1.85642e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 15 (S-CR)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 -	1.2e+01	10	10	8.55	60.68
1.2e+01 -	1.8e+01	2	12	1.71	52.14
1.8e+01 -	2.6e+01	10	22	8.55	50.43
2.6e+01 -	3.8e+01	6	28	5.13	41.88
3.8e+01 -	5.6e+01	8	36	6.84	36.75
5.6e+01 -	8.3e+01	11	47	9.40	29.91
8.3e+01 -	1.2e+02	3	50	2.56	20.51
1.2e+02 -	1.8e+02	13	63	11.11	17.95
1.8e+02 -	2.6e+02	2	65	1.71	6.84
2.6e+02 -	3.8e+02	1	66	0.85	5.13
3.8e+02 -	5.6e+02	3	69	2.56	4.27
5.6e+02 -	8.3e+02	1	70	0.85	1.71
8.3e+02 -	1.2e+03	1	71	0.85	0.85

HISTOGRAM FOR COLUMN 15 (S-CR)

```
1.0e+01 XXXXXXXXX
1.5e+01 XX
2.0e+01 XXXXXXXXX
3.0e+01 XXXXX
5.0e+01 XXXXXXX
7.0e+01 XXXXXXXXX
1.0e+02 XXX
1.5e+02 XXXXXXXXXXX
2.0e+02 XX
3.0e+02 X
5.0e+02 XXX
7.0e+02 X
1.0e+03 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
1	45	0	0	0	0	71
0.85	38.46			0.00	0.00	

MAXIMUM = 1.00000e+03
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 5.47479e+01
GEOMETRIC DEVIATION = 3.21480e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 16 (S-CU)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	5	5	4.27	67.52
5.6e+00 -	8.3e+00	1	6	0.85	63.25
8.3e+00 -	1.2e+01	12	18	10.26	62.39
1.2e+01 -	1.8e+01	13	31	11.11	52.14
1.8e+01 -	2.6e+01	6	37	5.13	41.03
2.6e+01 -	3.8e+01	16	53	13.68	35.90
3.8e+01 -	5.6e+01	3	56	2.56	22.22
5.6e+01 -	8.3e+01	8	64	6.84	19.66
8.3e+01 -	1.2e+02	11	75	9.40	12.82
1.2e+02 -	1.8e+02	3	78	2.56	3.42
1.8e+02 -	2.6e+02	1	79	0.85	0.85

HISTOGRAM FOR COLUMN 16 (S-CU)

```
5.0e+00 XXXX
7.0e+00 X
1.0e+01 XXXXXXXXXX
1.5e+01 XXXXXXXXXXX
2.0e+01 XXXXX
3.0e+01 XXXXXXXXXXXXXX
5.0e+01 XXX
7.0e+01 XXXXXXX
1.0e+02 XXXXXXXXX
1.5e+02 XXX
2.0e+02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	38	0	0	0	0	79
0.00	32.48			0.00	0.00	

MAXIMUM = 2.00010e+02
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 2.75401e+01
GEOMETRIC DEVIATION = 2.63377e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 17 (S-LA)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8e+01 -	2.6e+01	0	0	0.00	71.79
2.6e+01 -	3.8e+01	24	24	20.51	71.79
3.8e+01 -	5.6e+01	51	75	43.59	51.28
5.6e+01 -	8.3e+01	7	82	5.98	7.69
8.3e+01 -	1.2e+02	2	84	1.71	1.71

HISTOGRAM FOR COLUMN 17 (S-LA)

```
3.0e+01 XXXXXXXXXXXXXXXXXXX
5.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.0e+01 XXXXXX
1.0e+02 XX
```

N	L	H	B	T	G	ANALYTICAL VALUES
23	10	0	0	0	0	84
19.66	8.55			0.00	0.00	

MAXIMUM = 1.00010e+02
MINIMUM = 3.00000e+01
GEOMETRIC MEAN = 4.51784e+01
GEOMETRIC DEVIATION = 1.34119e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 18 (S-MO)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	0	0	0.00	5.98
5.6e+00 -	8.3e+00	0	0	0.00	5.98
8.3e+00 -	1.2e+01	3	3	2.56	5.98
1.2e+01 -	1.8e+01	0	3	0.00	3.42
1.8e+01 -	2.6e+01	0	3	0.00	3.42
2.6e+01 -	3.8e+01	3	6	2.56	3.42
3.8e+01 -	5.6e+01	1	7	0.85	0.85

HISTOGRAM FOR COLUMN 18 (S-MO)

```
1.0e+01 XXX
1.5e+01
2.0e+01
3.0e+01 XXX
5.0e+01 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
99	11	0	0	0	0	7
84.62	9.40			0.00	0.00	

MAXIMUM = 5.00000e+01
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 2.01527e+01
GEOMETRIC DEVIATION = 1.97372e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 19 (S-NB)

LIMITS LOWER - UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8e+01 - 2.6e+01	1	1	0.85	15.38

HISTOGRAM FOR COLUMN 19 (S-NB)

2.0e+01 X

N	L	H	B	T	G	ANALYTICAL VALUES
1	98	0	0	0	0	18
0.85	83.76			0.00	0.00	

MAXIMUM = 2.00000e+01
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 1.08716e+01
GEOMETRIC DEVIATION = 1.22206e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 20 (S-NI)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	12	12	10.26	58.97
5.6e+00 -	8.3e+00	2	14	1.71	48.72
8.3e+00 -	1.2e+01	5	19	4.27	47.01
1.2e+01 -	1.8e+01	5	24	4.27	42.74
1.8e+01 -	2.6e+01	20	44	17.09	38.46
2.6e+01 -	3.8e+01	6	50	5.13	21.37
3.8e+01 -	5.6e+01	7	57	5.98	16.24
5.6e+01 -	8.3e+01	3	60	2.56	10.26
8.3e+01 -	1.2e+02	1	61	0.85	7.69
1.2e+02 -	1.8e+02	7	68	5.98	6.84
1.8e+02 -	2.6e+02	0	68	0.00	0.85
2.6e+02 -	3.8e+02	0	68	0.00	0.85
3.8e+02 -	5.6e+02	0	68	0.00	0.85
5.6e+02 -	8.3e+02	1	69	0.85	0.85

HISTOGRAM FOR COLUMN 20 (S-NI)

```
5.0e+00 XXXXXXXXXX
7.0e+00 XX
1.0e+01 XXXX
1.5e+01 XXXX
2.0e+01 XXXXXXXXXXXXXXXXX
3.0e+01 XXXXX
5.0e+01 XXXXXX
7.0e+01 XXX
1.0e+02 X
1.5e+02 XXXXXX
2.0e+02
3.0e+02
5.0e+02
7.0e+02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	48	0	0	0	0	69
0.00	41.03			0.00	0.00	

MAXIMUM = 7.00010e+02
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 2.25355e+01
GEOMETRIC DEVIATION = 3.00502e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 21 (S-PB)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 -	1.2e+01	37	37	31.62	82.05
1.2e+01 -	1.8e+01	15	52	12.82	50.43
1.8e+01 -	2.6e+01	28	80	23.93	37.61
2.6e+01 -	3.8e+01	13	93	11.11	13.68
3.8e+01 -	5.6e+01	2	95	1.71	2.56
5.6e+01 -	8.3e+01	1	96	0.85	0.85

