

2-3 Geochemical Prospecting

2-3-1 Survey method

1. Sampling and preparation

B-horizon solid samples were collected in the 100 m x 50 m rectangular grid systems by the same method as Area A.

As a result of the geochemical prospecting by stream sediment in the Phase I survey, the anomalies of niobium, tantalum, tin, and tungsten are detected along Nam Mae Hong in the direction of NW-SE. The main direction of faults and geological structure show also NW-SE. It appeared from the above that the mineralization in this area was related to fracture system in the direction of NW-SE.

Because of these, Area C was set in this direction and sampling lines were arranged in the direction of NE-SW to detect mineral indication effectively.

The collected soil samples were natural air-dried and screened. -80 mesh fraction were taken for chemical analyses.

The localities of samples are shown in PL. 9.

2. Pathfinder elements and chemical analysis

Pathfinder elements are niobium, tantalum, tin, and tungsten. They are the same elements as that of Area A.

The method of analysis is also the same as that of Area A.

Analysis data for each sample are shown in Appendix 6.

2-3-2 Analysis of geochemical data

1. Statistical analysis

The common logarithmic values of the analytical values were used in this analytical work.

The background of these elements presented a remarkably different values according to lithofacies, therefore Area C was divided into three subareas; sedimentary rock area, two mica granite area, and biotite granite area, by the result of statistical analysis.

The number of soil samples is 174 in sedimentary rock area, 858 in two mica granite area and 626 in biotite granite area.

The minimum values, maximum values, mean values (M) and standard deviations (σ) in Area C are shown in Table 8.

The relative frequency and cumulative frequency histograms for each subarea are shown in Appendix 13 to 18.

Table 8. Basic statistic quantities of geochemical analytic values (Area C)

Area	Item Ele- ment	Minimum value	Maximum value	Mean value M	Standard deviation σ	M + σ	M + 2 σ	M + 3 σ
Sedimentary rock	Nb	14	54	1.43 27.0	0.07	1.50 31.4	1.56 36.6	1.63 42.7
	Ta	1	17	0.46 2.90	0.14	0.60 4.0	0.74 5.5	0.88 7.6
	Sn	5	180	1.00 10.1	0.24	1.24 17.3	1.47 29.8	1.71 51.2
	W	3	1200	0.94 8.6	0.36	1.30 19.8	1.66 45.3	2.02 103.5
Two mica granite	Nb	12	110	1.51 32.5	0.13	1.64 43.9	1.77 59.3	1.90 80.1
	Ta	2	32	0.91 8.1	0.22	1.12 13.3	1.34 21.8	1.55 35.8
	Sn	8	2500	1.94 86.1	0.35	2.28 192.1	2.63 429.0	2.98 957.7
	W	3	4000	1.72 52.2	0.42	2.14 137.1	2.56 359.9	2.98 945.0
Biotite granite	Nb	12	42	1.41 25.9	0.08	1.49 31.0	1.57 37.1	1.65 44.4
	Ta	6	12	0.62 4.2	0.10	0.72 5.2	0.82 6.6	0.91 8.2
	Sn	12	2200	1.51 32.4	0.22	1.73 54.0	1.95 89.9	2.17 149.6
	W	6	3600	1.36 22.7	0.38	1.74 54.5	2.12 130.9	2.50 314.3
Whole	Nb	12	110	1.47 29.3	0.12	1.59 38.6	1.70 50.7	1.82 66.6
	Ta	1	32	0.76 5.7	0.24	1.00 10.0	1.24 17.3	1.48 29.9
	Sn	5	2500	1.69 48.8	0.42	2.11 127.8	2.52 334.7	2.94 876.7
	W	3	4000	1.51 32.3	0.47	1.98 95.5	2.45 282.3	2.92 834.6

Upper row ; Logarithmic value
Lower row ; Natural value, unit : ppm

These statistics indicate as follows:

Two mica granite area contains much of niobium, tantalum, tin, and tungsten than other two subareas.

In comparison with each subarea by mean values of natural number, the mean value of niobium content is about same in the whole Area C, but the mean value of tantalum content in the two mica granite area is about three times that in the sedimentary area. Tin content in former area is about eight times that in the latter, and tungsten content in the former is about six times that in the latter.

The mean values and standard deviations values in the biotite granite area indicate almost same values as those in Area A.

The correlation coefficients between these elements are shown in Table 9.

The correlation between niobium and tantalum and the one between tin and tungsten are strong at every subareas. But the correlation between tin and tungsten is weak. Tungsten has hardly correlation with niobium and tantalum.

Table 9. Correlation coefficients of geochemical data (Area C)

Area	Element	Nb	Ta	Sn	W
Sedimentary rock	Nb	—	0.45	0.28	-0.05
	Ta	0.45	—	0.66	0.43
	Sn	0.28	0.66	—	0.84
	W	-0.05	0.43	0.84	—
Two mica granite	Nb	—	0.80	0.21	0.03
	Ta	0.80	—	0.39	0.07
	Sn	0.21	0.39	—	0.68
	W	0.03	0.07	0.68	—
Biotite granite	Nb	—	0.50	-0.05	-0.02
	Ta	0.50	—	0.39	0.19
	Sn	-0.05	0.39	—	0.66
	W	-0.02	0.19	0.66	—

2. Classification of anomaly values

Mean values (M) and standard deviation (σ) were used to decide the threshold values. Each geochemical datum was divided into anomaly value and background value by $M + \sigma$ value.

The background zone was subdivided into the low background zone and high background zone by M value. The anomaly zone was subdivided into low anomaly zone, medium anomaly zone and high anomaly zone by approximate $M + 2\sigma$ values.

The division of anomaly values is shown in Table 10.

3. Distribution of geochemical anomalous areas

The anomalies were extracted from elements content distribution maps (Appendix 19 to 22).

The distribution of the anomalies is described as follows;

The anomalies of each element in Area C are recognized distinctly. Particularly notable anomalies for all elements were detected in two mica granite area.

The different distribution of anomalies are indicated between niobium – tantalum and tin-tungsten. The main anomaly of tin and tungsten is situated in the middle to northwest in Area C. The main anomaly of niobium and tantalum is found near Yang Kiang village in the South in Area C.

(i) Niobium

In the sedimentary rock area, a low anomaly is distributed from Line C26 to Line C30, which includes the maximum anomalous value of 54 ppm.

Table 10. Division into anomaly value levels (Area C)

Area	Division Element	Background area		Anomaly area		
		Low	High	Low	Middle	High
Sedimentary rock	Nb	~ 26	27 ~ 31	32 ~ 36	37 ~ 42	43 ~
	Ta	~ 2	3	4 ~ 5	6 ~ 7	8 ~
	Sn	~ 10	11 ~ 17	18 ~ 29	30 ~ 51	52 ~
	W	~ 8	9 ~ 19	20 ~ 45	46 ~ 103	104 ~
Two mica granite	Nb	~ 32	33 ~ 43	44 ~ 59	60 ~ 80	81 ~
	Ta	~ 8	9 ~ 13	14 ~ 21	22 ~	
	Sn	~ 86	87 ~ 192	193 ~ 428	429 ~ 957	958 ~
	W	~ 52	53 ~ 137	138 ~ 359	360 ~ 945	946 ~
Biotite granite	Nb	~ 25	26 ~ 31	32 ~ 37	38 ~ 44	45 ~
	Ta	~ 4	5	6	7	8 ~
	Sn	~ 32	33 ~ 53	54 ~ 89	90 ~ 149	150 ~
	W	~ 22	23 ~ 54	55 ~ 130	131 ~ 314	315 ~

Unit : ppm

In the two mica granite area, medium to high anomalies are broadly distributed from Line C29 to Line C42. Especially high anomaly including the maximum value of 110 ppm is found in an extent of 100 m x 250 m from Line C41 to Line C42. In addition some low anomalies with an orientation of NNW-SSE are distributed from Line C17 to Line C25.

In the biotite granite area, low anomalies lie sporadically in the south, showing no remarkable anomalous area.

(ii) Tantalum

In the sedimentary rock area a low anomaly, overlapping with that of niobium, is distributed from Line C26 to Line C30.

In the two mica granite area, low to medium anomaly extends from Line C28 to Line C42. This anomaly is a medium anomaly with the maximum anomalous value of 29 ppm, over an area of 350 m x 500 m from Line C37 to Line C42. In addition, low to medium anomalies with an orientation of NNW-SSE are distributed. In the biotite granite area, small-scale low to medium anomalies are scattered on the south side of Line C30.

(iii) Tin

In the sedimentary rock area, medium to high anomalies are distributed on this area's border with two mica granite from Line C5 to Line C8.

In the two mica granite area, medium to high anomalies with 100 to 500 m width are distributed intermittently in the direction of NNW-SSE near the area's border with biotite granite from Line C1 to Line C27. Anomalous values exceeding 500 ppm are recognized in places. The maximum anomalous value of 2,500 ppm is obtained in these anomalies. In the biotite granite area there are three medium to high anomalies near this area's border with two mica granite. Among them a high anomaly with the maximum anomalous value of 2,200 ppm lying from Line C1 to Line C5 and a medium anomalies with the maximum anomalous value of 1,100 ppm extend from Line C13 to Line C14. Both anomalies continue from anomalies in two mica granite. A medium to high anomaly lying from Line C31 to Line C32 has an area of 100 m x 150 m approximately and presents the maximum anomalous value of 1,500 ppm.

(iv) Tungsten

At the boundary between sedimentary rock and two mica granite, lying from Line C1 to Line C3 and from Line C6 to Line C8, there are medium to high anomalies having the maximum anomalous values of 770 ppm and 1,200 ppm respectively.

Spreading over the two mica granite area and the biotite granite area, medium to high anomalies, ranging from 300 to 500 m in width, are distributed intermittently in the direc-

tion of NNW-SSE. Though this distribution nearly overlaps with that of tin anomalies

There is a medium to high anomaly that does not overlap with a tin anomaly near Line C42.

The samples with concentration more than 1,000 ppm were collected from many places, the maximum anomalous value coming up to 4,000 ppm in the anomalies.

In the biotite granite area, there is a low to medium anomaly area distributed in the direction of NNW-SSE from Line C35 to Line C40.

2-4 Discussion

Based on the result of geological survey and geochemical data obtained so far, the geology, geological structure and ore deposits will be discussed hereunder.

The area is composed of three groups, namely sedimentary rocks ranging in age from Cambrian to Carboniferous, Granitic rocks intruded into the former sedimentary rocks and alluvium.

The sedimentary rocks are classified into three formations, that is Ordovician system and Devono-Carboniferous System covering a narrow zone in the southwestern side of the area, Cambro-Ordovician system distributed as scattered small scale roof pendant.

The granitic rocks composed of biotite granite and two mica granite cover a major portion of the area. The relation of the two granite is not clear, but in the regional sense the two mica granite occurs in a rectangular area of 1.5 km x 5.0 km, elongated to NW-SE to NNW-SSE. The straight boundary with biotite granite suggests that the two mica granite intrudes the other.

The lithology and texture of those two types of granite, biotite granite and two mica granite, are different suggesting that these two granites are independent rock masses.

The main structural trend of the area is NW-SE to NNW-SSE and faults of the same trend cutting the sedimentary rocks are developed in the northwest of the area. These facts suggest that after the igneous activity formed the biotite granite batholith, intrusion of two mica granite took place along the NW-SE to NNW-SSE trending structural line.

Many scattered gossans are found in the area of two mica granite. These gossans are distributed in a narrow gossan zone 200m wide and about 3km long, elongated NNW-SSE.

The gossan zone occurs with a skarn zone suggesting that the gossan is weathered product of skarn by oxidation on the ground surface.

The skarn zone is mainly composed of epidote and quartz and sporadically is occurring garnet and hedenbergite. In this skarn zone, mineralization of copper, zinc, tin, tungsten, and rare occurrence of lead and silver have been observed. A part of the skarn zone keeps a relic of original

texture of sandstone and shale. Judging from the relic texture as well as the surrounding geological setting, the original rock might be the Cambro-Ordovician sedimentary sequence. The sedimentary rocks forming roof pendant are considered to be controlled structurally by the NNW-SSE trending structural system.

The silicified zone altered from two mica granite carrying mineralization of iron and copper is underlying the skarn zone. Conclusively, the skarn zone and the silicified zone are the product of pneumatolytic to hydrothermal activity subsequent to the intrusion of the two mica granite. The skarn zone is formed in the sedimentary sequence and the silicified zone is formed in the granite. The difference of alteration product with each lithology may be caused by that of chemical composition of the mother rock.

In and around the contact boundary between the two mica granite and Ordovician-Carboniferous sedimentary sequence, distinct kaolinization is observed and forms a narrow kaolin zone continuing from the central part of the area to the south with increasing intensity of alteration. Component minerals are kaolinite, quartz, muscovite, and tourmaline suggesting pneumatolytic and/or hydrothermal alteration took place in and around the boundary.

Both the kaolin zone and gossan zone are linearly arranged on the NNW-SSE trending line suggesting that the mineralization and alteration are controlled by the structure trending NNW-SSE.

Geochemical exploration revealed the distribution of tin and tungsten anomalies trending NW-SE and those anomalies coincide with the distribution of the gossan zone.

As a whole, the anomalous area of tin and tungsten and the anomalous area of niobium and tantalum are continuously developed. This clear zonal distribution trending NW-SE suggests the existence of mineralization and alteration controlled by the structure of the same trend. In the anomalous area, many highly anomalous values exceeding 1,000 ppm of tin and tungsten are included. This suggests the existence of undiscovered, promising mineralized zones in the area.

Chapter 3 Geochemical Characteristics of Granites

The Yang Kiang area is dominantly underlain by Triassic granites. The Phase I survey defined them as the northeast, the southeast, the central, and the Mon Kathing Masses. Whole-rock assay was performed for 12 samples, and the relationship between geochemical characteristics of the granites and tin-tungsten mineralization was studied. The results of the survey reveal that almost all granites in the area are granite proper, corresponding to S-type granite defined by Chappell and White (1974), and White and Chappell (1977), and high tin-content type granite.

The survey area for the second phase is in a distribution area of the Northeast Mass. The granites consist of biotite granite and two-mica granite. In the second phase survey, a whole rock assay has been performed for 11 granite samples obtained from different facies, and geochemical characteristics of the granites have been studied referring to the first year's results. Assayed components are SiO_2 , TiO_2 , Al_2O_3 , Fe_2O_3 , FeO , MnO , MgO , CaO , Na_2O , K_2O , P_2O_5 , BaO , L.O.I.

3-1 Differentiation Index (D.I.) and Normative Mineral

Table 11 shows principal chemical components and norm minerals of the granites. The differentiation indices of the granites, shown by the sum of the weight per cent of norm quartz, orthoclase, albite, nepheline, kalsilite, are 85.9 to 90.1 in the biotite granite in Area A, 87.2 to 95.7 in the two-mica granite in Area A, and 93.2 to 94.7 in the two-mica granite in Area C. The indices are higher than those of the Phase I survey, in which the samples were obtained from various locations of the whole area. The results suggest that the granites of the second phase survey area are of more differentiated stages.

Of these the biotite granite in Area A and the two-mica granite in Area C are the most differentiated, and the biotite granite in Area C is the least differentiated. The biotite granite in Area A is of medium differentiation.

Figure 9 shows the relationship between the differentiation indices and principal components, combined with the results of the first year's survey. The differentiation indices and SiO_2 contents show strong positive correlation. However, TiO_2 , Fe_2O_3 , FeO , MnO , MgO , CaO , BaO show negative correlation with the differentiation indices, especially in the case of CaO . Other components, Al_2O_3 , Na_2O , K_2O , and P_2O_5 show no correlations.

According to the ratio of the norm quartz, plagioclase, and orthoclase, the granites in the area are classified as granite proper except for granodiorite and quartz monzonite in Area A (samples AR-1 and AR-4). This result is well coincident to the results of the Phase I survey (Fig. 10).

Table 11. Chemical analyses of granitic rocks

Sample No.	area A						area C				
	AR-1	AR-2	AR-3	AR-4	AR-5	AR-6	CR-1	CR-2	CR-3	CR-4	CR-5
Rock type	Biotite granite	Biotite granite	Biotite granite	Biotite granite	Two mica granite	Two mica granite	Biotite granite	Biotite granite	Two mica granite	Two mica granite	Two mica granite
SiO ₂	72.21	71.60	70.44	66.64	72.84	75.81	72.24	70.53	74.62	75.31	75.72
TiO ₂	0.20	0.40	0.27	0.41	0.39	0.10	0.37	0.41	0.15	0.08	0.10
Al ₂ O ₃	15.53	14.10	15.37	16.93	14.12	13.02	14.09	14.37	13.68	14.02	13.73
Fe ₂ O ₃	0.39	0.65	0.52	0.53	0.44	0.27	0.38	0.56	0.55	0.43	0.39
FeO	0.65	1.30	1.01	1.08	1.30	0.22	1.59	1.61	0.50	0.29	0.10
MnO	0.04	0.03	0.03	0.01	0.02	0.00	0.05	0.05	0.05	0.03	0.01
MgO	0.36	1.10	0.95	0.94	0.99	0.26	0.86	1.38	0.21	0.05	0.07
CaO	1.89	1.16	0.79	0.59	0.84	0.20	1.34	1.22	0.42	0.36	0.28
Na ₂ O	5.44	3.34	4.40	4.36	2.55	2.21	3.18	2.81	3.25	4.01	3.26
K ₂ O	1.93	5.20	5.12	7.89	5.28	7.06	4.30	5.12	5.18	3.96	5.03
P ₂ O ₅	0.07	0.23	0.34	0.12	0.21	0.06	0.25	0.24	0.19	0.32	0.27
BaO	0.05	0.08	0.06	0.12	0.07	0.05	0.07	0.11	0.01	0.00	0.01
LOI	0.52	0.58	0.58	0.40	0.96	0.52	1.05	1.27	0.89	0.93	1.12
total	99.28	99.77	99.88	100.02	100.01	99.78	99.77	99.68	99.70	99.79	100.09
Q	28.47	28.16	22.58	8.26	34.42	35.24	32.83	29.64	35.07	36.71	37.40
C	1.19	1.37	1.93	0.35	3.14	1.49	2.32	2.49	2.41	3.14	2.92
or	11.41	30.73	30.26	46.63	31.20	41.72	25.41	30.26	30.61	23.40	29.73
ab	46.03	28.26	37.23	36.89	21.58	18.70	26.91	23.78	27.50	33.93	27.59
an	9.01	4.40	1.81	2.36	2.92	0.69	5.14	4.68	0.86	0.00	0.00
di	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
en	0.90	2.74	2.37	2.34	2.47	0.65	2.14	3.44	0.52	0.12	0.17
fs	0.62	1.25	1.04	0.89	1.42	0.02	2.09	1.91	0.31	0.10	0.00
mt	0.57	0.94	0.75	0.77	0.64	0.39	0.55	0.81	0.80	0.62	0.07
il	0.38	0.76	0.51	0.78	0.74	0.19	0.70	0.78	0.28	0.15	0.19
ap	0.16	0.53	0.79	0.28	0.49	0.14	0.58	0.56	0.44	0.74	0.63
D.I	85.91	87.15	90.07	91.78	87.20	95.66	85.15	80.68	93.18	94.04	94.72

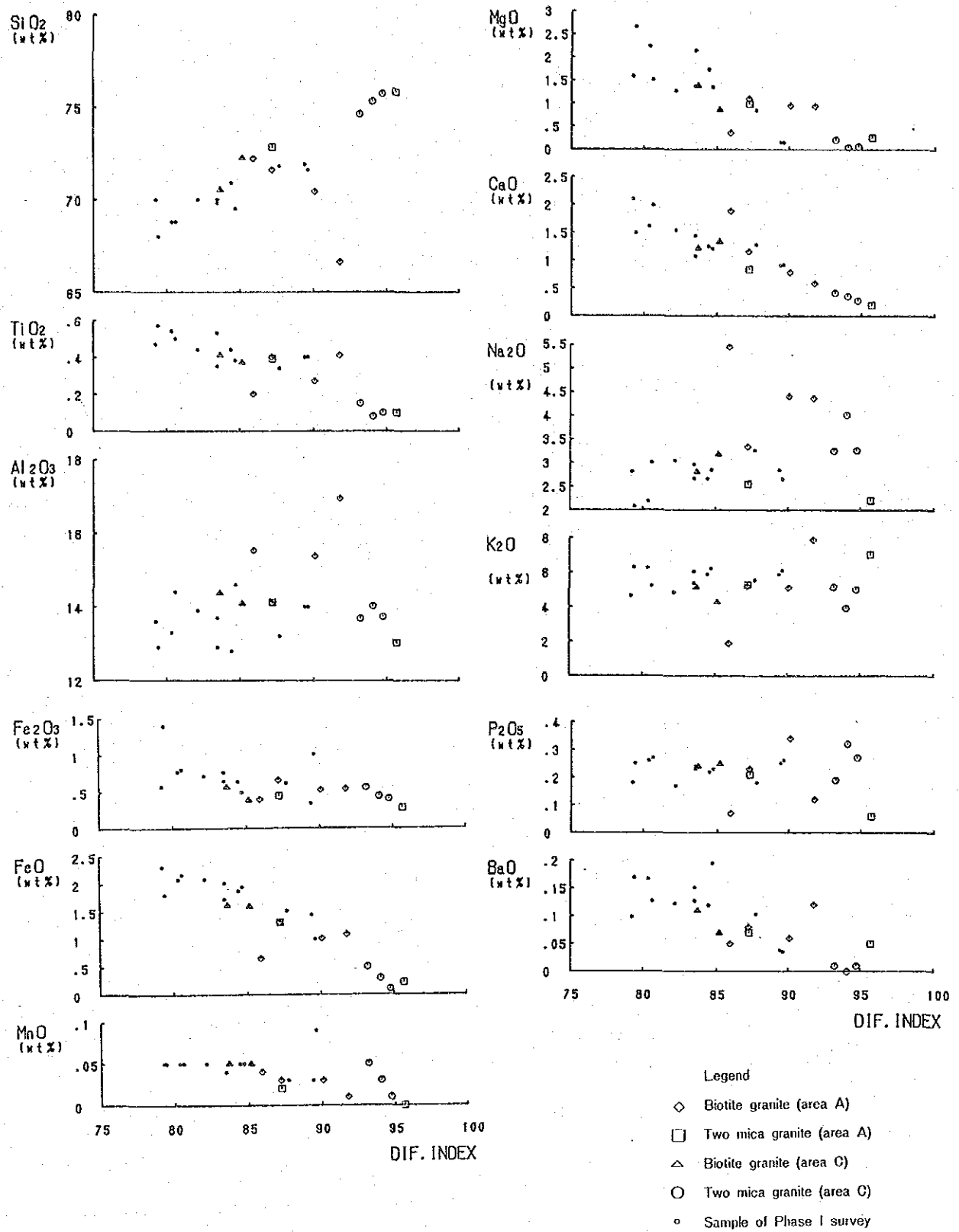


Fig. 9 Variation diagrams of granitic rocks

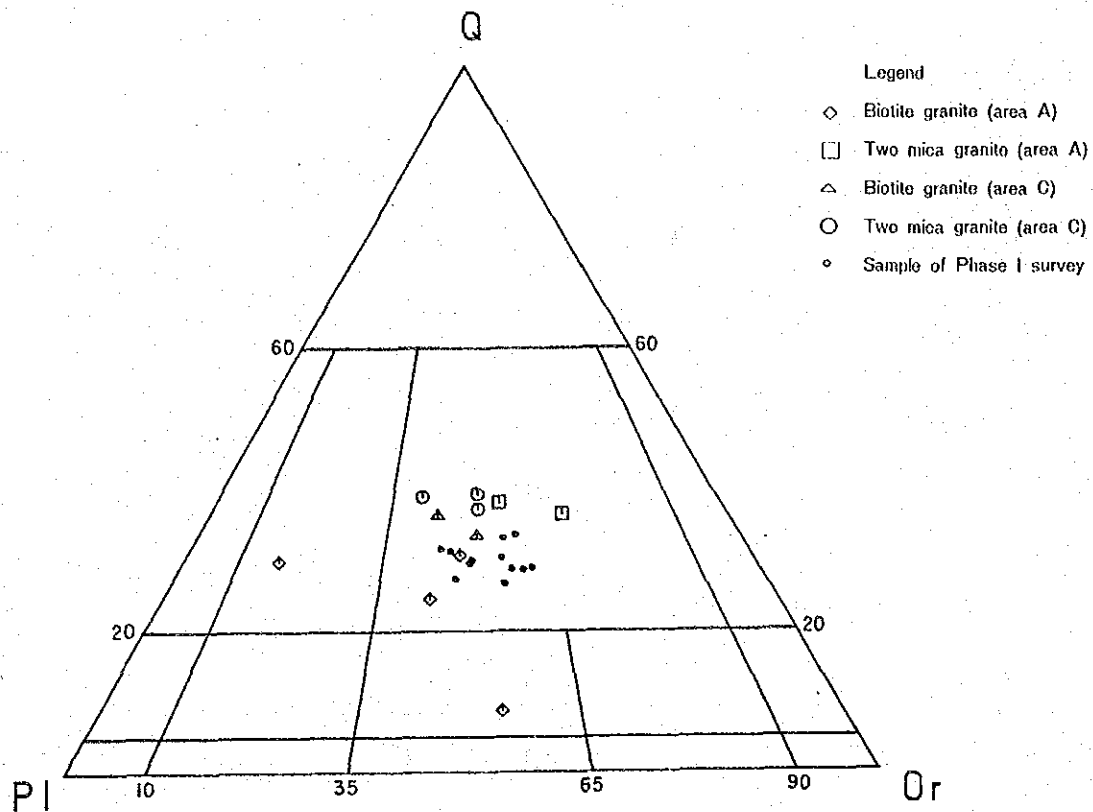


Fig. 10 Normative Q-Ab-Or diagram

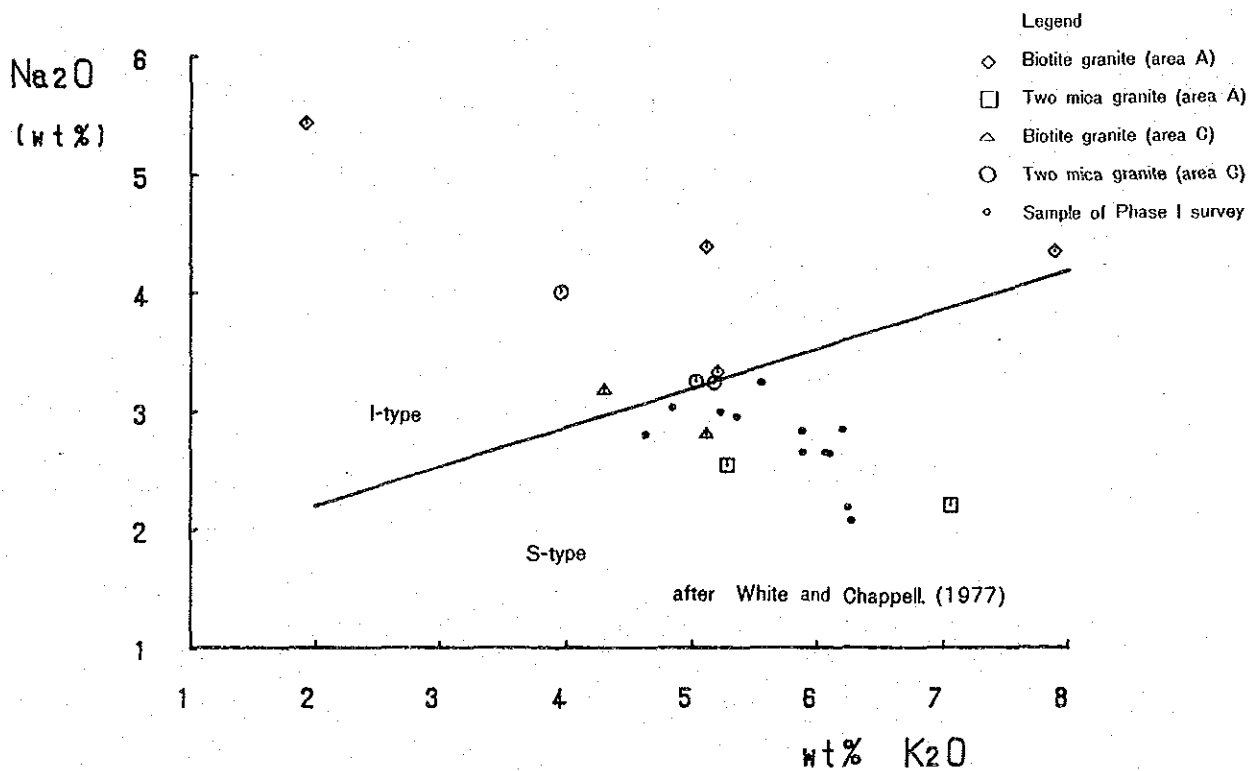


Fig. 11 $\text{Na}_2\text{O} - \text{K}_2\text{O}$ diagram

Norm corundum is calculated to be present in all samples for the second phase as was the case with almost all of the Phase I samples. It suggests that the granites have been derived from per-aluminum magma.

3-2 Classification of the Granitic Rocks

An attempt to determine the origin of magma, which gave rise to granites, using parameters of certain principal chemical components started in the middle of 1970's. Chappell and White (1974), and White and Chappell (1977) classified the granites into S-type (Sedimentary-type) and I-type (Igneous type), based on their principal chemical components. The S-type shows the following chemical characteristics.

- (1) Na_2O content is less than 3.2 percent in cases where K_2O content is about 5 percent. Na_2O content is less than 2.2 percent in cases where K_2O content is about 2 percent.
- (2) $\text{Al}_2\text{O}_3/(\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{CaO})$ mol ratio is less than 1.1 percent.
- (3) Norm corundum weight percent is more than 1.0.
- (4) It is plotted in the less Ca content area in the ACF diagram.

The I-type shows reverse characteristics for each of the above parameters.

In the correlation diagram of $\text{Na}_2\text{O} - \text{K}_2\text{O}$ (Fig. 11), all the samples of the first year's survey are plotted in the S-type area. However, the samples of the second phase survey are mainly plotted in the I-type area and the border area of I-type and S-type, except for a few samples, i.e. AR-5, AR-6, and CR-2.

According to the criteria of $\text{Al}_2\text{O}_3/(\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{CaO})$, the biotite granite is classified as I-type and the rest as S-type.

On the other hand, according to the criteria of norm corundum, all the granite samples in the area are classified into S-type except for one sample collected in Area A, AR-4.

As the ACF diagram (Fig. 12) shows, a sample of the biotite granite in Area A, AR-1, is plotted in the S-type area, two samples of the two mica granite in Area C, CR-4 and CR-5, are plotted in a border area of the two types, and all the rest of the samples are plotted in the S-type area.

Ishihara (1976) indicated the importance of the relations among CaO , Na_2O , and K_2O , and classified the Miocene granites in Japan into three, the Outer zone of Southwest Japan showing high $\text{K}_2\text{O}/\text{Na}_2\text{O}$ ratios in the CNK ($\text{CaO}-\text{Na}_2\text{O}-\text{K}_2\text{O}$) diagram, the Tanzawa-Nijijima trend showing significantly low $\text{K}_2\text{O}/\text{Na}_2\text{O}$ ratios, and the Middle trend between the foregoing two.

Takahashi (1985) described the Outer zone of Southwest Japan as seemingly of typical S-type trend, and the Tanzawa-Nijijima trend as close to the M-type (Mantle source type),

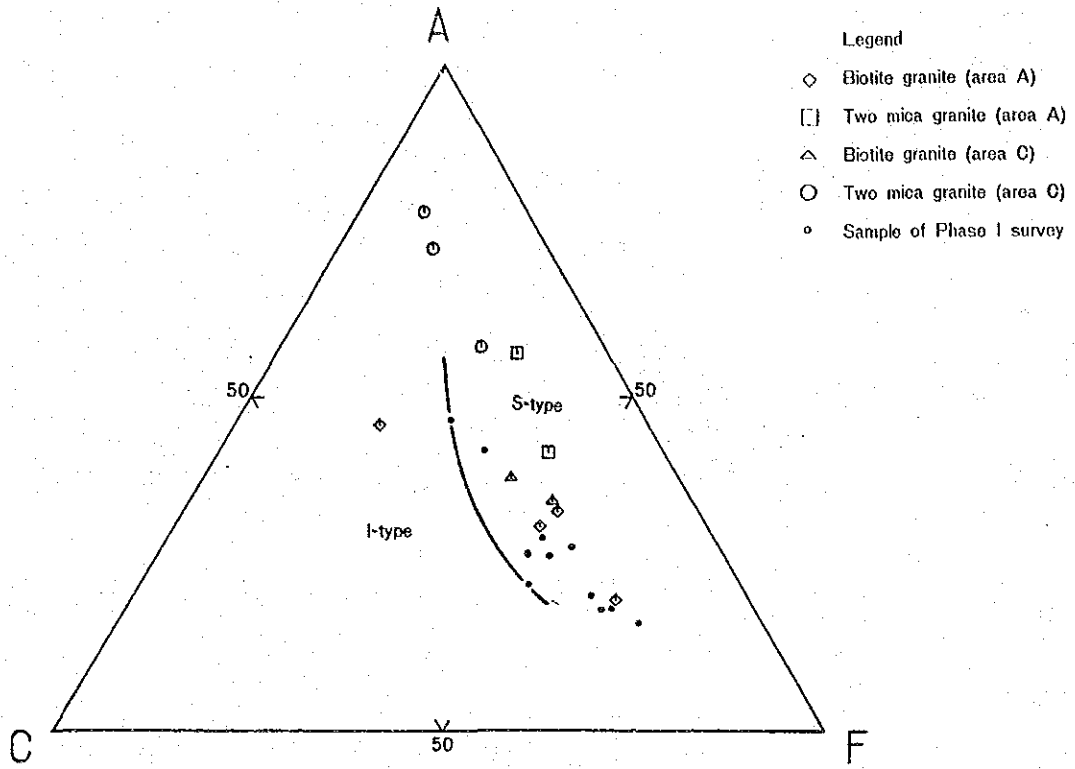


Fig. 12 ACF ($\text{Al}_2\text{O}_3 - \text{Na}_2\text{O} - \text{K}_2\text{O} / \text{CaO} / \text{FeO} + \text{MgO}$) diagram

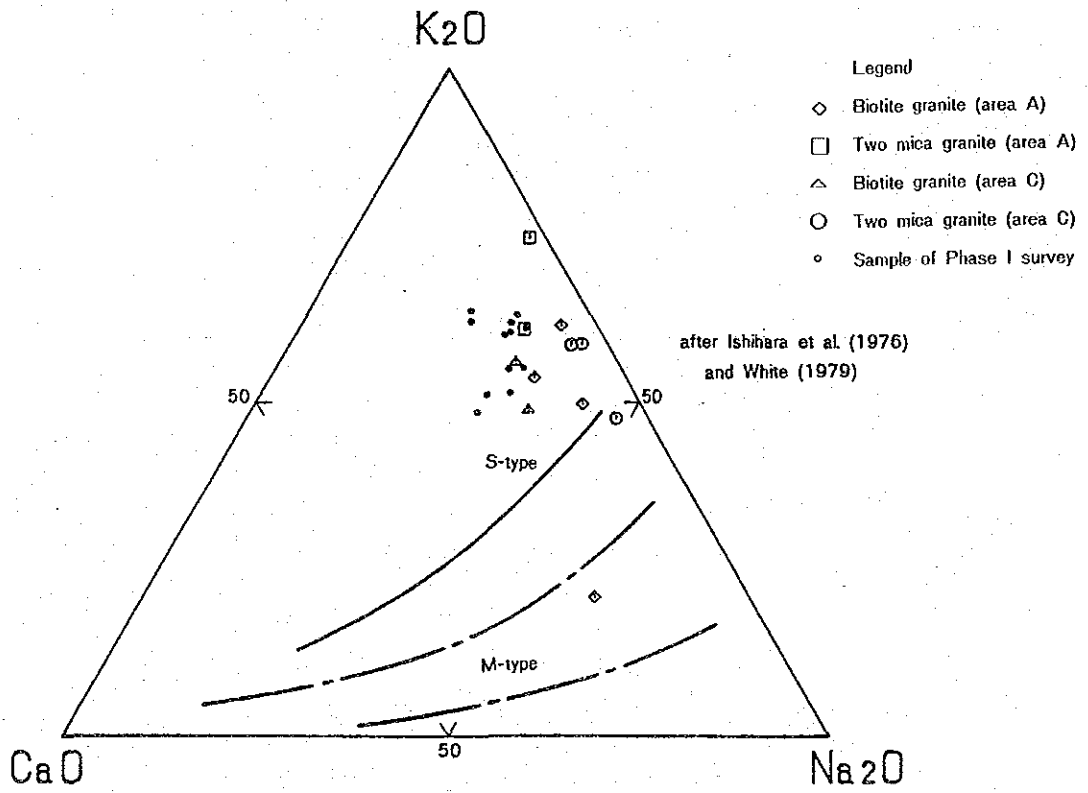


Fig. 13 CNK ($\text{CaO} - \text{Na}_2\text{O} - \text{K}_2\text{O}$) diagram

proposed by White (1979) as an independent series apart from the I-type.

