



52E01NE0003 OP92-089 PHILLIPS

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**1992 OPAP REPORT**

Ministry of Mines  
**RECEIVED**

**JAN 29 1993**

Sudbury District  
Mines & Minerals Division

**Wayne Edward Holmstead**

**January 25, 1993**

## INTRODUCTION

The 1992 OPAP Grant was divided between three project areas.

- 1) **Kakagi Lake Property, District of Kenora**  
This project was done in conjunction with Bill McNerney and my portion of the project consisted of blasting and sampling a portion of one of the known gold bearing quartz veins on the property.
- 2) **Kaladar Township Property, Southeastern Ontario**  
This project was a continuation of the 1991 OPAP project that consisted of a soil geochemistry survey on the property. The 1992 work consisted of soil anomaly follow-up and bedrock sampling some of the anomalies detected in the 1991 survey. This project was done in conjunction with Winfried Brack.
- 3) **Clarendon Township or Ardoch Property, Southeastern Ontario**  
This project was the largest of the three and consisted of a soil geochemical survey in the vicinity of the Boerth Gold Mine. This project was done in conjunction with Winfried Brack although two separate project areas were chosen on the property.

## KAKAGI LAKE PROPERTY

**CO-WORKERS WITH OPAP:** Bill McNerney

**LOCATION AND ACCESS:** Phillips Township (G1353)  
Kenora Mining Division  
NTS 52E/1 NE  
Latitude: 49 15', Longitude: 94 00'

The central portion of the claims may be reached by boat along the west arm of Kakagi Lake (Figure 1). Boat launching is available at the government dock on Highway 71. A road from Highway 71 reaches the southwest end of Youngs Bay.

**CHANGES TO PROPOSED PROJECT:** This project was shortened so that more money could be allocated to the Clarendon Township property.

**GEOLOGY:** The property is underlain by highly altered and tightly folded mafic volcanic flows which are comprised mainly of pillow basalts. These are overlain by a mixed sequence of both intermediate-mafic flows (andesites) and intermediate-felsic flows (tuffs, agglomerates and pyroclastics). Numerous quartz veins and quartz porphyry dikes, trending northeast and northwest, cut the mafic and felsic volcanic units. All of the units are cut by northwest trending diabase dikes. There are four quartz veins in mafic volcanic rocks known on the property that contain gold.

**WORK DONE:** June 9 and 15 were spent by the author on the property with Bill McNerney. On these two days we stripped Vein 1 by hand and water pump and blasted four rock samples (K19, K20, K21, K22) with Magnapak explosives. (Figures 2,3)

**RESULTS AND RECOMMENDATIONS:** The work has indicated that the best gold values are located in Vein 1 where values as high as 8.94 oz/ton gold were obtained and visible gold was noted on the chloritic seams in the vein. Unfortunately, the best values were located close to the lakeshore. It is therefore recommended that further work involve prospecting on the south side of Young's Bay to see if additional mineralization may be located there.

### REFERENCES:

Archibald, F. T.

1983: Youngs Bay Gold Property, Kakagi Lake, OGS Assessment Files.

Archibald, F. T.

1984: Geological Survey on Youngs Bay Gold Property, Cymbal Explorations Inc., OGS Assessment Files.

Davies, J. C. and Morin, J. A.

1976: Geology of the Cedartree Lake Area, OGS Geoscience Report 134.

# CLAIM 671214

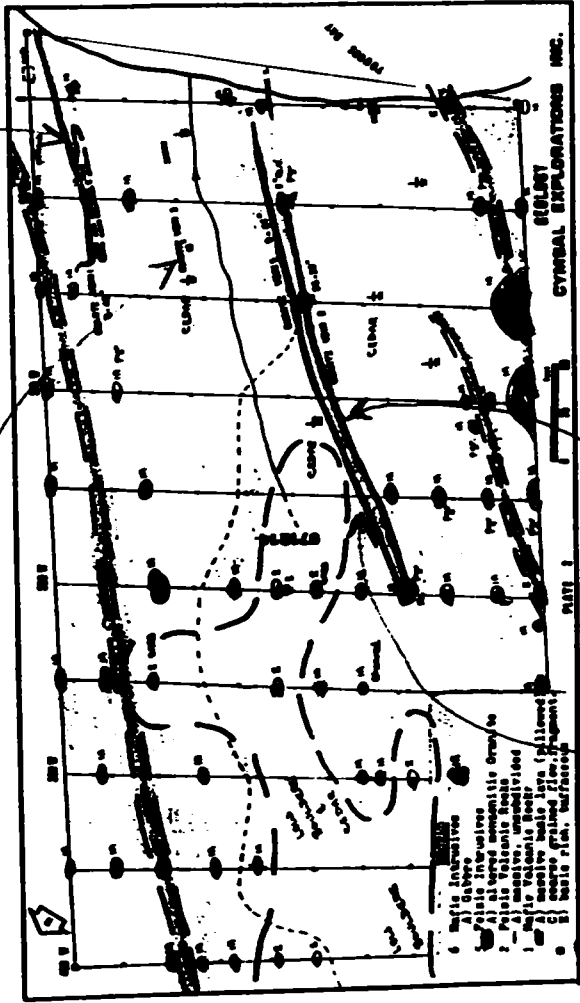
AVERAGE 0.61 oz / TON  
 500 FEET  
 8 TON BLOCK  
 24.12 / TON Au