HISTOGRAM FOR COLUMN 21 (S-PB)

```
1.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.5e+01 XXXXXXXXXXXXX
2.0e+01 XXXXXXXXXXXXXXXXXXXXXXXX
3.0e+01 XXXXXXXXXXX
5.0e+01 XX
7.0e+01 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	21	0	0	0	0	96
0.00	17.95			0.00	0.00	

MAXIMUM = 7.00010e+01
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 1.59696e+01
GEOMETRIC DEVIATION = 1.57388e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 23 (S-SC)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	17	17	14.78	77.39
5.6e+00 -	8.3e+00	2	19	1.74	62.61
8.3e+00 -	1.2e+01	13	32	11.30	60.87
1.2e+01 -	1.8e+01	10	42	8.70	49.57
1.8e+01 -	2.6e+01	23	65	20.00	40.87
2.6e+01 -	3.8e+01	11	76	9.57	20.87
3.8e+01 -	5.6e+01	2	78	1.74	11.30
5.6e+01 -	8.3e+01	10	88	8.70	9.57
8.3e+01 -	1.2e+02	1	89	0.87	0.87

HISTOGRAM FOR COLUMN 23 (S-SC)

```
5.0e+00 XXXXXXXXXXXXXX
7.0e+00 XX
1.0e+01 XXXXXXXXXX
1.5e+01 XXXXXXXXX
2.0e+01 XXXXXXXXXXXXXXXXXXX
3.0e+01 XXXXXXXXXX
5.0e+01 XX
7.0e+01 XXXXXXXXX
1.0e+02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
3	23	0	2	0	0	89
2.61	20.00			0.00	0.00	

MAXIMUM = 1.00010e+02
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 1.64995e+01
GEOMETRIC DEVIATION = 2.29023e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 25 (S-SR)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+01 -	1.2e+02	0	0	0.00	99.13
1.2e+02 -	1.8e+02	2	2	1.74	99.13
1.8e+02 -	2.6e+02	14	16	12.17	97.39
2.6e+02 -	3.8e+02	18	34	15.65	85.22
3.8e+02 -	5.6e+02	28	62	24.35	69.57
5.6e+02 -	8.3e+02	16	78	13.91	45.22
8.3e+02 -	1.2e+03	27	105	23.48	31.30
1.2e+03 -	1.8e+03	8	113	6.96	7.83
1.8e+03 -	2.6e+03	1	114	0.87	0.87

HISTOGRAM FOR COLUMN 25 (S-SR)

```
1.5e+02 XX
2.0e+02 XXXXXXXXXXXX
3.0e+02 XXXXXXXXXXXXXXXX
5.0e+02 XXXXXXXXXXXXXXXXXXXXXXXX
7.0e+02 XXXXXXXXXXXXXX
1.0e+03 XXXXXXXXXXXXXXXXXXXXXXXX
1.5e+03 XXXXXXX
2.0e+03 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
1	0	0	2	0	0	114
0.87	0.00			0.00	0.00	

MAXIMUM = 2.00010e+03
MINIMUM = 1.50010e+02
GEOMETRIC MEAN = 5.45097e+02
GEOMETRIC DEVIATION = 1.87775e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 26 (S-V)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 -	1.2e+01	3	3	2.56	94.87
1.2e+01 -	1.8e+01	1	4	0.85	92.31
1.8e+01 -	2.6e+01	6	10	5.13	91.45
2.6e+01 -	3.8e+01	8	18	6.84	86.32
3.8e+01 -	5.6e+01	10	28	8.55	79.49
5.6e+01 -	8.3e+01	10	38	8.55	70.94
8.3e+01 -	1.2e+02	8	46	6.84	62.39
1.2e+02 -	1.8e+02	11	57	9.40	55.56
1.8e+02 -	2.6e+02	24	81	20.51	46.15
2.6e+02 -	3.8e+02	26	107	22.22	25.64
3.8e+02 -	5.6e+02	3	110	2.56	3.42
5.6e+02 -	8.3e+02	0	110	0.00	0.85
8.3e+02 -	1.2e+03	0	110	0.00	0.85
1.2e+03 -	1.8e+03	0	110	0.00	0.85
1.8e+03 -	2.6e+03	0	110	0.00	0.85
2.6e+03 -	3.8e+03	0	110	0.00	0.85
3.8e+03 -	5.6e+03	0	110	0.00	0.85
5.6e+03 -	8.3e+03	0	110	0.00	0.85
8.3e+03 -	1.2e+04	1	111	0.85	0.85

80

HISTOGRAM FOR COLUMN 26 (S-V)

```
1.0e+01 XXX
1.5e+01 X
2.0e+01 XXXXX
3.0e+01 XXXXXXX
5.0e+01 XXXXXXXXX
7.0e+01 XXXXXXXXX
1.0e+02 XXXXXXX
1.5e+02 XXXXXXXXX
2.0e+02 XXXXXXXXXXXXXXXXXXXX
3.0e+02 XXXXXXXXXXXXXXXXXXXX
5.0e+02 XXX
7.0e+02
1.0e+03
1.5e+03
2.0e+03
3.0e+03
5.0e+03
7.0e+03
1.0e+04 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	6	0	0	0	0	111
0.00	5.13			0.00	0.00	

MAXIMUM = 1.00010e+04
MINIMUM = 1.00000e+01

GEOMETRIC MEAN = 1.20289e+02
GEOMETRIC DEVIATION = 2.87445e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 28 (S-Y)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 -	1.2e+01	13	13	11.11	68.38
1.2e+01 -	1.8e+01	21	34	17.95	57.26
1.8e+01 -	2.6e+01	35	69	29.91	39.32
2.6e+01 -	3.8e+01	6	75	5.13	9.40
3.8e+01 -	5.6e+01	3	78	2.56	4.27
5.6e+01 -	8.3e+01	0	78	0.00	1.71
8.3e+01 -	1.2e+02	1	79	0.85	1.71
1.2e+02 -	1.8e+02	0	79	0.00	0.85
1.8e+02 -	2.6e+02	1	80	0.85	0.85

HISTOGRAM FOR COLUMN 28 (S-Y)

```
1.0e+01 XXXXXXXXXXX
1.5e+01 XXXXXXXXXXXXXXXXXX
2.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0e+01 XXXXX
5.0e+01 XXX
7.0e+01
1.0e+02 X
1.5e+02
2.0e+02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
2	35	0	0	0	0	80
1.71	29.91			0.00	0.00	

MAXIMUM = 2.00010e+02
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 1.85648e+01
GEOMETRIC DEVIATION = 1.63167e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 29 (S-ZN)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8e+02 -	2.6e+02	1	1	0.85	1.71
2.6e+02 -	3.8e+02	0	1	0.00	0.85
3.8e+02 -	5.6e+02	0	1	0.00	0.85
5.6e+02 -	8.3e+02	0	1	0.00	0.85
8.3e+02 -	1.2e+03	0	1	0.00	0.85
1.2e+03 -	1.8e+03	1	2	0.85	0.85

HISTOGRAM FOR COLUMN 29 (S-ZN)

```
2.0e+02 X
3.0e+02
5.0e+02
7.0e+02
1.0e+03
1.5e+03 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
109	6	0	0	0	0	2
93.16	5.13			0.00	0.00	

MAXIMUM = 1.50010e+03
MINIMUM = 2.00010e+02
GEOMETRIC MEAN = 5.47755e+02
GEOMETRIC DEVIATION = 4.15687e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 30 (S-ZR)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3e+00 -	1.2e+01	3	3	2.61	98.26
1.2e+01 -	1.8e+01	0	3	0.00	95.65
1.8e+01 -	2.6e+01	8	11	6.96	95.65
2.6e+01 -	3.8e+01	3	14	2.61	88.70
3.8e+01 -	5.6e+01	21	35	18.26	86.09
5.6e+01 -	8.3e+01	15	50	13.04	67.83
8.3e+01 -	1.2e+02	26	76	22.61	54.78
1.2e+02 -	1.8e+02	15	91	13.04	32.17
1.8e+02 -	2.6e+02	10	101	8.70	19.13
2.6e+02 -	3.8e+02	8	109	6.96	10.43
3.8e+02 -	5.6e+02	4	113	3.48	3.48