As Figure 16 shows, the granites in the Yang Kiang area show nearly the same trend in CNK (CaO-Na₂O-K₂O) diagram as that of the Outer zone of southwest Japan, namely of S-type (Fig. 13).

Ishihara (1975 and 1977) proposed two granite-series, the Magnetite-series and Ilmenite-series, based on his studies on magnetic susceptibility and opaque minerals of the granites. According to this, the former was formed under the conditions of oxidization when the magma was consolidating, and the latter was formed under the conditions of reduction. The two have different principal chemical components. The Magnetite-series shows more than 0.5 and the Ilmenite-series shows less than 0.5 in Fe₂O₃/FeO ratio.

Furthermore, Ishihara (1981) plotted granites in the Thai Peninsula on a Fe³⁺/Fe²⁺-Differentiation diagram (Fig. 14) and classified them into the above mentioned two series, showing dotted line for the Magnetite-series area and solid line for the Ilmenite-series area. Based on this study, he suggested that the granites of the Ilmenite-series are associated with cassiterite-wolframite mineralization.

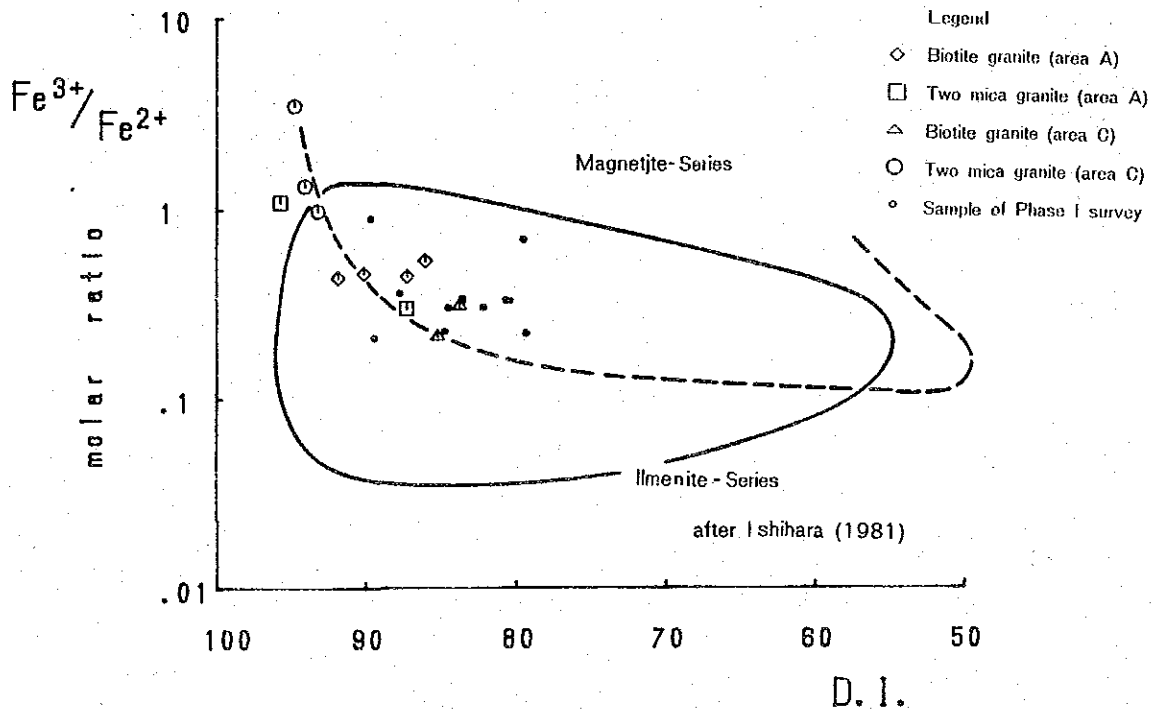


Fig. 14 Fe³⁺/Fe²⁺ - Differentiation index diagram

Applying Ishihara's criteria, the granites in the survey area are generally classified into the Ilmenite-series except for a few samples, AR-6, CR-3, CR-5, which show enormously high differentiation indices. Therefore, the granites are adequate for associating the above mentioned mineralization, judging from their characteristics.

Table 12 summarizes the results of the classification.

Classifications of the Magnetite-series and Ilmenite-series, and the I-type and S-type are principally based on different criteria. However, most of S-type granites are in the Ilmenite-series, and I-type granites are in both series. In summary, the granites in the area are mainly of the S-type and the Ilmenite-series.

3-3 Discussions

The mineralization in the area is principally associated with pegmatites in Area A, and associated with two mica granites in Area C. This suggests that two mica granites and pegmatites showing significantly high differentiation indices are presumably the final differentiation products of the magma which formed the Northeast mass, and are closely associated with mineralization.

Table 12. Classification of granite series

Item Sample No.	Locality	Rock name	Norm corundum	Na ₂ O/K ₂ O	$\frac{Al_2O_3}{Na_2O+K_2O+CaO}$	ACF	CNK	Fe ₂ O ₃ /FeO	Microscopic observation
AR-1	Huai Sa Ngin (X0, Y7.5)	Biotite granite	S (1.19)	I (5.44/1.93)	I (1.07)	I	S?	mg (0.60)	il
AR-2	Huai U Tum (X18, Y05)	Biotite granite	S (1.37)	I (3.34/5.20)	I (1.07)	S	S	mg (0.50)	mg
AR-3	Huai Sa Ngin (X32, Y19)	Biotite Granite	S (1.93)	I (4.40/5.12)	I (1.08)	S	S	mg (0.51)	il
AR-4	Branch of Huai U Tum (X36, Y10)	Biotite granite	I (0.35)	I (4.36/7.89)	I (1.01)	S	S	il (0.49)	il
AR-5	Huai U Tum (X22, Y4)	Two mica granite	S (3.14)	S (2.55/5.28)	S (1.23)	S	S	il (0.34)	il
AR-6	Branch of Huai Sa Ngin (X43, Y14)	Two mica granite	S (1.49)	S (2.21/7.06)	S (1.12)	S	S	mg (1.23)	il
CR-1	Branch of Nam Mae Hong (C6-37)	Biotite granite	S (2.32)	I (3.18/4.30)	S (1.14)	S	S	il (0.24)	il
CR-2	Nam Mae Hong (C5-32)	Biotite granite	S (2.49)	S (2.81/5.12)	S (1.16)	S	S	il (0.35)	il
CR-3	Branch of Nam Mae Hong (C31-35)	Two mica granite	S (2.41)	S (3.25/5.18)	S (1.17)	S	S	mg (1.10)	mg
CR-4	Branch of Nam Mae Hong (C24-24)	Two mica granite	S (3.14)	I (4.01/3.96)	S (1.22)	S-I	S	mg (1.48)	il
CR-5	Nam Mae Hong (C9-28)	Two mica granite	S (2.92)	I (3.26/5.03)	S (1.21)	S-I	S	mg (3.90)	il

S ; S-type, I ; I-type, mg ; Magnetite series, il ; ilmenite series

PART III CONCLUSION AND RECOMMENDATION

Chapter 1 Conclusion

For the second phase, geological and geochemical survey was carried out in Area A and Area C which were identified as potential areas by the first phase survey. The results of the second phase survey are as the Triassic.

Area A

- (1) The area is underlain by biotite granite, two mica granite, pegmatite, aplite, and quartz veins being regarded as the Triassic.
- (2) It is inferred from difference of distribution, form, lithology, and texture that after the biotite granite batholith was formed, the two mica granite intruded and the pegmatite, aplite, and quartz veins subsequently intruded into both granites.
- (3) It is confirmed by chemical analyses of panning concentrates that the pegmatites contain niobium, tantalum, tin, and tungsten. The pegmatites supplied placer deposits with tin and tungsten in the area. The pegmatites with beryl show high contents of all the aforementioned elements.
- (4) Placer deposits and mineral indications correspond to the locations of the pegmatites, tin, and tungsten.
- (5) Locations of geochemically anomalous zones rich in all analyzed elements generally coincide, especially around old workings along tributaries of Huai U Tum and mineral indications in the middle course of Huai Sa Ngin. Those anomalous zones have potentiality for existence of pegmatites rich in niobium, tantalum, tin, and tungsten.

Area C

- (1) The area is underlain by Cambrian to Carboniferous sedimentary sequence, Triassic granites, and alluvium.
- (2) The sedimentary rocks consist of Cambrian to Ordovician system, Ordovician system, and Devonian to Carboniferous system. The first one is distributed in small areas as roof pendants and the latter two are distributed long and narrowly in the southwestern part.
- (3) The granites are biotite granite and two mica granite same as Area A. It is inferred from lithology, texture, distribution and shape that the latter granite intruded the former one. Pegmatite is not seen in the area.
- (4) Many small gossans are seen in the two mica granite area and is aligned in NNW-SSE direction. They form a gossan zone in approximately 200m wide and 3km long strip.

(5) Some gossans accompany skarn zones and silicified zones and show mineralization of tin, tungsten, copper, zinc, and others. It is inferred that the mineralization is controlled in SSW-SSE direction.

(6) A kaolin zone which consists of kaolinite, quartz, muscovite and tourmaline is in the two mica granite zone in the center to the southern part. The kaolin zone seems to be continuous to the gossan zone.

(7) Geochemically anomalous zones rich in tin and tungsten are distributed in a NNW-SSE strip and overlap the gossan zone. An anomalous zone rich in niobium and tantalum is continuous to the aforementioned anomalous zone and overlaps the kaolin alteration zone. These anomalous zones contain many high assay values of tin and tungsten suggesting high potential for economical mineralization zones.

Chapter 2 Recommendation for the Third Phase Survey

As a result, the following two places are identified as highly potential areas for economical ore deposits:

(1) Around the old workings along a tributary of Huai U Tum, and a geochemically anomalous zone in the middle course of Huai Sa Ngin in Area A.

(2) A geochemically anomalous zone extending NNW-SSE which overlap the gossan zone and the kaolin zone in Area C.

The geochemically anomalous zone in Area C has the highest potential in containing more promising ore deposit because of mineral content and extent of anomalous zone.

Therefore, we recommend for the third phase survey that trench survey and shallow drilling to 30 to 50m deep should be carried out to confirm existence of mineral indications and extent of mineralized zone at the geochemically anomalous zone in Area C.

REFERENCE

- Chappell, B.W., and White, A.J.R., 1974, Two contrasting granite types: *Pacif. Geol.*, no. 8, p. 173-174.
- German Geological Mission, 1972, Final report of the German Geological Mission to Thailand 1966-1971: *Geol. Survey of Fed. Rep. Germany*, 94p.
- Hahn, L., and Siebenhüner, M., 1982, Explanatory notes (Paleontology) on the Geological maps of northern and western Thailand 1 : 250,000, 76 pp, Bundesanstalt für Geowissenschaften und Rohstoffe.
- Hutchison, C.S. 1983, Multiple Mesozoic Sn-W-Sb granitoids of southeast Asia: *Geol. Soc. America, Memor.*, 159, p. 35-60.
- Ishihara, S., 1977, The magnetite-series and ilmenite-series granitic rocks: *Mining Geol.*, v. 27, p. 293-305.
- Ishihara, S., 1981, The granitoid series and mineralization: *Econo. Geol. 75th Anniversary vol.*, p. 458-484.
- Ishihara, S., Sawata, H. and Shibata, K., Terashima, S., Arrykul, S. and Sato, K., 1980, Granites and Sn-W deposits of Peninsular Thailand, in Ishihara, S. and Takenouchi, S., eds., *Granitic magmatism and related mineralization: Mining Geol. Spec. Issue*, no. 8, p. 223-241.
- Javanaphet, J.C., 1969, Geological map of Thailand: scale 1:1,100,000: Department of Mineral Resources, Bangkok, Thailand.
- JICA, 1984, The Pre-Feasibility Study for the San Kampaeng Geothermal Development Project in the Kingdom of Thailand, Technical Report
- JICA and MMAJ, 1986, consolidated report on the geological survey of the Omkoi area, north-western Thailand: Japan International Cooperation Agency and Metal Mining Agency of Japan.
- JICA and MMAJ, 1987, Report on the geological survey of Yang Kiang area, Phase I: Japan International Cooperation Agency and Metal Mining Agency of Japan.
- Suensilpong, S., Putthapiban, P., and Mantajit, N., 1983, Some aspects of tin granite and its relationship to tectonic setting: *Geol. Soc. America, Memor.*, 159, p. 77-85.
- Takahashi, M., 1985, A proposal and development of granitoid series concept, *Mem. Geol. Soc. Japan*. No. 25, p. 255-244
- Taylor, S.R., 1964, Abundance of chemical elements in the continental crust: a new table: *Geochim. Cosmochim. Acta*, v. 28, p. 1273-1285.
- Teggin, D.E. 1975, Rubidium-strontium whole-rock ages of granites from northern Thailand:

- ESCAP-Seminar regiometr. Age Dat. May 1975 (Oral present. N.I. Snelling), Bangkok.
- Tischendorf, G., 1977, Geochemical and petrographic characteristics of silicic magmatic rocks associated with rare element mineralization; in Stempok, M., Burnol, L., and Tischendorf, G., eds., Metallization associated with acid magmatism: Geol. Survey of Czechoslovakia, v.2, p. 41–96.
- Tischendorf, G., Schust, F., and Lange, H., 1978, Relation between granites and tin deposits in the Erzgebirge, GDR; in Metallization associated with acid magmatism: v.3, p. 123–137.
- Vichit, P. and Khuenkong, P., 1983, Tin-tungsten deposits in Omkoi, Chiangmai Province: Department of Mineral Resources, Bangkok, Thailand, 119p.
- White, A.J.R. 1979, Mantle source type granite, G.S.A. Abstr. 11, p. 539.
- White, A.J.R., Beam, S.D., and Cramer, J.J., 1977, Granitoid types and mineralization with special reference to tin; in Yamada, N., ed., Plutonism in relation to volcanism and metamorphism: Proc. 7th CPPP Mtg., Toyama, p. 89–100.
- White, A.J.R. and Chappell, B.W., 1977, Ultrametamorphism and granitoid genesis: Tectonophy., v. 43, p. 7–22.

APPENDICES

Appendix 1. Microscopic observation of rock thin sections

No.	Sample No.	Locality	Rock name	Texture	Primary mineral											Secondary mineral								
					qz	pg	kf	bi	mu	tl	ap	ti	zr	gt	ru	by	mz	op	ch	sr	qz			
1	AR-1	Huai Sa Ngin (X0, Y7.5)	biotite granite	granitic	○	⊙	○	○	●								●				●	●		
2	AR-2	Huai U Tum (X18, Y0.5)	biotite granite	granitic, porphyritic	○	⊙	⊙	○	●				●								●		○	
3	AR-3	Huai Sa Ngin (X32, Y19)	gneissose biotite granite	granoblastic	⊙	⊙	○	○				●									●			
4	AR-4	Branch of Huai U Tum (X36, Y10)	biotite granite	granitic, porphyritic	○	○	⊙	○		●		●		●							●		●	
5	AR-5	Huai U Tum (X22, Y4)	two mica granite	granitic	⊙	⊙	⊙	○	○			●									●		○	
6	AR-6	Branch of Huai Sa Ngin (X43, Y14)	two mica granite	granitic, cataclastic	⊙	○	○	○				●									●		●	
7	AR-8	Huai Sa Ngin (X1, Y9)	pegmatite	pegmatitic	⊙	○	⊙	○						●						○	●		●	
8	AR-9	Huai Sa Ngin (X28, Y16.5)	pegmatite	pegmatitic	⊙	⊙			●											○				
9	AR-10	Huai Sa Ngin (X31, Y19)	pegmatite	pegmatitic	○	○	⊙	○	○											○				
10	CR-1	Branch of Nam Mae Hong (C6-37)	biotite granite	granitic, porphyritic	⊙	○	⊙	○	●			●		●							●		○	○
11	CR-2	Nam Mae Hong (C5-32)	biotite granite	granitic, porphyritic	⊙	○	⊙	○	●			●		●							●		○	○
12	CR-3	Branch of Nam Mae Hong (C31-35)	two mica granite	granitic	⊙	○	⊙	○	○					●							●		●	●
13	CR-4	Branch of Nam Mae Hong (C24-24)	two mica granite	granitic, cataclastic	⊙	○	⊙	○	○			○		○							○		○	○
14	CR-5	Nam Mae Hong (C9-28)	mylonitic granite	mylonitic	⊙	○	⊙	○	○			○		○							○		○	○
15	CR-6	Branch of Nam Mae Hong (C27-20)	leucocratic granite	granitic	○	○	⊙	○				○		○							○			

Abbreviations: qz ; quartz, pg ; plagioclase, kf ; K-feldspar, bi ; biotite, mu ; muscovite, tl ; tourmaline, ap ; apatite, ti ; sphene, zr ; zircon, gt ; garnet, ru ; rutile, by ; beryl, mz ; monazite, op ; opaque, ch ; chlorite, sr ; sericite

Symbols : ⊙ : abundant, ○ : common, ○ : rare, ● : trace

Appendix 2. Microscopic observation of ore polished sections

No.	Sample No.	Locality	Description	Ore minerals													Gang minerals												
				cs	sh	w	gn	cr	po	py	cp	goe	ct	il	mag	hem	qz	kf	pg	sr	ch	ep	gt	tl	ru	zr	ap	an	xe
1	AO-13	Huai Sa Ngln (X11, Y14)	Panning concentrate (Pegmatite)	○																		⊙	•	○			•	○	
2	AO-20	Huai Sa Ngln (X25, Y16)	Panning concentrate (Pegmatite)	○																		⊙	•	○	○		•		
3	AO-31	Huai Sa Ngln (X31, Y19)	Panning concentrate (Stream sediment)	⊙																		○							
4	AO-43	Branch of Huai U Tum (X6, Y5)	Panning concentrate (Pegmatite)	⊙						•			○									⊙	○						
5	AO-57	Branch of Huai U Tum (X8, Y1.5)	Panning concentrate (Stream sediment)	⊙	•																	⊙	○	•	○		•		
6	AO-70	Branch of Huai U Tum (X47, Y9.5)	Panning concentrate (Stream sediment)	⊙	○								•		•										○				
7	CO-11	Nam Mae Hong (C41-3)	Panning concentrate (Stream sediment)	⊙	○								•	○									•	○		•	○	○	
8	CO-19	Branch of Nam Mae Hong (C24-24)	Panning concentrate (Stream sediment)	○	•								○	⊙									•	○	○		•		
9	CO-24	Branch of Nam Mae Hong (C30-28)	Panning concentrate (Stream sediment)										•	○									○	○	○				
10	CO-27	Branch of Nam Mae Hong (C43-9)	Panning concentrate (Stream sediment)	○	•						⊙				○								○						
11	CO-29	Branch of Nam Mae Hong (C46-25)	Panning concentrate (Stream sediment)	○	•								○	○									○	○	⊙		•		
12	CO-100	C2 ore body (C9-29)	Oxidized ore (Gossan)										⊙					○	○										
13	CO-101	C2 ore body (C9-29)	Green skarn (Banded)							○	○	⊙						⊙	○		⊙	•	○		•	•			
14	CO-102	C2 ore body (C9-29)	Green skarn							○	○		○								⊙			•					
15	CO-103	C2 ore body (C9-29)	Silicified ore							○	•	○		○	•	⊙													
16	CO-104	C2 ore body (C9-29)	Green skarn						⊙	•	○							○		○		•	○						
17	CO-105	C2 ore body (C9-29)	Sulfide ore				○	○		○	•	○										○	○						
18	CO-106	C1 ore body (C28-17)	Silicified ore							○				○									•						
19	CO-107	C1 ore body (C28-17)	Sulfide ore						○	⊙	○				•	⊙		○	○	○						•			
20	CO-108	C1 ore body (C28-17)	Green skarn						•									○				⊙	⊙						○
21	CO-109	C2 ore body (C11-31)	Oxidized ore (Gossan)														⊙	○	⊙							•			

Abbreviations: cs ; cassiterite, sh ; scheelite, w ; wolframite, gn ; galena, cr ; cerussite, po ; pyrrhotite, py ; pyrite, cp ; chalcopyrite, goe ; goethite, ct ; columbite-tantalite, il ; ilmenite, mag ; magnetite, hem ; hematite, qz ; quartz, kf ; K-feldspar, pg ; plagioclase, sr ; sericite, ch ; chlorite, ep ; epidote, gt ; garnet, tl ; tourmaline, ru ; rutile, zr ; zircon, ap ; apatite, an ; anatase, xe ; xenotime, mz ; monazite, ca ; calcite

Symbols : ⊙ ; abundant, ○ ; common, ◦ ; rare, • ; trace

Appendix 3. Results of X-ray diffraction

No.	Sample No.	Locality	Description	cs	sh	w	ct	cp	sp	po	py	ma	mag	hem	goe	il	kf	pg	qz	gt	tl	ru	zr	an	xe	mz	hd	ep	ca	ch	mu	
1	AO-13	Huai Sa Ngin (X11, Y14)	Panning concentrate (Pegmatite)	⊙			○												○	⊙		○	⊙		○	○						
2	AO-15	Huai Sa Ngin (X17, Y15)	Panning concentrate (Pegmatite)	○			•													•		○	○		○	○						
3	AO-20	Huai Sa Ngin (X25, Y16)	Panning concentrate (Pegmatite)	○																⊙		•	○								⊙	
4	AO-31	Huai Sa Ngin (X31, Y19)	Panning concentrate (Stream sediment)	⊙			○													•	○											
5	AO-43	Branch of Huai U Tum (X6, Y5)	Panning concentrate (Pegmatite)	⊙			○														•	○										
6	AO-57	Branch of Huai U Tum (X8, Y1.5)	Panning concentrate (Stream sediment)	⊙	○		•														○		•	○								
7	AO-70	Branch of Huai U Tum (X47, Y9.5)	Panning concentrate (Stream sediment)	⊙	○		○																•	•		○						
8	CO-11	Nam Mae Hong (C41-3)	Panning concentrate (Stream sediment)	⊙	•		•									○							•		•	•	•				⊙	
9	CO-18	Branch of Nam Mae Hong (C24-37)	Panning concentrate (Stream sediment)	○	•											○							○	⊙		○						
10	CO-19	Branch of Nam Mae Hong (C24-24)	Panning concentrate (Stream sediment)	○	•		•									⊙							○	○	•							
11	CO-24	Branch of Nam Mae Hong (C30-28)	Panning concentrate (Stream sediment)				○									○						○	⊙	○		•						
12	CO-27	Branch of Nam Mae Hong (C43-9)	Panning concentrate (Stream sediment)	○		○					⊙				○																	
13	CO-29	Branch of Nam Mae Hong (C46-25)	Panning concentrate (Stream sediment)	○			•									⊙						○	⊙	•		•						
14	CO-33	Branch of Nam Mae Hong (C26-13)	Panning concentrate (Two mica granite)																	•	○		⊙	○	•	•						
15	CO-100	C2 ore body (C9-29)	Oxidized ore (Gossan)											•	⊙						•											
16	CO-101	C2 ore body (C9-29)	Green skarn (Banded)								○				○													•				
17	CO-102	C2 ore body (C9-29)	Green skarn					•			○										⊙						○					⊙
18	CO-103	C2 ore body (C9-29)	Silicified ore					•					○								⊙											
19	CO-104	C2 ore body (C9-29)	Green skarn					•		○		○		○							○	•								•	○	
20	CO-105	C2 ore body (C9-29)	Sulfide ore						○		⊙	○									⊙										•	
21	CO-106	C1 ore body (C28-17)	Silicified ore								•		○								○	⊙	○							○	○	
22	CO-107	C1 ore body (C28-17)	Sulfide ore					•		○	○	•									•	○								○	○	
23	CO-108	C1 ore body (C28-17)	Green skarn																		⊙	○					○	○	•			
28	CO-109	C2 ore body (C11-31)	Oxidized ore (Gossan)		•								⊙	•																		

Abbreviations: cs ; cassiterite, sh ; scheelite, w ; wolframite, ct ; columbite-tantalite, cp ; chalcopyrite, sp ; sphalerite, po ; pyrrhotite, ma ; marcasite, py ; pyrite, mag ; magnetite, hem ; hematite, goe ; goethite, il ; ilmenite, kf ; K-feldspar, pg ; plagioclase, qz ; quartz, gt ; garnet, tl ; tourmaline, ru ; rutile, an ; anatase, zr ; zircon, xe ; xenotime, mz ; monazite, hd ; hedenbergite, ep ; epidote, ca ; calcite, ch ; chlorite mu ; muscovite
 Symbols: ⊙ ; abundant, ○ ; common, ◦ ; rare, • ; trace

Appendix 4. Megascopic observation of panning samples

(1)

No.	Sample No.	Locality	Description	Amount		Minerals								
				Raw material (kg)	Heavy mineral (g)	cs	sh	gt	il	mag	zr	radio		
1	AO-1	Huai Sa Ngin (X2, Y10)	Pegmatite	30	8	•		⊙				○	○	•
2	AO-2	Huai Sa Ngin (X2, Y9.5)	Pegmatite	30	<1			•					○	•
3	AO-3	Huai Sa Ngin (X2, Y11)	Pegmatite	100	<1	○	•	○						•
4	AO-4	Huai Sa Ngin (X3, Y12)	Pegmatite	30	<1							○	○	•
5	AO-5	Huai Sa Ngin (X3, Y10.5)	Pegmatite	100	6	○		⊙					○	○
6	AO-6	Huai Sa Ngin (X3, Y10)	Pegmatite	100	2	•		○					○	•
7	AO-7	Huai Sa Ngin (X2, Y10.5)	Stream sediment	30	2	○		○					⊙	•
8	AO-8	Huai Sa Ngin (X3, Y10.5)	Stream sediment	30	<1	○		○					○	•
9	AO-9	Huai Sa Ngin (X3, Y10.5)	Stream sediment	30	<1			○					○	•
10	AO-10	Huai Sa Ngin (X3, Y11)	Stream sediment	30	<1	○		○					○	○
11	AO-11	Huai Sa Ngin (X3, Y11.5)	Stream sediment	10	<1	○		○					⊙	•
12	AO-12	Huai Sa Ngin (X10, Y14)	Pegmatite	100	10	•?		⊙					•	⊙
13	AO-13	Huai Sa Ngin (X11, Y14)	Pegmatite	100	5	○		⊙					○	○
14	AO-14	Huai Sa Ngin (X15, Y14.5)	Pegmatite	100	26	•		⊙					○	○
15	AO-15	Huai Sa Ngin (X17, Y15)	Pegmatite	100	<1	○	•?	•?					○	○
16	AO-16	Huai Sa Ngin (X2.0 Y15.5)	Pegmatite	100	6			⊙					○	•
17	AO-17	Huai Sa Ngin (X23, Y16)	Pegmatite	100	6	•?		⊙					○	○
18	AO-18	Huai Sa Ngin (X24, Y16.5)	Pegmatite	100	2	•?		⊙					•	•
19	AO-19	Huai Sa Ngin (X25, Y16)	Pegmatite	100	4			⊙					○	•
20	AO-20	Huai Sa Ngin (X25, Y16)	Pegmatite	50	2	○		⊙					○	•
21	AO-21	Huai Sa Ngin (X27, Y16)	Pegmatite	100	2			○					○	•
22	AO-22	Huai Sa Ngin (X28, Y16.5)	Pegmatite	100	8			○					○	•

(2)

No.	Sample No.	Locality	Description	Amount		Minerals									
				Raw material (kg)	Heavy mineral (g)	cs	sh	gt	il	mag	zr	radio			
23	AO-23	Huai Sa Ngin (X28, Y18)	Pegmatite	10	<1	o	o	o							
24	AO-24	Huai Sa Ngin (X29, Y17.5)	Pegmatite	100	<1			o							
25	AO-25	Huai Sa Ngin (X22, Y17)	Stream sediment	20	<1	o	o	o							
26	AO-26	Huai Sa Ngin (X22, Y15.5)	Stream sediment	10	3	o	o	o							
27	AO-27	Huai Sa Ngin (X23, Y16)	Stream sediment	10	4	o	o	o							
28	AO-28	Huai Sa Ngin (X23, Y16.5)	Stream sediment	60	6	o	o	o							
29	AO-29	Huai Sa Ngin (X28, Y18)	Stream sediment	10	2	o	o	o							
30	AO-30	Huai Sa Ngin (X29, Y18.5)	Stream sediment	30	<1	o	o	o							
31	AO-31	Huai Sa Ngin (X31, Y19)	Stream sediment	100	22	o	o	o							
32	AO-32	Huai Sa Ngin (X36, Y18.5)	Stream sediment	10	<1										
33	AO-33	Huai Sa Ngin (X40, Y17.5)	Stream sediment	10	4	o	o	o							
34	AO-34	Huai Sa Ngin (X40, Y17.5)	Stream sediment	30	<1	o	o	o							
35	AO-35	Huai Sa Ngin (X41, Y19)	Stream sediment	30	<1										
36	AO-36	Huai Sa Ngin (X43, Y14.5)	Stream sediment	30	3	o	o	o							
37	AO-37	Huai Sa Ngin (X44, Y17.5)	Stream sediment	30	3	o	o	o							
38	AO-38	Huai Sa Ngin (X46, Y17.5)	Stream sediment	30	13	o	o	o							
39	AO-39	Huai Sa Ngin (X48, Y17)	Stream sediment	30	<1	o	o	o							
40	AO-40	Huai Sa Ngin (X48, Y17)	Stream sediment	30	6	o	o	o							
41	AO-41	Huai Sa Ngin (X48, Y15)	Stream sediment	30	2	o	o	o							
42	AO-42	Huai Sa Ngin (X50, Y17.5)	Stream sediment	30	<1	o	o	o							
43	AO-43	Branch of Huai U tum (X6, Y5)	Pegmatite	30	10	cs ct	o	o							
44	AO-44	Branch of Huai U tum (X7, Y4.5)	Stream sediment	60	6	o	o	o							
45	AO-45	Branch of Huai U tum (X7, Y2)	Stream sediment	30	8	o	o	o							

(3)

No.	Sample No.	Locality	Description	Amount		Minerals										
				Raw material (g)	Heavy mineral (g)	cs	sh	gt	il	mag	zr	radio				
46	AO-46	Branch of Huai U tum (X9, Y6.5)	Stream sediment	20	8	⊙	•	○								○
47	AO-47	Branch of Huai U tum (X9, Y6.5)	Stream sediment	10	4							•	•	•	•	•?
48	AO-48	Branch of Huai U tum (X9, Y6.5)	Stream sediment	30	14	○	•	○								•
49	AO-49	Branch of Huai U tum (X8, Y6)	Stream sediment	10	8	○	○	○	○?							•?
50	AO-50	Branch of Huai U tum (X8, Y6)	Stream sediment	30	42	○	•	○	○?							○
51	AO-51	Branch of Huai U tum (X8, Y5.5)	Stream sediment	30	4	○		○	○?			•	○			•
52	AO-52	Branch of Huai U tum (X8, Y5)	Stream sediment	30	10	○	○	⊙								○
53	AO-53	Branch of Huai U tum (X8, Y4.5)	Stream sediment	100	58	○	○	○								⊙
54	AO-54	Branch of Huai U tum (X8, Y3)	Stream sediment	30	5	○	○	⊙								○
55	AO-55	Branch of Huai U tum (X8, Y2)	Stream sediment	30	30	○	•	○								○
56	AO-56	Branch of Huai U tum (X8, Y1.5)	Stream sediment	50	6	○	•	○								⊙
57	AO-57	Branch of Huai U tum (X8, Y1.5)	Stream sediment	40	32	⊙	○	○				•	○			⊙
58	AO-58	Branch of Huai U tum (X9, Y1.5)	Stream sediment	20	2	○		○								•
59	AO-59	Branch of Huai U tum (X8, Y0)	Stream sediment	10	4	•										•
60	AO-60	Branch of Huai U tum (X33, Y9)	Pegmatite	20	<1			⊙								○
61	AO-61	Branch of Huai U tum (X22, Y4)	Stream sediment	50	4		○	○	○?							○
62	AO-62	Branch of Huai U tum (X22, Y4.5)	Stream sediment	50	4	○	○	○				⊙				○
63	AO-63	Branch of Huai U tum (X24, Y7)	Stream sediment	30	<1	•?	•	•				○				•
64	AO-64	Branch of Huai U tum (X26, Y8.5)	Stream sediment	50	3	○	○	○								○
65	AO-65	Branch of Huai U tum (X37, Y10.5)	Stream sediment	40	8	○	○	○	○?							○
66	AO-66	Branch of Huai U tum (X37, Y10)	Stream sediment	40	8	○	○	○	○?							○
67	AO-67	Branch of Huai U tum (X44, Y8)	Stream sediment	30	4	○	○	○	○?							•
68	AO-68	Branch of Huai U tum (X44, Y8.5)	Stream sediment	50	<1	•	•	○	○?							