VEIN 1

VEIN 4  
 100 FT NE 1

0.41 oz / TON

VEIN 3  
 2.65 oz / TON



VEIN 5  
 1400 FT WEST

0.21 - 2.75 oz / TON

VEIN 2  
 0.29 oz / TON  
 200 FEET

VEIN 5  
 0.10 oz / TON  
 120-220 FT

PHILLIPS TOWNSHIP

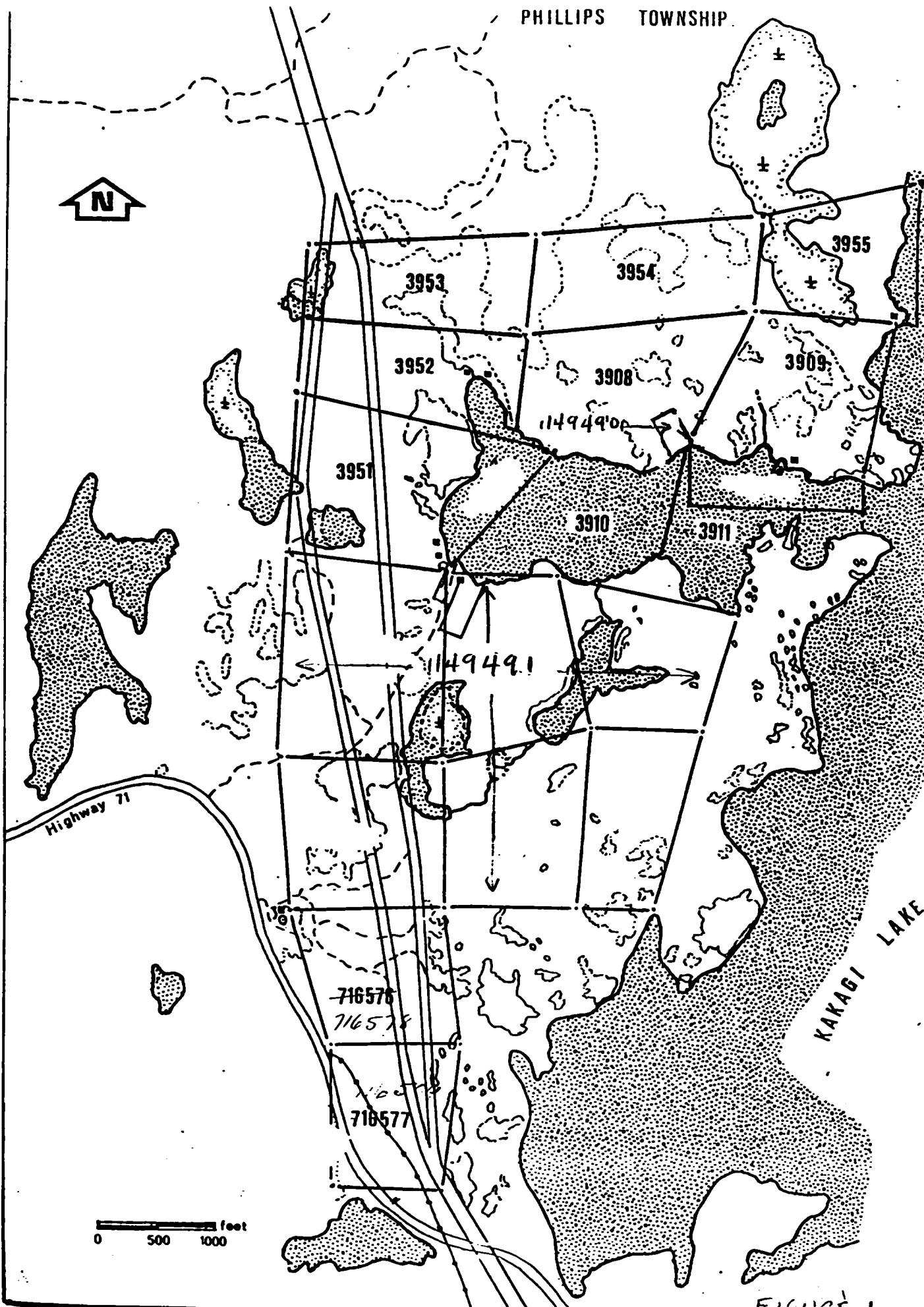


FIGURE 1

DETAILED LOCATION MAP OF SAMPLES VEIN #1  
CLAIM # 114949C  
 SCALE - 1" = 10' FT.