HISTOGRAM FOR COLUMN 30 (S-ZR)

```
1.0e+01 XXX
1.5e+01
2.0e+01 XXXXXXX
3.0e+01 XXX
5.0e+01 XXXXXXXXXXXXXXXXXX
7.0e+01 XXXXXXXXXXXXX
1.0e+02 XXXXXXXXXXXXXXXXXXXXXX
1.5e+02 XXXXXXXXXXXXX
2.0e+02 XXXXXXXXX
3.0e+02 XXXXXXX
5.0e+02 XXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	2	0	2	0	0	113
0.00	1.74			0.00	0.00	

MAXIMUM = 5.00000e+02
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 8.75249e+01
GEOMETRIC DEVIATION = 2.30688e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 32 (AA-CU-P)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	0	0	0.00	100.00
5.6e+00 -	8.3e+00	0	0	0.00	100.00
8.3e+00 -	1.2e+01	24	24	26.37	100.00
1.2e+01 -	1.8e+01	32	56	35.16	73.63
1.8e+01 -	2.6e+01	17	73	18.68	38.46
2.6e+01 -	3.8e+01	7	80	7.69	19.78
3.8e+01 -	5.6e+01	5	85	5.49	12.09
5.6e+01 -	8.3e+01	4	89	4.40	6.59
8.3e+01 -	1.2e+02	2	91	2.20	2.20

HISTOGRAM FOR COLUMN 32 (AA-CU-P)

```
1.0e+01 XXXXXXXXXXXXXXXXXXXXXXXX
1.5e+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.0e+01 XXXXXXXXXXXXXXXXXX
3.0e+01 XXXXXXXX
5.0e+01 XXXXX
7.0e+01 XXXX
1.0e+02 XX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	26	0	0	91
0.00	0.00			0.00	0.00	

MAXIMUM = 1.10010e+02
MINIMUM = 1.00000e+01
GEOMETRIC MEAN = 1.81656e+01
GEOMETRIC DEVIATION = 1.78597e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 33 (AA-PB-P)

LIMITS LOWER - UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 - 5.6e+00	47	47	51.65	86.81
5.6e+00 - 8.3e+00	0	47	0.00	35.16
8.3e+00 - 1.2e+01	25	72	27.47	35.16
1.2e+01 - 1.8e+01	3	75	3.30	7.69
1.8e+01 - 2.6e+01	3	78	3.30	4.40
2.6e+01 - 3.8e+01	0	78	0.00	1.10
3.8e+01 - 5.6e+01	1	79	1.10	1.10

HISTOGRAM FOR COLUMN 33 (AA-PB-P)

```
5.0e+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.0e+00
1.0e+01 XXXXXXXXXXXXXXXXXXXXXXXXX
1.5e+01 XXX
2.0e+01 XXX
3.0e+01
5.0e+01 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	12	0	26	0	0	79
0.00	13.19			0.00	0.00	

MAXIMUM = 5.00000e+01
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 7.08479e+00
GEOMETRIC DEVIATION = 1.62619e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE
PRINCE RUPERT QUAD ROCK DATA

FREQUENCY TABLE FOR COLUMN 34 (AA-ZN-P)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8e+00 -	5.6e+00	4	4	4.30	96.77
5.6e+00 -	8.3e+00	0	4	0.00	92.47
8.3e+00 -	1.2e+01	14	18	15.05	92.47
1.2e+01 -	1.8e+01	13	31	13.98	77.42
1.8e+01 -	2.6e+01	13	44	13.98	63.44
2.6e+01 -	3.8e+01	14	58	15.05	49.46
3.8e+01 -	5.6e+01	18	76	19.35	34.41
5.6e+01 -	8.3e+01	12	88	12.90	15.05
8.3e+01 -	1.2e+02	1	89	1.08	2.15
1.2e+02 -	1.8e+02	0	89	0.00	1.08
1.8e+02 -	2.6e+02	0	89	0.00	1.08
2.6e+02 -	3.8e+02	0	89	0.00	1.08
3.8e+02 -	5.6e+02	0	89	0.00	1.08
5.6e+02 -	8.3e+02	1	90	1.08	1.08

HISTOGRAM FOR COLUMN 34 (AA-ZN-P)

```
5.0e+00 XXXX
7.0e+00
1.0e+01 XXXXXXXXXXXXXX
1.5e+01 XXXXXXXXXXXXXX
2.0e+01 XXXXXXXXXXXXXX
3.0e+01 XXXXXXXXXXXXXX
5.0e+01 XXXXXXXXXXXXXXXXXX
7.0e+01 XXXXXXXXXXXX
1.0e+02 X
1.5e+02
2.0e+02
3.0e+02
5.0e+02
7.0e+02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
2	1	0	24	0	0	90
2.15	1.08			0.00	0.00	

MAXIMUM = 7.50010e+02
MINIMUM = 5.00000e+00
GEOMETRIC MEAN = 2.55799e+01
GEOMETRIC DEVIATION = 2.25038e+00

A470 Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

TITLE

PRINCE RUPERT QUAD ROCK DATA

IN THE COMPUTATIONS PERFORMED TO PRODUCE THE FOLLOWING TABLE OF GEOMETRIC MEANS AND DEVIATIONS, ALL ELEMENTS ARE IGNORED WHERE ONE OR MORE OF THE UNQUALIFIED DATA VALUES IS LESS THAN THE ANALYTICAL LIMIT OF DETECTION SPECIFIED ON INPUT OR WHERE ANY DATA VALUES ARE QUALIFIED WITH THE G (GREATER THAN) CODE. DATA VALUES QUALIFIED WITH B OR H ARE NOT USED IN THE COMPUTATIONS. WHERE NONE OF THE DATA VALUES FOR AN ELEMENT ARE QUALIFIED THE MEAN AND DEVIATION SHOULD BE THE SAME AS THOSE GIVEN IN THE PRECEDING SECTION. WHERE DATA ARE QUALIFIED WITH THE CODES N, L, OR T, THE ESTIMATES OF GEOMETRIC MEAN AND DEVIATION ARE BASED ON A METHOD BY A. J. COHEN FOR TREATING CENSORED DISTRIBUTIONS. THE APPLICATION OF THIS METHOD TO GEOCHEMICAL PROBLEMS IS DESCRIBED IN USGS PROFESSIONAL PAPER 574-B. THE ESTIMATES ARE UNBIASED IN A STRICT SENSE ONLY WHERE THE DATA ARE DERIVED FROM A LOGNORMAL PARENT POPULATION.

ELEMENT	N	L	H	B	T	G	ANALYTICAL VALUES
S-FE%	0	0	0	2	0	0	115
S-MG%	0	0	0	2	0	0	115
S-CA%	0	0	0	2	0	0	115
S-TI%	0	1	0	2	0	0	114
S-MN	0	1	0	2	0	0	114
S-B	2	60	0	2	0	0	53
S-BA	0	3	0	2	0	0	112
S-BE	2	78	0	0	0	0	37
S-CO	2	28	0	0	0	0	87
S-CR	1	45	0	0	0	0	71
S-CU	0	38	0	0	0	0	79
S-LA	23	10	0	0	0	0	84
S-MO	99	11	0	0	0	0	7
S-NB	1	98	0	0	0	0	18
S-NI	0	48	0	0	0	0	69
S-PB	0	21	0	0	0	0	96
S-SC	3	23	0	2	0	0	89
S-SR	1	0	0	2	0	0	114
S-V	0	6	0	0	0	0	111
S-Y	2	35	0	0	0	0	80
S-ZN	109	6	0	0	0	0	2
S-ZR	0	2	0	2	0	0	113
AA-CU-P	0	0	0	26	0	0	91
AA-PB-P	0	12	0	26	0	0	79
AA-ZN-P	2	1	0	24	0	0	90