(4)

No.	Sample No.	Locality	Description	Amount		Minerals								
				Raw material (g)	Heavy mineral (g)	cs	sh	gt	il	mag	zr	radio		
69	AO-69	Branch of Huai U tum (X46, Y8.5)	Stream sediment	30	<1	○	○	○	○?					
70	AO-70	Branch of Huai U tum (X47, Y9.5)	Stream sediment	70	4	⊙	○	○	○?					
71	CO-1	Nam Mae Hong (C1-34)	Stream sediment	50	<1	⊙	○	○	•	○	○	○	○	•
72	CO-2	Nam Mae Hong (C5-34)	Stream sediment	50	2		○		•	○	○	○	○	•
73	CO-3	Nam Mae Hong (C7-26)	Stream sediment	30	<1				•?			○		•?
74	CO-4	Nam Mae Hong (C20-9)	Stream sediment	100	10	•	○		○	•				○
75	CO-5	Nam Mae Hong (C21-7)	Stream sediment	100	6	○			○	•		○		
76	CO-6	Nam Mae Hong (C22-6)	Stream sediment	100	3	•			○	•		○		•
77	CO-7	Nam Mae Hong (C26-8)	Stream sediment	100	5	○			○	•				
78	CO-8	Nam Mae Hong (C28-4)	Stream sediment	50	5	○			○	•		○		•
79	CO-9	Nam Mae Hong (C33-4)	Stream sediment	50	10	○			○	•				
80	CO-10	Nam Mae Hong (C36-2)	Stream sediment	50	12	○			○	•		○		○
81	CO-11	Nam Mae Hong (C41-3)	Stream sediment	100	12	⊙			○	•		○		•
82	CO-12	Nam Mae Hong (C44-1)	Stream sediment	50	14	○			○	•		○		•
83	CO-13	Nam Mae Hong (C49-1)	Stream sediment	100	2	○			○	•		○		•
84	CO-14	Branch of Nam Mae Hong (C11-37)	Stream sediment	30	<1				○?	○		○		•
85	CO-15	Branch of Nam Mae Hong (C5-37)	Stream sediment	30	<1	•?			○	•		○		•
86	CO-16	Branch of Nam Mae Hong (C5-33)	Stream sediment	30	<1				○	•		○		•
87	CO-17	Branch of Nam Mae Hong (C9-33)	Stream sediment	30	<1	•			○	•		○		•?
88	CO-18	Branch of Nam Mae Hong (C24-37)	Stream sediment	50	3	○			○	•		○		○
89	CO-19	Branch of Nam Mae Hong (C24-24)	Stream sediment	70	250	○			⊙	•		○		○
90	CO-20	Branch of Nam Mae Hong (C27-14)	Stream sediment	30	6	○			○?	○		○		•
91	CO-21	Branch of Nam Mae Hong (C31-37)	Stream sediment	30	<1				○	•		○		○

(5)

No.	Sample No.	Locality	Description	Amount		Minerals							
				Raw material (ℓ)	Heavy mineral (g)	cs	sh	gt	il	mag	zr	radio	
92	CO-22	Branch of Nam Mae Hong (C31-35)	Stream sediment	30	6				•			○	
93	CO-23	Branch of Nam Mae Hong (C30-28)	Stream sediment	30	2				○?			○	•
94	CO-24	Branch of Nam Mae Hong (C30-28)	Stream sediment	30	6		•?		○			◎	•
95	CO-25	Branch of Nam Mae Hong (C39-33)	Stream sediment	30	<1	•	•		○?			○	○
96	CO-26	Branch of Nam Mae Hong (C40-33)	Stream sediment	30	<1	○	○					○	
97	CO-27	Branch of Nam Mae Hong (C43-9)	Stream sediment	20	225	○	•	wf	○			○	py◎
98	CO-28	Branch of Nam Mae Hong (C49-30)	Stream sediment	10	<1	•?	○		○			•	○
99	CO-29	Branch of Nam Mae Hong (C46-25)	Stream sediment	10	6	○	○		○			•	◎
100	CO-100	Branch of Nam Mae Hong (C1-7)	Stream sediment	50	<1	○	○					○	○
101	CO-101	Branch of Nam Mae Hong (C11-8)	Stream sediment	30	2				○			○	○
102	CO-32	Branch of Nam Mae Hong (C21-13)	Two mica granite	30	<1				○?				•
103	CO-33	Branch of Nam Mae Hong (C26-13)	Two mica granite	50	<1	•?	•?					•	•

Abbreviations: cs ; cassiterite, sh ; scheelite, gt ; garnet, il ; ilmenite, mag ; magnetite, zr ; zircon, mz ; monazite, ct ; columbite-tantalite, py ; pyrite, wf ; wolframite, radio ; radioactivity

Symbols : ◎ abundant, ○ ; common, ○ ; rare • ; trace

Appendix 5 Chemical analyses of geochemical samples (Area A)

***** Chemical analyses of geochemical samples (area A) *****

(1)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
1	X 0 Y 0.0	18	3	33	18	71	X 2 Y 4.0	17	3	40	25
2	X 0 Y 0.5	23	4	35	17	72	X 2 Y 4.5	19	6	34	14
3	X 0 Y 1.0	19	4	32	14	73	X 2 Y 5.0	13	3	21	12
4	X 0 Y 1.5	15	3	29	14	74	X 2 Y 5.5	20	5	42	18
5	X 0 Y 2.0	14	3	26	12	75	X 2 Y 6.0	32	13	43	15
6	X 0 Y 2.5	14	4	30	10	76	X 2 Y 6.5	18	3	23	13
7	X 0 Y 3.0	13	3	32	12	77	X 2 Y 7.0	15	3	31	11
8	X 0 Y 3.5	16	5	44	8	78	X 2 Y 7.5	14	3	25	8
9	X 0 Y 4.0	25	5	29	30	79	X 2 Y 8.0	15	3	28	10
10	X 0 Y 4.5	20	3	28	10	80	X 2 Y 8.5	23	5	27	22
11	X 0 Y 5.0	20	4	42	18	81	X 2 Y 9.0	18	4	36	8
12	X 0 Y 5.5	23	9	24	18	82	X 2 Y 9.5	18	3	29	6
13	X 0 Y 6.0	22	6	37	9	83	X 2 Y 10.0	16	4	45	6
14	X 0 Y 6.5	24	12	35	8	84	X 2 Y 10.5	24	7	43	9
15	X 0 Y 7.0	22	8	31	13	85	X 2 Y 11.0	30	6	27	18
16	X 0 Y 7.5	30	9	49	10	86	X 2 Y 11.5	31	5	28	20
17	X 0 Y 8.0	16	5	32	6	87	X 2 Y 12.0	24	3	24	12
18	X 0 Y 8.5	17	6	46	7	88	X 2 Y 12.5	29	5	19	6
19	X 0 Y 9.0	20	4	38	9	89	X 2 Y 13.0	17	3	20	7
20	X 0 Y 9.5	17	3	23	8	90	X 2 Y 13.5	22	5	28	9
21	X 0 Y 10.0	15	3	33	8	91	X 2 Y 14.0	24	5	32	13
22	X 0 Y 10.5	27	8	55	11	92	X 2 Y 14.5	20	4	26	11
23	X 0 Y 11.0	35	7	38	23	93	X 2 Y 15.0	15	3	20	14
24	X 0 Y 11.5	29	5	34	20	94	X 3 Y 0.0	14	3	35	17
25	X 0 Y 12.0	22	5	39	13	95	X 3 Y 0.5	14	6	35	18
26	X 0 Y 12.5	29	7	51	11	96	X 3 Y 1.0	12	5	34	15
27	X 0 Y 13.0	19	3	30	11	97	X 3 Y 1.5	12	5	40	12
28	X 0 Y 13.5	20	3	29	8	98	X 3 Y 2.0	13	3	46	9
29	X 0 Y 14.0	20	4	28	10	99	X 3 Y 2.5	25	6	50	14
30	X 0 Y 14.5	16	3	21	11	100	X 3 Y 3.0	26	4	27	11
31	X 0 Y 15.0	13	3	27	4	101	X 3 Y 3.5	26	11	52	10
32	X 1 Y 0.0	13	1	28	16	102	X 3 Y 4.0	21	4	24	15
33	X 1 Y 0.5	14	2	26	10	103	X 3 Y 4.5	15	3	26	11
34	X 1 Y 1.0	18	3	34	17	104	X 3 Y 5.0	22	7	39	9
35	X 1 Y 1.5	16	2	37	18	105	X 3 Y 5.5	22	5	47	12
36	X 1 Y 2.0	15	2	28	11	106	X 3 Y 6.0	26	8	38	40
37	X 1 Y 2.5	15	1	39	10	107	X 3 Y 6.5	36	25	52	11
38	X 1 Y 3.0	17	2	30	13	108	X 3 Y 7.0	24	9	35	14
39	X 1 Y 3.5	27	5	34	18	109	X 3 Y 7.5	15	2	36	12
40	X 1 Y 4.0	27	4	43	19	110	X 3 Y 8.0	14	3	29	10
41	X 1 Y 4.5	22	8	35	10	111	X 3 Y 8.5	21	5	34	8
42	X 1 Y 5.0	20	2	31	8	112	X 3 Y 9.0	20	5	23	7
43	X 1 Y 5.5	25	6	41	11	113	X 3 Y 9.5	30	10	78	13
44	X 1 Y 6.0	50	24	71	13	114	X 3 Y 10.0	14	2	33	9
45	X 1 Y 6.5	14	2	27	12	115	X 3 Y 10.5	16	2	32	8
46	X 1 Y 7.0	15	2	22	17	116	X 3 Y 11.0	24	3	34	9
47	X 1 Y 7.5	14	2	24	14	117	X 3 Y 11.5	18	2	29	8
48	X 1 Y 8.0	15	2	23	15	118	X 3 Y 12.0	20	3	29	4
49	X 1 Y 8.5	17	2	24	16	119	X 3 Y 12.5	24	6	42	6
50	X 1 Y 9.0	11	2	35	9	120	X 3 Y 13.0	32	6	25	6
51	X 1 Y 9.5	32	5	31	10	121	X 3 Y 13.5	30	6	24	6
52	X 1 Y 10.0	18	3	29	7	122	X 3 Y 14.0	19	3	32	3
53	X 1 Y 10.5	18	2	31	6	123	X 3 Y 14.5	21	4	28	4
54	X 1 Y 11.0	17	3	24	9	124	X 3 Y 15.0	14	3	16	6
55	X 1 Y 11.5	21	4	35	11	125	X 4 Y 0.0	18	3	25	26
56	X 1 Y 12.0	22	3	34	16	126	X 4 Y 0.5	18	5	23	22
57	X 1 Y 12.5	21	3	35	17	127	X 4 Y 1.0	18	6	31	15
58	X 1 Y 13.0	19	3	30	9	128	X 4 Y 1.5	17	4	32	16
59	X 1 Y 13.5	16	4	23	6	129	X 4 Y 2.0	22	7	38	15
60	X 1 Y 14.0	14	2	22	6	130	X 4 Y 2.5	18	6	29	10
61	X 1 Y 14.5	15	4	24	10	131	X 4 Y 3.0	21	8	26	15
62	X 1 Y 15.0	19	3	25	10	132	X 4 Y 3.5	29	5	27	20
63	X 2 Y 0.0	15	3	25	22	133	X 4 Y 4.0	29	6	28	21
64	X 2 Y 0.5	14	3	37	16	134	X 4 Y 4.5	23	4	24	16
65	X 2 Y 1.0	15	3	42	19	135	X 4 Y 5.0	23	3	35	10
66	X 2 Y 1.5	24	4	34	64	136	X 4 Y 5.5	21	6	25	16
67	X 2 Y 2.0	20	4	35	32	137	X 4 Y 6.0	18	3	24	9
68	X 2 Y 2.5	13	6	38	15	138	X 4 Y 6.5	17	5	30	4
69	X 2 Y 3.0	17	3	31	9	139	X 4 Y 7.0	13	3	21	4
70	X 2 Y 3.5	15	4	31	10	140	X 4 Y 7.5	19	8	26	6

***** Chemical analyses of geochemical samples (area A) *****

(2)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
141	X 4 Y 8.0	23	9	29	7	211	X 6 Y 12.0	16	3	30	10
142	X 4 Y 8.5	18	4	41	8	212	X 6 Y 12.5	21	7	28	9
143	X 4 Y 9.0	19	9	34	6	213	X 6 Y 13.0	22	3	26	9
144	X 4 Y 9.5	22	7	38	8	214	X 6 Y 13.5	23	3	33	13
145	X 4 Y 10.0	19	4	27	12	215	X 6 Y 14.0	20	3	25	9
146	X 4 Y 10.5	17	4	30	7	216	X 6 Y 14.5	23	5	26	8
147	X 4 Y 11.0	24	4	28	22	217	X 6 Y 15.0	22	5	36	10
148	X 4 Y 11.5	37	8	30	17	218	X 7 Y 0.0	15	3	32	9
149	X 4 Y 12.0	28	7	36	16	219	X 7 Y 0.5	28	5	41	25
150	X 4 Y 12.5	22	4	37	20	220	X 7 Y 1.0	23	7	30	18
151	X 4 Y 13.0	20	3	32	10	221	X 7 Y 1.5	33	11	42	17
152	X 4 Y 13.5	20	4	25	15	222	X 7 Y 2.0	20	5	34	15
153	X 4 Y 14.0	22	5	38	14	223	X 7 Y 2.5	21	4	36	15
154	X 4 Y 14.5	23	4	31	10	224	X 7 Y 3.0	20	3	36	10
155	X 4 Y 15.0	23	5	39	12	225	X 7 Y 3.5	25	18	42	17
156	X 5 Y 0.0	19	4	45	17	226	X 7 Y 4.0	25	5	52	31
157	X 5 Y 0.5	15	3	36	12	227	X 7 Y 4.5	26	7	54	14
158	X 5 Y 1.0	41	24	55	21	228	X 7 Y 5.0	27	10	58	12
159	X 5 Y 1.5	24	6	44	15	229	X 7 Y 5.5	31	13	58	15
160	X 5 Y 2.0	19	4	32	11	230	X 7 Y 6.0	21	5	43	13
161	X 5 Y 2.5	22	6	32	15	231	X 7 Y 6.5	22	6	50	11
162	X 5 Y 3.0	24	7	43	13	232	X 7 Y 7.0	25	6	51	8
163	X 5 Y 3.5	19	5	34	19	233	X 7 Y 7.5	16	3	31	7
164	X 5 Y 4.0	20	21	25	20	234	X 7 Y 8.0	23	6	27	17
165	X 5 Y 4.5	23	7	28	21	235	X 7 Y 8.5	22	6	33	10
166	X 5 Y 5.0	28	7	33	27	236	X 7 Y 9.0	23	6	31	11
167	X 5 Y 5.5	17	4	33	10	237	X 7 Y 9.5	18	3	32	10
168	X 5 Y 6.0	22	5	43	10	238	X 7 Y 10.0	25	6	44	12
169	X 5 Y 6.5	23	6	32	9	239	X 7 Y 10.5	28	8	34	12
170	X 5 Y 7.0	32	10	24	15	240	X 7 Y 11.0	20	6	30	8
171	X 5 Y 7.5	42	11	33	35	241	X 7 Y 11.5	18	3	30	11
172	X 5 Y 8.0	32	8	25	20	242	X 7 Y 12.0	20	5	37	7
173	X 5 Y 8.5	25	6	19	15	243	X 7 Y 12.5	16	4	31	12
174	X 5 Y 9.0	34	6	27	27	244	X 7 Y 13.0	21	4	28	13
175	X 5 Y 9.5	14	2	29	15	245	X 7 Y 13.5	24	6	36	9
176	X 5 Y 10.0	19	4	36	9	246	X 7 Y 14.0	25	6	39	13
177	X 5 Y 10.5	22	4	36	13	247	X 7 Y 14.5	22	3	24	9
178	X 5 Y 11.0	17	2	29	14	248	X 7 Y 15.0	16	3	23	7
179	X 5 Y 11.5	17	7	23	10	249	X 8 Y 0.0	18	4	38	21
180	X 5 Y 12.0	19	3	29	19	250	X 8 Y 0.5	23	4	35	18
181	X 5 Y 12.5	19	3	28	12	251	X 8 Y 1.0	29	7	34	29
182	X 5 Y 13.0	25	4	31	14	252	X 8 Y 1.5	21	6	43	25
183	X 5 Y 13.5	22	5	34	8	253	X 8 Y 2.0	24	10	34	22
184	X 5 Y 14.0	21	3	27	9	254	X 8 Y 2.5	30	19	42	15
185	X 5 Y 14.5	20	3	28	9	255	X 8 Y 3.0	21	4	35	23
186	X 5 Y 15.0	27	4	27	9	256	X 8 Y 3.5	25	10	55	22
187	X 6 Y 0.0	23	6	58	58	257	X 8 Y 4.0	30	11	75	22
188	X 6 Y 0.5	21	4	40	30	258	X 8 Y 4.5	30	10	51	15
189	X 6 Y 1.0	24	7	30	23	259	X 8 Y 5.0	62	35	42	32
190	X 6 Y 1.5	18	4	38	17	260	X 8 Y 5.5	22	6	53	39
191	X 6 Y 2.0	21	4	30	24	261	X 8 Y 6.0	24	4	39	24
192	X 6 Y 2.5	26	4	30	38	262	X 8 Y 6.5	40	24	57	17
193	X 6 Y 3.0	16	4	29	20	263	X 8 Y 7.0	26	7	60	15
194	X 6 Y 3.5	19	4	40	19	264	X 8 Y 7.5	29	10	60	11
195	X 6 Y 4.0	28	4	34	41	265	X 8 Y 8.0	42	17	49	22
196	X 6 Y 4.5	24	6	36	40	266	X 8 Y 8.5	39	10	37	69
197	X 6 Y 5.0	31	6	32	50	267	X 8 Y 9.0	41	11	32	41
198	X 6 Y 5.5	37	17	50	12	268	X 8 Y 9.5	19	5	32	10
199	X 6 Y 6.0	25	6	36	9	269	X 8 Y 10.0	22	6	37	11
200	X 6 Y 6.5	48	17	58	8	270	X 8 Y 10.5	39	10	28	12
201	X 6 Y 7.0	46	22	49	8	271	X 8 Y 11.0	30	8	48	12
202	X 6 Y 7.5	42	20	56	7	272	X 8 Y 11.5	25	5	31	8
203	X 6 Y 8.0	30	13	47	9	273	X 8 Y 12.0	25	13	32	9
204	X 6 Y 8.5	25	6	45	9	274	X 8 Y 12.5	23	4	31	9
205	X 6 Y 9.0	23	4	33	11	275	X 8 Y 13.0	21	4	30	9
206	X 6 Y 9.5	37	16	46	16	276	X 8 Y 13.5	19	4	25	10
207	X 6 Y 10.0	46	19	44	10	277	X 8 Y 14.0	18	3	24	7
208	X 6 Y 10.5	21	5	33	10	278	X 8 Y 14.5	23	7	36	6
209	X 6 Y 11.0	17	2	27	8	279	X 8 Y 15.0	24	8	38	13
210	X 6 Y 11.5	17	2	23	8	280	X 9 Y 0.0	17	4	44	24

***** Chemical analyses of geochemical samples (area A) *****

(3)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
281	X 9 Y 0.5	17	6	50	27	351	X 11 Y 4.5	22	7	46	20
282	X 9 Y 1.0	19	5	49	18	352	X 11 Y 5.0	21	7	50	49
283	X 9 Y 1.5	21	4	42	17	353	X 11 Y 5.5	33	18	63	76
284	X 9 Y 2.0	19	13	40	8	354	X 11 Y 6.0	21	9	53	14
285	X 9 Y 2.5	20	7	36	11	355	X 11 Y 6.5	28	15	62	20
286	X 9 Y 3.0	22	8	36	20	356	X 11 Y 7.0	29	16	52	17
287	X 9 Y 3.5	30	7	41	57	357	X 11 Y 7.5	23	6	52	15
288	X 9 Y 4.0	38	17	47	20	358	X 11 Y 8.0	18	5	40	18
289	X 9 Y 4.5	23	5	41	18	359	X 11 Y 8.5	38	20	37	27
290	X 9 Y 5.0	17	6	42	16	360	X 11 Y 9.0	37	13	51	79
291	X 9 Y 5.5	19	6	43	22	361	X 11 Y 9.5	43	11	45	93
292	X 9 Y 6.0	26	10	64	77	362	X 11 Y10.0	72	35	46	78
293	X 9 Y 6.5	27	10	50	26	363	X 11 Y10.5	45	20	40	40
294	X 9 Y 7.0	31	11	66	31	364	X 11 Y11.0	18	4	28	17
295	X 9 Y 7.5	21	5	42	29	365	X 11 Y11.5	20	5	37	17
296	X 9 Y 8.0	31	12	47	42	366	X 11 Y12.0	23	5	46	12
297	X 9 Y 8.5	35	11	46	180	367	X 11 Y12.5	23	5	48	15
298	X 9 Y 9.0	29	14	50	20	368	X 11 Y13.0	17	3	23	12
299	X 9 Y 9.5	20	6	45	16	369	X 11 Y13.5	20	4	34	18
300	X 9 Y 10.0	20	4	34	13	370	X 11 Y14.0	18	3	27	12
301	X 9 Y 10.5	16	4	32	14	371	X 11 Y14.5	21	4	29	11
302	X 9 Y 11.0	20	4	36	11	372	X 11 Y15.0	18	4	25	10
303	X 9 Y 11.5	24	18	36	12	373	X 12 Y 0.0	18	6	29	30
304	X 9 Y 12.0	22	5	30	12	374	X 12 Y 0.5	20	3	23	12
305	X 9 Y 12.5	35	13	40	11	375	X 12 Y 1.0	23	3	39	14
306	X 9 Y 13.0	32	10	47	10	376	X 12 Y 1.5	25	3	30	20
307	X 9 Y 13.5	24	6	49	11	377	X 12 Y 2.0	22	2	29	14
308	X 9 Y 14.0	27	6	40	10	378	X 12 Y 2.5	20	3	36	15
309	X 9 Y 14.5	21	4	32	9	379	X 12 Y 3.0	19	5	38	19
310	X 9 Y 15.0	20	4	31	11	380	X 12 Y 3.5	22	12	48	19
311	X 10 Y 0.0	15	5	28	15	381	X 12 Y 4.0	20	7	43	18
312	X 10 Y 0.5	19	4	41	18	382	X 12 Y 4.5	26	11	71	37
313	X 10 Y 1.0	24	8	54	37	383	X 12 Y 5.0	22	9	65	41
314	X 10 Y 1.5	22	7	49	55	384	X 12 Y 5.5	30	20	64	31
315	X 10 Y 2.0	23	11	62	25	385	X 12 Y 6.0	25	15	60	25
316	X 10 Y 2.5	29	15	50	12	386	X 12 Y 6.5	21	7	45	31
317	X 10 Y 3.0	19	4	43	9	387	X 12 Y 7.0	16	5	47	23
318	X 10 Y 3.5	18	8	36	8	388	X 12 Y 7.5	21	8	52	31
319	X 10 Y 4.0	16	5	32	11	389	X 12 Y 8.0	28	8	69	44
320	X 10 Y 4.5	19	5	36	18	390	X 12 Y 8.5	29	10	76	35
321	X 10 Y 5.0	28	8	58	31	391	X 12 Y 9.0	26	15	56	28
322	X 10 Y 5.5	23	11	50	30	392	X 12 Y 9.5	24	7	57	35
323	X 10 Y 6.0	22	6	58	77	393	X 12 Y10.0	27	13	50	20
324	X 10 Y 6.5	22	14	44	19	394	X 12 Y10.5	18	3	36	13
325	X 10 Y 7.0	23	6	55	17	395	X 12 Y11.0	26	9	41	15
326	X 10 Y 7.5	19	5	48	21	396	X 12 Y11.5	20	5	33	11
327	X 10 Y 8.0	25	11	46	16	397	X 12 Y12.0	20	3	29	10
328	X 10 Y 8.5	24	9	40	13	398	X 12 Y12.5	40	18	22	15
329	X 10 Y 9.0	23	7	45	15	399	X 12 Y13.0	20	6	32	10
330	X 10 Y 9.5	24	11	45	15	400	X 12 Y13.5	19	3	34	20
331	X 10 Y10.0	21	7	35	15	401	X 12 Y14.0	22	5	35	17
332	X 10 Y10.5	25	18	53	14	402	X 12 Y14.5	23	5	35	22
333	X 10 Y11.0	17	4	32	8	403	X 12 Y15.0	21	4	31	29
334	X 10 Y11.5	19	5	33	8	404	X 13 Y 0.0	18	3	28	18
335	X 10 Y12.0	24	5	34	19	405	X 13 Y 0.5	22	4	36	16
336	X 10 Y12.5	21	5	35	8	406	X 13 Y 1.0	23	3	33	13
337	X 10 Y13.0	21	5	37	9	407	X 13 Y 1.5	15	4	30	11
338	X 10 Y13.5	20	7	44	11	408	X 13 Y 2.0	24	5	46	21
339	X 10 Y14.0	21	4	32	18	409	X 13 Y 2.5	25	8	41	14
340	X 10 Y14.5	18	4	28	17	410	X 13 Y 3.0	19	3	36	13
341	X 10 Y15.0	21	5	33	14	411	X 13 Y 3.5	23	26	53	14
342	X 11 Y 0.0	15	6	25	20	412	X 13 Y 4.0	26	19	56	20
343	X 11 Y 0.5	14	2	24	12	413	X 13 Y 4.5	19	12	48	33
344	X 11 Y 1.0	17	4	36	11	414	X 13 Y 5.0	21	8	56	30
345	X 11 Y 1.5	20	5	36	15	415	X 13 Y 5.5	21	6	52	32
346	X 11 Y 2.0	21	7	32	9	416	X 13 Y 6.0	18	9	39	16
347	X 11 Y 2.5	23	5	34	10	417	X 13 Y 6.5	28	16	45	28
348	X 11 Y 3.0	21	6	38	15	418	X 13 Y 7.0	21	9	45	19
349	X 11 Y 3.5	18	6	46	16	419	X 13 Y 7.5	20	6	45	22
350	X 11 Y 4.0	21	11	50	31	420	X 13 Y 8.0	21	6	39	22

***** Chemical analyses of geochemical samples (area A) *****

(4)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
421	X 13 Y 8.5	20	5	44	15	491	X 15 Y12.5	19	5	32	15
422	X 13 Y 9.0	24	10	47	28	492	X 15 Y13.0	17	4	29	20
423	X 13 Y 9.5	24	10	43	22	493	X 15 Y13.5	18	5	29	11
424	X 13 Y10.0	18	6	32	14	494	X 15 Y14.0	25	5	30	17
425	X 13 Y10.5	18	5	25	14	495	X 15 Y14.5	24	7	46	20
426	X 13 Y11.0	16	2	22	11	496	X 15 Y15.0	20	5	27	11
427	X 13 Y11.5	19	4	33	18	497	X 16 Y 0.0	25	7	49	9
428	X 13 Y12.0	24	7	35	21	498	X 16 Y 0.5	28	6	53	9
429	X 13 Y12.5	26	9	44	15	499	X 16 Y 1.0	24	7	48	8
430	X 13 Y13.0	20	6	36	19	500	X 16 Y 1.5	25	6	52	11
431	X 13 Y13.5	17	4	31	16	501	X 16 Y 2.0	20	6	39	15
432	X 13 Y14.0	19	5	34	15	502	X 16 Y 2.5	48	51	44	12
433	X 13 Y14.5	14	3	23	10	503	X 16 Y 3.0	28	5	30	13
434	X 13 Y15.0	19	5	27	14	504	X 16 Y 3.5	19	3	35	11
435	X 14 Y 0.0	14	3	27	13	505	X 16 Y 4.0	19	2	28	18
436	X 14 Y 0.5	15	3	26	9	506	X 16 Y 4.5	26	4	27	15
437	X 14 Y 1.0	24	8	33	12	507	X 16 Y 5.0	26	4	30	14
438	X 14 Y 1.5	25	5	38	14	508	X 16 Y 5.5	21	3	30	11
439	X 14 Y 2.0	34	23	53	13	509	X 16 Y 6.0	20	4	36	25
440	X 14 Y 2.5	21	10	27	11	510	X 16 Y 6.5	22	5	31	45
441	X 14 Y 3.0	20	4	34	14	511	X 16 Y 7.0	18	4	37	17
442	X 14 Y 3.5	20	4	33	15	512	X 16 Y 7.5	18	7	39	23
443	X 14 Y 4.0	20	7	30	13	513	X 16 Y 8.0	23	9	43	31
444	X 14 Y 4.5	19	6	36	13	514	X 16 Y 8.5	18	6	38	17
445	X 14 Y 5.0	18	5	33	14	515	X 16 Y 9.0	15	12	42	12
446	X 14 Y 5.5	15	6	47	17	516	X 16 Y 9.5	18	6	44	16
447	X 14 Y 6.0	27	9	46	77	517	X 16 Y10.0	19	8	36	19
448	X 14 Y 6.5	28	8	41	77	518	X 16 Y10.5	21	11	50	22
449	X 14 Y 7.0	26	8	44	57	519	X 16 Y11.0	25	8	62	23
450	X 14 Y 7.5	18	5	38	38	520	X 16 Y11.5	19	4	43	14
451	X 14 Y 8.0	28	10	36	66	521	X 16 Y12.0	22	6	29	20
452	X 14 Y 8.5	19	6	36	24	522	X 16 Y12.5	17	5	25	8
453	X 14 Y 9.0	21	7	43	20	523	X 16 Y13.0	18	3	27	13
454	X 14 Y 9.5	25	9	44	44	524	X 16 Y13.5	16	5	33	18
455	X 14 Y10.0	24	8	53	49	525	X 16 Y14.0	18	8	34	17
456	X 14 Y10.5	20	11	39	25	526	X 16 Y14.5	17	3	25	17
457	X 14 Y11.0	20	3	25	13	527	X 16 Y15.0	24	6	33	10
458	X 14 Y11.5	19	3	31	15	528	X 17 Y 0.0	21	4	41	13
459	X 14 Y12.0	19	4	28	13	529	X 17 Y 0.5	19	5	43	11
460	X 14 Y12.5	22	7	27	16	530	X 17 Y 1.0	21	4	33	8
461	X 14 Y13.0	22	4	32	16	531	X 17 Y 1.5	23	4	30	11
462	X 14 Y13.5	20	5	40	19	532	X 17 Y 2.0	21	2	23	8
463	X 14 Y14.0	21	6	42	18	533	X 17 Y 2.5	20	3	20	11
464	X 14 Y14.5	21	5	31	12	534	X 17 Y 3.0	21	3	24	14
465	X 14 Y15.0	19	4	30	10	535	X 17 Y 3.5	18	2	20	10
466	X 15 Y 0.0	24	5	45	11	536	X 17 Y 4.0	21	4	30	26
467	X 15 Y 0.5	23	5	52	9	537	X 17 Y 4.5	21	5	20	17
468	X 15 Y 1.0	23	4	34	25	538	X 17 Y 5.0	22	4	31	16
469	X 15 Y 1.5	31	15	35	13	539	X 17 Y 5.5	25	7	24	23
470	X 15 Y 2.0	22	4	23	13	540	X 17 Y 6.0	27	5	47	18
471	X 15 Y 2.5	14	3	38	10	541	X 17 Y 6.5	19	6	50	25
472	X 15 Y 3.0	32	11	30	16	542	X 17 Y 7.0	18	6	41	20
473	X 15 Y 3.5	21	5	26	10	543	X 17 Y 7.5	20	6	42	33
474	X 15 Y 4.0	25	5	27	17	544	X 17 Y 8.0	20	4	38	30
475	X 15 Y 4.5	19	3	37	13	545	X 17 Y 8.5	18	5	40	29
476	X 15 Y 5.0	22	4	33	13	546	X 17 Y 9.0	13	4	32	12
477	X 15 Y 5.5	17	3	33	20	547	X 17 Y 9.5	16	3	38	15
478	X 15 Y 6.0	23	6	37	72	548	X 17 Y10.0	17	4	39	11
479	X 15 Y 6.5	18	5	51	11	549	X 17 Y10.5	22	5	34	16
480	X 15 Y 7.0	16	4	42	17	550	X 17 Y11.0	24	7	46	14
481	X 15 Y 7.5	19	8	48	12	551	X 17 Y11.5	28	12	43	14
482	X 15 Y 8.0	26	9	75	19	552	X 17 Y12.0	19	5	28	22
483	X 15 Y 8.5	17	6	43	10	553	X 17 Y12.5	25	7	57	24
484	X 15 Y 9.0	22	11	49	15	554	X 17 Y13.0	27	7	42	29
485	X 15 Y 9.5	25	12	67	63	555	X 17 Y13.5	19	3	30	15
486	X 15 Y10.0	48	35	73	53	556	X 17 Y14.0	19	3	25	9
487	X 15 Y10.5	20	7	42	16	557	X 17 Y14.5	22	4	31	9
488	X 15 Y11.0	15	4	26	14	558	X 17 Y15.0	21	5	34	13
489	X 15 Y11.5	16	4	35	15	559	X 18 Y 0.0	20	4	44	14
490	X 15 Y12.0	15	3	30	18	560	X 18 Y 0.5	24	5	48	14