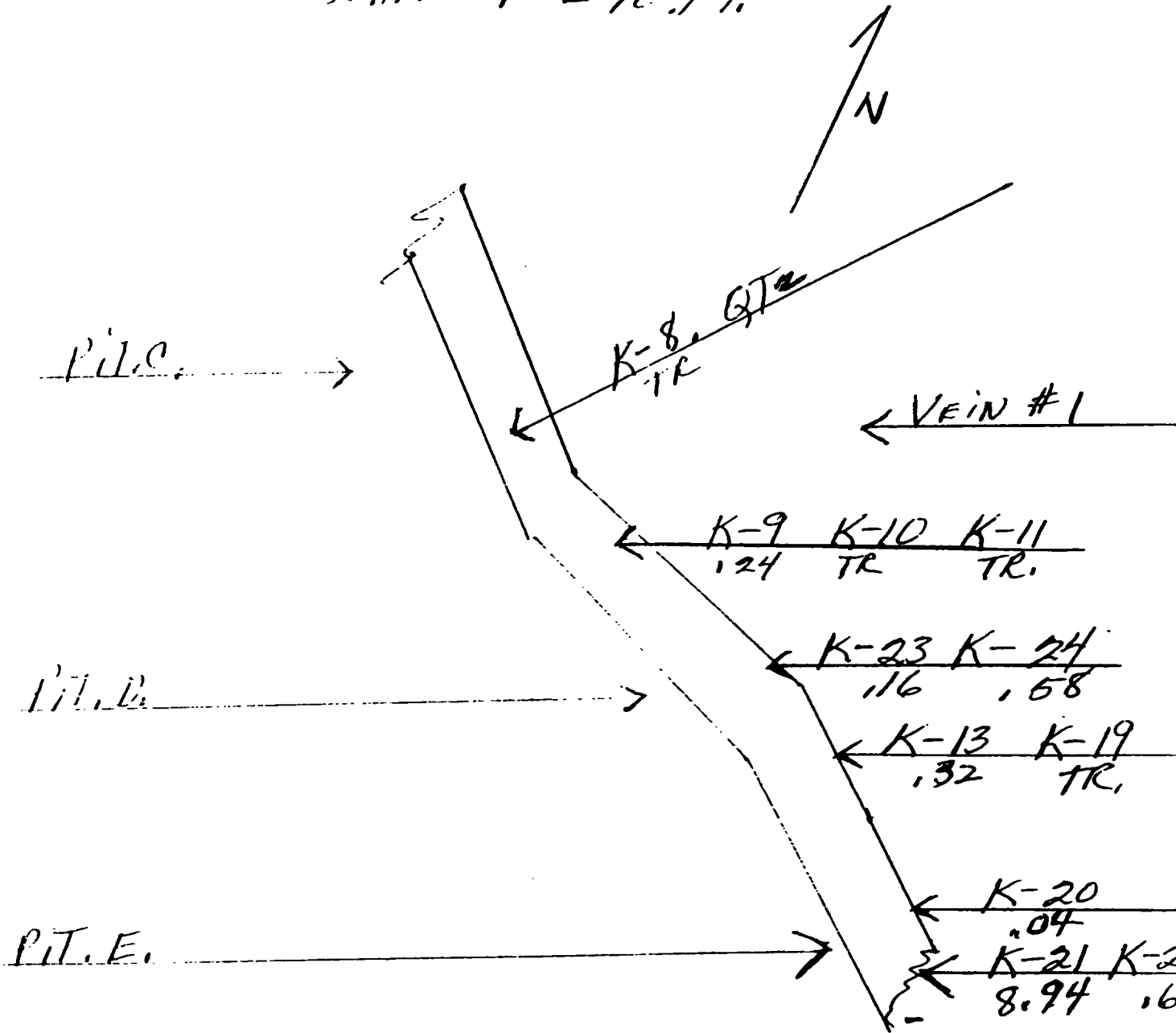


FIGURE 3

CLAIM POST. #2

## DESCRIPTION of SAMPLES - KAKAGI LAKE PROJECT

Sample No. =====	Type =====	Rock Type =====	Mineralization =====	Assay =====
K-1	Grab	Quartz	Porphyry Pyrite	Tr.
K-2	Grab.	Quartz	Porphyry Pyrite	Tr.
K-3	Grab.	Quartz Vein	Chalcopyrite	.10
K-4	2' Chip	Sheared Basalt.	Massive Sulphides	Tr.
K-5	3' Chip	Sheared Basalt.	Massive Sulphides	Tr.
K-6	Grab.	Sheared Basalt.	Massive Sulphides	.01
K-8	Grab.	Gabbro	Pyrite	Tr.
K-9	Grab	Gabbro	Pyrite	.24
K-10	Grab.	Sheared Basalt.	Pyrite	Tr.
K-11	Grab.	Sheared Basalt.	Pyrite	Tr.
K-12	Grab.	Sheared Basalt.	Massive Sulphides	Tr.
K-13	Grab.	Quartz Vein	Pyrite	.32
K-14	Grab.	Quartz Vein	Pyrite	Tr.
K-15	Grab.	Quartz Vein	Pyrite	Tr.
K-16	Grab.	Quartz vein	Pyrite	Tr.
K-17	Grab.	Quartz Vein	Massive Sulphides	Tr.
K-18	Grab.	Quartz Vein	Pyrite	.02
K-19	Grab.	Quartz Vein	Pyrite	Tr.
K-20	Grab.	Quartz Vein	Pyrite	.04
K-21	Grab.	Quartz Vein	Pyrite	8.94
K-22	2' Chip	Quartz Vein	Pyrite	.68
K-23	Grab.	Quartz Vein	Chalcopyrite	.16
K-24	Grab	Quartz Vein	Pyrite	.58

## KALADAR TOWNSHIP PROPERTY

**CO-WORKERS WITH OPAP:** Winfried Brack

**LOCATION AND ACCESS:** The Kaladar Township property consists of Lots 1 and 2 of Concession 7 in Kaladar Township of the Southern Ontario Mining Division (Figure 4). Access is gained to the property by taking Highway 41 north from Napanee to the Raccoon Lake Road, just south of the town of Kaladar.

**CHANGES TO PROPOSED PROJECT:** This project was shortened so that more money could be allocated to the Clarendon Township property.

**GEOLOGY:** The rocks on the property are Grenville in age and include a series of northeast striking bands of metamorphosed basic volcanic rocks, quartzite and marbles intruded by granitic rocks and granitic pegmatites.