Table 7.-- STATISTICAL SUMMARY - ROCK SAMPLES -- continued

ELEMENT	GEOMETRIC MEAN	GEOMETRIC DEVIATION	REMARKS
S-FE%	4.394219	2.71	117 SAMPLES AND 115 ANALYTICAL VALUES.
S-MG%	1.238355	3.15	117 SAMPLES AND 115 ANALYTICAL VALUES.
S-CA%	1.408040	3.01	117 SAMPLES AND 115 ANALYTICAL VALUES.
S-TI%	0.251812	2.55	1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 114 REPORTED VALUES.
S-MN	591.092407	2.93	1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 114 REPORTED VALUES.
S-B	7.128297	2.25	62 NOT DETECTED, LESS THAN, OR TRACE VALUES. 53 REPORTED VALUES.
S-BA	662.376907	2.74	3 NOT DETECTED, LESS THAN, OR TRACE VALUES. 112 REPORTED VALUES.
S-BE	0.628642	1.77	80 NOT DETECTED, LESS THAN, OR TRACE VALUES. 37 REPORTED VALUES.
S-CO	10.850267	3.14	30 NOT DETECTED, LESS THAN, OR TRACE VALUES. 87 REPORTED VALUES.
S-CR	15.335432	6.97	46 NOT DETECTED, LESS THAN, OR TRACE VALUES. 71 REPORTED VALUES.
S-CU	10.322081	5.45	38 NOT DETECTED, LESS THAN, OR TRACE VALUES. 79 REPORTED VALUES.
S-LA	31.374008	1.92	33 NOT DETECTED, LESS THAN, OR TRACE VALUES. 84 REPORTED VALUES.
S-MO	0.017427	32.75	110 NOT DETECTED, LESS THAN, OR TRACE VALUES. 7 REPORTED VALUES.
S-NB	********	******	17 VALUES LESS THAN SPECIFIED LIMIT OF DETECTION. NO COMPUTATIONS.
S-NI	6.356452	6.41	48 NOT DETECTED, LESS THAN, OR TRACE VALUES. 69 REPORTED VALUES.
S-PB	13.406905	1.76	21 NOT DETECTED, LESS THAN, OR TRACE VALUES. 96 REPORTED VALUES.
S-SC	10.217678	3.25	26 NOT DETECTED, LESS THAN, OR TRACE VALUES. 89 REPORTED VALUES.
S-SR	535.350929	1.93	1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 114 REPORTED VALUES.
S-V	102.406618	3.47	6 NOT DETECTED, LESS THAN, OR TRACE VALUES. 111 REPORTED VALUES.
S-Y	12.355533	2.13	37 NOT DETECTED, LESS THAN, OR TRACE VALUES. 80 REPORTED VALUES.
S-ZN	548.943680	4.15	115 NOT DETECTED, LESS THAN, OR TRACE VALUES. 2 REPORTED VALUES.
S-ZR	83.596826	2.46	2 NOT DETECTED, LESS THAN, OR TRACE VALUES. 113 REPORTED VALUES.
AA-CU-P	18.165650	1.79	117 SAMPLES AND 91 ANALYTICAL VALUES.
AA-PB-P	6.274573	1.75	12 NOT DETECTED, LESS THAN, OR TRACE VALUES. 79 REPORTED VALUES.
AA-ZN-P	23.808142	2.44	3 NOT DETECTED, LESS THAN, OR TRACE VALUES. 90 REPORTED VALUES.

TABLE 8. ANALYTICAL DATA FOR ROCK GEOCHEMICAL SAMPLES

SAMPLE	LATITUDE	LONGITUDE	ROCK & MINERAL CODES	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B
70S079	54 49 45	130 56 35	GD-PY	3.0	.70	1.50	.200	300	N	N	N	<10
70S090	54 46 27	130 39 55	AM-PY	10.0	5.00	5.00	1.000	1,500	N	N	N	10
70S108	54 49 53	130 42 5	AM	7.0	3.00	5.00	.300	1,500	N	N	N	<10
70S119	54 50 18	130 47 20	GS-PY	10.0	7.00	10.00	.300	1,500	N	N	N	50
70S124	54 48 55	130 44 54	AM (FZ)	15.0	7.00	7.00	.500	1,500	<.5	N	N	30
70S204	54 48 43	130 49 4	GD-PY	5.0	3.00	1.50	.200	700	N	N	N	N
70S205	54 51 5	130 54 15	GD	10.0	7.00	1.00	.500	1,500	N	N	N	15
70S208	54 55 55	130 50 21	AM	15.0	7.00	10.00	1.000	1,500	N	N	N	30
70S936	54 58 53	130 58 11	QF	5.0	1.50	2.00	.300	300	N	N	N	20
70S940	54 59 48	130 52 59	PN	7.0	3.00	1.50	.200	1,500	N	N	N	<10
70S944	54 57 10	130 56 8	GS	10.0	3.00	5.00	.700	1,000	N	N	N	20
70S949	54 53 30	130 56 48	PN	10.0	5.00	7.00	.500	2,000	N	N	N	15
70S953	54 48 5	130 55 0	GR	1.5	.70	.70	.070	200	N	N	N	N
70S958	54 46 41	130 40 31	PN	7.0	3.00	5.00	.300	1,500	N	N	N	<10
70S961	54 46 47	130 43 40	VQ	.7	.30	1.00	.070	300	N	N	N	<10
70S964	54 49 15	130 41 59	PN	10.0	3.00	2.00	.700	1,500	N	N	N	10
70S968	54 50 17	130 43 17	PN	3.0	1.00	1.00	.150	300	N	N	N	10
70S972	54 53 57	130 43 28	GS	10.0	3.00	1.50	.700	700	N	N	N	<10
70S975	54 57 25	130 43 56	MG	10.0	5.00	5.00	.500	1,000	N	N	N	<10
70S979	54 55 53	130 45 47	PN	7.0	2.00	5.00	.300	1,000	N	N	N	<10
70S984	54 51 38	130 44 29	PN	7.0	2.00	5.00	.300	1,000	N	N	N	<10
70S987	54 49 0	130 44 45	PN	15.0	3.00	2.00	.500	1,500	N	N	N	15
70S995	54 48 7	130 47 16	QF	15.0	7.00	5.00	1.000	1,500	N	N	N	15
70S998	54 46 4	130 50 25	GD	5.0	1.50	3.00	.200	1,500	N	N	N	15
75BW087A	54 58 55	130 55 32	VQ-PY	--	--	--	--	--	N	N	--	--
75ER142A	54 57 42	130 55 8	PN-PY	--	--	--	--	--	2.0	N	--	--
75RR087A	54 55 58	130 58 1	AM	5.0	1.00	1.00	.150	700	N	N	N	<10
76BG040B	54 57 21	130 53 14	MS	5.0	1.00	1.00	.500	500	N	N	N	70
76BG042B	54 59 3	130 55 18	GS-PY	5.0	2.00	3.00	.300	1,500	N	N	N	<10
76CH013A	54 57 30	130 54 51	MS	3.0	.50	.20	.300	50	N	N	N	50
76ER432A	54 55 5	130 50 26	MS	15.0	1.50	.50	.300	500	N	N	N	100
76ER433A	54 53 3	130 54 29	GD	2.0	.70	.20	.200	70	N	N	N	10
76ER434A	54 52 40	130 52 56	GD	15.0	2.00	.70	.300	700	N	N	N	10
76ER435A	54 52 41	130 51 15	GD	2.0	.50	.70	.200	100	N	N	N	10
76ER436A	54 50 16	130 51 39	GD	2.0	1.00	.70	.200	70	N	N	N	10
76ER437A	54 50 40	130 48 50	GD	3.0	.70	.10	.200	500	N	N	N	<10
76ER438A	54 48 11	130 49 9	GD	1.0	.20	.30	.100	700	N	N	N	10
76ER439A	54 48 3	130 51 24	GD	2.0	.70	.15	.200	100	N	N	N	10
76ER440A	54 48 50	130 52 35	GD	1.0	.20	.15	.150	100	N	N	N	<10
76ER441A	54 50 14	130 55 14	GD	3.0	1.00	.50	.200	500	N	N	N	<10
76ER441B	54 50 14	130 55 14	QD	15.0	3.00	2.00	.500	1,500	N	N	N	10
76ER450A	54 56 34	130 47 35	GR	.2	.07	.70	.015	<10	N	N	N	<10
76ER451A	54 54 12	130 46 55	PN	10.0	2.00	2.00	.500	1,500	N	N	N	10
76ER452A	54 58 14	130 41 25	GG	10.0	2.00	2.00	.500	1,500	N	N	N	10
76ER454A	54 55 14	130 23 8	GD	2.0	.30	1.00	.200	500	N	N	N	<10