***** Chemical analyses of geochemical samples (area A) *****

(5)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
561	X 18 Y 1.0	18	4	34	11	631	X 20 Y 5.0	19	3	22	18
562	X 18 Y 1.5	23	3	26	11	632	X 20 Y 5.5	24	3	24	17
563	X 18 Y 2.0	19	4	20	9	633	X 20 Y 6.0	18	6	24	7
564	X 18 Y 2.5	20	8	23	11	634	X 20 Y 6.5	20	6	21	9
565	X 18 Y 3.0	19	3	24	12	635	X 20 Y 7.0	23	4	24	11
566	X 18 Y 3.5	19	2	19	10	636	X 20 Y 7.5	28	5	30	15
567	X 18 Y 4.0	20	3	23	14	637	X 20 Y 8.0	25	8	43	15
568	X 18 Y 4.5	23	3	20	12	638	X 20 Y 8.5	28	7	41	22
569	X 18 Y 5.0	25	3	23	12	639	X 20 Y 9.0	21	5	39	16
570	X 18 Y 5.5	28	4	20	13	640	X 20 Y 9.5	22	5	52	16
571	X 18 Y 6.0	29	4	21	13	641	X 20 Y10.0	21	5	42	12
572	X 18 Y 6.5	29	5	25	22	642	X 20 Y10.5	21	4	40	13
573	X 18 Y 7.0	25	4	29	25	643	X 20 Y11.0	30	7	35	16
574	X 18 Y 7.5	27	5	43	12	644	X 20 Y11.5	28	5	38	20
575	X 18 Y 8.0	13	2	30	11	645	X 20 Y12.0	18	5	35	10
576	X 18 Y 8.5	20	7	29	30	646	X 20 Y12.5	21	5	43	8
577	X 18 Y 9.0	16	4	34	11	647	X 20 Y13.0	24	7	38	8
578	X 18 Y 9.5	16	3	36	10	648	X 20 Y13.5	21	6	44	9
579	X 18 Y10.0	18	5	36	13	649	X 20 Y14.0	23	5	36	17
580	X 18 Y10.5	25	8	45	13	650	X 20 Y14.5	18	5	34	13
581	X 18 Y11.0	25	9	35	13	651	X 20 Y15.0	25	8	41	14
582	X 18 Y11.5	17	4	36	17	652	X 20 Y15.5	20	5	33	11
583	X 18 Y12.0	21	6	35	25	653	X 20 Y16.0	28	6	40	11
584	X 18 Y12.5	20	5	42	11	654	X 20 Y16.5	25	4	32	15
585	X 18 Y13.0	19	5	37	13	655	X 20 Y17.0	23	4	32	12
586	X 18 Y13.5	21	8	47	28	656	X 20 Y17.5	28	6	45	9
587	X 18 Y14.0	19	5	40	17	657	X 20 Y18.0	25	5	42	12
588	X 18 Y14.5	19	5	36	13	658	X 20 Y18.5	23	3	30	7
589	X 18 Y15.0	20	7	38	19	659	X 20 Y19.0	23	5	39	7
590	X 19 Y 0.0	16	5	27	6	660	X 20 Y19.5	15	3	27	8
591	X 19 Y 0.5	27	11	54	11	661	X 20 Y20.0	21	3	33	9
592	X 19 Y 1.0	17	8	29	9	662	X 21 Y 5.0	21	3	20	11
593	X 19 Y 1.5	21	2	24	10	663	X 21 Y 5.5	21	3	23	12
594	X 19 Y 2.0	24	9	21	9	664	X 21 Y 6.0	23	3	26	11
595	X 19 Y 2.5	24	3	20	13	665	X 21 Y 6.5	23	4	25	8
596	X 19 Y 3.0	27	3	21	13	666	X 21 Y 7.0	21	3	29	15
597	X 19 Y 3.5	14	2	19	11	667	X 21 Y 7.5	23	5	34	21
598	X 19 Y 4.0	18	3	22	12	668	X 21 Y 8.0	28	4	37	20
599	X 19 Y 4.5	20	3	21	12	669	X 21 Y 8.5	32	5	39	19
600	X 19 Y 5.0	23	3	19	17	670	X 21 Y 9.0	25	6	39	23
601	X 19 Y 5.5	23	3	25	10	671	X 21 Y 9.5	23	4	42	18
602	X 19 Y 6.0	27	3	20	7	672	X 21 Y10.0	20	5	41	19
603	X 19 Y 6.5	30	4	22	9	673	X 21 Y10.5	20	4	37	19
604	X 19 Y 7.0	26	3	23	15	674	X 21 Y11.0	18	5	35	11
605	X 19 Y 7.5	29	7	37	16	675	X 21 Y11.5	24	5	43	35
606	X 19 Y 8.0	23	5	37	6	676	X 21 Y12.0	17	4	34	9
607	X 19 Y 8.5	21	7	33	15	677	X 21 Y12.5	19	7	38	18
608	X 19 Y 9.0	29	13	54	13	678	X 21 Y13.0	24	6	40	13
609	X 19 Y 9.5	19	6	37	21	679	X 21 Y13.5	26	6	35	15
610	X 19 Y10.0	19	6	45	14	680	X 21 Y14.0	30	11	49	14
611	X 19 Y10.5	21	5	36	20	681	X 21 Y14.5	21	18	22	7
612	X 19 Y11.0	23	10	35	14	682	X 21 Y15.0	21	7	31	14
613	X 19 Y11.5	22	7	36	12	683	X 21 Y15.5	23	8	31	18
614	X 19 Y12.0	17	4	34	7	684	X 21 Y16.0	23	4	39	16
615	X 19 Y12.5	17	4	35	13	685	X 21 Y16.5	30	5	41	14
616	X 19 Y13.0	19	5	37	12	686	X 21 Y17.0	32	6	38	12
617	X 19 Y13.5	16	3	29	8	687	X 21 Y17.5	25	4	41	12
618	X 19 Y14.0	15	4	30	11	688	X 21 Y18.0	23	4	34	10
619	X 19 Y14.5	19	3	32	10	689	X 21 Y18.5	10	2	24	8
620	X 19 Y15.0	13	3	22	6	690	X 21 Y19.0	18	4	31	8
621	X 20 Y 0.0	16	2	32	12	691	X 21 Y19.5	22	4	21	6
622	X 20 Y 0.5	14	2	21	8	692	X 21 Y20.0	21	4	26	6
623	X 20 Y 1.0	25	3	29	8	693	X 22 Y 5.0	19	4	36	35
624	X 20 Y 1.5	20	2	29	9	694	X 22 Y 5.5	21	3	25	15
625	X 20 Y 2.0	23	4	32	11	695	X 22 Y 6.0	20	3	27	14
626	X 20 Y 2.5	28	7	42	13	696	X 22 Y 6.5	18	3	30	10
627	X 20 Y 3.0	18	3	25	10	697	X 22 Y 7.0	21	3	31	13
628	X 20 Y 3.5	20	3	19	13	698	X 22 Y 7.5	26	5	42	24
629	X 20 Y 4.0	17	2	21	6	699	X 22 Y 8.0	21	4	31	14
630	X 20 Y 4.5	20	3	21	14	700	X 22 Y 8.5	21	4	39	38

***** Chemical analyses of geochemical samples (area A) *****

(6)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
701	X 22 Y 9.0	23	5	45	36	771	X 24 Y13.0	26	8	47	19
702	X 22 Y 9.5	28	4	39	26	772	X 24 Y13.5	27	5	46	19
703	X 22 Y10.0	16	3	39	15	773	X 24 Y14.0	18	3	20	12
704	X 22 Y10.5	15	2	31	17	774	X 24 Y14.5	23	5	39	20
705	X 22 Y11.0	20	2	34	14	775	X 24 Y15.0	25	6	40	27
706	X 22 Y11.5	27	4	38	36	776	X 24 Y15.5	32	16	49	36
707	X 22 Y12.0	31	6	48	46	777	X 24 Y16.0	22	3	29	60
708	X 22 Y12.5	24	5	37	18	778	X 24 Y16.5	27	3	30	15
709	X 22 Y13.0	24	5	46	16	779	X 24 Y17.0	22	3	27	12
710	X 22 Y13.5	25	5	41	13	780	X 24 Y17.5	23	4	26	9
711	X 22 Y14.0	21	5	43	21	781	X 24 Y18.0	28	4	27	12
712	X 22 Y14.5	22	4	40	20	782	X 24 Y18.5	23	3	27	10
713	X 22 Y15.0	30	5	36	14	783	X 24 Y19.0	28	4	21	10
714	X 22 Y15.5	25	5	36	21	784	X 24 Y19.5	25	5	23	8
715	X 22 Y16.0	26	5	30	11	785	X 24 Y20.0	25	3	22	7
716	X 22 Y16.5	27	5	28	8	786	X 25 Y 5.0	16	3	23	23
717	X 22 Y17.0	30	5	34	12	787	X 25 Y 5.5	19	3	34	22
718	X 22 Y17.5	31	5	29	11	788	X 25 Y 6.0	20	4	45	95
719	X 22 Y18.0	31	8	39	14	789	X 25 Y 6.5	18	3	36	16
720	X 22 Y18.5	27	8	38	13	790	X 25 Y 7.0	24	7	30	17
721	X 22 Y19.0	30	4	39	15	791	X 25 Y 7.5	21	2	27	16
722	X 22 Y19.5	21	6	59	13	792	X 25 Y 8.0	19	5	31	11
723	X 22 Y20.0	23	4	42	21	793	X 25 Y 8.5	27	5	44	21
724	X 23 Y 5.0	16	2	24	12	794	X 25 Y 9.0	23	6	29	17
725	X 23 Y 5.5	21	3	24	11	795	X 25 Y 9.5	24	3	31	30
726	X 23 Y 6.0	19	3	23	11	796	X 25 Y10.0	19	5	33	40
727	X 23 Y 6.5	20	4	30	21	797	X 25 Y10.5	21	4	31	38
728	X 23 Y 7.0	25	6	49	24	798	X 25 Y11.0	21	4	31	23
729	X 23 Y 7.5	26	4	21	13	799	X 25 Y11.5	18	4	27	19
730	X 23 Y 8.0	25	6	51	34	800	X 25 Y12.0	30	6	38	21
731	X 23 Y 8.5	17	2	32	19	801	X 25 Y12.5	21	4	40	19
732	X 23 Y 9.0	25	3	38	67	802	X 25 Y13.0	25	5	31	26
733	X 23 Y 9.5	22	5	28	17	803	X 25 Y13.5	38	11	41	24
734	X 23 Y10.0	20	6	35	16	804	X 25 Y14.0	39	15	45	18
735	X 23 Y10.5	23	11	52	8	805	X 25 Y14.5	29	6	33	18
736	X 23 Y11.0	15	4	46	51	806	X 25 Y15.0	34	18	46	20
737	X 23 Y11.5	19	4	37	23	807	X 25 Y15.5	25	6	27	17
738	X 23 Y12.0	23	6	37	22	808	X 25 Y16.0	26	5	23	15
739	X 23 Y12.5	29	6	44	8	809	X 25 Y16.5	28	5	27	12
740	X 23 Y13.0	25	5	49	24	810	X 25 Y17.0	32	6	26	9
741	X 23 Y13.5	25	12	44	25	811	X 25 Y17.5	25	4	26	11
742	X 23 Y14.0	38	14	42	19	812	X 25 Y18.0	25	4	32	13
743	X 23 Y14.5	30	7	47	22	813	X 25 Y18.5	27	4	29	21
744	X 23 Y15.0	26	8	42	21	814	X 25 Y19.0	27	4	39	23
745	X 23 Y15.5	22	6	37	22	815	X 25 Y19.5	28	3	25	8
746	X 23 Y16.0	24	9	27	13	816	X 25 Y20.0	24	4	20	6
747	X 23 Y16.5	25	7	36	7	817	X 26 Y 5.0	21	6	42	18
748	X 23 Y17.0	20	5	31	8	818	X 26 Y 5.5	26	13	37	18
749	X 23 Y17.5	22	4	23	12	819	X 26 Y 6.0	20	3	32	19
750	X 23 Y18.0	27	6	29	11	820	X 26 Y 6.5	23	3	26	28
751	X 23 Y18.5	27	5	30	12	821	X 26 Y 7.0	25	5	47	35
752	X 23 Y19.0	24	4	37	11	822	X 26 Y 7.5	17	3	38	13
753	X 23 Y19.5	26	7	74	12	823	X 26 Y 8.0	20	3	39	16
754	X 23 Y20.0	19	5	65	10	824	X 26 Y 8.5	20	4	38	20
755	X 24 Y 5.0	15	4	33	20	825	X 26 Y 9.0	29	5	33	16
756	X 24 Y 5.5	19	3	30	19	826	X 26 Y 9.5	27	4	33	36
757	X 24 Y 6.0	19	3	34	24	827	X 26 Y10.0	27	4	26	17
758	X 24 Y 6.5	16	7	31	12	828	X 26 Y10.5	29	5	32	15
759	X 24 Y 7.0	20	3	33	13	829	X 26 Y11.0	30	4	26	19
760	X 24 Y 7.5	25	3	34	20	830	X 26 Y11.5	26	6	26	27
761	X 24 Y 8.0	21	3	26	20	831	X 26 Y12.0	27	6	31	35
762	X 24 Y 8.5	21	4	29	24	832	X 26 Y12.5	24	5	31	15
763	X 24 Y 9.0	33	6	39	35	833	X 26 Y13.0	30	6	32	14
764	X 24 Y 9.5	20	5	38	33	834	X 26 Y13.5	26	6	36	11
765	X 24 Y10.0	24	6	41	17	835	X 26 Y14.0	30	5	38	19
766	X 24 Y10.5	32	7	35	23	836	X 26 Y14.5	32	6	37	29
767	X 24 Y11.0	23	5	46	18	837	X 26 Y15.0	29	7	37	22
768	X 24 Y11.5	27	5	39	19	838	X 26 Y15.5	19	5	28	16
769	X 24 Y12.0	29	9	45	16	839	X 26 Y16.0	24	5	29	20
770	X 24 Y12.5	20	4	44	18	840	X 26 Y16.5	24	4	28	10

***** Chemical analyses of geochemical samples (area A) *****

(7)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
841	X 26 Y17.0	19	3	25	7	911	X 29 Y 6.5	34	38	60	20
842	X 26 Y17.5	28	5	26	9	912	X 29 Y 6.0	26	8	48	20
843	X 26 Y18.0	25	4	26	12	913	X 29 Y 6.5	25	11	48	15
844	X 26 Y18.5	29	6	37	12	914	X 29 Y 7.0	22	5	32	17
845	X 26 Y19.0	27	5	32	9	915	X 29 Y 7.5	20	4	35	22
846	X 26 Y19.5	24	4	24	12	916	X 29 Y 8.0	31	21	39	28
847	X 26 Y20.0	27	4	28	11	917	X 29 Y 8.5	21	9	35	25
848	X 27 Y 5.0	22	13	40	15	918	X 29 Y 9.0	28	10	44	16
849	X 27 Y 5.5	33	13	57	19	919	X 29 Y 9.5	33	9	49	24
850	X 27 Y 6.0	30	14	55	17	920	X 29 Y10.0	25	8	42	36
851	X 27 Y 6.5	19	3	29	22	921	X 29 Y10.5	26	7	34	18
852	X 27 Y 7.0	23	3	30	17	922	X 29 Y11.0	39	16	38	21
853	X 27 Y 7.5	19	3	26	25	923	X 29 Y11.5	35	9	34	18
854	X 27 Y 8.0	20	3	39	26	924	X 29 Y12.0	27	9	31	33
855	X 27 Y 8.5	20	8	30	13	925	X 29 Y12.5	30	6	29	22
856	X 27 Y 9.0	22	7	42	19	926	X 29 Y13.0	27	7	32	18
857	X 27 Y 9.5	19	4	44	45	927	X 29 Y13.5	22	4	29	17
858	X 27 Y10.0	28	5	28	28	928	X 29 Y14.0	28	5	28	16
859	X 27 Y10.5	24	3	24	25	929	X 29 Y14.5	33	12	35	42
860	X 27 Y11.0	17	5	34	20	930	X 29 Y15.0	42	17	43	30
861	X 27 Y11.5	21	4	26	13	931	X 29 Y15.5	28	11	38	17
862	X 27 Y12.0	27	5	28	15	932	X 29 Y16.0	25	5	31	14
863	X 27 Y12.5	25	5	28	22	933	X 29 Y16.5	27	8	34	12
864	X 27 Y13.0	29	5	33	35	934	X 29 Y17.0	25	8	30	10
865	X 27 Y13.5	26	5	32	21	935	X 29 Y17.5	27	5	29	11
866	X 27 Y14.0	21	4	26	24	936	X 29 Y18.0	25	5	28	12
867	X 27 Y14.5	21	5	27	23	937	X 29 Y18.5	30	7	26	15
868	X 27 Y15.0	22	5	31	23	938	X 29 Y19.0	25	5	25	14
869	X 27 Y15.5	27	5	34	22	939	X 29 Y19.5	25	4	31	13
870	X 27 Y16.0	29	7	63	25	940	X 29 Y20.0	29	6	36	18
871	X 27 Y16.5	24	5	23	11	941	X 30 Y 5.0	15	3	30	7
872	X 27 Y17.0	24	4	23	12	942	X 30 Y 5.5	26	7	32	12
873	X 27 Y17.5	32	5	24	14	943	X 30 Y 6.0	18	2	25	10
874	X 27 Y18.0	27	5	27	12	944	X 30 Y 6.5	25	9	47	16
875	X 27 Y18.5	37	9	34	12	945	X 30 Y 7.0	24	6	39	13
876	X 27 Y19.0	26	7	25	12	946	X 30 Y 7.5	25	5	36	16
877	X 27 Y19.5	32	6	27	10	947	X 30 Y 8.0	29	8	41	18
878	X 27 Y20.0	28	5	28	13	948	X 30 Y 8.5	19	4	32	16
879	X 28 Y 5.0	17	3	30	19	949	X 30 Y 9.0	23	5	32	15
880	X 28 Y 5.5	32	23	54	25	950	X 30 Y 9.5	19	4	29	17
881	X 28 Y 6.0	21	4	34	22	951	X 30 Y10.0	23	6	29	12
882	X 28 Y 6.5	20	5	33	22	952	X 30 Y10.5	27	7	30	23
883	X 28 Y 7.0	18	4	32	16	953	X 30 Y11.0	30	6	36	44
884	X 28 Y 7.5	12	4	24	17	954	X 30 Y11.5	29	5	37	38
885	X 28 Y 8.0	23	5	29	30	955	X 30 Y12.0	27	11	37	49
886	X 28 Y 8.5	23	10	44	24	956	X 30 Y12.5	32	18	39	23
887	X 28 Y 9.0	18	6	42	17	957	X 30 Y13.0	23	16	33	22
888	X 28 Y 9.5	26	8	49	64	958	X 30 Y13.5	26	8	36	18
889	X 28 Y10.0	17	5	31	29	959	X 30 Y14.0	26	9	32	24
890	X 28 Y10.5	18	8	44	28	960	X 30 Y14.5	23	3	33	21
891	X 28 Y11.0	27	7	31	26	961	X 30 Y15.0	34	6	36	25
892	X 28 Y11.5	24	6	32	26	962	X 30 Y15.5	37	16	40	20
893	X 28 Y12.0	25	4	26	30	963	X 30 Y16.0	31	9	56	33
894	X 28 Y12.5	24	5	26	33	964	X 30 Y16.5	30	16	50	24
895	X 28 Y13.0	28	7	35	44	965	X 30 Y17.0	27	4	30	15
896	X 28 Y13.5	24	5	30	28	966	X 30 Y17.5	28	4	24	11
897	X 28 Y14.0	25	5	27	20	967	X 30 Y18.0	20	3	18	11
898	X 28 Y14.5	28	5	32	18	968	X 30 Y18.5	41	23	52	18
899	X 28 Y15.0	29	11	35	18	969	X 30 Y19.0	28	4	26	11
900	X 28 Y15.5	27	7	35	17	970	X 30 Y19.5	28	4	25	15
901	X 28 Y16.0	29	11	37	13	971	X 30 Y20.0	23	4	33	9
902	X 28 Y16.5	26	5	45	14	972	X 31 Y 5.0	24	4	37	17
903	X 28 Y17.0	19	3	24	9	973	X 31 Y 5.5	28	4	31	14
904	X 28 Y17.5	24	4	20	13	974	X 31 Y 6.0	15	2	20	16
905	X 28 Y18.0	36	7	29	15	975	X 31 Y 6.5	27	4	35	9
906	X 28 Y18.5	34	5	23	16	976	X 31 Y 7.0	24	4	34	16
907	X 28 Y19.0	28	5	31	16	977	X 31 Y 7.5	27	5	35	12
908	X 28 Y19.5	34	8	39	13	978	X 31 Y 8.0	28	6	40	12
909	X 28 Y20.0	30	4	27	11	979	X 31 Y 8.5	23	5	36	9
910	X 29 Y 5.0	18	5	28	16	980	X 31 Y 9.0	20	5	32	14

***** Chemical analyses of geochemical samples (area A) *****

(8)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
981	X 31 Y 9.5	23	10	33	11	1051	X 33 Y13.5	28	10	32	14
982	X 31 Y10.0	21	6	34	8	1052	X 33 Y14.0	29	6	31	17
983	X 31 Y10.5	39	29	43	13	1053	X 33 Y14.5	40	9	37	18
984	X 31 Y11.0	30	5	26	15	1054	X 33 Y15.0	29	6	31	14
985	X 31 Y11.5	32	37	64	20	1055	X 33 Y15.5	36	13	32	15
986	X 31 Y12.0	31	8	31	23	1056	X 33 Y16.0	34	11	34	15
987	X 31 Y12.5	29	10	33	25	1057	X 33 Y16.5	52	20	33	19
988	X 31 Y13.0	24	5	25	15	1058	X 33 Y17.0	37	10	36	19
989	X 31 Y13.5	23	9	27	22	1059	X 33 Y17.5	30	7	33	16
990	X 31 Y14.0	29	6	30	23	1060	X 33 Y18.0	16	3	23	6
991	X 31 Y14.5	31	7	34	26	1061	X 33 Y18.5	16	3	22	6
992	X 31 Y15.0	34	10	39	32	1062	X 33 Y19.0	21	3	25	5
993	X 31 Y15.5	40	15	59	29	1063	X 33 Y19.5	23	3	22	6
994	X 31 Y16.0	47	37	49	25	1064	X 33 Y20.0	22	4	27	7
995	X 31 Y16.5	43	15	56	23	1065	X 34 Y 5.0	32	5	39	18
996	X 31 Y17.0	25	4	27	18	1066	X 34 Y 5.5	34	23	130	24
997	X 31 Y17.5	33	17	32	15	1067	X 34 Y 6.0	18	2	33	11
998	X 31 Y18.0	20	4	27	9	1068	X 34 Y 6.5	20	14	31	14
999	X 31 Y18.5	21	3	20	11	1069	X 34 Y 7.0	17	2	30	12
1000	X 31 Y19.0	21	4	27	15	1070	X 34 Y 7.5	21	6	39	16
1001	X 31 Y19.5	31	4	21	9	1071	X 34 Y 8.0	24	3	35	15
1002	X 31 Y20.0	23	4	28	11	1072	X 34 Y 8.5	21	3	32	20
1003	X 32 Y 5.0	17	7	40	14	1073	X 34 Y 9.0	25	4	32	31
1004	X 32 Y 5.5	20	3	39	23	1074	X 34 Y 9.5	24	4	38	23
1005	X 32 Y 6.0	17	2	32	11	1075	X 34 Y10.0	28	5	37	9
1006	X 32 Y 6.5	18	4	38	14	1076	X 34 Y10.5	25	4	29	17
1007	X 32 Y 7.0	19	3	29	14	1077	X 34 Y11.0	18	3	25	14
1008	X 32 Y 7.5	18	3	32	17	1078	X 34 Y11.5	26	4	33	26
1009	X 32 Y 8.0	21	6	45	13	1079	X 34 Y12.0	38	12	54	25
1010	X 32 Y 8.5	26	9	43	16	1080	X 34 Y12.5	31	7	30	20
1011	X 32 Y 9.0	26	13	37	15	1081	X 34 Y13.0	28	5	27	26
1012	X 32 Y 9.5	25	14	51	13	1082	X 34 Y13.5	35	7	31	14
1013	X 32 Y10.0	24	5	25	21	1083	X 34 Y14.0	32	5	31	16
1014	X 32 Y10.5	28	4	28	49	1084	X 34 Y14.5	23	5	23	14
1015	X 32 Y11.0	23	6	30	11	1085	X 34 Y15.0	26	6	29	10
1016	X 32 Y11.5	28	10	35	13	1086	X 34 Y15.5	29	6	30	11
1017	X 32 Y12.0	21	4	31	12	1087	X 34 Y16.0	28	7	29	9
1018	X 32 Y12.5	28	5	27	13	1088	X 34 Y16.5	35	6	41	12
1019	X 32 Y13.0	27	6	32	19	1089	X 34 Y17.0	25	6	36	10
1020	X 32 Y13.5	29	11	28	15	1090	X 34 Y17.5	27	9	28	12
1021	X 32 Y14.0	29	28	33	20	1091	X 34 Y18.0	34	12	43	15
1022	X 32 Y14.5	27	6	34	21	1092	X 34 Y18.5	22	6	29	12
1023	X 32 Y15.0	28	7	34	17	1093	X 34 Y19.0	22	4	29	6
1024	X 32 Y15.5	28	9	33	17	1094	X 34 Y19.5	23	4	31	4
1025	X 32 Y16.0	34	5	30	15	1095	X 34 Y20.0	24	7	29	6
1026	X 32 Y16.5	27	5	26	10	1096	X 35 Y 5.0	19	3	31	20
1027	X 32 Y17.0	27	5	32	18	1097	X 35 Y 5.5	16	3	36	20
1028	X 32 Y17.5	22	7	26	15	1098	X 35 Y 6.0	17	3	34	23
1029	X 32 Y18.0	28	7	30	12	1099	X 35 Y 6.5	16	3	34	22
1030	X 32 Y18.5	17	4	26	6	1100	X 35 Y 7.0	17	2	28	18
1031	X 32 Y19.0	17	3	19	5	1101	X 35 Y 7.5	20	3	38	16
1032	X 32 Y19.5	31	7	34	8	1102	X 35 Y 8.0	18	3	34	12
1033	X 32 Y20.0	31	8	41	16	1103	X 35 Y 8.5	19	3	35	21
1034	X 33 Y 5.0	24	4	37	27	1104	X 35 Y 9.0	21	2	36	29
1035	X 33 Y 5.5	23	3	37	12	1105	X 35 Y 9.5	29	5	39	17
1036	X 33 Y 6.0	23	3	43	11	1106	X 35 Y10.0	21	2	44	19
1037	X 33 Y 6.5	21	4	37	7	1107	X 35 Y10.5	18	5	30	12
1038	X 33 Y 7.0	22	7	42	7	1108	X 35 Y11.0	21	8	45	12
1039	X 33 Y 7.5	21	3	31	13	1109	X 35 Y11.5	23	12	43	11
1040	X 33 Y 8.0	25	9	39	12	1110	X 35 Y12.0	19	6	37	9
1041	X 33 Y 8.5	22	5	36	8	1111	X 35 Y12.5	24	7	32	20
1042	X 33 Y 9.0	26	9	35	18	1112	X 35 Y13.0	29	9	36	27
1043	X 33 Y 9.5	24	12	37	10	1113	X 35 Y13.5	40	23	46	18
1044	X 33 Y10.0	28	20	38	7	1114	X 35 Y14.0	31	8	36	15
1045	X 33 Y10.5	16	3	39	16	1115	X 35 Y14.5	34	11	41	11
1046	X 33 Y11.0	26	7	35	14	1116	X 35 Y15.0	40	17	35	16
1047	X 33 Y11.5	26	4	32	13	1117	X 35 Y15.5	34	7	39	14
1048	X 33 Y12.0	24	4	25	13	1118	X 35 Y16.0	33	8	35	14
1049	X 33 Y12.5	24	9	29	15	1119	X 35 Y16.5	19	3	25	7
1050	X 33 Y13.0	25	4	23	6	1120	X 35 Y17.0	33	9	31	15

***** Chemical analyses of geochemical samples (area A) *****

(9)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
1121	X 35 Y17.5	28	8	31	13	1191	X 38 Y 6.0	22	4	37	25
1122	X 35 Y18.0	17	5	22	8	1192	X 38 Y 6.5	20	3	37	20
1123	X 35 Y18.5	30	15	53	7	1193	X 38 Y 7.0	23	4	43	37
1124	X 35 Y19.0	25	9	29	6	1194	X 38 Y 7.5	18	3	48	31
1125	X 35 Y19.5	22	5	35	6	1195	X 38 Y 8.0	14	2	55	46
1126	X 35 Y20.0	21	4	25	7	1196	X 38 Y 8.5	16	3	37	41
1127	X 36 Y 5.0	19	2	35	28	1197	X 38 Y 9.0	17	4	33	24
1128	X 36 Y 5.5	16	2	27	21	1198	X 38 Y 9.5	16	3	38	27
1129	X 36 Y 6.0	18	2	33	46	1199	X 38 Y10.0	17	3	43	33
1130	X 36 Y 6.5	14	2	44	36	1200	X 38 Y10.5	17	3	56	52
1131	X 36 Y 7.0	16	3	31	27	1201	X 38 Y11.0	16	3	37	37
1132	X 36 Y 7.5	14	2	46	32	1202	X 38 Y11.5	16	3	41	30
1133	X 36 Y 8.0	13	2	36	4	1203	X 38 Y12.0	21	4	43	22
1134	X 36 Y 8.5	19	8	34	52	1204	X 38 Y12.5	21	4	48	59
1135	X 36 Y 9.0	16	2	28	46	1205	X 38 Y13.0	18	3	36	48
1136	X 36 Y 9.5	19	4	57	40	1206	X 38 Y13.5	11	4	29	26
1137	X 36 Y10.0	20	3	44	38	1207	X 38 Y14.0	12	6	29	23
1138	X 36 Y10.5	17	4	31	9	1208	X 38 Y14.5	18	3	43	30
1139	X 36 Y11.0	19	6	28	8	1209	X 38 Y15.0	17	3	38	15
1140	X 36 Y11.5	18	5	32	13	1210	X 38 Y15.5	29	12	56	29
1141	X 36 Y12.0	18	3	26	16	1211	X 38 Y16.0	16	3	58	70
1142	X 36 Y12.5	21	5	33	19	1212	X 38 Y16.5	16	3	48	27
1143	X 36 Y13.0	27	8	33	43	1213	X 38 Y17.0	18	5	54	24
1144	X 36 Y13.5	16	4	34	9	1214	X 38 Y17.5	14	3	30	27
1145	X 36 Y14.0	15	3	25	14	1215	X 38 Y18.0	46	13	42	14
1146	X 36 Y14.5	11	3	26	9	1216	X 38 Y18.5	16	4	43	10
1147	X 36 Y15.0	28	9	40	13	1217	X 38 Y19.0	22	7	45	13
1148	X 36 Y15.5	23	7	36	11	1218	X 38 Y19.5	19	4	38	11
1149	X 36 Y16.0	17	2	30	18	1219	X 38 Y20.0	21	4	31	10
1150	X 36 Y16.5	22	4	40	8	1220	X 39 Y 5.0	15	3	32	14
1151	X 36 Y17.0	32	7	34	11	1221	X 39 Y 5.5	17	3	30	9
1152	X 36 Y17.5	23	5	31	13	1222	X 39 Y 6.0	12	2	28	13
1153	X 36 Y18.0	19	3	29	12	1223	X 39 Y 6.5	10	2	23	10
1154	X 36 Y18.5	23	3	30	8	1224	X 39 Y 7.0	13	2	28	16
1155	X 36 Y19.0	20	2	25	12	1225	X 39 Y 7.5	15	3	27	12
1156	X 36 Y19.5	24	4	31	8	1226	X 39 Y 8.0	13	3	41	12
1157	X 36 Y20.0	21	3	28	6	1227	X 39 Y 8.5	14	3	48	35
1158	X 37 Y 5.0	16	2	28	25	1228	X 39 Y 9.0	15	2	42	18
1159	X 37 Y 5.5	18	2	31	29	1229	X 39 Y 9.5	27	5	64	32
1160	X 37 Y 6.0	17	2	39	55	1230	X 39 Y10.0	18	5	52	38
1161	X 37 Y 6.5	17	2	35	24	1231	X 39 Y10.5	19	3	40	34
1162	X 37 Y 7.0	17	2	44	38	1232	X 39 Y11.0	16	3	31	36
1163	X 37 Y 7.5	17	3	54	43	1233	X 39 Y11.5	15	3	39	26
1164	X 37 Y 8.0	23	4	53	55	1234	X 39 Y12.0	17	2	36	38
1165	X 37 Y 8.5	22	3	47	45	1235	X 39 Y12.5	21	3	43	19
1166	X 37 Y 9.0	24	3	74	48	1236	X 39 Y13.0	18	3	43	49
1167	X 37 Y 9.5	14	2	62	28	1237	X 39 Y13.5	19	4	53	50
1168	X 37 Y10.0	18	2	49	23	1238	X 39 Y14.0	10	2	35	68
1169	X 37 Y10.5	22	3	38	56	1239	X 39 Y14.5	11	2	36	28
1170	X 37 Y11.0	23	3	34	37	1240	X 39 Y15.0	15	3	64	85
1171	X 37 Y11.5	18	7	40	34	1241	X 39 Y15.5	21	3	24	11
1172	X 37 Y12.0	18	4	37	20	1242	X 39 Y16.0	19	6	33	21
1173	X 37 Y12.5	23	7	48	40	1243	X 39 Y16.5	11	2	33	60
1174	X 37 Y13.0	21	6	34	18	1244	X 39 Y17.0	18	3	31	32
1175	X 37 Y13.5	25	4	48	32	1245	X 39 Y17.5	19	6	34	27
1176	X 37 Y14.0	29	12	37	25	1246	X 39 Y18.0	20	5	36	16
1177	X 37 Y14.5	18	4	35	9	1247	X 39 Y18.5	24	8	39	13
1178	X 37 Y15.0	14	3	21	8	1248	X 39 Y19.0	20	4	43	15
1179	X 37 Y15.5	14	3	19	20	1249	X 39 Y19.5	28	5	39	21
1180	X 37 Y16.0	20	3	20	16	1250	X 39 Y20.0	44	30	40	17
1181	X 37 Y16.5	16	4	22	20	1251	X 40 Y 5.0	13	2	28	15
1182	X 37 Y17.0	17	3	24	12	1252	X 40 Y 5.5	28	13	47	16
1183	X 37 Y17.5	17	3	24	13	1253	X 40 Y 6.0	18	3	28	15
1184	X 37 Y18.0	17	3	32	39	1254	X 40 Y 6.5	15	2	42	8
1185	X 37 Y18.5	20	3	26	8	1255	X 40 Y 7.0	14	2	39	12
1186	X 37 Y19.0	20	4	28	13	1256	X 40 Y 7.5	17	2	45	14
1187	X 37 Y19.5	24	5	32	15	1257	X 40 Y 8.0	27	4	48	43
1188	X 37 Y20.0	21	4	27	7	1258	X 40 Y 8.5	17	2	51	14
1189	X 38 Y 5.0	14	3	22	11	1259	X 40 Y 9.0	14	2	55	39
1190	X 38 Y 5.5	14	3	26	20	1260	X 40 Y 9.5	17	3	57	47

***** Chemical analyses of geochemical samples (area A) *****

(10)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
1261	X 40 Y10.0	19	3	48	30	1331	X 42 Y14.0	19	2	40	31
1262	X 40 Y10.5	15	2	31	19	1332	X 42 Y14.5	11	2	31	21
1263	X 40 Y11.0	16	3	37	28	1333	X 42 Y15.0	19	3	54	20
1264	X 40 Y11.5	12	2	29	24	1334	X 42 Y15.5	17	8	60	26
1265	X 40 Y12.0	18	3	45	27	1335	X 42 Y16.0	13	2	38	17
1266	X 40 Y12.5	14	6	39	27	1336	X 42 Y16.5	15	4	38	20
1267	X 40 Y13.0	18	3	48	42	1337	X 42 Y17.0	12	3	46	28
1268	X 40 Y13.5	21	4	41	30	1338	X 42 Y17.5	28	11	48	19
1269	X 40 Y14.0	21	8	54	41	1339	X 42 Y18.0	24	6	40	20
1270	X 40 Y14.5	16	5	37	33	1340	X 42 Y18.5	23	4	39	23
1271	X 40 Y15.0	20	4	49	35	1341	X 42 Y19.0	22	4	33	17
1272	X 40 Y15.5	23	5	61	80	1342	X 42 Y19.5	26	5	41	11
1273	X 40 Y16.0	24	8	51	42	1343	X 42 Y20.0	26	8	46	14
1274	X 40 Y16.5	20	6	47	38	1344	X 43 Y 5.0	21	3	30	12
1275	X 40 Y17.0	24	5	40	48	1345	X 43 Y 5.5	22	3	26	26
1276	X 40 Y17.5	25	4	39	23	1346	X 43 Y 6.0	18	3	30	23
1277	X 40 Y18.0	28	9	37	20	1347	X 43 Y 6.5	17	2	26	22
1278	X 40 Y18.5	41	11	56	29	1348	X 43 Y 7.0	16	3	42	13
1279	X 40 Y19.0	40	19	70	20	1349	X 43 Y 7.5	14	2	36	10
1280	X 40 Y19.5	22	4	32	14	1350	X 43 Y 8.0	16	3	49	18
1281	X 40 Y20.0	24	5	38	14	1351	X 43 Y 8.5	16	3	37	19
1282	X 41 Y 5.0	25	3	26	18	1352	X 43 Y 9.0	20	3	48	26
1283	X 41 Y 5.5	12	2	23	13	1353	X 43 Y 9.5	18	7	46	19
1284	X 41 Y 6.0	15	3	35	12	1354	X 43 Y10.0	13	12	41	27
1285	X 41 Y 6.5	16	2	26	9	1355	X 43 Y10.5	13	4	52	21
1286	X 41 Y 7.0	15	2	37	16	1356	X 43 Y11.0	14	9	52	25
1287	X 41 Y 7.5	15	2	27	13	1357	X 43 Y11.5	12	2	37	17
1288	X 41 Y 8.0	17	3	44	16	1358	X 43 Y12.0	14	3	37	21
1289	X 41 Y 8.5	16	3	38	13	1359	X 43 Y12.5	13	2	25	17
1290	X 41 Y 9.0	16	2	34	26	1360	X 43 Y13.0	21	3	35	17
1291	X 41 Y 9.5	16	2	44	23	1361	X 43 Y13.5	8	1	26	9
1292	X 41 Y10.0	17	3	47	77	1362	X 43 Y14.0	10	2	53	20
1293	X 41 Y10.5	17	2	56	64	1363	X 43 Y14.5	15	4	33	20
1294	X 41 Y11.0	19	3	41	43	1364	X 43 Y15.0	13	4	31	20
1295	X 41 Y11.5	15	2	35	19	1365	X 43 Y15.5	15	3	27	23
1296	X 41 Y12.0	16	2	29	28	1366	X 43 Y16.0	23	21	71	20
1297	X 41 Y12.5	19	2	50	41	1367	X 43 Y16.5	24	16	50	20
1298	X 41 Y13.0	18	3	40	31	1368	X 43 Y17.0	16	8	55	12
1299	X 41 Y13.5	20	3	62	140	1369	X 43 Y17.5	30	6	42	27
1300	X 41 Y14.0	19	2	78	260	1370	X 43 Y18.0	26	10	41	27
1301	X 41 Y14.5	10	2	45	45	1371	X 43 Y18.5	27	5	33	28
1302	X 41 Y15.0	14	2	55	58	1372	X 43 Y19.0	30	8	43	19
1303	X 41 Y15.5	17	2	71	60	1373	X 43 Y19.5	28	8	43	17
1304	X 41 Y16.0	15	2	60	31	1374	X 43 Y20.0	27	7	41	16
1305	X 41 Y16.5	12	2	38	37	1375	X 44 Y 5.0	18	3	27	18
1306	X 41 Y17.0	16	4	46	26	1376	X 44 Y 5.5	13	3	21	11
1307	X 41 Y17.5	21	4	35	14	1377	X 44 Y 6.0	17	3	18	10
1308	X 41 Y18.0	23	7	44	24	1378	X 44 Y 6.5	16	3	22	11
1309	X 41 Y18.5	25	7	45	15	1379	X 44 Y 7.0	18	3	24	15
1310	X 41 Y19.0	18	3	27	13	1380	X 44 Y 7.5	14	3	31	20
1311	X 41 Y19.5	22	4	34	20	1381	X 44 Y 8.0	11	3	24	17
1312	X 41 Y20.0	20	6	29	14	1382	X 44 Y 8.5	14	3	37	13
1313	X 42 Y 5.0	20	3	23	11	1383	X 44 Y 9.0	16	3	28	30
1314	X 42 Y 5.5	10	1	24	12	1384	X 44 Y 9.5	12	2	30	29
1315	X 42 Y 6.0	15	3	23	16	1385	X 44 Y10.0	14	3	29	16
1316	X 42 Y 6.5	12	2	25	13	1386	X 44 Y10.5	16	2	28	20
1317	X 42 Y 7.0	20	4	38	13	1387	X 44 Y11.0	12	3	25	28
1318	X 42 Y 7.5	22	2	42	17	1388	X 44 Y11.5	11	5	30	47
1319	X 42 Y 8.0	16	2	37	12	1389	X 44 Y12.0	17	5	32	44
1320	X 42 Y 8.5	15	3	24	37	1390	X 44 Y12.5	11	3	32	20
1321	X 42 Y 9.0	15	2	31	15	1391	X 44 Y13.0	15	3	62	33
1322	X 42 Y 9.5	15	2	39	18	1392	X 44 Y13.5	19	6	51	85
1323	X 42 Y10.0	15	2	48	16	1393	X 44 Y14.0	12	6	43	20
1324	X 42 Y10.5	14	2	43	20	1394	X 44 Y14.5	23	9	44	19
1325	X 42 Y11.0	18	2	41	27	1395	X 44 Y15.0	24	10	45	19
1326	X 42 Y11.5	18	2	37	17	1396	X 44 Y15.5	24	13	62	22
1327	X 42 Y12.0	16	2	35	17	1397	X 44 Y16.0	25	31	73	22
1328	X 42 Y12.5	16	4	27	16	1398	X 44 Y16.5	30	17	83	28
1329	X 42 Y13.0	15	4	29	17	1399	X 44 Y17.0	26	19	62	28
1330	X 42 Y13.5	16	3	30	26	1400	X 44 Y17.5	39	13	54	35

***** Chemical analyses of geochemical samples (area A) *****

(11)

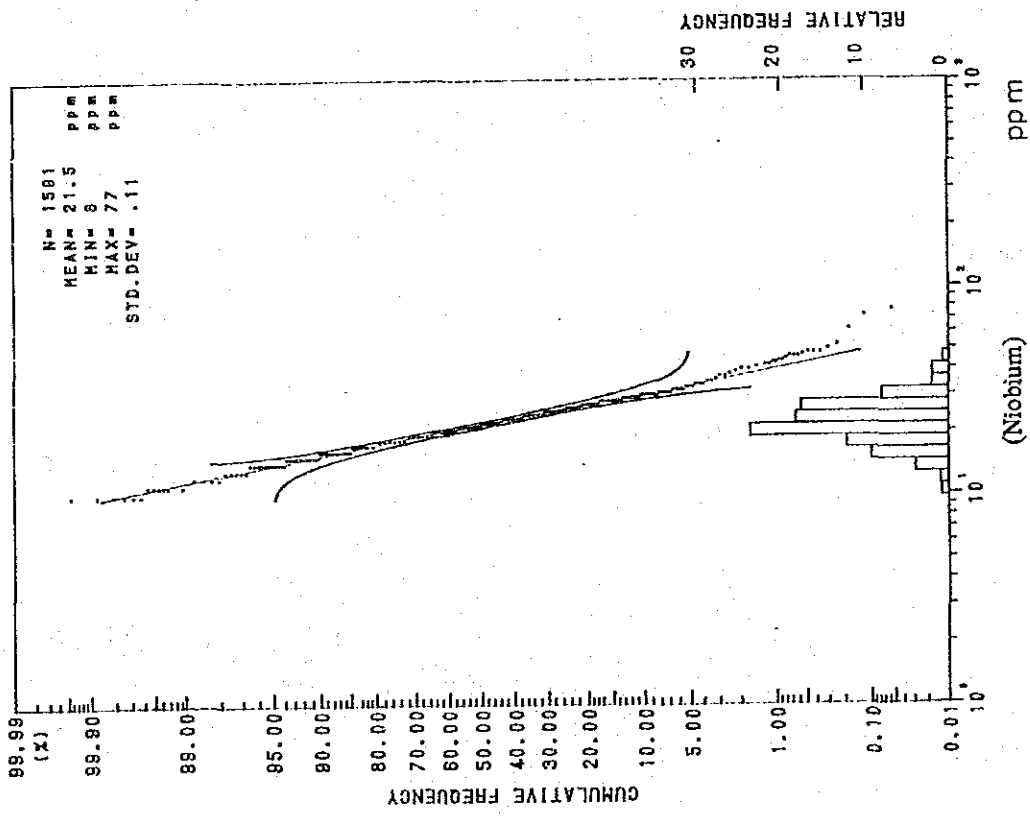
No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
1401	X 44 Y18.0	26	14	53	36	1471	X 47 Y 6.5	22	3	24	12
1402	X 44 Y18.5	21	6	41	21	1472	X 47 Y 7.0	17	3	16	10
1403	X 44 Y19.0	31	8	48	28	1473	X 47 Y 7.5	17	2	21	17
1404	X 44 Y19.5	35	16	56	34	1474	X 47 Y 8.0	17	2	24	17
1405	X 44 Y20.0	31	8	53	29	1475	X 47 Y 8.5	17	4	20	15
1406	X 45 Y 5.0	16	2	25	13	1476	X 47 Y 9.0	25	6	38	16
1407	X 45 Y 5.5	15	2	24	10	1477	X 47 Y 9.5	18	3	29	10
1408	X 45 Y 6.0	14	2	20	12	1478	X 47 Y10.0	18	3	27	10
1409	X 45 Y 6.5	16	2	23	12	1479	X 47 Y10.5	20	3	30	15
1410	X 45 Y 7.0	23	3	29	14	1480	X 47 Y11.0	18	2	49	33
1411	X 45 Y 7.5	24	3	24	20	1481	X 47 Y11.5	20	3	29	9
1412	X 45 Y 8.0	21	3	30	20	1482	X 47 Y12.0	20	3	27	14
1413	X 45 Y 8.5	20	3	29	9	1483	X 47 Y12.5	15	3	36	14
1414	X 45 Y 9.0	19	8	32	13	1484	X 47 Y13.0	25	3	42	16
1415	X 45 Y 9.5	17	8	38	17	1485	X 47 Y13.5	23	4	33	22
1416	X 45 Y10.0	12	6	34	16	1486	X 47 Y14.0	27	5	34	24
1417	X 45 Y10.5	16	6	35	38	1487	X 47 Y14.5	21	3	31	12
1418	X 45 Y11.0	12	5	39	21	1488	X 47 Y15.0	21	3	52	28
1419	X 45 Y11.5	16	11	48	21	1489	X 47 Y15.5	24	5	38	13
1420	X 45 Y12.0	22	4	36	23	1490	X 47 Y16.0	31	11	41	18
1421	X 45 Y12.5	22	4	39	29	1491	X 47 Y16.5	27	5	58	26
1422	X 45 Y13.0	23	10	53	29	1492	X 47 Y17.0	22	4	53	28
1423	X 45 Y13.5	18	20	38	17	1493	X 47 Y17.5	30	13	49	25
1424	X 45 Y14.0	21	4	39	22	1494	X 47 Y18.0	26	8	49	14
1425	X 45 Y14.5	20	3	45	27	1495	X 47 Y18.5	30	12	50	12
1426	X 45 Y15.0	14	6	37	21	1496	X 47 Y19.0	27	5	41	13
1427	X 45 Y15.5	17	2	26	17	1497	X 47 Y19.5	23	5	37	20
1428	X 45 Y16.0	19	3	30	14	1498	X 47 Y20.0	28	5	54	31
1429	X 45 Y16.5	19	3	33	16	1499	X 48 Y 5.0	19	3	33	16
1430	X 45 Y17.0	16	2	35	47	1500	X 48 Y 5.5	20	3	29	13
1431	X 45 Y17.5	31	9	46	22	1501	X 48 Y 6.0	22	4	31	14
1432	X 45 Y18.0	27	7	41	17	1502	X 48 Y 6.5	19	3	24	11
1433	X 45 Y18.5	26	4	39	25	1503	X 48 Y 7.0	15	3	27	8
1434	X 45 Y19.0	77	32	76	46	1504	X 48 Y 7.5	20	3	24	11
1435	X 45 Y19.5	21	3	46	23	1505	X 48 Y 8.0	33	5	30	15
1436	X 45 Y20.0	26	5	61	28	1506	X 48 Y 8.5	21	2	35	11
1437	X 46 Y 5.0	15	2	22	11	1507	X 48 Y 9.0	22	5	29	16
1438	X 46 Y 5.5	16	2	20	11	1508	X 48 Y 9.5	19	4	31	15
1439	X 46 Y 6.0	21	3	22	8	1509	X 48 Y10.0	18	8	48	28
1440	X 46 Y 6.5	17	2	21	13	1510	X 48 Y10.5	21	4	38	17
1441	X 46 Y 7.0	19	3	24	12	1511	X 48 Y11.0	19	5	49	15
1442	X 46 Y 7.5	16	2	20	13	1512	X 48 Y11.5	19	6	39	18
1443	X 46 Y 8.0	19	3	27	19	1513	X 48 Y12.0	22	16	38	19
1444	X 46 Y 8.5	20	3	33	22	1514	X 48 Y12.5	23	14	55	17
1445	X 46 Y 9.0	26	3	31	21	1515	X 48 Y13.0	25	12	55	20
1446	X 46 Y 9.5	18	2	23	9	1516	X 48 Y13.5	28	11	53	16
1447	X 46 Y10.0	22	23	42	10	1517	X 48 Y14.0	29	8	47	12
1448	X 46 Y10.5	16	2	34	17	1518	X 48 Y14.5	29	5	41	13
1449	X 46 Y11.0	18	2	27	16	1519	X 48 Y15.0	29	13	65	17
1450	X 46 Y11.5	21	2	25	11	1520	X 48 Y15.5	44	25	70	20
1451	X 46 Y12.0	18	3	20	9	1521	X 48 Y16.0	26	10	46	11
1452	X 46 Y12.5	20	3	28	13	1522	X 48 Y16.5	20	3	34	16
1453	X 46 Y13.0	18	4	29	15	1523	X 48 Y17.0	31	8	59	12
1454	X 46 Y13.5	20	3	30	17	1524	X 48 Y17.5	23	4	37	13
1455	X 46 Y14.0	16	5	22	8	1525	X 48 Y18.0	23	6	35	14
1456	X 46 Y14.5	24	3	29	18	1526	X 48 Y18.5	27	13	54	17
1457	X 46 Y15.0	20	5	34	47	1527	X 48 Y19.0	26	4	33	10
1458	X 46 Y15.5	28	9	34	24	1528	X 48 Y19.5	27	9	49	24
1459	X 46 Y16.0	20	4	36	20	1529	X 48 Y20.0	25	6	40	19
1460	X 46 Y16.5	21	3	27	12	1530	X 49 Y 5.0	16	2	26	11
1461	X 46 Y17.0	15	3	47	29	1531	X 49 Y 5.5	23	3	29	28
1462	X 46 Y17.5	21	3	34	14	1532	X 49 Y 6.0	21	3	31	17
1463	X 46 Y18.0	31	8	42	26	1533	X 49 Y 6.5	21	3	43	17
1464	X 46 Y18.5	19	3	39	34	1534	X 49 Y 7.0	21	2	28	14
1465	X 46 Y19.0	27	7	37	23	1535	X 49 Y 7.5	22	4	38	14
1466	X 46 Y19.5	25	10	40	14	1536	X 49 Y 8.0	19	2	37	11
1467	X 46 Y20.0	27	8	40	13	1537	X 49 Y 8.5	19	3	34	11
1468	X 47 Y 5.0	21	3	27	11	1538	X 49 Y 9.0	25	4	39	12
1469	X 47 Y 5.5	20	3	24	10	1539	X 49 Y 9.5	23	4	31	14
1470	X 47 Y 6.0	16	2	19	11	1540	X 49 Y10.0	16	3	22	8

***** Chemical analyses of geochemical samples (area A) *****

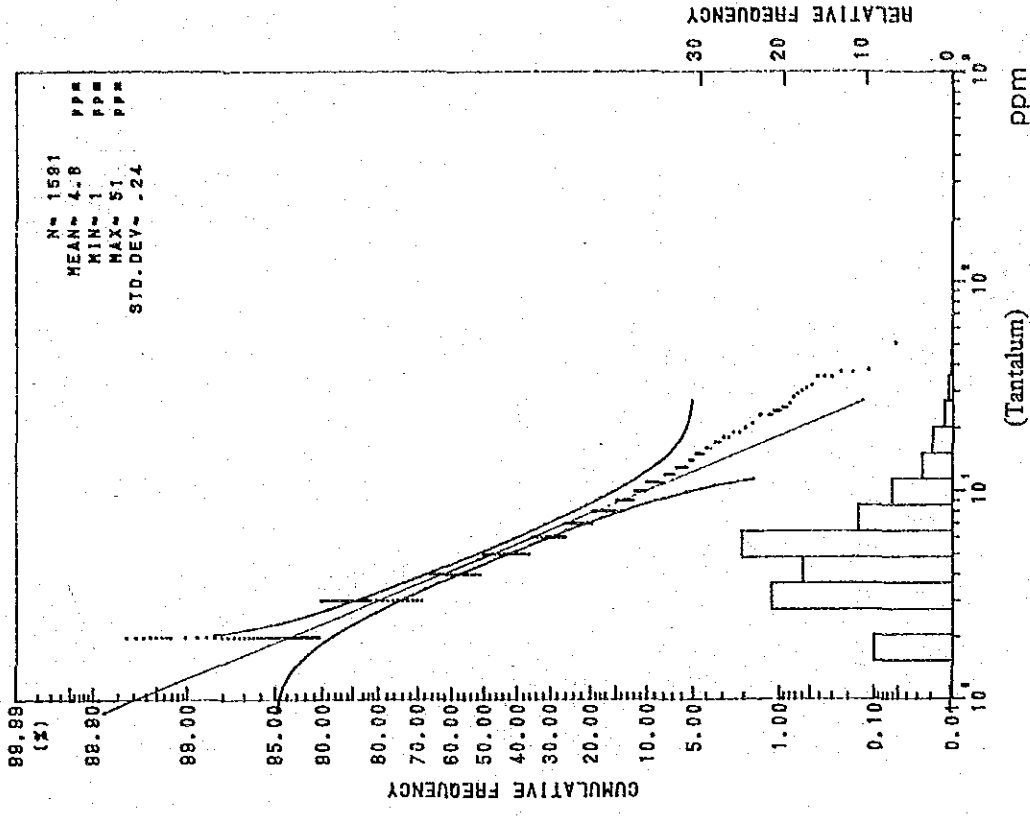
(12)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
1541	X 49 Y10.5	22	3	37	11
1542	X 49 Y11.0	23	13	52	11
1543	X 49 Y11.5	19	3	31	15
1544	X 49 Y12.0	17	3	20	22
1545	X 49 Y12.5	22	3	31	11
1546	X 49 Y13.0	19	3	35	8
1547	X 49 Y13.5	20	2	30	8
1548	X 49 Y14.0	17	2	27	8
1549	X 49 Y14.5	19	3	24	8
1550	X 49 Y15.0	21	13	36	14
1551	X 49 Y15.5	18	4	43	23
1552	X 49 Y16.0	21	5	32	17
1553	X 49 Y16.5	24	7	37	13
1554	X 49 Y17.0	28	4	45	16
1555	X 49 Y17.5	25	4	39	12
1556	X 49 Y18.0	23	5	46	12
1557	X 49 Y18.5	22	4	46	11
1558	X 49 Y19.0	21	4	37	15
1559	X 49 Y19.5	30	7	59	17
1560	X 49 Y20.0	28	6	50	16
1561	X 50 Y 5.0	17	2	26	18
1562	X 50 Y 5.5	14	2	20	18
1563	X 50 Y 6.0	18	2	21	18
1564	X 50 Y 6.5	17	3	26	17
1565	X 50 Y 7.0	16	3	28	9
1566	X 50 Y 7.5	16	3	37	12
1567	X 50 Y 8.0	16	2	38	11
1568	X 50 Y 8.5	15	4	49	13
1569	X 50 Y 9.0	20	3	32	11
1570	X 50 Y 9.5	18	2	31	8
1571	X 50 Y10.0	15	3	35	23
1572	X 50 Y10.5	26	4	29	15
1573	X 50 Y11.0	19	2	36	11
1574	X 50 Y11.5	23	3	44	14
1575	X 50 Y12.0	19	3	25	10
1576	X 50 Y12.5	26	3	32	8
1577	X 50 Y13.0	20	3	27	11
1578	X 50 Y13.5	19	3	30	20
1579	X 50 Y14.0	28	8	35	9
1580	X 50 Y14.5	22	9	32	12
1581	X 50 Y15.0	23	3	24	19
1582	X 50 Y15.5	15	3	29	13
1583	X 50 Y16.0	21	3	30	14
1584	X 50 Y16.5	21	4	36	12
1585	X 50 Y17.0	22	3	39	12
1586	X 50 Y17.5	22	4	25	11
1587	X 50 Y18.0	24	4	22	18
1588	X 50 Y18.5	26	4	27	19
1589	X 50 Y19.0	25	4	30	11
1590	X 50 Y19.5	25	4	22	10
1591	X 50 Y20.0	28	6	29	12

***** area A *****

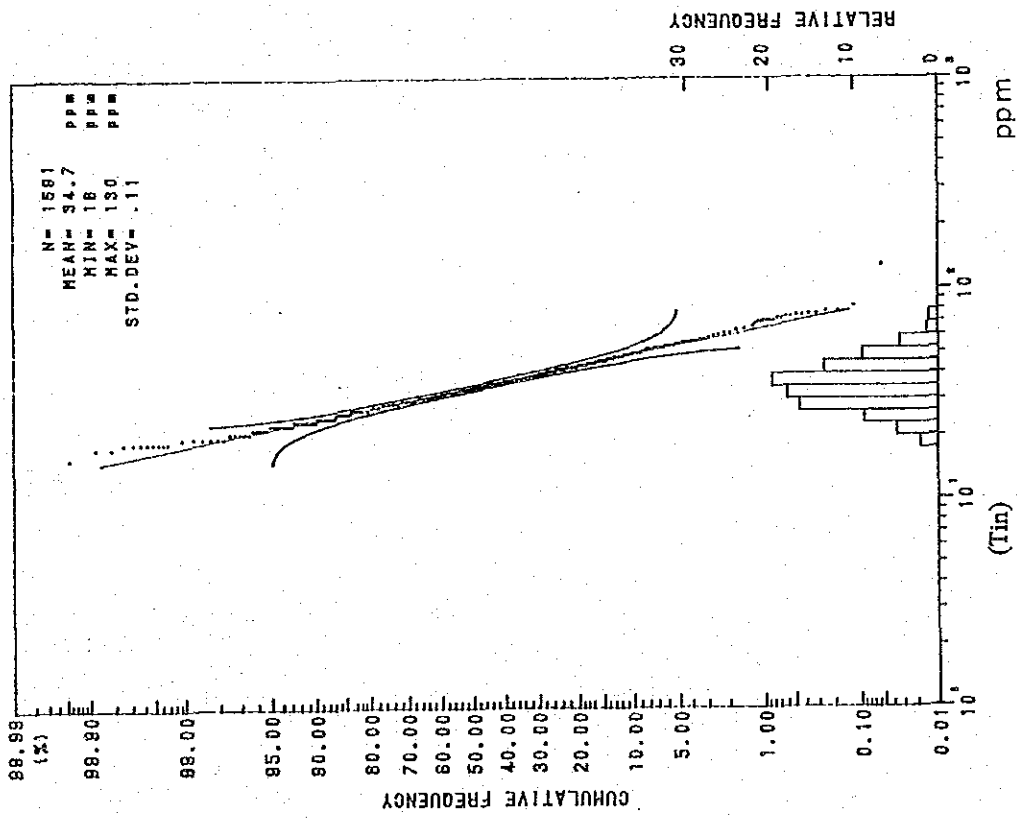


***** area A *****

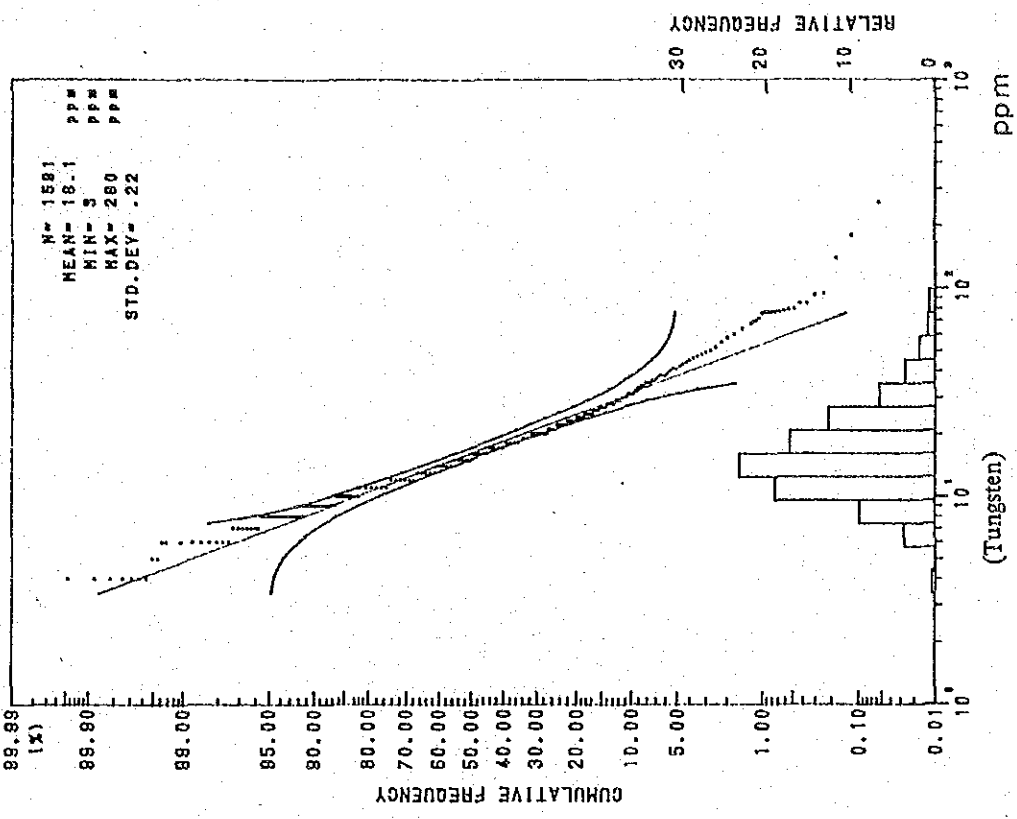


Appendix 6 Relative frequency and cumulative frequency histogram (Area A) (1)

***** area A *****



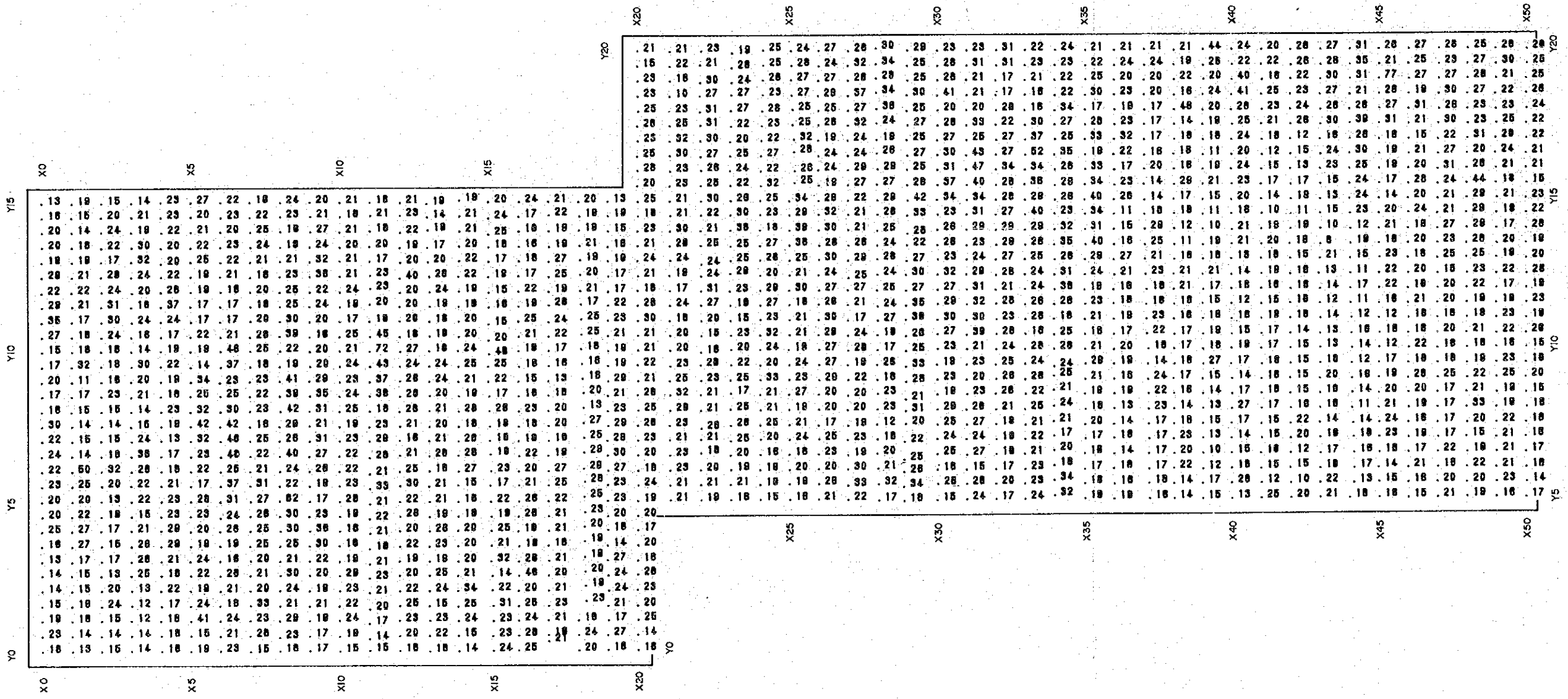
***** area A *****



Appendix 7 Relative frequency and cumulative frequency histogram (Area A) (2)

LEGEND

Geochemical soil sample
 Numbering system : X8-Y10
 (Line no.)(Point no.)
 Unit : ppm

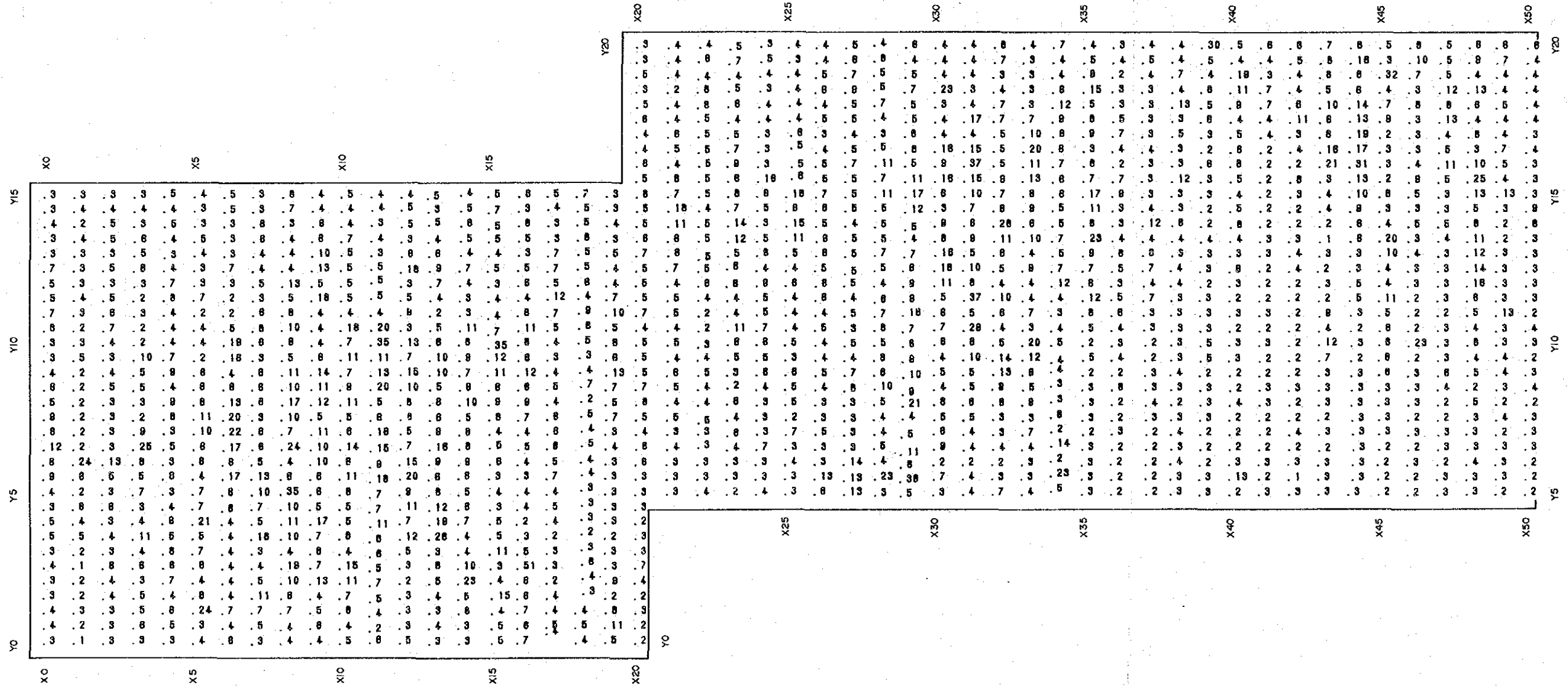


Appendix 8 Nb content distribution map (Area A)

LEGEND

Geochemical soil sample
 Numbering system : X8-Y10
 (Line no.) (Point no.)