TABLE 8. ANALYTICAL DATA FOR ROCK GEOCHEMICAL SAMPLES

SAMPLE	S-BA	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR
70S079	500	<1.0	N	N	N	10	15	N	<5	<10	<5	15	N	<5	N	700
70S090	300	<1.0	N	N	30	300	70	N	10	10	150	<10	N	100	N	300
70S108	300	<1.0	N	N	20	10	70	N	<5	10	5	15	N	70	N	300
70S119	500	<1.0	N	N	20	150	15	N	<5	10	20	20	N	70	N	700
70S124	700	<1.0	N	N	30	150	100	N	30	10	150	15	N	70	N	300
70S204	300	N	N	N	20	150	70	N	N	<10	70	10	N	15	N	300
70S205	700	<1.0	N	N	30	150	70	N	N	15	50	20	N	50	N	300
70S208	300	<1.0	N	N	30	70	70	N	<5	15	30	15	N	70	N	300
70S936	150	1.0	N	N	10	15	30	<20	N	<10	5	10	N	15	N	500
70S940	150	<1.0	N	N	5	15	30	N	N	10	7	10	N	5	N	150
70S944	300	<1.0	N	N	20	20	50	N	N	10	20	30	N	20	N	700
70S949	150	N	N	N	30	150	100	N	N	10	50	15	N	30	N	300
70S953	500	<1.0	N	N	<5	10	30	N	N	<10	5	10	N	<5	N	700
70S958	300	<1.0	N	N	20	50	30	N	<5	10	10	15	N	70	N	500
70S961	1,000	1.0	N	N	N	10	20	N	N	<10	5	30	N	N	N	1,500
70S964	700	1.5	N	N	30	70	100	N	<5	10	30	70	N	70	N	300
70S968	500	1.0	N	N	5	10	15	N	N	<10	7	10	N	N	N	150
70S972	700	<1.0	N	N	30	150	50	N	<5	10	70	15	N	50	N	700
70S975	300	<1.0	N	N	30	150	70	N	<5	10	150	30	N	30	N	700
70S979	1,000	1.5	N	N	30	70	100	N	N	10	20	20	N	70	N	1,000
70S984	700	1.5	N	N	15	20	150	N	<5	10	5	15	N	30	N	700
70S987	700	<1.0	N	N	30	70	100	N	<5	10	30	15	N	70	N	200
70S995	300	<1.0	N	N	30	70	15	N	<5	10	30	20	N	70	N	500
70S998	700	<1.0	N	N	5	20	30	N	N	<10	15	10	N	N	N	700
75BW087A	--	1.0	--	--	20	70	15	50	30	N	50	<10	N	--	N	--
75ER142A	--	2.0	--	--	7	200	100	70	50	20	150	20	N	--	N	--
75RR087A	500	<1.0	N	N	<5	N	100	50	N	<20	<5	30	N	10	N	200
76BG040B	1,000	1.0	N	N	20	20	50	50	10	<20	20	30	N	20	N	300
76BG042B	1,500	1.0	N	N	50	<10	70	50	N	<20	5	50	N	15	N	300
76CH013A	1,500	1.0	N	N	<5	70	30	50	N	<20	5	15	N	15	N	200
76ER432A	1,500	<1.0	N	N	<5	30	30	30	N	<20	<5	20	N	30	N	200
76ER433A	700	<1.0	N	N	10	<10	5	50	N	<20	<5	10	N	<5	N	500
76ER434A	700	<1.0	N	N	50	<10	15	30	N	<20	20	50	N	20	N	1,000
76ER435A	700	<1.0	N	N	10	<10	<5	30	N	<20	<5	15	N	5	N	1,000
76ER436A	700	<1.0	N	N	10	<10	<5	30	N	<20	<5	15	N	5	N	1,000
76ER437A	500	1.0	N	N	<5	<10	<5	50	N	<20	<5	10	N	5	N	200
76ER438A	700	1.0	N	N	<5	<10	<5	30	N	<20	<5	10	N	<5	N	500
76ER439A	1,000	<1.0	N	N	<5	<10	<5	30	N	<20	<5	10	N	<5	N	700
76ER440A	1,000	2.0	N	N	<5	<10	<5	30	N	<20	<5	<10	N	<5	N	500
76ER441A	1,000	1.0	N	N	10	<10	<5	30	N	<20	<5	<10	N	7	N	500
76ER441B	700	<1.0	N	N	50	<10	150	30	N	<20	20	10	N	20	N	500
76ER450A	100	<1.0	N	N	<5	<10	<5	30	N	<20	<5	<10	N	<5	N	700
76ER451A	1,000	<1.0	N	N	20	30	70	50	N	<20	20	10	N	20	N	500
76ER452A	1,000	1.0	N	N	20	30	<5	50	N	<20	20	10	N	20	N	500
76ER454A	300	2.0	N	N	<5	10	<5	50	N	<20	<5	10	N	5	N	700

TABLE 8. ANALYTICAL DATA FOR ROCK GEOCHEMICAL SAMPLES

SAMPLE	S-V	S-W	S-Y	S-ZN	S-ZR	AA-AU-P	AA-CU-P	AA-PB-P	AA-ZN-P	INST-HG
70S079	150	N	<10	N	30	<02	--	--	--	--
70S090	300	N	50	<200	150	<02	--	--	--	--
70S108	200	N	15	N	70	<02	--	--	--	--
70S119	300	N	15	N	50	<02	--	--	--	--
70S124	300	N	30	N	150	<02	--	--	--	--
70S204	150	N	10	N	50	<02	--	--	--	--
70S205	500	N	15	<200	70	<02	--	--	--	--
70S208	500	N	30	<200	200	<02	--	--	--	--
70S936	100	N	20	N	200	<02	--	--	--	--
70S940	100	N	15	N	100	<02	--	--	--	--
70S944	300	N	15	N	100	<02	--	--	--	--
70S949	300	N	15	<200	100	<02	--	--	--	--
70S953	30	N	10	N	70	<02	--	--	--	--
70S958	300	N	15	N	70	<02	--	--	--	--
70S961	15	N	N	N	70	<02	--	--	--	--
70S964	300	N	20	<200	500	<02	--	--	--	--
70S968	20	N	200	N	300	<02	--	--	--	--
70S972	300	N	15	N	150	<02	--	--	--	--
70S975	200	N	15	N	150	<02	--	--	--	--
70S979	300	N	15	N	70	<02	--	--	--	--
70S984	300	N	15	N	200	<02	--	--	--	--
70S987	200	N	30	N	300	<02	--	--	--	--
70S995	300	N	20	N	100	<02	--	--	--	--
70S998	50	N	<10	N	70	<02	--	--	--	--
75BW087A	30	N	N	N	--	N	--	--	30	--
75ER142A	10,000	N	20	1,500	--	N	--	--	750	--
75RR087A	20	N	50	N	100	N	110	50	80	--
76BG040B	100	N	30	N	100	N	40	25	75	--
76BG042B	200	N	20	N	100	N	75	20	45	--
76CH013A	300	N	20	N	100	N	40	15	70	--
76ER432A	300	N	15	N	150	N	25	10	10	--
76ER433A	70	N	<10	N	100	N	15	<5	20	--
76ER434A	200	N	<10	N	100	N	15	5	45	--
76ER435A	70	N	<10	N	50	N	15	<5	10	--
76ER436A	70	N	<10	N	50	N	15	<5	15	--
76ER437A	30	N	15	N	300	N	15	5	25	--
76ER438A	20	N	<10	N	50	N	15	5	20	--
76ER439A	50	N	<10	N	100	N	15	5	15	--
76ER440A	30	N	<10	N	50	N	15	5	15	--
76ER441A	150	N	<10	N	10	N	15	5	30	--
76ER441B	300	N	20	N	150	N	100	10	50	--
76ER450A	<10	N	<10	N	<10	N	10	<5	N	--
76ER451A	300	N	20	N	20	N	35	15	80	--
76ER452A	200	N	20	N	100	N	15	5	30	--
76ER454A	50	N	10	N	50	N	10	5	25	--