Unit : ppm



Appendix 9 Ta content distribution map (Area A)

Appendix 12 Chemical analyses of geochemical samples (Area C)

***** Chemical analyses of geochemical samples (area C) ***** (1)											
No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
1	C 1 - 1	14	1	5	6	71	C 3 - 1	29	2	7	5
2	C 1 - 2	27	2	7	6	72	C 3 - 2	25	2	8	5
3	C 1 - 3	23	2	6	6	73	C 3 - 3	27	3	7	6
4	C 1 - 4	21	2	7	8	74	C 3 - 4	25	2	8	6
5	C 1 - 5	21	2	6	8	75	C 3 - 5	23	2	6	6
6	C 1 - 6	25	3	9	11	76	C 3 - 6	20	2	8	6
7	C 1 - 7	23	3	9	10	77	C 3 - 7	21	3	8	9
8	C 1 - 8	30	8	66	150	78	C 3 - 8	27	5	39	45
9	C 1 - 9	29	7	72	220	79	C 3 - 9	29	7	62	74
10	C 1 - 10	24	7	86	130	80	C 3 - 10	25	4	28	91
11	C 1 - 11	28	7	80	130	81	C 3 - 11	24	3	30	36
12	C 1 - 12	25	7	72	97	82	C 3 - 12	24	3	11	12
13	C 1 - 13	28	8	180	120	83	C 3 - 13	28	7	73	19
14	C 1 - 14	32	9	83	30	84	C 3 - 14	29	8	83	15
15	C 1 - 15	29	9	71	18	85	C 3 - 15	26	8	94	19
16	C 1 - 16	26	7	85	22	86	C 3 - 16	17	6	48	3
17	C 1 - 17	30	9	120	22	87	C 3 - 17	33	10	77	36
18	C 1 - 18	37	10	79	34	88	C 3 - 18	30	10	68	66
19	C 1 - 19	32	9	73	23	89	C 3 - 19	26	8	44	21
20	C 1 - 20	26	8	49	62	90	C 3 - 20	34	10	80	33
21	C 1 - 21	31	9	78	36	91	C 3 - 21	33	9	78	36
22	C 1 - 22	32	9	71	30	92	C 3 - 22	32	8	62	30
23	C 1 - 23	33	8	69	25	93	C 3 - 23	33	10	76	28
24	C 1 - 24	32	8	73	25	94	C 3 - 24	33	10	74	18
25	C 1 - 25	30	7	61	23	95	C 3 - 25	30	7	64	26
26	C 1 - 26	28	8	67	22	96	C 3 - 26	33	9	76	33
27	C 1 - 27	30	7	66	25	97	C 3 - 27	42	13	96	45
28	C 1 - 28	25	6	54	21	98	C 3 - 28	34	11	96	310
29	C 1 - 29	29	7	57	50	99	C 3 - 29	40	12	88	71
30	C 1 - 30	25	6	47	37	100	C 3 - 30	32	10	66	46
31	C 1 - 31	25	6	31	35	101	C 3 - 31	29	8	56	41
32	C 1 - 32	20	4	25	54	102	C 3 - 32	23	6	34	52
33	C 1 - 33	20	4	26	55	103	C 3 - 33	23	6	35	110
34	C 1 - 34	28	5	27	33	104	C 3 - 34	12	3	79	170
35	C 1 - 35	28	5	29	41	105	C 3 - 35	18	5	110	130
36	C 1 - 37	16	2	1100	1400	106	C 3 - 36	24	7	150	86
37	C 2 - 1	28	2	8	9	107	C 3 - 37	20	6	1100	350
38	C 2 - 2	25	3	8	6	108	C 4 - 1	24	3	7	6
39	C 2 - 3	25	3	6	5	109	C 4 - 2	27	3	7	3
40	C 2 - 4	23	2	6	6	110	C 4 - 3	24	3	7	4
41	C 2 - 5	23	2	8	6	111	C 4 - 4	25	3	7	5
42	C 2 - 6	22	3	9	8	112	C 4 - 5	25	3	8	6
43	C 2 - 7	22	3	15	27	113	C 4 - 6	24	3	9	7
44	C 2 - 8	26	6	69	160	114	C 4 - 7	21	2	8	6
45	C 2 - 9	26	6	100	400	115	C 4 - 8	23	3	9	10
46	C 2 - 10	28	11	160	300	116	C 4 - 9	26	3	11	10
47	C 2 - 11	27	6	110	770	117	C 4 - 10	26	2	9	9
48	C 2 - 12	26	8	67	180	118	C 4 - 11	29	3	11	11
49	C 2 - 13	26	5	50	90	119	C 4 - 12	30	4	18	20
50	C 2 - 14	23	7	79	14	120	C 4 - 13	28	7	78	39
51	C 2 - 15	24	8	58	15	121	C 4 - 14	14	2	70	12
52	C 2 - 16	25	7	78	12	122	C 4 - 15	35	11	88	13
53	C 2 - 17	27	8	67	10	123	C 4 - 16	35	11	70	14
54	C 2 - 18	32	10	77	23	124	C 4 - 17	36	10	86	46
55	C 2 - 19	29	8	67	24	125	C 4 - 18	39	12	87	43
56	C 2 - 20	27	8	55	22	126	C 4 - 19	34	9	76	38
57	C 2 - 21	29	8	60	28	127	C 4 - 20	34	10	85	23
58	C 2 - 22	34	9	71	28	128	C 4 - 21	35	10	75	24
59	C 2 - 23	39	11	69	28	129	C 4 - 22	30	9	69	23
60	C 2 - 24	31	9	71	25	130	C 4 - 23	28	9	68	20
61	C 2 - 25	33	9	79	27	131	C 4 - 24	32	10	80	26
62	C 2 - 26	29	8	67	25	132	C 4 - 25	32	9	70	35
63	C 2 - 27	31	8	63	41	133	C 4 - 26	30	9	70	26
64	C 2 - 28	37	10	79	53	134	C 4 - 27	36	10	76	37
65	C 2 - 29	37	11	110	46	135	C 4 - 28	25	8	48	36
66	C 2 - 30	35	10	79	54	136	C 4 - 29	25	6	38	28
67	C 2 - 31	35	9	110	89	137	C 4 - 30	26	8	48	32
68	C 2 - 32	32	9	91	82	138	C 4 - 31	22	6	34	69
69	C 2 - 33	14	4	27	66	139	C 4 - 32	13	3	42	130
70	C 2 - 37	12	3	2200	990	140	C 4 - 33	14	3	36	190

***** Chemical analyses of geochemical samples (area C) *****

(2)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
141	C 4 - 34	15	5	130	320	211	C 6 - 30	23	5	46	60
142	C 4 - 35	28	5	340	280	212	C 6 - 31	16	4	92	170
143	C 4 - 36	26	7	780	590	213	C 6 - 32	14	3	66	71
144	C 4 - 37	28	8	78	70	214	C 6 - 33	19	5	120	110
145	C 5 - 1	26	3	8	6	215	C 6 - 34	30	8	59	29
146	C 5 - 2	26	4	7	5	216	C 6 - 35	20	5	63	41
147	C 5 - 3	31	3	6	5	217	C 6 - 36	26	5	80	66
148	C 5 - 4	31	3	8	6	218	C 6 - 37	21	4	37	46
149	C 5 - 5	25	3	8	7	219	C 7 - 1	30	4	7	5
150	C 5 - 6	25	3	8	6	220	C 7 - 2	26	3	7	6
151	C 5 - 7	24	3	7	9	221	C 7 - 3	25	3	8	6
152	C 5 - 8	26	4	8	9	222	C 7 - 4	25	3	8	5
153	C 5 - 9	25	3	10	11	223	C 7 - 5	23	3	8	5
154	C 5 - 10	27	3	12	12	224	C 7 - 6	23	3	8	17
155	C 5 - 11	28	5	22	24	225	C 7 - 7	25	4	15	17
156	C 5 - 12	22	7	74	13	226	C 7 - 8	26	4	15	15
157	C 5 - 13	26	7	110	15	227	C 7 - 9	23	3	12	25
158	C 5 - 14	28	8	78	25	228	C 7 - 10	21	4	35	270
159	C 5 - 15	27	7	88	19	229	C 7 - 11	23	3	27	290
160	C 5 - 16	32	10	150	32	230	C 7 - 12	21	5	110	1100
161	C 5 - 17	33	10	100	40	231	C 7 - 13	32	13	95	24
162	C 5 - 18	38	11	110	40	232	C 7 - 14	33	13	82	48
163	C 5 - 19	34	10	97	30	233	C 7 - 15	32	13	85	25
164	C 5 - 20	30	8	74	30	234	C 7 - 16	35	15	89	33
165	C 5 - 21	22	6	53	34	235	C 7 - 17	40	15	94	58
166	C 5 - 22	26	7	66	36	236	C 7 - 18	35	14	86	48
167	C 5 - 23	32	9	78	36	237	C 7 - 19	28	12	86	45
168	C 5 - 24	31	8	71	31	238	C 7 - 20	35	10	86	47
169	C 5 - 25	30	8	75	47	239	C 7 - 21	29	8	93	51
170	C 5 - 26	32	9	74	42	240	C 7 - 22	23	6	59	30
171	C 5 - 27	31	9	63	41	241	C 7 - 23	26	7	55	38
172	C 5 - 28	28	8	53	34	242	C 7 - 24	25	6	52	32
173	C 5 - 29	27	7	48	57	243	C 7 - 25	30	7	52	40
174	C 5 - 30	22	6	39	76	244	C 7 - 26	23	6	35	31
175	C 5 - 31	15	4	34	140	245	C 7 - 27	21	5	160	110
176	C 5 - 32	17	4	58	260	246	C 7 - 28	24	6	110	89
177	C 5 - 33	24	5	100	270	247	C 7 - 29	21	5	120	88
178	C 5 - 34	12	3	29	98	248	C 7 - 30	19	4	110	140
179	C 5 - 35	16	3	430	1600	249	C 7 - 31	20	6	150	100
180	C 5 - 36	15	4	170	330	250	C 7 - 32	26	5	810	1400
181	C 5 - 37	25	7	140	190	251	C 7 - 33	23	7	270	910
182	C 6 - 1	27	3	10	8	252	C 7 - 34	17	4	110	360
183	C 6 - 2	28	3	9	7	253	C 7 - 35	19	4	74	67
184	C 6 - 3	26	3	7	6	254	C 7 - 36	19	4	37	34
185	C 6 - 4	26	2	9	10	255	C 7 - 37	20	4	31	30
186	C 6 - 5	23	3	6	5	256	C 8 - 1	33	2	8	5
187	C 6 - 6	22	3	7	8	257	C 8 - 2	31	3	10	5
188	C 6 - 7	23	2	7	10	258	C 8 - 3	30	2	9	4
189	C 6 - 8	24	2	9	10	259	C 8 - 4	29	2	8	6
190	C 6 - 9	26	2	9	12	260	C 8 - 5	27	3	8	6
191	C 6 - 10	26	3	29	53	261	C 8 - 6	25	2	7	8
192	C 6 - 11	26	6	180	1200	262	C 8 - 7	22	2	6	5
193	C 6 - 12	29	8	86	56	263	C 8 - 8	25	3	8	8
194	C 6 - 13	29	8	100	12	264	C 8 - 9	25	4	26	130
195	C 6 - 14	35	10	85	24	265	C 8 - 10	27	8	120	200
196	C 6 - 15	45	15	100	45	266	C 8 - 11	33	10	100	160
197	C 6 - 16	38	10	92	30	267	C 8 - 12	31	8	38	18
198	C 6 - 17	32	9	80	35	268	C 8 - 13	29	9	51	13
199	C 6 - 18	31	9	110	46	269	C 8 - 14	28	8	64	32
200	C 6 - 19	30	8	85	30	270	C 8 - 15	33	11	110	16
201	C 6 - 20	34	9	82	50	271	C 8 - 16	33	9	74	28
202	C 6 - 21	26	7	79	25	272	C 8 - 17	30	9	56	24
203	C 6 - 22	20	5	55	47	273	C 8 - 18	24	7	60	16
204	C 6 - 23	31	8	76	55	274	C 8 - 19	28	8	61	24
205	C 6 - 24	29	7	73	40	275	C 8 - 20	25	7	57	36
206	C 6 - 25	33	8	74	49	276	C 8 - 21	31	8	57	37
207	C 6 - 26	30	8	67	41	277	C 8 - 22	27	7	48	37
208	C 6 - 27	32	9	50	95	278	C 8 - 23	23	6	41	100
209	C 6 - 28	23	6	45	120	279	C 8 - 24	32	8	54	44
210	C 6 - 29	26	6	55	80	280	C 8 - 25	25	6	38	48

***** Chemical analyses of geochemical samples (area C) *****

(3)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
281	C 8 - 26	19	4	24	160	351	C10 - 22	28	4	29	21
282	C 8 - 27	25	7	160	100	352	C10 - 23	32	8	160	110
283	C 8 - 28	18	6	220	270	353	C10 - 24	32	8	100	100
284	C 8 - 29	17	6	340	370	354	C10 - 25	32	8	78	71
285	C 8 - 30	12	4	750	940	355	C10 - 26	26	7	51	59
286	C 8 - 31	23	7	130	110	356	C10 - 27	28	8	72	39
287	C 8 - 32	26	6	140	83	357	C10 - 28	31	8	160	79
288	C 8 - 33	25	6	71	53	358	C10 - 29	30	9	130	76
289	C 8 - 34	25	5	57	220	359	C10 - 30	23	6	270	300
290	C 8 - 35	19	4	69	570	360	C10 - 31	26	6	380	430
291	C 8 - 36	23	4	44	100	361	C10 - 32	31	7	300	190
292	C 8 - 37	26	5	46	64	362	C10 - 33	28	6	160	130
293	C 9 - 1	29	3	9	8	363	C10 - 34	24	5	47	50
294	C 9 - 2	25	3	8	5	364	C10 - 35	20	4	50	52
295	C 9 - 3	29	2	9	6	365	C10 - 36	28	7	39	35
296	C 9 - 4	29	4	9	9	366	C10 - 37	25	4	43	35
297	C 9 - 5	27	3	8	8	367	C11 - 1	27	2	8	6
298	C 9 - 6	27	3	7	5	368	C11 - 2	25	2	7	6
299	C 9 - 7	24	3	7	8	369	C11 - 3	28	3	11	7
300	C 9 - 8	24	3	10	14	370	C11 - 4	26	3	12	7
301	C 9 - 9	28	8	100	41	371	C11 - 5	27	3	12	7
302	C 9 - 10	26	8	120	25	372	C11 - 6	28	6	57	17
303	C 9 - 11	25	9	150	13	373	C11 - 7	28	7	73	15
304	C 9 - 12	31	10	68	17	374	C11 - 8	30	10	56	17
305	C 9 - 13	30	8	73	18	375	C11 - 9	31	9	61	25
306	C 9 - 14	30	10	61	20	376	C11 - 10	25	8	59	18
307	C 9 - 15	29	9	75	19	377	C11 - 11	32	10	75	33
308	C 9 - 16	26	8	65	17	378	C11 - 12	32	10	82	66
309	C 9 - 17	24	9	75	21	379	C11 - 13	34	10	85	48
310	C 9 - 18	22	7	72	21	380	C11 - 14	35	10	79	36
311	C 9 - 19	30	10	71	35	381	C11 - 15	34	9	86	32
312	C 9 - 20	24	7	59	36	382	C11 - 16	32	8	67	28
313	C 9 - 21	29	7	49	43	383	C11 - 17	21	3	24	20
314	C 9 - 22	29	8	51	43	384	C11 - 18	29	6	44	56
315	C 9 - 23	28	9	52	46	385	C11 - 19	28	7	41	52
316	C 9 - 24	25	6	43	54	386	C11 - 20	31	8	48	44
317	C 9 - 25	20	6	47	40	387	C11 - 21	33	7	53	41
318	C 9 - 26	20	6	98	78	388	C11 - 22	31	8	54	48
319	C 9 - 27	13	3	57	75	389	C11 - 23	29	7	49	33
320	C 9 - 28	18	5	690	600	390	C11 - 24	29	6	43	46
321	C 9 - 29	16	5	1700	390	391	C11 - 25	27	7	60	61
322	C 9 - 30	22	3	690	320	392	C11 - 26	31	9	140	130
323	C 9 - 31	20	5	310	200	393	C11 - 27	39	11	89	61
324	C 9 - 32	28	7	150	97	394	C11 - 28	34	11	79	38
325	C 9 - 33	28	6	80	78	395	C11 - 29	34	8	75	38
326	C 9 - 34	24	5	52	160	396	C11 - 30	33	9	73	39
327	C 9 - 35	20	4	59	140	397	C11 - 31	23	5	490	410
328	C 9 - 36	27	4	40	100	398	C11 - 32	20	5	320	250
329	C 9 - 37	24	3	36	68	399	C11 - 33	27	4	47	24
330	C10 - 1	27	2	8	9	400	C11 - 34	27	5	43	25
331	C10 - 2	27	2	9	6	401	C11 - 35	27	4	40	20
332	C10 - 3	33	3	10	7	402	C11 - 36	27	5	39	21
333	C10 - 4	29	2	6	5	403	C11 - 37	25	4	40	19
334	C10 - 5	29	2	6	6	404	C12 - 1	26	2	8	6
335	C10 - 6	28	2	9	6	405	C12 - 2	28	2	21	28
336	C10 - 7	26	3	10	8	406	C12 - 3	36	8	63	21
337	C10 - 8	27	4	32	71	407	C12 - 4	25	6	63	14
338	C10 - 9	29	8	100	30	408	C12 - 5	31	9	62	17
339	C10 - 10	32	8	110	31	409	C12 - 6	27	7	68	20
340	C10 - 11	32	8	89	17	410	C12 - 7	42	12	90	36
341	C10 - 12	36	9	87	20	411	C12 - 8	36	10	83	43
342	C10 - 13	41	11	92	40	412	C12 - 9	40	12	85	38
343	C10 - 14	37	9	88	32	413	C12 - 10	36	10	86	32
344	C10 - 15	34	9	82	19	414	C12 - 11	29	9	77	26
345	C10 - 16	30	8	75	30	415	C12 - 12	41	12	88	49
346	C10 - 17	36	8	85	31	416	C12 - 13	32	8	74	44
347	C10 - 18	37	9	85	43	417	C12 - 14	36	9	72	48
348	C10 - 19	33	7	64	34	418	C12 - 15	30	8	76	73
349	C10 - 20	35	7	66	27	419	C12 - 16	29	8	54	38
350	C10 - 21	29	6	45	25	420	C12 - 17	32	8	45	41

***** Chemical analyses of geochemical samples (area C) *****

(4)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
421	C12 - 18	33	9	39	51	491	C14 - 14	33	9	87	32
422	C12 - 19	32	8	45	52	492	C14 - 15	27	7	66	24
423	C12 - 20	34	9	48	43	493	C14 - 16	19	5	46	23
424	C12 - 21	35	9	64	39	494	C14 - 17	32	8	76	47
425	C12 - 22	28	7	56	27	495	C14 - 18	27	7	60	24
426	C12 - 23	28	7	55	32	496	C14 - 19	31	8	70	28
427	C12 - 24	30	8	52	53	497	C14 - 20	31	8	71	33
428	C12 - 25	33	12	310	410	498	C14 - 21	27	8	80	22
429	C12 - 26	29	10	230	210	499	C14 - 22	34	11	96	25
430	C12 - 27	24	6	980	500	500	C14 - 23	32	9	89	25
431	C12 - 28	35	11	270	150	501	C14 - 24	39	12	140	57
432	C12 - 29	33	10	170	83	502	C14 - 25	43	13	340	180
433	C12 - 30	30	8	94	25	503	C14 - 26	34	11	580	250
434	C12 - 31	24	5	170	98	504	C14 - 27	39	13	170	170
435	C12 - 32	26	5	140	89	505	C14 - 28	26	5	420	95
436	C12 - 33	25	5	46	27	506	C14 - 29	25	5	350	86
437	C12 - 34	25	5	51	23	507	C14 - 30	22	3	430	57
438	C12 - 35	27	5	44	21	508	C14 - 31	25	5	710	140
439	C12 - 36	26	5	35	20	509	C14 - 32	27	6	1100	1200
440	C12 - 37	28	5	33	28	510	C14 - 33	24	4	480	260
441	C13 - 1	29	3	8	6	511	C14 - 34	26	5	170	120
442	C13 - 2	28	3	9	8	512	C14 - 35	24	4	83	72
443	C13 - 3	28	3	12	9	513	C14 - 36	24	4	56	46
444	C13 - 4	30	7	60	26	514	C14 - 37	24	4	26	23
445	C13 - 5	31	10	80	26	515	C15 - 1	29	3	9	8
446	C13 - 6	38	10	70	31	516	C15 - 2	30	3	28	12
447	C13 - 7	34	9	81	22	517	C15 - 3	28	3	9	8
448	C13 - 8	41	10	89	33	518	C15 - 4	24	3	13	11
449	C13 - 9	34	9	83	51	519	C15 - 5	38	11	120	13
450	C13 - 10	33	8	68	36	520	C15 - 6	38	10	93	30
451	C13 - 11	38	10	82	47	521	C15 - 7	40	12	97	33
452	C13 - 12	41	13	88	47	522	C15 - 8	32	9	73	29
453	C13 - 13	29	8	83	27	523	C15 - 9	31	8	71	27
454	C13 - 14	37	10	100	37	524	C15 - 10	32	8	73	23
455	C13 - 15	31	9	71	25	525	C15 - 11	35	12	78	50
456	C13 - 16	31	8	59	30	526	C15 - 12	33	10	73	220
457	C13 - 17	27	7	60	25	527	C15 - 13	33	9	78	42
458	C13 - 18	35	10	66	35	528	C15 - 14	28	7	76	28
459	C13 - 19	34	8	60	50	529	C15 - 15	23	7	57	26
460	C13 - 20	31	7	60	36	530	C15 - 16	23	6	53	22
461	C13 - 21	33	9	85	32	531	C15 - 17	25	6	55	27
462	C13 - 22	31	9	74	29	532	C15 - 18	30	8	65	30
463	C13 - 23	30	8	88	38	533	C15 - 19	32	9	72	21
464	C13 - 24	21	4	36	22	534	C15 - 20	32	10	86	31
465	C13 - 25	37	11	170	85	535	C15 - 21	25	8	96	14
466	C13 - 26	33	11	340	250	536	C15 - 22	33	11	130	23
467	C13 - 27	20	3	710	280	537	C15 - 23	33	12	93	20
468	C13 - 28	23	4	630	690	538	C15 - 24	49	17	140	37
469	C13 - 29	26	3	320	290	539	C15 - 25	29	10	820	130
470	C13 - 30	22	4	230	430	540	C15 - 26	25	5	310	150
471	C13 - 31	27	5	63	21	541	C15 - 27	36	10	440	650
472	C13 - 32	28	4	71	35	542	C15 - 28	46	17	300	570
473	C13 - 33	28	4	90	44	543	C15 - 29	36	17	180	200
474	C13 - 34	25	4	49	23	544	C15 - 30	29	7	180	100
475	C13 - 35	27	5	45	21	545	C15 - 31	29	5	160	330
476	C13 - 36	26	4	39	21	546	C15 - 32	26	5	61	140
477	C13 - 37	23	5	36	32	547	C15 - 33	30	5	59	73
478	C14 - 1	30	3	9	6	548	C15 - 34	27	5	65	100
479	C14 - 2	28	4	9	7	549	C15 - 35	26	5	51	67
480	C14 - 3	25	3	9	7	550	C15 - 36	23	4	31	30
481	C14 - 4	27	3	19	27	551	C15 - 37	22	3	33	39
482	C14 - 5	34	10	77	17	552	C16 - 1	29	2	9	8
483	C14 - 6	39	10	83	25	553	C16 - 2	28	3	8	7
484	C14 - 7	36	9	82	31	554	C16 - 3	24	3	9	9
485	C14 - 8	35	10	91	41	555	C16 - 4	31	9	91	16
486	C14 - 9	38	12	97	35	556	C16 - 5	38	11	97	29
487	C14 - 10	32	9	80	26	557	C16 - 6	44	13	110	36
488	C14 - 11	35	10	88	47	558	C16 - 7	37	11	93	34
489	C14 - 12	38	12	91	43	559	C16 - 8	27	9	70	27
490	C14 - 13	39	10	87	36	560	C16 - 9	36	10	74	32

***** Chemical analyses of geochemical samples (area C) *****

(5)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
561	C16 - 10	28	8	68	54	631	C18 - 6	35	10	110	21
562	C16 - 11	35	12	90	31	632	C18 - 7	25	4	34	61
563	C16 - 12	37	11	100	33	633	C18 - 8	40	13	100	43
564	C16 - 13	29	8	120	32	634	C18 - 9	38	13	89	51
565	C16 - 14	28	8	73	31	635	C18 - 10	32	10	130	49
566	C16 - 15	27	8	70	19	636	C18 - 11	41	11	100	49
567	C16 - 16	36	10	85	33	637	C18 - 12	33	9	86	38
568	C16 - 17	31	9	76	28	638	C18 - 13	25	5	51	23
569	C16 - 18	26	7	52	29	639	C18 - 14	29	8	78	28
570	C16 - 19	32	10	66	29	640	C18 - 15	33	9	87	29
571	C16 - 20	33	9	69	50	641	C18 - 16	29	7	69	24
572	C16 - 21	31	9	95	19	642	C18 - 17	29	6	65	29
573	C16 - 22	31	11	420	200	643	C18 - 18	28	8	76	32
574	C16 - 23	35	11	240	73	644	C18 - 19	33	10	91	35
575	C16 - 24	29	9	1200	280	645	C18 - 20	33	10	100	99
576	C16 - 25	36	9	400	290	646	C18 - 21	28	8	76	52
577	C16 - 26	38	12	450	400	647	C18 - 22	25	8	54	16
578	C16 - 27	29	7	950	230	648	C18 - 23	23	8	72	25
579	C16 - 28	29	4	720	99	649	C18 - 24	30	9	86	48
580	C16 - 29	28	4	320	58	650	C18 - 25	41	14	200	130
581	C16 - 30	21	2	240	76	651	C18 - 26	35	10	79	64
582	C16 - 31	21	3	69	46	652	C18 - 27	47	12	89	81
583	C16 - 32	30	5	44	19	653	C18 - 28	40	10	85	56
584	C16 - 33	28	4	43	21	654	C18 - 29	26	3	130	140
585	C16 - 34	29	4	42	21	655	C18 - 30	25	4	39	18
586	C16 - 35	25	4	33	18	656	C18 - 31	30	5	46	17
587	C16 - 36	24	4	24	20	657	C18 - 32	21	3	35	17
588	C16 - 37	21	3	21	22	658	C18 - 33	20	4	36	23
589	C17 - 1	28	2	9	6	659	C18 - 34	19	3	28	13
590	C17 - 2	28	8	63	32	660	C18 - 35	23	4	35	14
591	C17 - 3	26	3	12	10	661	C18 - 36	23	3	21	41
592	C17 - 4	47	14	91	51	662	C18 - 37	22	3	26	21
593	C17 - 5	40	11	92	35	663	C19 - 1	29	3	9	6
594	C17 - 6	41	11	110	45	664	C19 - 2	32	3	10	6
595	C17 - 7	43	13	120	26	665	C19 - 3	31	2	10	7
596	C17 - 8	34	10	90	23	666	C19 - 4	29	4	23	11
597	C17 - 9	42	11	95	46	667	C19 - 5	32	5	27	8
598	C17 - 10	41	13	95	35	668	C19 - 6	36	10	93	21
599	C17 - 11	34	10	88	25	669	C19 - 7	39	12	110	23
600	C17 - 12	28	9	76	37	670	C19 - 8	34	10	89	25
601	C17 - 13	36	10	92	41	671	C19 - 9	30	10	78	31
602	C17 - 14	31	8	74	32	672	C19 - 10	32	10	82	24
603	C17 - 15	31	9	77	49	673	C19 - 11	43	11	95	44
604	C17 - 16	31	10	78	51	674	C19 - 12	31	9	86	33
605	C17 - 17	31	7	66	32	675	C19 - 13	34	9	83	29
606	C17 - 18	24	7	52	25	676	C19 - 14	30	9	71	26
607	C17 - 19	28	7	65	40	677	C19 - 15	28	9	71	22
608	C17 - 20	28	7	62	26	678	C19 - 16	31	10	81	39
609	C17 - 21	29	8	64	31	679	C19 - 17	35	10	88	40
610	C17 - 22	30	9	76	25	680	C19 - 18	33	9	150	67
611	C17 - 23	30	9	240	130	681	C19 - 19	44	16	360	100
612	C17 - 24	25	7	370	410	682	C19 - 20	33	11	150	78
613	C17 - 25	30	5	140	68	683	C19 - 21	28	9	77	22
614	C17 - 26	44	15	170	170	684	C19 - 22	28	9	81	24
615	C17 - 27	43	14	140	67	685	C19 - 23	29	10	72	44
616	C17 - 28	26	5	110	44	686	C19 - 24	35	10	150	110
617	C17 - 29	29	5	100	43	687	C19 - 25	24	4	490	890
618	C17 - 30	29	5	71	57	688	C19 - 26	46	13	120	79
619	C17 - 31	29	5	49	23	689	C19 - 27	35	7	190	100
620	C17 - 32	21	3	39	18	690	C19 - 28	32	5	210	270
621	C17 - 33	20	3	32	11	691	C19 - 29	24	4	46	21
622	C17 - 34	26	4	36	15	692	C19 - 30	29	4	42	20
623	C17 - 35	23	4	30	16	693	C19 - 31	27	5	43	15
624	C17 - 36	26	4	23	17	694	C19 - 32	23	5	37	14
625	C17 - 37	21	4	25	17	695	C19 - 33	21	4	28	21
626	C18 - 1	25	3	9	4	696	C19 - 34	17	2	22	23
627	C18 - 2	26	2	8	8	697	C19 - 35	20	3	26	29
628	C18 - 3	25	3	13	9	698	C19 - 36	21	4	25	10
629	C18 - 4	37	10	94	25	699	C19 - 37	24	4	30	12
630	C18 - 5	37	11	100	24	700	C20 - 8	38	10	100	43

***** Chemical analyses of geochemical samples (area C) *****

(6)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
701	C20 - 9	35	12	97	46	771	C22 - 21	46	17	130	69
702	C20 - 10	35	10	93	41	772	C22 - 22	36	12	1300	260
703	C20 - 11	38	11	85	34	773	C22 - 23	26	7	2500	470
704	C20 - 12	36	10	89	29	774	C22 - 24	52	14	300	200
705	C20 - 13	40	13	100	31	775	C22 - 25	34	6	220	150
706	C20 - 14	41	13	91	47	776	C22 - 26	23	5	460	590
707	C20 - 15	30	9	56	35	777	C22 - 27	26	5	110	97
708	C20 - 16	25	9	72	22	778	C22 - 28	26	5	52	67
709	C20 - 17	38	13	95	40	779	C22 - 29	24	5	49	37
710	C20 - 18	30	10	96	61	780	C22 - 30	24	4	34	12
711	C20 - 19	44	17	480	270	781	C22 - 31	29	4	38	13
712	C20 - 20	26	10	220	840	782	C22 - 32	28	4	35	15
713	C20 - 21	31	12	140	310	783	C22 - 33	25	3	29	16
714	C20 - 22	30	12	91	46	784	C22 - 34	24	4	31	16
715	C20 - 23	36	12	270	220	785	C22 - 35	21	4	29	15
716	C20 - 24	45	17	340	180	786	C22 - 36	20	4	24	9
717	C20 - 25	31	9	830	390	787	C22 - 37	19	3	25	11
718	C20 - 26	30	7	420	200	788	C23 - 10	33	9	76	24
719	C20 - 27	36	9	150	73	789	C23 - 11	33	6	52	19
720	C20 - 28	25	4	49	25	790	C23 - 12	39	12	110	37
721	C20 - 29	28	5	44	16	791	C23 - 13	32	10	89	32
722	C20 - 30	27	5	38	15	792	C23 - 14	37	12	100	28
723	C20 - 31	29	5	39	13	793	C23 - 15	43	15	110	27
724	C20 - 32	27	5	35	13	794	C23 - 16	44	16	110	44
725	C20 - 33	28	4	34	12	795	C23 - 17	40	14	100	38
726	C20 - 34	22	4	28	17	796	C23 - 18	35	12	110	41
727	C20 - 35	27	4	24	19	797	C23 - 19	40	10	280	1700
728	C20 - 36	26	3	20	40	798	C23 - 20	46	14	650	660
729	C20 - 37	24	4	33	11	799	C23 - 21	37	11	360	500
730	C21 - 9	42	13	100	45	800	C23 - 22	35	10	860	220
731	C21 - 10	27	9	69	23	801	C23 - 23	47	15	680	280
732	C21 - 11	29	9	75	21	802	C23 - 24	30	6	240	220
733	C21 - 12	37	12	85	30	803	C23 - 25	30	7	670	380
734	C21 - 13	30	9	74	26	804	C23 - 26	27	6	750	790
735	C21 - 14	36	10	80	31	805	C23 - 27	18	3	64	120
736	C21 - 15	26	7	61	30	806	C23 - 28	22	5	31	81
737	C21 - 16	31	9	61	30	807	C23 - 29	24	4	34	18
738	C21 - 17	27	8	140	150	808	C23 - 30	28	4	34	13
739	C21 - 18	37	11	240	280	809	C23 - 31	29	4	33	16
740	C21 - 19	30	10	110	240	810	C23 - 32	26	4	31	12
741	C21 - 20	30	11	140	150	811	C23 - 33	26	4	27	18
742	C21 - 21	35	11	140	89	812	C23 - 34	22	4	22	21
743	C21 - 22	53	18	140	140	813	C23 - 35	23	4	25	27
744	C21 - 23	36	9	610	310	814	C23 - 36	21	4	32	18
745	C21 - 24	44	12	290	340	815	C23 - 37	27	5	22	12
746	C21 - 25	33	6	200	130	816	C24 - 11	52	20	100	54
747	C21 - 26	29	4	470	210	817	C24 - 12	41	13	110	36
748	C21 - 27	27	6	1200	1200	818	C24 - 13	41	12	110	32
749	C21 - 28	27	5	59	47	819	C24 - 14	40	13	110	30
750	C21 - 29	27	4	37	17	820	C24 - 15	39	15	97	48
751	C21 - 30	30	5	37	32	821	C24 - 16	49	18	120	68
752	C21 - 31	30	5	42	17	822	C24 - 17	39	15	110	23
753	C21 - 32	30	5	33	12	823	C24 - 18	36	12	130	45
754	C21 - 33	29	4	33	12	824	C24 - 19	48	14	690	460
755	C21 - 34	27	4	32	21	825	C24 - 20	43	11	320	200
756	C21 - 35	24	4	27	14	826	C24 - 21	37	8	300	130
757	C21 - 36	26	4	30	18	827	C24 - 22	65	20	650	120
758	C21 - 37	20	3	17	40	828	C24 - 23	34	9	700	220
759	C22 - 9	40	12	100	37	829	C24 - 24	21	4	1600	250
760	C22 - 10	47	14	100	53	830	C24 - 25	23	3	1800	420
761	C22 - 11	44	11	100	54	831	C24 - 26	21	4	93	250
762	C22 - 12	44	13	120	57	832	C24 - 27	24	4	30	23
763	C22 - 13	41	12	110	30	833	C24 - 28	21	4	29	16
764	C22 - 14	38	13	100	30	834	C24 - 29	24	5	31	14
765	C22 - 15	38	12	110	26	835	C24 - 30	24	4	34	15
766	C22 - 16	36	12	84	48	836	C24 - 31	23	4	37	13
767	C22 - 17	39	12	90	41	837	C24 - 32	28	5	35	12
768	C22 - 18	38	12	92	33	838	C24 - 33	20	3	27	41
769	C22 - 19	36	12	110	60	839	C24 - 34	22	3	28	18
770	C22 - 20	44	17	130	43	840	C24 - 35	21	3	28	12

***** Chemical analyses of geochemical samples (area C) *****

(7)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
841	C24 - 36	17	3	32	9	911	C27 - 20	31	6	180	210
842	C24 - 37	26	4	25	16	912	C27 - 21	29	4	51	97
843	C25 - 11	29	6	78	81	913	C27 - 22	30	5	86	110
844	C25 - 12	46	13	130	36	914	C27 - 23	24	5	58	110
845	C25 - 13	45	14	110	42	915	C27 - 24	27	5	42	180
846	C25 - 14	41	13	130	27	916	C27 - 25	24	4	33	46
847	C25 - 15	43	14	140	29	917	C27 - 26	31	5	35	27
848	C25 - 16	40	12	110	23	918	C27 - 27	25	4	30	16
849	C25 - 17	33	10	90	40	919	C27 - 28	28	4	31	12
850	C25 - 18	34	13	130	52	920	C27 - 29	24	4	32	13
851	C25 - 19	49	19	240	110	921	C27 - 30	21	3	26	14
852	C25 - 20	41	11	500	610	922	C27 - 31	24	4	35	91
853	C25 - 21	31	8	620	190	923	C27 - 32	26	5	41	40
854	C25 - 22	38	11	250	150	924	C27 - 33	19	3	23	10
855	C25 - 23	26	5	530	660	925	C27 - 34	26	4	36	16
856	C25 - 24	28	4	730	280	926	C27 - 35	26	4	26	13
857	C25 - 25	23	5	490	920	927	C27 - 36	30	4	25	15
858	C25 - 26	23	4	64	280	928	C27 - 37	29	4	23	13
859	C25 - 27	26	4	42	190	929	C28 - 4	34	3	10	8
860	C25 - 28	23	5	40	22	930	C28 - 5	31	3	10	7
861	C25 - 29	23	4	27	12	931	C28 - 12	43	14	82	32
862	C25 - 30	22	4	30	14	932	C28 - 13	30	9	84	34
863	C25 - 31	31	5	44	18	933	C28 - 14	48	17	120	48
864	C25 - 32	24	4	29	11	934	C28 - 15	49	15	140	55
865	C25 - 33	20	4	29	21	935	C28 - 16	27	11	66	11
866	C25 - 34	24	4	33	19	936	C28 - 17	39	12	100	28
867	C25 - 35	16	3	23	10	937	C28 - 18	33	11	99	240
868	C25 - 36	17	3	21	11	938	C28 - 19	31	3	24	71
869	C25 - 37	26	4	22	18	939	C28 - 20	35	9	80	36
870	C26 - 1	33	2	8	5	940	C28 - 21	23	3	22	31
871	C26 - 2	36	4	10	7	941	C28 - 22	29	4	39	110
872	C26 - 3	34	4	10	7	942	C28 - 23	26	5	66	310
873	C26 - 4	33	3	10	7	943	C28 - 24	25	5	49	260
874	C26 - 5	34	4	10	7	944	C28 - 25	39	6	45	22
875	C26 - 13	42	13	100	28	945	C28 - 26	37	6	42	15
876	C26 - 14	39	13	100	26	946	C28 - 27	30	4	38	18
877	C26 - 15	37	12	100	30	947	C28 - 28	28	4	40	14
878	C26 - 16	36	12	89	26	948	C28 - 29	30	4	41	13
879	C26 - 17	32	11	81	47	949	C28 - 30	33	6	51	18
880	C26 - 18	37	13	120	79	950	C28 - 31	21	3	28	60
881	C26 - 19	37	11	790	930	951	C28 - 32	28	5	32	16
882	C26 - 20	41	12	1300	370	952	C28 - 33	22	3	33	12
883	C26 - 21	38	14	300	190	953	C28 - 34	25	4	29	13
884	C26 - 22	31	6	57	79	954	C28 - 35	29	4	26	19
885	C26 - 23	30	4	81	150	955	C28 - 36	33	5	28	19
886	C26 - 24	26	5	760	4000	956	C28 - 37	29	4	26	18
887	C26 - 25	27	5	27	18	957	C29 - 1	54	17	130	71
888	C26 - 26	21	3	49	210	958	C29 - 2	35	5	12	9
889	C26 - 27	26	4	37	41	959	C29 - 3	36	4	13	9
890	C26 - 28	25	4	28	110	960	C29 - 4	36	3	13	10
891	C26 - 29	22	3	25	160	961	C29 - 12	62	20	130	53
892	C26 - 30	24	4	29	59	962	C29 - 13	52	16	140	56
893	C26 - 31	26	4	29	440	963	C29 - 14	73	19	210	100
894	C26 - 32	19	2	24	950	964	C29 - 15	53	10	140	190
895	C26 - 33	25	4	35	21	965	C29 - 16	61	15	150	130
896	C26 - 34	24	4	30	14	966	C29 - 17	68	22	230	310
897	C26 - 35	26	4	29	9	967	C29 - 18	37	7	70	69
898	C26 - 36	25	5	26	13	968	C29 - 19	24	3	20	20
899	C26 - 37	28	4	23	13	969	C29 - 20	44	10	94	53
900	C27 - 1	37	4	11	7	970	C29 - 21	34	5	35	44
901	C27 - 2	37	3	12	8	971	C29 - 22	32	3	35	72
902	C27 - 3	35	3	11	6	972	C29 - 23	33	5	51	160
903	C27 - 12	42	11	96	40	973	C29 - 24	25	5	59	470
904	C27 - 13	36	11	79	34	974	C29 - 25	25	4	39	66
905	C27 - 14	40	11	97	31	975	C29 - 26	32	5	37	16
906	C27 - 15	41	14	92	37	976	C29 - 27	26	4	30	16
907	C27 - 16	26	8	74	17	977	C29 - 28	26	4	37	15
908	C27 - 17	25	9	62	22	978	C29 - 29	27	4	35	12
909	C27 - 18	63	17	220	280	979	C29 - 30	28	4	34	18
910	C27 - 19	29	5	600	260	980	C29 - 31	18	3	21	35

***** Chemical analyses of geochemical samples (area C) *****

(8)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
981	C29 - 32	30	4	35	11	1051	C32 - 1	29	4	9	6
982	C29 - 33	30	4	31	16	1052	C32 - 2	31	3	9	6
983	C29 - 34	29	4	30	11	1053	C32 - 3	29	3	9	5
984	C29 - 35	26	3	21	10	1054	C32 - 4	26	2	8	4
985	C29 - 36	33	4	30	11	1055	C32 - 5	27	3	9	7
986	C29 - 37	33	4	27	14	1056	C32 - 11	30	5	33	22
987	C30 - 1	33	5	12	7	1057	C32 - 12	41	13	140	82
988	C30 - 2	32	3	11	7	1058	C32 - 13	59	17	160	170
989	C30 - 3	32	4	11	7	1059	C32 - 14	45	13	180	250
990	C30 - 4	34	3	10	8	1060	C32 - 15	41	9	93	91
991	C30 - 8	47	13	97	77	1061	C32 - 16	39	6	47	45
992	C30 - 9	51	16	110	74	1062	C32 - 17	36	5	34	30
993	C30 - 10	62	20	170	100	1063	C32 - 18	33	5	29	27
994	C30 - 11	60	19	250	210	1064	C32 - 20	29	5	24	23
995	C30 - 12	50	15	100	38	1065	C32 - 21	30	6	130	650
996	C30 - 13	56	17	130	57	1066	C32 - 22	32	7	190	1100
997	C30 - 14	69	21	130	110	1067	C32 - 23	33	9	220	2200
998	C30 - 15	48	11	150	100	1068	C32 - 24	27	5	38	48
999	C30 - 16	63	20	120	73	1069	C32 - 25	25	4	34	16
1000	C30 - 17	57	14	170	150	1070	C32 - 26	24	4	36	16
1001	C30 - 18	37	8	63	66	1071	C32 - 27	29	5	39	17
1002	C30 - 19	30	5	36	41	1072	C32 - 28	31	5	38	16
1003	C30 - 20	39	6	41	45	1073	C32 - 29	22	5	32	15
1004	C30 - 21	34	5	36	43	1074	C32 - 30	28	4	29	12
1005	C30 - 22	32	4	36	43	1075	C32 - 31	28	5	32	12
1006	C30 - 23	33	6	55	88	1076	C32 - 32	30	5	27	12
1007	C30 - 24	26	3	23	26	1077	C32 - 33	25	4	24	7
1008	C30 - 25	24	4	30	16	1078	C32 - 34	29	5	27	8
1009	C30 - 26	24	4	33	21	1079	C32 - 35	31	4	22	10
1010	C30 - 27	27	4	30	17	1080	C32 - 36	30	4	26	12
1011	C30 - 28	27	4	31	15	1081	C32 - 37	28	4	24	16
1012	C30 - 29	24	4	27	11	1082	C33 - 10	65	22	230	1700
1013	C30 - 30	17	3	25	14	1083	C33 - 11	36	12	60	32
1014	C30 - 31	24	4	31	14	1084	C33 - 12	35	11	74	26
1015	C30 - 32	29	5	32	10	1085	C33 - 13	41	7	59	48
1016	C30 - 33	32	5	35	12	1086	C33 - 18	31	5	48	90
1017	C30 - 34	28	5	30	10	1087	C33 - 19	37	6	55	65
1018	C30 - 35	28	4	27	11	1088	C33 - 20	31	5	54	73
1019	C30 - 36	29	4	23	11	1089	C33 - 21	26	5	110	380
1020	C30 - 37	28	3	27	18	1090	C33 - 22	41	7	1500	3600
1021	C31 - 1	30	3	9	5	1091	C33 - 23	30	6	54	100
1022	C31 - 2	28	3	8	6	1092	C33 - 24	28	4	36	78
1023	C31 - 3	28	4	10	6	1093	C33 - 25	25	4	33	14
1024	C31 - 4	27	3	10	7	1094	C33 - 26	25	4	32	11
1025	C31 - 5	24	3	8	5	1095	C33 - 27	22	4	31	14
1026	C31 - 8	55	19	99	61	1096	C33 - 28	21	4	31	16
1027	C31 - 9	59	21	110	66	1097	C33 - 29	20	4	34	13
1028	C31 - 10	49	17	110	99	1098	C33 - 30	26	5	28	11
1029	C31 - 11	58	18	220	200	1099	C33 - 31	23	5	34	13
1030	C31 - 12	61	19	130	150	1100	C33 - 32	27	4	28	9
1031	C31 - 13	56	15	100	60	1101	C33 - 33	28	4	24	13
1032	C31 - 14	71	20	130	73	1102	C33 - 34	25	3	26	9
1033	C31 - 15	46	12	85	63	1103	C33 - 35	28	4	26	10
1034	C31 - 16	60	22	63	17	1104	C33 - 36	34	5	22	7
1035	C31 - 20	28	4	33	29	1105	C33 - 37	30	4	24	12
1036	C31 - 21	30	5	38	40	1106	C34 - 10	45	14	57	42
1037	C31 - 24	25	4	35	32	1107	C34 - 11	47	16	69	32
1038	C31 - 25	27	4	35	35	1108	C34 - 12	44	13	64	34
1039	C31 - 26	27	5	41	23	1109	C34 - 13	85	20	130	110
1040	C31 - 27	28	5	47	16	1110	C34 - 17	32	5	46	55
1041	C31 - 28	26	3	32	14	1111	C34 - 18	28	4	46	67
1042	C31 - 29	24	4	28	11	1112	C34 - 19	36	7	62	48
1043	C31 - 30	22	4	27	14	1113	C34 - 20	26	5	48	58
1044	C31 - 31	25	4	35	11	1114	C34 - 21	23	5	45	23
1045	C31 - 32	28	5	32	11	1115	C34 - 22	24	6	53	36
1046	C31 - 33	25	4	32	9	1116	C34 - 23	22	4	45	50
1047	C31 - 34	29	4	25	13	1117	C34 - 24	26	4	32	30
1048	C31 - 35	23	4	27	10	1118	C34 - 25	29	4	40	20
1049	C31 - 36	25	3	19	19	1119	C34 - 26	23	3	39	21
1050	C31 - 37	34	5	23	23	1120	C34 - 27	21	3	28	10

***** Chemical analyses of geochemical samples (area C) *****

(9)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
1121	C34 - 28	23	3	29	12	1191	C37 - 19	25	5	43	62
1122	C34 - 29	14	3	26	11	1192	C37 - 20	27	5	41	43
1123	C34 - 30	24	4	39	15	1193	C37 - 21	25	4	35	72
1124	C34 - 31	24	4	31	12	1194	C37 - 22	26	4	39	70
1125	C34 - 32	27	5	36	13	1195	C37 - 23	25	4	35	30
1126	C34 - 33	31	4	29	13	1196	C37 - 24	24	4	33	31
1127	C34 - 34	32	5	28	13	1197	C37 - 25	26	5	39	150
1128	C34 - 35	32	5	27	14	1198	C37 - 26	27	5	36	170
1129	C34 - 36	31	4	23	16	1199	C37 - 27	26	5	34	55
1130	C34 - 37	27	5	24	14	1200	C37 - 28	20	4	30	35
1131	C35 - 10	47	15	120	52	1201	C37 - 29	23	5	33	19
1132	C35 - 11	42	14	95	43	1202	C37 - 30	23	5	36	16
1133	C35 - 12	38	13	100	33	1203	C37 - 31	20	4	42	10
1134	C35 - 13	60	21	150	46	1204	C37 - 32	23	4	31	14
1135	C35 - 16	24	4	38	45	1205	C37 - 33	26	4	33	19
1136	C35 - 17	35	8	39	49	1206	C37 - 34	23	3	23	9
1137	C35 - 18	29	5	51	55	1207	C37 - 35	29	4	21	13
1138	C35 - 19	29	6	85	35	1208	C37 - 36	25	4	22	15
1139	C35 - 20	24	4	43	29	1209	C37 - 37	34	4	27	17
1140	C35 - 21	27	5	50	57	1210	C38 - 7	55	17	120	52
1141	C35 - 22	32	7	58	59	1211	C38 - 8	63	21	140	53
1142	C35 - 23	27	5	41	33	1212	C38 - 9	63	23	140	43
1143	C35 - 24	27	4	38	41	1213	C38 - 10	67	25	140	62
1144	C35 - 25	28	4	42	110	1214	C38 - 11	55	19	150	47
1145	C35 - 26	30	5	41	32	1215	C38 - 12	51	16	120	45
1146	C35 - 27	23	3	34	10	1216	C38 - 13	45	13	83	52
1147	C35 - 28	22	4	31	11	1217	C38 - 14	49	12	92	43
1148	C35 - 29	21	4	34	16	1218	C38 - 17	28	3	240	620
1149	C35 - 30	21	4	32	10	1219	C38 - 18	35	6	99	300
1150	C35 - 31	25	5	36	14	1220	C38 - 19	42	7	53	77
1151	C35 - 32	23	4	24	12	1221	C38 - 20	29	5	46	40
1152	C35 - 33	26	4	29	9	1222	C38 - 21	35	9	90	38
1153	C35 - 34	20	3	27	12	1223	C38 - 22	27	4	40	23
1154	C35 - 35	29	4	22	11	1224	C38 - 23	29	5	44	29
1155	C35 - 36	28	4	25	15	1225	C38 - 24	30	6	41	69
1156	C35 - 37	27	4	22	15	1226	C38 - 25	30	7	46	83
1157	C36 - 8	44	13	90	42	1227	C38 - 26	26	5	36	75
1158	C36 - 9	43	12	88	39	1228	C38 - 27	27	5	32	30
1159	C36 - 10	45	14	100	40	1229	C38 - 28	23	5	39	17
1160	C36 - 11	46	15	120	53	1230	C38 - 29	27	6	38	19
1161	C36 - 12	39	14	110	44	1231	C38 - 30	22	5	30	15
1162	C36 - 13	36	11	86	31	1232	C38 - 31	23	5	30	11
1163	C36 - 18	28	5	31	43	1233	C38 - 32	25	5	33	12
1164	C36 - 19	27	5	44	50	1234	C38 - 33	24	4	33	15
1165	C36 - 20	27	6	46	26	1235	C38 - 34	26	4	25	17
1166	C36 - 21	16	4	35	28	1236	C38 - 35	29	4	23	27
1167	C36 - 22	21	4	50	43	1237	C38 - 36	36	5	26	27
1168	C36 - 23	25	4	34	32	1238	C38 - 37	32	4	25	21
1169	C36 - 24	23	4	33	26	1239	C39 - 7	64	23	110	45
1170	C36 - 25	24	4	38	35	1240	C39 - 8	62	22	140	51
1171	C36 - 26	23	3	35	80	1241	C39 - 9	59	21	140	49
1172	C36 - 27	24	3	34	53	1242	C39 - 10	61	22	160	51
1173	C36 - 28	24	4	32	18	1243	C39 - 11	59	24	140	52
1174	C36 - 29	21	4	30	12	1244	C39 - 12	57	24	130	57
1175	C36 - 30	16	4	29	10	1245	C39 - 13	53	18	110	43
1176	C36 - 31	22	5	35	11	1246	C39 - 14	64	18	67	47
1177	C36 - 32	34	6	49	13	1247	C39 - 17	21	4	40	20
1178	C36 - 33	34	5	33	15	1248	C39 - 18	36	6	41	33
1179	C36 - 34	31	4	27	8	1249	C39 - 19	28	5	38	33
1180	C36 - 35	31	5	24	10	1250	C39 - 20	27	5	43	43
1181	C36 - 36	31	4	29	24	1251	C39 - 21	28	5	40	38
1182	C36 - 37	26	3	24	15	1252	C39 - 22	23	4	40	21
1183	C37 - 7	41	11	86	36	1253	C39 - 23	22	4	38	27
1184	C37 - 8	52	17	110	38	1254	C39 - 24	25	5	42	73
1185	C37 - 9	50	16	110	47	1255	C39 - 25	22	5	40	100
1186	C37 - 10	62	22	130	63	1256	C39 - 26	24	4	32	54
1187	C37 - 11	55	21	140	43	1257	C39 - 27	22	4	26	19
1188	C37 - 12	46	15	110	33	1258	C39 - 28	22	4	30	15
1189	C37 - 13	21	8	65	41	1259	C39 - 29	23	5	31	15
1190	C37 - 18	32	6	200	620	1260	C39 - 30	25	5	30	12

***** Chemical analyses of geochemical samples (area C) *****

(10)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
1261	C39 - 31	26	5	31	12	1331	C42 - 9	64	25	180	64
1262	C39 - 32	27	3	21	16	1332	C42 - 10	88	24	150	120
1263	C39 - 33	26	4	23	14	1333	C42 - 11	36	6	54	75
1264	C39 - 34	27	4	22	16	1334	C42 - 12	43	9	55	55
1265	C39 - 35	33	4	31	17	1335	C42 - 13	42	10	59	52
1266	C39 - 36	31	4	23	22	1336	C42 - 14	35	6	51	62
1267	C39 - 37	33	4	26	16	1337	C42 - 15	33	8	63	35
1268	C40 - 6	72	23	130	60	1338	C42 - 16	38	10	71	34
1269	C40 - 7	72	29	160	65	1339	C42 - 17	37	10	71	32
1270	C40 - 8	57	19	120	56	1340	C42 - 18	34	8	55	38
1271	C40 - 9	70	25	160	67	1341	C42 - 19	27	5	41	32
1272	C40 - 10	53	18	110	60	1342	C42 - 20	18	4	31	15
1273	C40 - 11	69	22	130	75	1343	C42 - 21	21	4	34	23
1274	C40 - 12	59	23	130	61	1344	C42 - 22	21	4	32	18
1275	C40 - 13	68	18	120	74	1345	C42 - 23	24	3	30	24
1276	C40 - 14	56	14	80	64	1346	C42 - 24	25	4	37	21
1277	C40 - 18	27	4	25	18	1347	C42 - 25	20	3	23	40
1278	C40 - 19	26	5	40	39	1348	C42 - 26	25	4	29	30
1279	C40 - 20	21	4	34	19	1349	C42 - 27	25	5	35	18
1280	C40 - 21	18	4	37	13	1350	C42 - 28	25	4	30	14
1281	C40 - 22	23	4	35	15	1351	C42 - 29	25	4	31	15
1282	C40 - 23	26	4	36	63	1352	C42 - 30	26	4	26	14
1283	C40 - 24	35	12	95	24	1353	C42 - 31	25	4	24	10
1284	C40 - 25	30	7	39	85	1354	C42 - 32	25	3	23	9
1285	C40 - 26	24	3	20	14	1355	C42 - 33	24	4	25	17
1286	C40 - 27	30	5	33	26	1356	C42 - 34	39	5	29	16
1287	C40 - 28	23	4	32	16	1357	C42 - 35	39	5	31	15
1288	C40 - 29	27	4	23	16	1358	C42 - 36	28	4	23	17
1289	C40 - 30	31	5	28	13	1359	C42 - 37	32	4	21	22
1290	C40 - 31	31	5	29	13	1360	C43 - 6	32	6	38	62
1291	C40 - 32	29	4	24	15	1361	C43 - 7	33	7	52	230
1292	C40 - 33	30	4	23	14	1362	C43 - 8	38	11	170	1200
1293	C40 - 34	31	4	24	16	1363	C43 - 9	55	17	130	85
1294	C40 - 35	31	4	22	13	1364	C43 - 10	48	12	140	500
1295	C40 - 36	33	4	22	18	1365	C43 - 11	45	9	73	120
1296	C40 - 37	32	4	23	14	1366	C43 - 12	47	9	110	770
1297	C41 - 5	71	23	120	62	1367	C43 - 14	32	5	54	58
1298	C41 - 6	91	28	150	81	1368	C43 - 15	27	5	33	27
1299	C41 - 7	110	32	170	97	1369	C43 - 16	29	7	65	19
1300	C41 - 8	80	29	180	79	1370	C43 - 17	32	8	68	18
1301	C41 - 9	68	26	170	59	1371	C43 - 18	30	7	55	22
1302	C41 - 10	95	31	160	100	1372	C43 - 19	23	4	35	20
1303	C41 - 11	63	20	170	220	1373	C43 - 20	26	5	39	27
1304	C41 - 12	39	9	53	32	1374	C43 - 21	23	4	40	16
1305	C41 - 13	47	13	67	59	1375	C43 - 22	26	4	49	32
1306	C41 - 14	40	7	39	30	1376	C43 - 23	21	4	36	20
1307	C41 - 17	65	19	120	140	1377	C43 - 24	26	4	32	17
1308	C41 - 18	32	7	48	34	1378	C43 - 25	27	4	35	22
1309	C41 - 19	28	6	42	30	1379	C43 - 26	28	6	41	17
1310	C41 - 20	25	3	23	18	1380	C43 - 27	22	3	21	34
1311	C41 - 21	27	5	40	29	1381	C43 - 28	27	4	29	13
1312	C41 - 22	25	5	39	39	1382	C43 - 29	26	4	25	10
1313	C41 - 23	22	4	37	59	1383	C43 - 30	19	3	27	10
1314	C41 - 24	31	6	41	55	1384	C43 - 31	23	3	28	10
1315	C41 - 25	30	5	36	18	1385	C43 - 32	28	4	22	14
1316	C41 - 26	27	5	30	120	1386	C43 - 33	30	4	19	14
1317	C41 - 27	21	4	36	21	1387	C43 - 34	22	3	21	23
1318	C41 - 28	23	4	32	35	1388	C43 - 35	30	4	21	21
1319	C41 - 29	26	5	40	22	1389	C43 - 36	28	4	21	13
1320	C41 - 30	27	5	31	13	1390	C43 - 37	22	3	24	8
1321	C41 - 31	35	6	30	16	1391	C44 - 6	38	6	29	29
1322	C41 - 32	29	5	29	16	1392	C44 - 7	42	8	41	41
1323	C41 - 33	34	5	26	16	1393	C44 - 8	41	8	49	100
1324	C41 - 34	36	5	29	14	1394	C44 - 9	40	6	36	79
1325	C41 - 35	28	4	24	14	1395	C44 - 10	49	9	62	310
1326	C41 - 36	29	5	21	9	1396	C44 - 11	40	9	69	79
1327	C41 - 37	35	5	30	19	1397	C44 - 12	34	5	33	45
1328	C42 - 6	73	23	140	57	1398	C44 - 15	28	4	29	34
1329	C42 - 7	87	28	180	73	1399	C44 - 16	30	6	40	22
1330	C42 - 8	61	25	160	63	1400	C44 - 17	25	5	32	21

***** Chemical analyses of geochemical samples (area C) *****

(11)

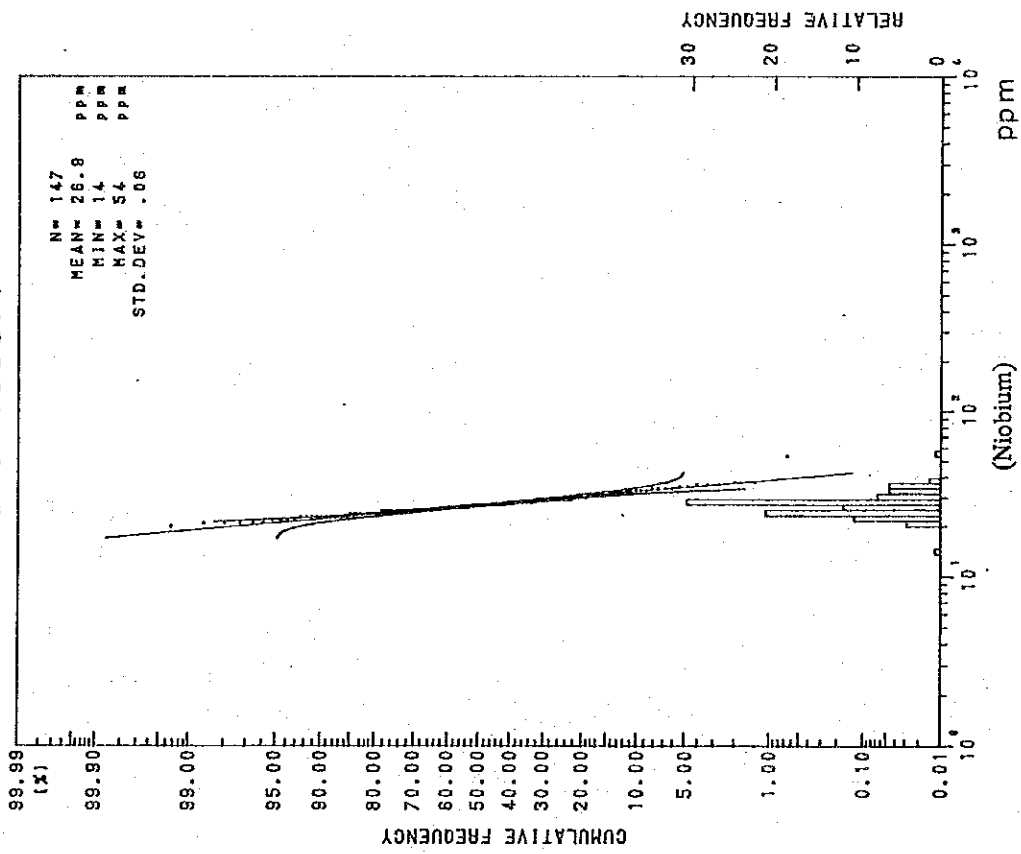
No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
1401	C44 - 18	23	5	38	28	1471	C46 - 32	32	4	23	25
1402	C44 - 19	18	4	32	26	1472	C46 - 33	31	3	23	18
1403	C44 - 20	19	4	26	20	1473	C46 - 34	27	3	18	18
1404	C44 - 21	20	4	37	26	1474	C46 - 35	28	3	20	26
1405	C44 - 22	23	4	29	37	1475	C46 - 36	27	4	23	18
1406	C44 - 23	23	4	31	28	1476	C46 - 37	30	4	25	12
1407	C44 - 24	21	4	28	40	1477	C47 - 3	33	5	25	20
1408	C44 - 25	21	4	30	230	1478	C47 - 4	29	4	22	17
1409	C44 - 26	25	6	36	17	1479	C47 - 5	30	4	37	16
1410	C44 - 27	21	5	29	14	1480	C47 - 6	35	5	32	18
1411	C44 - 28	22	4	26	14	1481	C47 - 7	32	3	22	16
1412	C44 - 29	27	5	30	15	1482	C47 - 8	30	4	23	19
1413	C44 - 30	23	5	37	18	1483	C47 - 9	36	5	28	25
1414	C44 - 31	23	5	33	13	1484	C47 - 10	33	4	31	46
1415	C44 - 32	20	3	23	9	1485	C47 - 11	38	5	29	26
1416	C44 - 33	24	3	19	24	1486	C47 - 12	83	16	83	77
1417	C44 - 34	28	3	23	19	1487	C47 - 13	31	7	51	29
1418	C44 - 35	27	3	16	15	1488	C47 - 14	28	7	59	23
1419	C44 - 36	29	4	20	16	1489	C47 - 15	25	6	45	19
1420	C44 - 37	28	3	22	13	1490	C47 - 16	26	5	38	42
1421	C45 - 11	32	4	32	47	1491	C47 - 17	26	5	44	21
1422	C45 - 12	28	4	23	25	1492	C47 - 18	29	6	51	22
1423	C45 - 13	30	4	23	21	1493	C47 - 19	26	5	45	33
1424	C45 - 14	33	8	59	73	1494	C47 - 20	20	4	29	22
1425	C45 - 15	27	5	46	24	1495	C47 - 21	18	4	34	20
1426	C45 - 16	24	4	39	74	1496	C47 - 22	24	5	31	15
1427	C45 - 17	29	5	38	23	1497	C47 - 23	27	6	30	20
1428	C45 - 18	27	3	22	23	1498	C47 - 24	30	4	22	19
1429	C45 - 19	25	3	19	16	1499	C47 - 25	26	3	26	15
1430	C45 - 21	29	4	26	16	1500	C47 - 26	24	3	18	14
1431	C45 - 22	21	5	28	12	1501	C47 - 27	28	4	21	12
1432	C45 - 23	22	2	18	14	1502	C47 - 28	22	3	15	14
1433	C45 - 24	20	3	26	9	1503	C47 - 29	26	3	16	10
1434	C45 - 25	19	4	24	14	1504	C47 - 30	30	4	21	11
1435	C45 - 26	17	3	19	15	1505	C47 - 31	28	4	19	9
1436	C45 - 27	27	4	20	23	1506	C47 - 32	30	4	20	29
1437	C45 - 28	24	3	20	25	1507	C47 - 33	33	4	23	36
1438	C45 - 29	31	4	24	19	1508	C47 - 34	35	5	27	22
1439	C45 - 30	31	4	25	19	1509	C47 - 35	33	4	19	15
1440	C45 - 31	29	4	19	16	1510	C47 - 36	36	5	26	15
1441	C45 - 32	29	3	17	14	1511	C47 - 37	37	6	22	17
1442	C45 - 33	32	4	20	17	1512	C48 - 2	31	4	22	17
1443	C45 - 34	30	4	18	13	1513	C48 - 3	33	4	24	18
1444	C45 - 35	27	3	19	17	1514	C48 - 4	33	4	24	20
1445	C45 - 36	28	4	22	29	1515	C48 - 5	29	4	22	19
1446	C45 - 37	33	4	29	11	1516	C48 - 6	15	2	16	7
1447	C46 - 3	36	4	27	20	1517	C48 - 7	30	4	22	20
1448	C46 - 4	37	4	26	19	1518	C48 - 8	27	3	19	19
1449	C46 - 5	34	4	33	22	1519	C48 - 9	32	4	25	28
1450	C46 - 6	25	2	17	25	1520	C48 - 10	33	5	25	25
1451	C46 - 7	29	3	20	32	1521	C48 - 11	36	5	29	33
1452	C46 - 8	33	4	34	39	1522	C48 - 12	33	5	24	87
1453	C46 - 14	29	6	53	20	1523	C48 - 13	31	7	52	26
1454	C46 - 15	14	3	34	37	1524	C48 - 14	30	8	57	34
1455	C46 - 16	28	4	35	19	1525	C48 - 15	27	6	41	21
1456	C46 - 17	27	4	41	31	1526	C48 - 16	26	5	37	21
1457	C46 - 18	25	4	36	27	1527	C48 - 17	18	3	59	14
1458	C46 - 19	27	4	38	25	1528	C48 - 18	23	4	34	17
1459	C46 - 20	28	4	37	26	1529	C48 - 19	17	4	33	14
1460	C46 - 21	24	4	32	19	1530	C48 - 20	13	2	15	15
1461	C46 - 22	25	3	22	13	1531	C48 - 21	18	4	30	18
1462	C46 - 23	29	4	25	27	1532	C48 - 22	23	4	28	12
1463	C46 - 24	27	3	27	20	1533	C48 - 23	24	2	18	11
1464	C46 - 25	23	5	83	290	1534	C48 - 24	30	4	26	8
1465	C46 - 26	22	3	24	24	1535	C48 - 25	27	3	21	7
1466	C46 - 27	29	3	24	17	1536	C48 - 26	34	4	20	13
1467	C46 - 28	26	3	21	21	1537	C48 - 27	28	3	24	17
1468	C46 - 29	32	4	22	12	1538	C48 - 28	32	5	19	12
1469	C46 - 30	33	4	29	27	1539	C48 - 29	23	4	18	13
1470	C46 - 31	28	4	19	12	1540	C48 - 30	23	3	17	11

***** Chemical analyses of geochemical samples (area C) *****

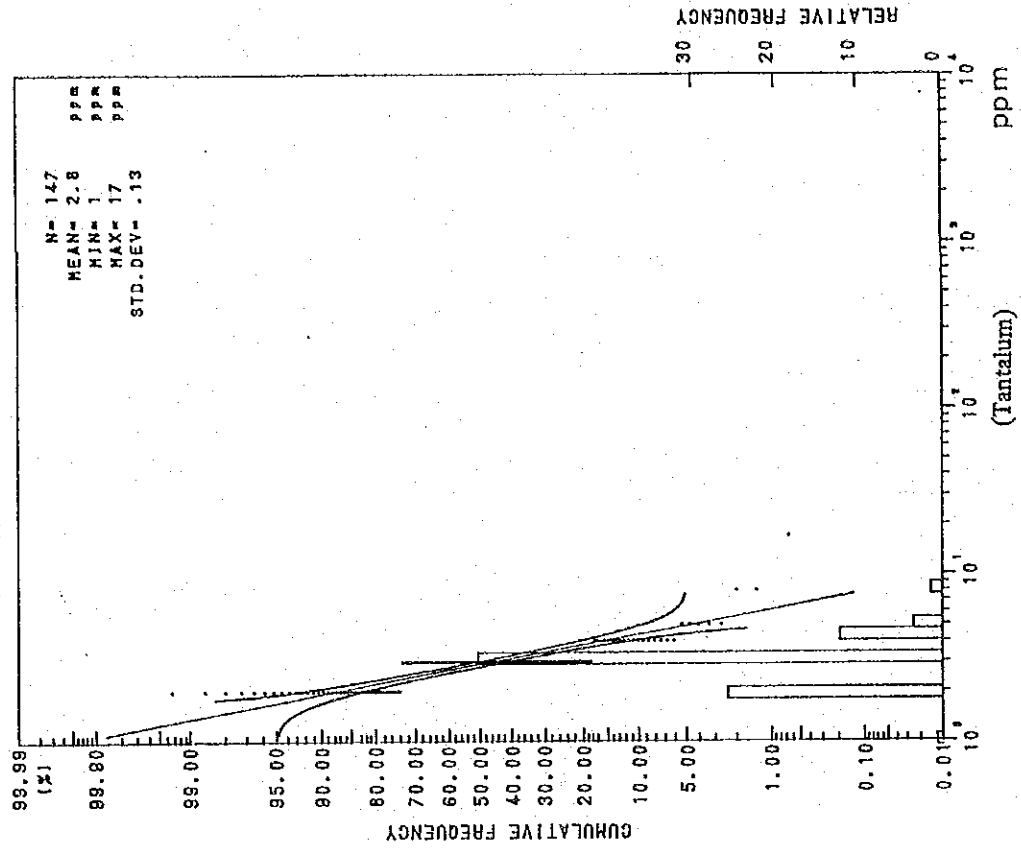
(12)