TABLE 8. ANALYTICAL DATA FOR ROCK GEOCHEMICAL SAMPLES--continued

SAMPLE	LATITUDE	LONGITUDE	ROCK & MINERAL CODES	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B
76ER455A	54 55 45	130 26 30	PN	2.0	.70	2.00	.150	1,500	N	N	N	<10
76ER456A	54 56 58	130 25 59	GD	5.0	1.50	2.00	.300	1,500	N	N	N	<10
76ER457A	54 59 27	130 26 3	GD	5.0	1.50	2.00	.300	1,500	N	N	N	<10
76ER458A	54 57 11	130 29 3	GD	1.0	.20	1.00	.150	200	N	N	N	<10
76ER459A	54 58 10	130 33 29	GG	5.0	1.50	2.00	.500	1,000	N	N	N	<10
76ER460A	54 55 35	130 33 20	GD	10.0	3.00	3.00	.300	1,500	N	N	N	10
76ER461A	54 54 25	130 31 41	PN	10.0	2.00	1.00	.500	1,000	N	N	N	10
76ER462A	54 54 10	130 34 45	QD	15.0	3.00	3.00	.500	1,000	N	N	N	10
76ER463A	54 55 37	130 36 33	QD	7.0	2.00	2.00	.500	1,000	N	N	N	10
76ER464A	54 53 21	130 38 26	GG	2.0	.70	1.00	.200	200	N	N	N	<10
76ER465A	54 50 35	130 37 33	QD	10.0	3.00	3.00	.700	1,500	N	N	N	10
76ER466A	54 51 56	130 28 44	PN	5.0	2.00	1.50	.300	1,500	N	N	N	<10
76ER467A	54 49 49	130 34 27	GD	5.0	1.50	1.50	.300	1,000	N	N	N	<10
76ER468A	54 48 25	130 40 31	PN	3.0	1.00	5.00	.500	500	N	N	N	<10
76ER469A	54 52 18	130 42 19	GG	2.0	.50	1.00	.200	200	N	N	N	<10
76ER470A	54 52 18	130 46 6	PN	10.0	2.00	3.00	.500	1,000	N	N	N	10
76RK024A	54 58 13	130 51 43	GS	3.0	5.00	.30	.010	500	N	N	N	<10
76RK029B	54 58 28	130 52 20	GS-PY	7.0	3.00	5.00	.500	1,000	N	N	N	<10
76RK036A	54 55 59	130 51 50	MS	7.0	1.50	.50	.500	200	N	N	N	50
76RK037A	54 55 18	130 49 14	QF	10.0	2.00	2.00	.500	1,500	N	N	N	10
76RK038A	54 51 53	130 54 42	GD	2.0	1.00	.50	.200	150	N	N	N	<10
76RK039A	54 53 58	130 52 33	GD	1.0	.30	.10	.100	100	N	N	N	<10
76RK040A	54 51 43	130 52 49	GD	3.0	1.00	.15	.200	150	N	N	N	10
76RK041A	54 50 39	130 49 51	GD	1.5	1.00	.20	.150	200	N	N	N	<10
76RK042A	54 49 37	130 49 14	GD	1.5	.50	.10	.150	50	N	N	N	20
76RK043A	54 47 39	130 49 54	GD	1.5	.70	.15	.200	100	N	N	N	10
76RK044A	54 48 38	130 50 45	GD	1.5	.70	.30	.200	200	N	N	N	<10
76RK045A	54 48 1	130 53 31	GD	1.5	.30	.50	.150	200	N	N	N	10
76RK046A	54 53 35	130 49 50	MS	10.0	1.50	1.50	.300	700	N	N	N	15
76RK061A	54 51 52	130 51 10	QF	2.0	.70	1.00	.200	700	N	N	N	10
76RK065A	54 50 11	130 49 27	GD	2.0	.70	3.00	.200	500	N	N	N	10
76RK066A	54 49 9	130 48 45	GD	1.5	.30	.70	.150	500	N	N	N	10
76RK072A	54 57 34	130 46 9	GR	.2	.05	1.00	.020	100	N	N	N	<10
76RK074A	54 59 58	130 45 20	GD	3.0	.70	1.50	.200	1,000	N	N	N	<10
76RK074B	54 59 58	130 45 20	AM	15.0	5.00	5.00	.300	1,500	N	N	N	10
76RK076A	54 58 45	130 44 16	AM	15.0	5.00	5.00	.700	1,500	N	N	N	10
76RK078A	54 56 45	130 21 25	GD	3.0	.70	1.50	.200	700	N	N	N	<10
76RK079A	54 54 8	130 24 24	GG	10.0	3.00	.70	.500	1,500	N	N	N	<10
76RK080A	54 56 35	130 24 46	GD	10.0	2.00	3.00	.300	1,000	N	N	N	<10
76RK081A	54 58 24	130 24 5	QM	10.0	1.50	5.00	.300	2,000	N	N	N	<10
76RK082A	54 59 36	130 38 52	GD	15.0	3.00	3.00	.500	1,500	N	N	N	20
76RK083A	54 58 22	130 32 0	QD	15.0	2.00	5.00	.500	1,500	N	N	N	<10
76RK084A	54 55 29	130 32 3	GD	15.0	3.00	5.00	.500	1,500	N	N	N	<10
76RK085A	54 52 23	130 34 10	GD	10.0	2.00	3.00	.500	1,000	N	N	N	<10
76RK086A	54 54 16	130 35 58	QD	15.0	5.00	5.00	.500	1,500	N	N	N	<10