No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm	No.	Sample No.	Nb ppm	Ta ppm	Sn ppm	W ppm
1541	C48 - 31	34	5	27	44	1611	C50 - 27	31	5	31	18
1542	C48 - 32	33	5	21	13	1612	C50 - 28	32	5	24	16
1543	C48 - 33	25	3	21	33	1613	C50 - 29	35	5	20	11
1544	C48 - 34	33	4	26	18	1614	C50 - 30	33	4	23	29
1545	C48 - 35	34	5	33	34	1615	C50 - 31	29	4	21	50
1546	C48 - 36	29	4	23	11	1616	C50 - 32	20	3	12	18
1547	C48 - 37	31	6	27	11	1617	C50 - 33	32	4	19	18
1548	C49 - 1	28	4	20	14	1618	C50 - 34	33	5	24	19
1549	C49 - 2	25	4	19	12	1619	C50 - 35	29	4	21	35
1550	C49 - 3	26	4	25	13	1620	C50 - 36	26	3	18	26
1551	C49 - 4	24	4	25	14	1621	C50 - 37	30	4	22	27
1552	C49 - 5	27	3	23	21	1622	C51 - 1	19	2	8	5
1553	C49 - 6	27	3	19	14	1623	C51 - 2	31	4	44	12
1554	C49 - 7	33	4	23	17	1624	C51 - 3	29	3	30	11
1555	C49 - 8	24	4	17	16	1625	C51 - 4	28	4	34	14
1556	C49 - 9	28	4	29	34	1626	C51 - 5	28	3	20	17
1557	C49 - 10	41	6	34	43	1627	C51 - 6	23	2	14	13
1558	C49 - 11	37	6	39	77	1628	C51 - 7	24	3	14	34
1559	C49 - 12	27	6	73	170	1629	C51 - 8	32	4	23	32
1560	C49 - 13	28	7	44	33	1630	C51 - 9	34	4	30	34
1561	C49 - 14	28	5	37	32	1631	C51 - 10	34	4	29	24
1562	C49 - 15	25	4	37	33	1632	C51 - 11	36	4	26	28
1563	C49 - 16	28	5	43	36	1633	C51 - 12	27	3	20	23
1564	C49 - 17	32	5	42	18	1634	C51 - 13	30	7	47	24
1565	C49 - 18	21	4	37	25	1635	C51 - 14	34	8	55	32
1566	C49 - 19	16	3	30	9	1636	C51 - 15	29	6	49	34
1567	C49 - 20	18	4	32	11	1637	C51 - 16	19	4	31	85
1568	C49 - 21	20	4	28	10	1638	C51 - 17	24	7	33	15
1569	C49 - 22	23	3	22	9	1639	C51 - 18	30	6	36	25
1570	C49 - 23	28	4	23	7	1640	C51 - 19	31	7	47	20
1571	C49 - 24	27	4	19	8	1641	C51 - 20	26	6	34	19
1572	C49 - 25	26	3	15	10	1642	C51 - 21	27	5	35	14
1573	C49 - 26	36	5	21	15	1643	C51 - 22	31	5	32	13
1574	C49 - 27	42	6	24	13	1644	C51 - 23	33	5	29	20
1575	C49 - 28	35	5	23	16	1645	C51 - 24	25	3	18	10
1576	C49 - 29	34	4	21	17	1646	C51 - 25	34	5	22	10
1577	C49 - 30	31	4	19	17	1647	C51 - 26	35	5	21	9
1578	C49 - 31	27	4	16	14	1648	C51 - 27	37	4	19	8
1579	C49 - 32	36	5	30	16	1649	C51 - 28	41	5	25	13
1580	C49 - 33	24	4	16	11	1650	C51 - 29	35	4	26	17
1581	C49 - 34	24	3	16	14	1651	C51 - 30	25	4	17	8
1582	C49 - 35	20	3	16	160	1652	C51 - 31	37	5	27	69
1583	C49 - 36	30	4	21	12	1653	C51 - 32	26	3	16	31
1584	C49 - 37	28	4	23	73	1654	C51 - 33	38	5	24	50
1585	C50 - 1	30	3	29	18	1655	C51 - 34	33	4	22	25
1586	C50 - 2	31	3	35	49	1656	C51 - 35	30	4	19	24
1587	C50 - 3	31	4	44	18	1657	C51 - 36	33	4	21	28
1588	C50 - 4	30	3	40	15	1658	C51 - 37	35	4	18	130
1589	C50 - 5	27	4	41	11						
1590	C50 - 6	28	4	22	22						
1591	C50 - 7	29	5	25	25						
1592	C50 - 8	29	4	22	18						
1593	C50 - 9	26	3	19	18						
1594	C50 - 10	38	5	32	38						
1595	C50 - 11	34	6	34	110						
1596	C50 - 12	27	6	77	430						
1597	C50 - 13	32	8	54	29						
1598	C50 - 14	28	7	55	19						
1599	C50 - 15	21	4	38	54						
1600	C50 - 16	23	4	39	39						
1601	C50 - 17	29	6	63	49						
1602	C50 - 18	21	6	64	64						
1603	C50 - 19	22	7	50	9						
1604	C50 - 20	20	5	37	18						
1605	C50 - 21	16	4	24	6						
1606	C50 - 22	20	4	30	6						
1607	C50 - 23	18	3	18	7						
1608	C50 - 24	28	4	16	10						
1609	C50 - 25	24	3	13	8						
1610	C50 - 26	33	6	21	16						

**** Area C (sed.) ****

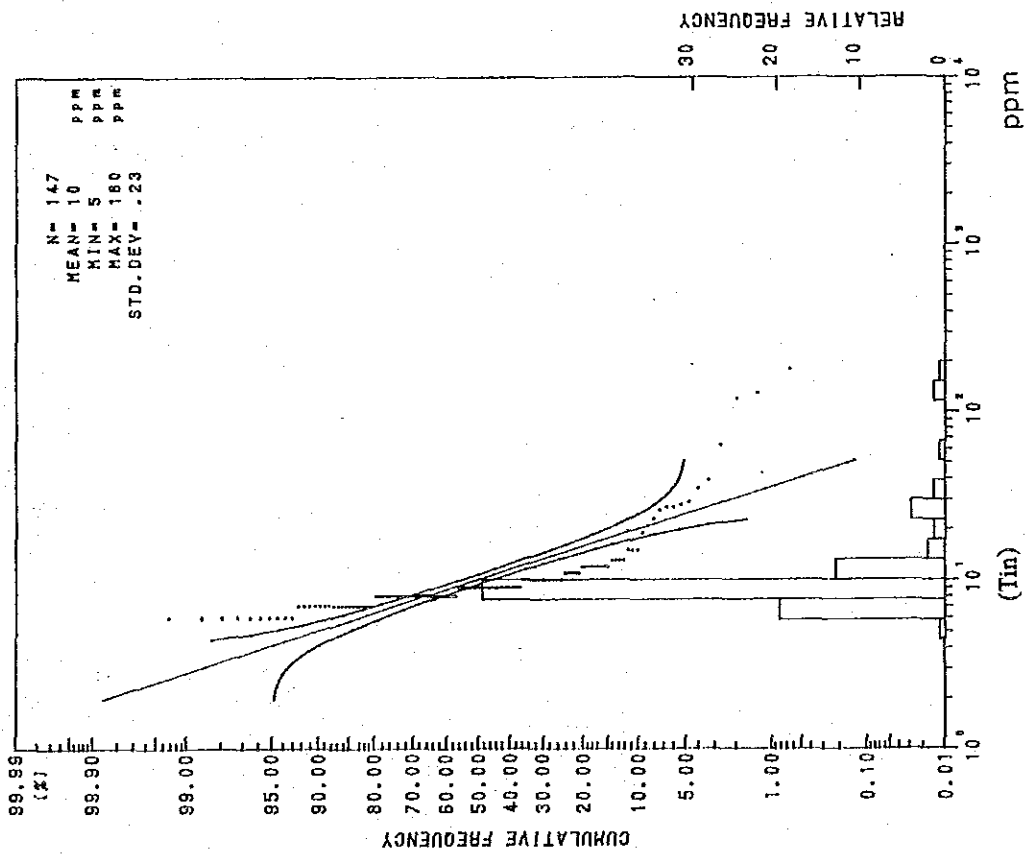


**** Area C (sed.) ****

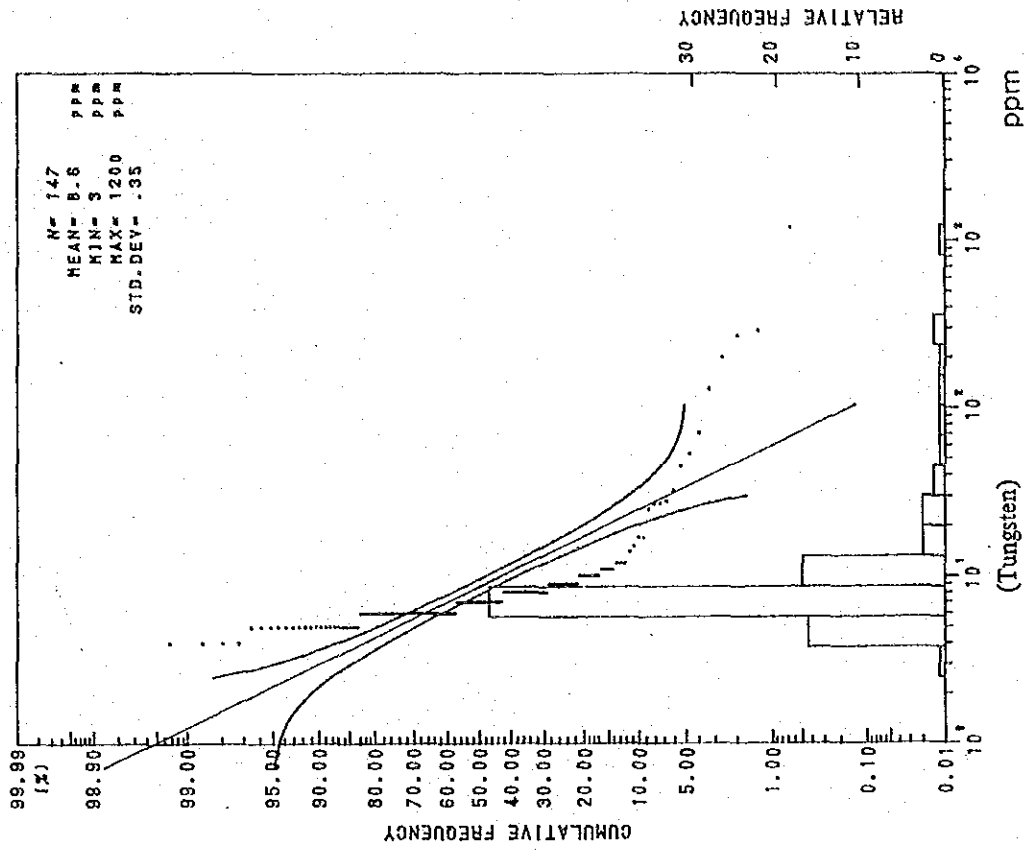


Appendix 13 Relative frequency and cumulative frequency histogram
(Sedimentary rock area, Area C) (1)

*** Area C (sed.) ***



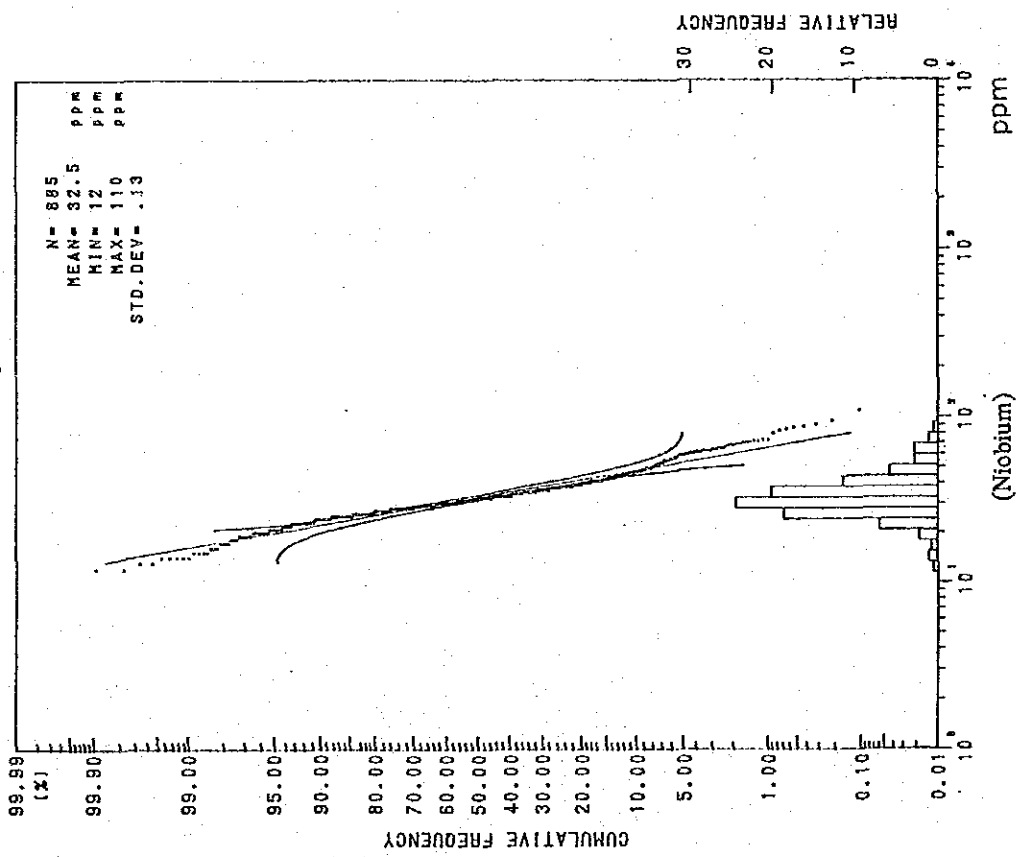
*** Area C (sed.) ***



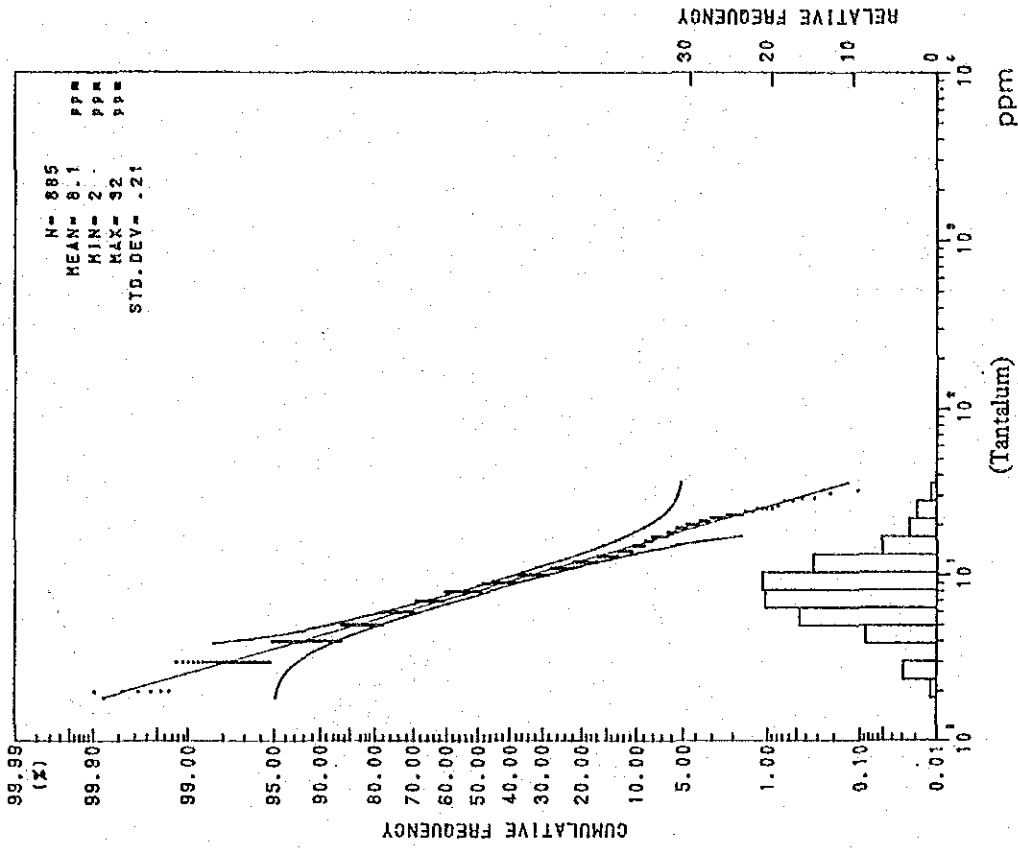
Appendix 14 Relative frequency and cumulative frequency histogram

(Sedimentary rock area, Area C) (2)

*** two mica gr. ***

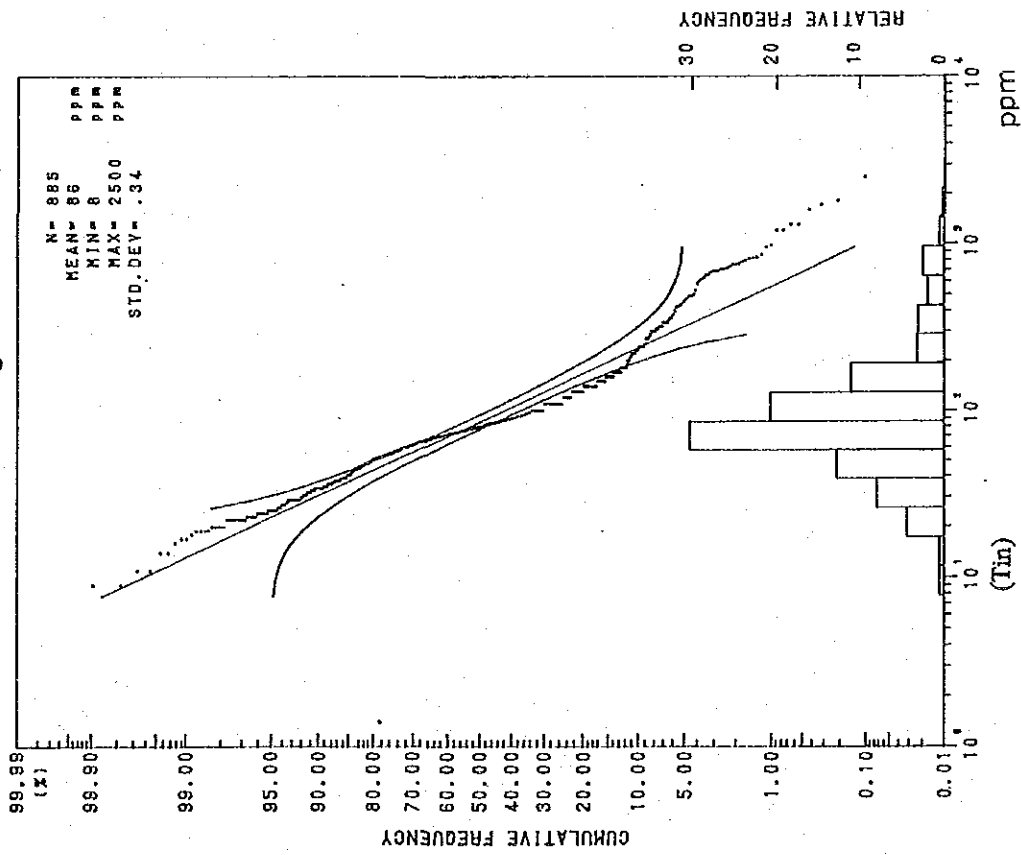


*** two mica gr. ***

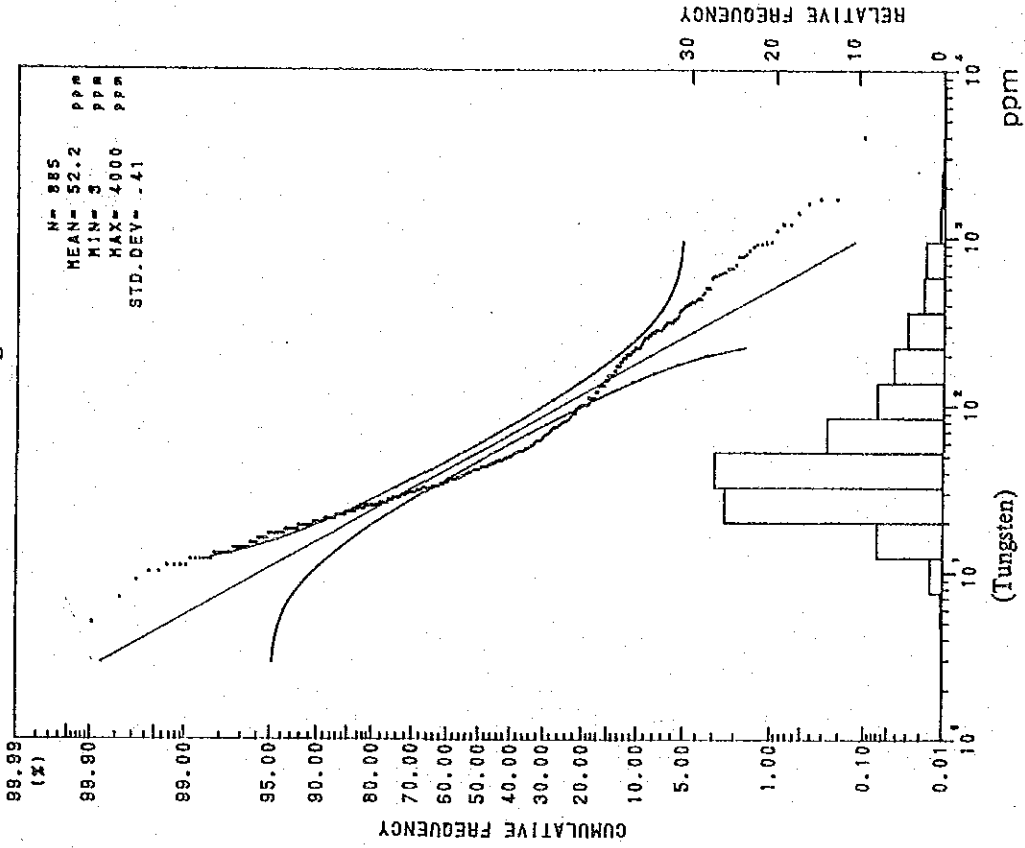


Appendix 15 Relative frequency and cumulative frequency histogram
(Two mica granite area, Area C) (1)

*** two mica gr. ***



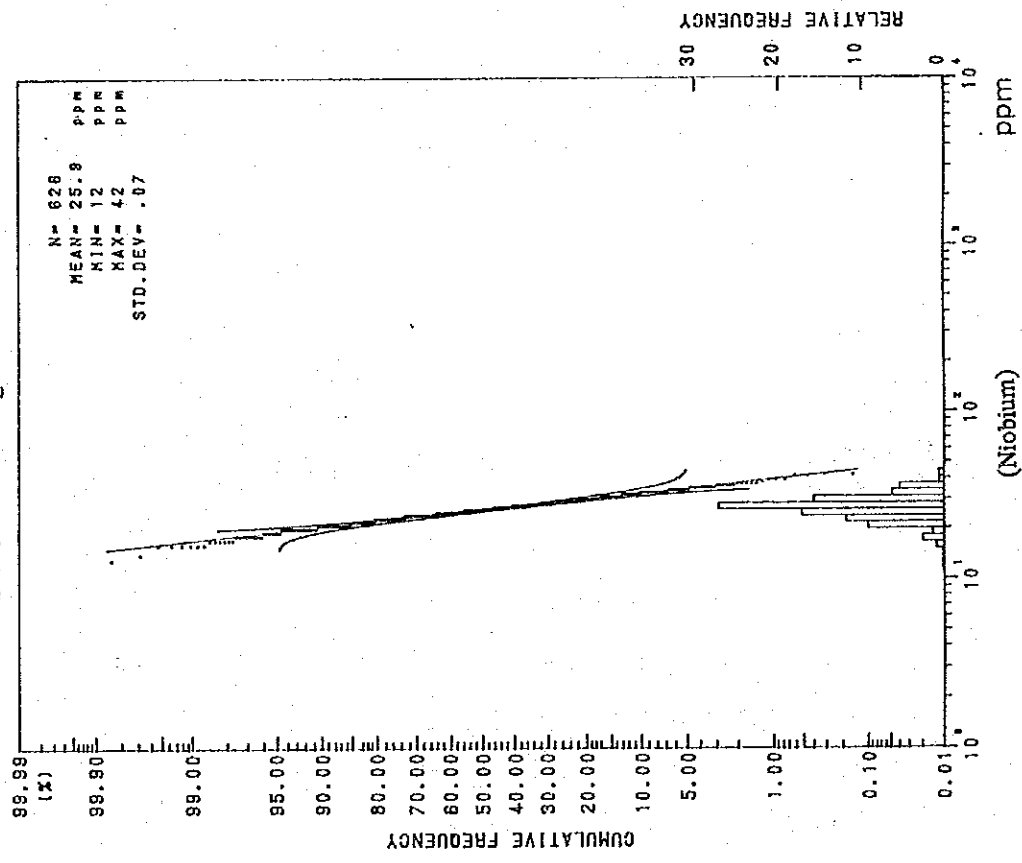
*** two mica gr. ***



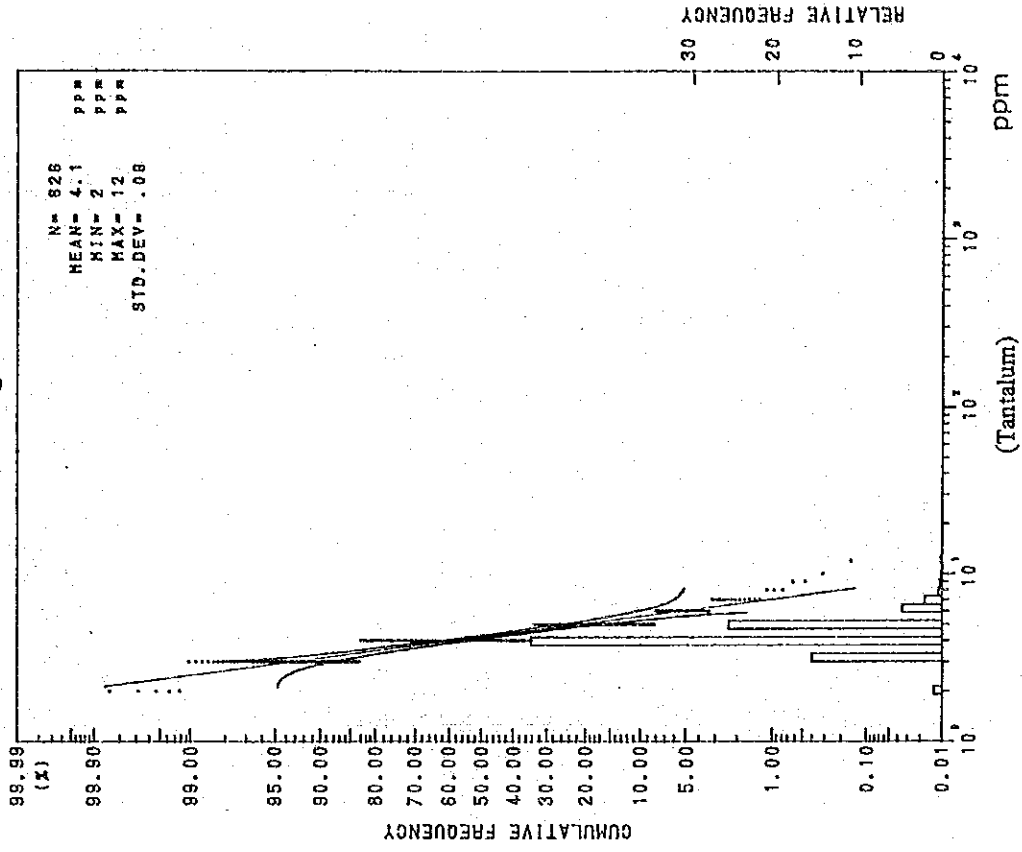
Appendix 16 Relative frequency and cumulative frequency histogram

(Two mica granite area, Area C) (2)

*** biotite gr. ***

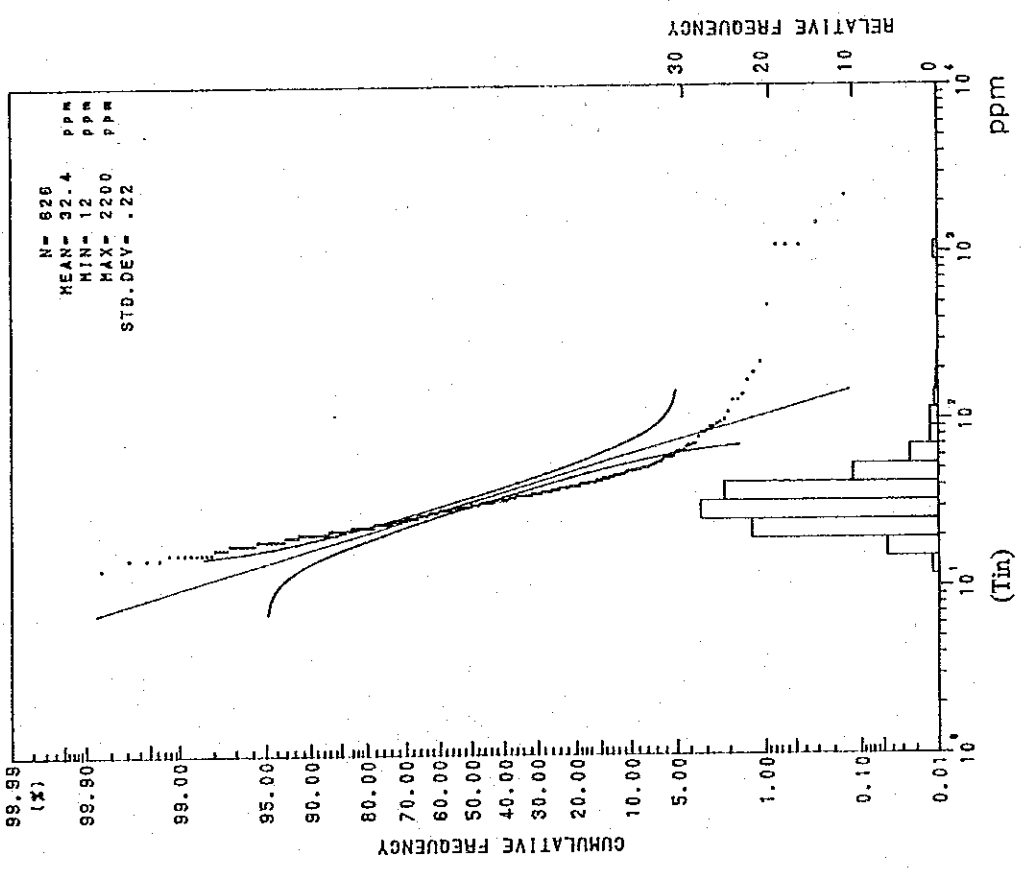


*** biotite gr. ***

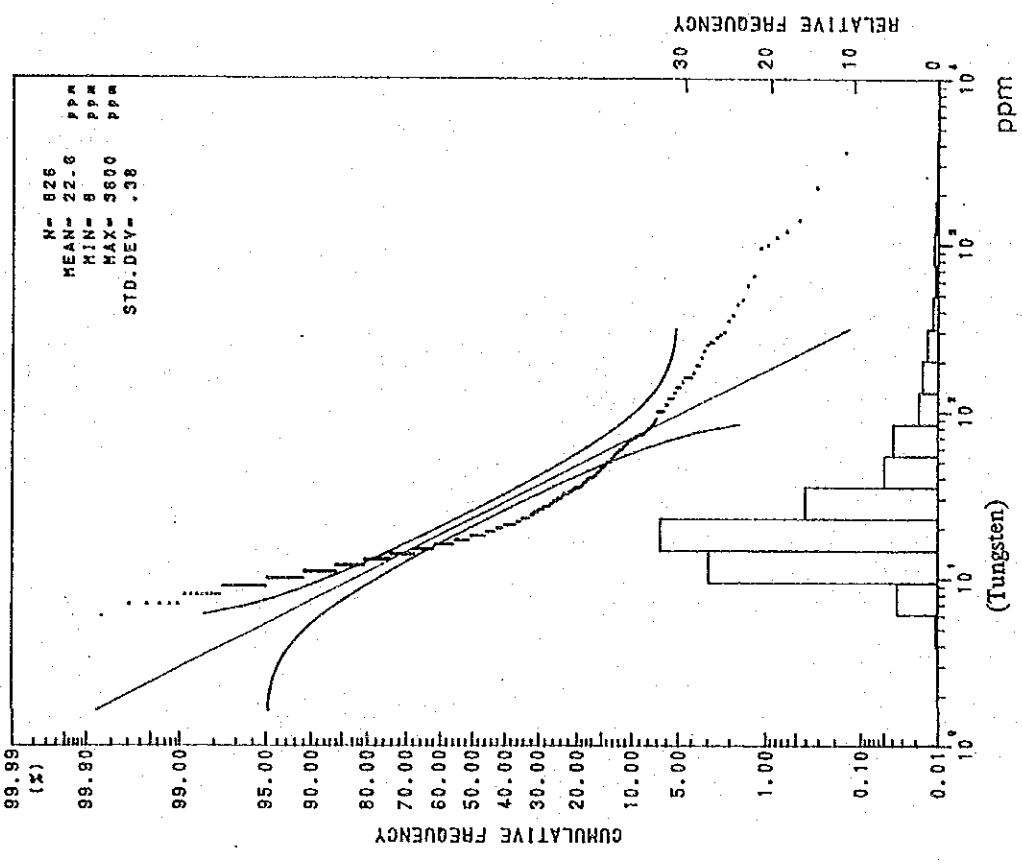


Appendix 17 Relative frequency and cumulative frequency histogram
(Biotite granite area, Area C) (1)

**** biotite gr. ****



**** biotite gr. ****



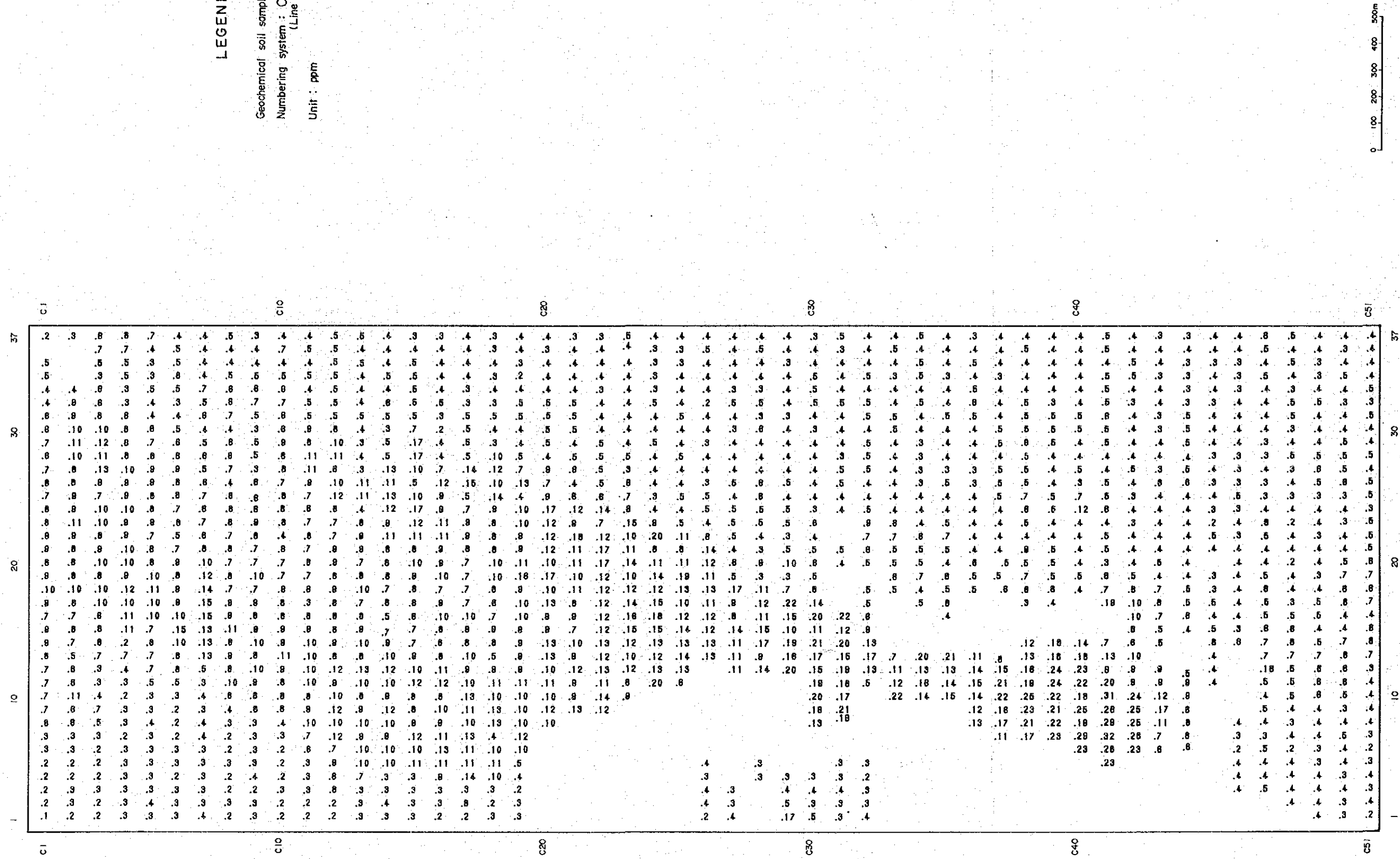
Appendix 18 Relative frequency and cumulative frequency histogram

(Biotite granite area, Area C) (2)

LEGEND

Geochemical soil sample
 Numbering system : C9-6
 (Line no.)(Point no.)

Unit : ppm



Appendix 20 Ta content distribution map (Area C)