TABLE 8. ANALYTICAL DATA FOR ROCK GEOCHEMICAL SAMPLES--continued

SAMPLE	S-BA	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR
76ER455A	500	<1.0	N	N	<5	<10	10	50	N	<20	10	10	N	10	N	1,000
76ER456A	1,500	1.0	N	N	10	<10	30	50	N	<20	<5	10	N	10	N	500
76ER457A	1,500	1.0	N	N	10	<10	30	50	N	<20	<5	10	N	10	N	1,000
76ER458A	1,500	2.0	N	N	<5	<10	<5	30	N	<20	<5	10	N	<5	N	1,000
76ER459A	1,500	2.0	N	N	20	20	15	70	N	<20	5	10	N	20	N	1,000
76ER460A	1,000	1.0	N	N	20	30	5	50	N	<20	5	10	N	20	N	1,000
76ER461A	1,500	<1.0	N	N	20	150	10	100	N	<20	50	10	N	20	N	300
76ER462A	1,500	<1.0	N	N	30	150	15	50	N	<20	20	10	N	20	N	1,000
76ER463A	1,000	<1.0	N	N	20	50	10	50	N	<20	10	10	N	15	N	1,000
76ER464A	1,500	<1.0	N	N	10	20	<5	70	N	<20	<5	10	N	<5	N	500
76ER465A	700	<1.0	N	N	30	50	30	50	N	<20	15	20	N	20	N	1,000
76ER466A	1,000	<1.0	N	N	10	200	20	50	N	<20	50	10	N	15	N	500
76ER467A	1,500	<1.0	N	N	10	<10	<5	70	N	<20	<5	10	N	10	N	500
76ER468A	<20	2.0	N	N	15	50	20	50	N	<20	15	<10	N	10	N	300
76ER469A	1,500	1.0	N	N	<5	20	<5	50	N	<20	<5	20	N	5	N	500
76ER470A	1,000	<1.0	N	N	20	50	200	30	10	<20	20	10	N	30	N	300
76RK024A	<20	<1.0	N	N	50	1,000	20	50	N	<20	700	<10	N	7	N	N
76RK029B	300	2.0	N	N	30	100	30	30	N	<20	70	10	N	20	N	700
76RK036A	1,000	<1.0	N	N	20	50	100	30	N	<20	20	10	N	30	N	300
76RK037A	1,000	<1.0	N	N	20	70	100	30	N	<20	15	20	N	30	N	300
76RK038A	500	<1.0	N	N	<5	<10	5	<20	N	<20	<5	10	N	5	N	500
76RK039A	700	<1.0	N	N	<5	<10	5	<20	N	<20	<5	10	N	<5	N	500
76RK040A	1,000	<1.0	N	N	10	<10	<5	50	N	<20	<5	<10	N	10	N	300
76RK041A	700	<1.0	N	N	<5	<10	<5	<20	N	<20	<5	<10	N	<5	N	700
76RK042A	1,000	<1.0	N	N	<5	<10	<5	50	N	<20	<5	10	N	<5	N	500
76RK043A	1,000	<1.0	N	N	10	<10	<5	50	N	<20	<5	<10	N	5	N	500
76RK044A	700	<1.0	N	N	10	<10	<5	50	N	<20	<5	20	N	<5	N	1,000
76RK045A	1,000	<1.0	N	N	<5	<10	<5	30	N	<20	<5	15	N	<5	N	1,500
76RK046A	300	<1.0	N	N	20	10	30	50	N	<20	10	<10	N	20	N	700
76RK061A	700	<1.0	N	N	10	10	<5	50	N	<20	5	<10	N	5	N	500
76RK065A	1,500	<1.0	N	N	10	10	<5	50	N	<20	5	10	N	5	N	500
76RK066A	1,000	<1.0	N	N	10	<10	10	30	N	<20	<5	10	N	<5	N	1,000
76RK072A	1,000	1.0	N	N	<5	<10	<5	<20	N	<20	<5	<10	N	<5	N	1,500
76RK074A	150	<1.0	N	N	15	<10	15	<20	N	<20	<5	<10	N	15	N	200
76RK074B	20	<1.0	N	N	70	500	30	<20	N	<20	150	<10	N	30	N	200
76RK076A	1,500	<1.0	N	N	50	150	20	50	N	<20	50	30	N	30	N	700
76RK078A	2,000	<1.0	N	N	10	<10	<5	50	N	<20	<5	10	N	5	N	1,000
76RK079A	500	2.0	N	N	10	150	150	100	30	<20	20	20	N	20	N	300
76RK080A	2,000	1.0	N	N	10	<10	7	50	N	<20	<5	15	N	10	N	1,000
76RK081A	150	1.0	N	N	20	10	10	50	N	<20	<5	20	N	10	N	2,000
76RK082A	1,000	<1.0	N	N	30	70	30	50	N	<20	30	30	N	20	N	500
76RK083A	1,500	1.0	N	N	30	20	<5	70	N	<20	20	20	N	20	N	1,500
76RK084A	1,500	<1.0	N	N	30	150	30	70	N	<20	20	30	N	20	N	1,500
76RK085A	2,000	<1.0	N	N	30	20	15	30	N	<20	20	20	N	10	N	1,500
76RK086A	1,500	<1.0	N	N	50	150	10	50	N	<20	30	20	N	20	N	1,500

TABLE 8. ANALYTICAL DATA FOR ROCK GEOCHEMICAL SAMPLES--continued

SAMPLE	LATITUDE	LONGITUDE	ROCK & MINERAL CODES	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B
76RK087A	54 54 21	130 37 14	QD	10.0	2.00	3.00	.500	1,000	N	N	N	<10
76RK088A	54 52 36	130 37 14	QM	1.5	.07	.30	.100	70	N	N	N	<10
76RK089A	54 53 36	130 25 27	GD	2.0	.70	1.50	.200	200	N	N	N	<10
76RK090A	54 52 14	130 30 11	GD	10.0	2.00	3.00	.700	1,500	N	N	N	10
76RK091A	54 47 27	130 40 22	AM	5.0	1.00	1.50	.300	700	N	N	N	10
76RK091B	54 47 27	130 40 22	AM	20.0	7.00	5.00	.500	2,000	N	N	N	10
76RK092A	54 50 40	130 40 27	GD	15.0	2.00	3.00	.500	1,500	N	N	N	10
76RK093A	54 55 59	130 41 30	GD	15.0	3.00	3.00	.500	1,500	N	N	N	10
76RK094A	54 53 12	130 46 27	QF	15.0	3.00	2.00	.300	1,000	N	N	N	<10
76RK095A	54 50 54	130 46 26	QF	1.5	.30	.10	.150	70	N	N	N	10
76RK096A	54 55 1	130 56 31	GD	10.0	7.00	2.00	.300	1,000	N	N	N	10
76RK097A	54 46 5	130 50 48	GD-PY	1.5	.70	1.00	.100	500	N	N	N	10
76SJ584A	54 58 10	130 49 17	GR	.5	.05	1.00	.010	200	N	N	N	<10
76SJ584B	54 58 10	130 49 17	VQ	.5	.02	.20	<.002	300	N	N	N	<10
76SJ587A	54 56 12	130 22 9	GD	2.0	.70	2.00	.300	1,000	N	N	N	<10
76SJ588A	54 54 44	130 25 32	QM	1.5	.30	1.00	.100	200	N	N	N	<10
76SJ589A	54 57 24	130 24 15	QM	1.5	.50	2.00	.200	500	N	N	N	<10
76SJ590A	54 58 31	130 26 12	QM	2.0	.30	2.00	.150	700	N	N	N	<10
76SJ591A	54 58 32	130 29 47	QD	5.0	1.50	2.00	.300	1,500	N	N	N	<10
76SJ593A	54 57 11	130 31 15	GD	5.0	1.50	2.00	.300	1,500	N	N	N	<10
76SJ595A	54 53 17	130 35 32	QD	2.0	.70	2.00	.200	200	N	N	N	<10
76SJ596A	54 55 15	130 35 8	QD	7.0	2.00	3.00	.500	1,000	N	N	N	<10
76SJ597A	54 55 22	130 38 17	QD	2.0	.20	.50	.200	500	N	N	N	<10
76SJ598A	54 51 14	130 36 37	GG	5.0	2.00	3.00	.500	1,000	N	N	N	<10
76SJ599A	54 53 2	130 27 42	PN	2.0	1.00	1.00	.200	500	N	N	N	<10
76SJ600A	54 50 44	130 32 3	QD	10.0	3.00	2.00	.500	1,000	N	N	N	10
76SJ604A	54 55 42	130 54 43	GS	5.0	5.00	5.00	.200	1,500	N	N	N	<10

TABLE 8. ANALYTICAL DATA FOR ROCK GEOCHEMICAL SAMPLES--continued

SAMPLE	S-V	S-W	S-Y	S-ZN	S-ZR	AA-AU-P	AA-CU-P	AA-PB-P	AA-ZN-P	INST-HG
76ER455A	50	N	20	N	150	N	20	5	30	--
76ER456A	150	N	20	N	50	N	35	5	50	--
76ER457A	150	N	15	N	100	N	35	5	10	--
76ER458A	10	N	<10	N	50	N	15	<5	15	--
76ER459A	200	N	20	N	100	N	15	5	30	--
76ER460A	150	N	20	N	20	N	15	10	40	--
76ER461A	200	N	50	N	200	N	15	10	55	--
76ER462A	300	N	15	N	200	N	15	10	45	--
76ER463A	200	N	15	N	70	N	15	10	45	--
76ER464A	30	N	<10	N	200	N	15	5	30	--
76ER465A	300	N	20	N	20	N	30	5	30	--
76ER466A	200	N	10	N	300	N	25	5	65	--
76ER467A	100	N	15	N	500	N	10	5	40	--
76ER468A	70	N	15	N	500	N	25	10	15	--
76ER469A	30	N	10	N	150	N	10	5	30	--
76ER470A	500	N	30	<200	150	N	45	5	70	--
76RK024A	50	N	<10	N	<10	N	25	10	10	--
76RK029B	150	N	10	N	70	N	35	5	20	--
76RK036A	300	N	20	N	100	N	65	10	25	--
76RK037A	300	N	20	N	100	N	50	10	70	--
76RK038A	70	N	<10	N	50	N	10	<5	15	--
76RK039A	20	N	<10	N	50	N	15	5	<5	--
76RK040A	150	N	<10	N	100	N	10	<5	15	--
76RK041A	20	N	<10	N	50	N	10	<5	15	--
76RK042A	50	N	<10	N	30	N	10	<5	10	--
76RK043A	70	N	<10	N	200	N	10	5	10	--
76RK044A	70	N	<10	N	70	N	15	5	20	--
76RK045A	30	N	<10	N	100	N	15	5	10	--
76RK046A	300	N	20	N	100	N	30	10	60	--
76RK061A	70	N	<10	N	100	N	15	10	20	--
76RK065A	70	N	<10	N	50	N	10	15	20	--
76RK066A	50	N	<10	N	50	N	20	10	20	--
76RK072A	10	N	<10	N	70	N	10	5	5	--
76RK074A	100	N	20	N	70	N	25	5	20	--
76RK074B	200	N	20	N	20	N	25	5	5	--
76RK076A	200	N	20	N	200	N	20	10	50	--
76RK078A	50	N	10	N	50	N	15	5	10	--
76RK079A	300	N	100	200	500	N	60	10	110	--
76RK080A	150	N	20	N	100	N	15	5	15	--
76RK081A	200	N	20	N	100	N	15	5	10	--
76RK082A	300	N	30	N	50	N	20	10	50	--
76RK083A	200	N	20	N	150	N	10	5	40	--
76RK084A	300	N	20	N	150	N	20	5	15	--
76RK085A	200	N	10	N	150	N	20	5	35	--
76RK086A	200	N	20	N	100	N	15	5	40	--

TABLE 8. ANALYTICAL DATA FOR ROCK GEOCHEMICAL SAMPLES--continued

SAMPLE	S-V	S-W	S-Y	S-ZN	S-ZR	AA-AU-P	AA-CU-P	AA-PB-P	AA-ZN-P	INST-HG
76RK087A	200	N	15	N	150	N	15	5	40	--
76RK088A	<10	N	<10	N	300	N	10	5	15	--
76RK089A	30	N	<10	N	300	N	10	5	35	--
76RK090A	200	N	20	N	70	N	15	5	35	--
76RK091A	100	N	10	N	300	N	20	10	40	--
76RK091B	200	N	20	N	50	N	20	5	10	--
76RK092A	150	N	20	N	200	N	15	10	60	--
76RK093A	300	N	20	N	50	N	15	10	60	--
76RK094A	300	N	20	N	50	N	55	25	65	--
76RK095A	<10	N	20	N	70	N	20	5	5	--
76RK096A	200	N	15	N	100	N	20	10	10	--
76RK097A	20	N	<10	N	70	N	15	5	10	--
76SJ584A	<10	N	<10	N	20	N	10	<5	5	--
76SJ584B	<10	N	<10	N	10	.10	10	5	N	--
76SJ587A	100	N	10	N	50	N	10	<5	10	--
76SJ588A	<10	N	<10	N	20	N	10	5	15	--
76SJ589A	70	N	10	N	30	N	15	5	20	--
76SJ590A	50	N	<10	N	20	N	10	5	15	--
76SJ591A	200	N	20	N	150	N	10	5	35	--
76SJ593A	150	N	20	N	100	N	10	<5	20	--
76SJ595A	50	N	<10	N	300	N	10	10	40	--
76SJ596A	200	N	10	N	20	N	10	10	40	--
76SJ597A	10	N	10	N	200	N	10	5	30	--
76SJ598A	200	N	20	N	150	N	20	10	40	--
76SJ599A	100	N	<10	N	50	N	30	10	65	--
76SJ600A	300	N	20	N	100	N	15	5	30	--
76SJ604A	200	N	15	N	10	N	70	10	10	--

TABLE 8. ANALYTICAL DATA FOR ROCK GEOCHEMICAL SAMPLES--continued

SAMPLE	S-BA	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR
76RK087A	1,000	<1.0	N	N	30	30	10	50	N	<20	20	20	N	15	N	1,000
76RK088A	1,000	<1.0	N	N	<5	<10	<5	50	N	<20	<5	30	N	<5	N	200
76RK089A	1,000	<1.0	N	N	<5	<10	<5	30	N	<20	<5	20	N	5	N	1,000
76RK090A	1,500	<1.0	N	N	30	50	10	30	N	<20	20	20	N	20	N	1,000
76RK091A	700	<1.0	N	N	20	70	10	50	N	<20	50	20	N	10	N	500
76RK091B	50	<1.0	N	N	70	700	30	<20	N	<20	150	<10	N	70	N	200
76RK092A	1,000	<1.0	N	N	30	20	10	50	N	<20	5	20	N	10	N	1,000
76RK093A	700	<1.0	N	N	50	30	10	50	N	<20	15	20	N	20	N	1,000
76RK094A	1,000	<1.0	N	N	30	100	100	50	N	<20	20	30	N	20	N	1,000
76RK095A	700	<1.0	N	N	<5	<10	<5	50	N	<20	<5	<10	N	5	N	200
76RK096A	500	<1.0	N	N	50	500	15	30	N	<20	100	<10	N	30	N	200
76RK097A	700	<1.0	N	N	10	<10	<5	30	N	<20	<5	<10	N	<5	N	500
76SJ584A	2,000	<1.0	N	N	<5	<10	<5	<20	N	<20	<5	<10	N	<5	N	500
76SJ584B	300	<1.0	N	N	<5	<10	<5	<20	N	<20	<5	<10	N	<5	N	200
76SJ587A	2,000	1.0	N	N	10	<10	<5	50	N	<20	<5	10	N	5	N	1,000
76SJ588A	2,000	<1.0	N	N	<5	<10	<5	50	N	<20	<5	30	N	<5	N	500
76SJ589A	2,000	1.0	N	N	<5	<10	5	50	N	<20	<5	20	N	5	N	1,000
76SJ590A	1,000	1.0	N	N	<5	<10	<5	30	N	<20	<5	20	N	<5	N	500
76SJ591A	700	1.0	N	N	10	<10	<5	50	N	<20	<5	20	N	15	N	700
76SJ593A	2,000	1.0	N	N	15	<10	<5	50	N	<20	<5	30	N	10	N	1,000
76SJ595A	1,000	1.0	N	N	10	<10	<5	50	N	<20	<5	30	N	<5	N	1,500
76SJ596A	1,000	<1.0	N	N	20	70	15	50	N	<20	20	20	N	15	N	1,000
76SJ597A	2,000	<1.0	N	N	<5	<10	<5	50	N	<20	<5	20	N	5	N	200
76SJ598A	1,500	1.0	N	N	20	<10	15	70	N	<20	<5	15	N	20	N	1,000
76SJ599A	500	<1.0	N	N	10	100	20	50	N	<20	20	20	N	5	N	500
76SJ600A	1,500	<1.0	N	N	20	50	10	50	N	<20	10	20	N	20	N	700
76SJ604A	<20	<1.0	N	N	50	500	100	30	N	<20	150	10	N	30	N	200