In the area, past workers have reported pyrite, pyrrhotite with minor chalcopyrite and sphalerite associated with highly schistose sedimentary bands. One showing in the northwest corner of Lot 2, Concession 7 was reported by McCannell (1975) to contain "heavy sphalerite" mineralization and a sample from trenches here assayed 29.29% zinc, 0.007% lead and 0.04 oz/ton silver. A second showing was located in the northeast corner of Lot 2, Concession 7. A sample of zinkenite mineralization from an old trench located here returned an assay of 0.13% lead, 0.02 oz/ton gold and 4.44 oz/ton silver.

A soil geochemical survey was done here by the author in 1991 under an OPAP grant. Many b-horizon anomalies were detected in copper, zinc, lead, gold, antimony, silver and mercury.

**WORK DONE:** Two days were spent in Area III on the property where a large quartz vein was discovered during the 1991 work and soil geochemical anomalies in zinc (1027 ppm), lead (187 ppm), copper (43ppm), silver (0.9 ppm), arsenic (180 ppm) and gold (21 ppb) were detected. Three locations were opened up to bedrock with Magnapak explosives. A total of nine rock samples were taken and analyzed by ICP 30 element.

**RESULTS:** Following is a description of the rock samples (Figure 5);

- 6764: L6E, 300S; siliceous, rusty gossan
- 6765: L6E, 302S; shear zone, gossan
- 6766: L6E, 304S; hornblende feldspar gneiss
- 6767: L7E, 325S; grey rusty dolomitic marble with disseminated sphalerite
- 6768: L6E, 309S; quartz vein, vuggy and rusty
- 6769: L6E, 308S; same as 6768
- 6770: L6E, 302S; 75 cm channel sample of shear zone, same as 6765
- 6771: L6E, 301.5S; channel sample of rusty shear zone
- 6772: L4E, 300S; composite sample of quartz vein



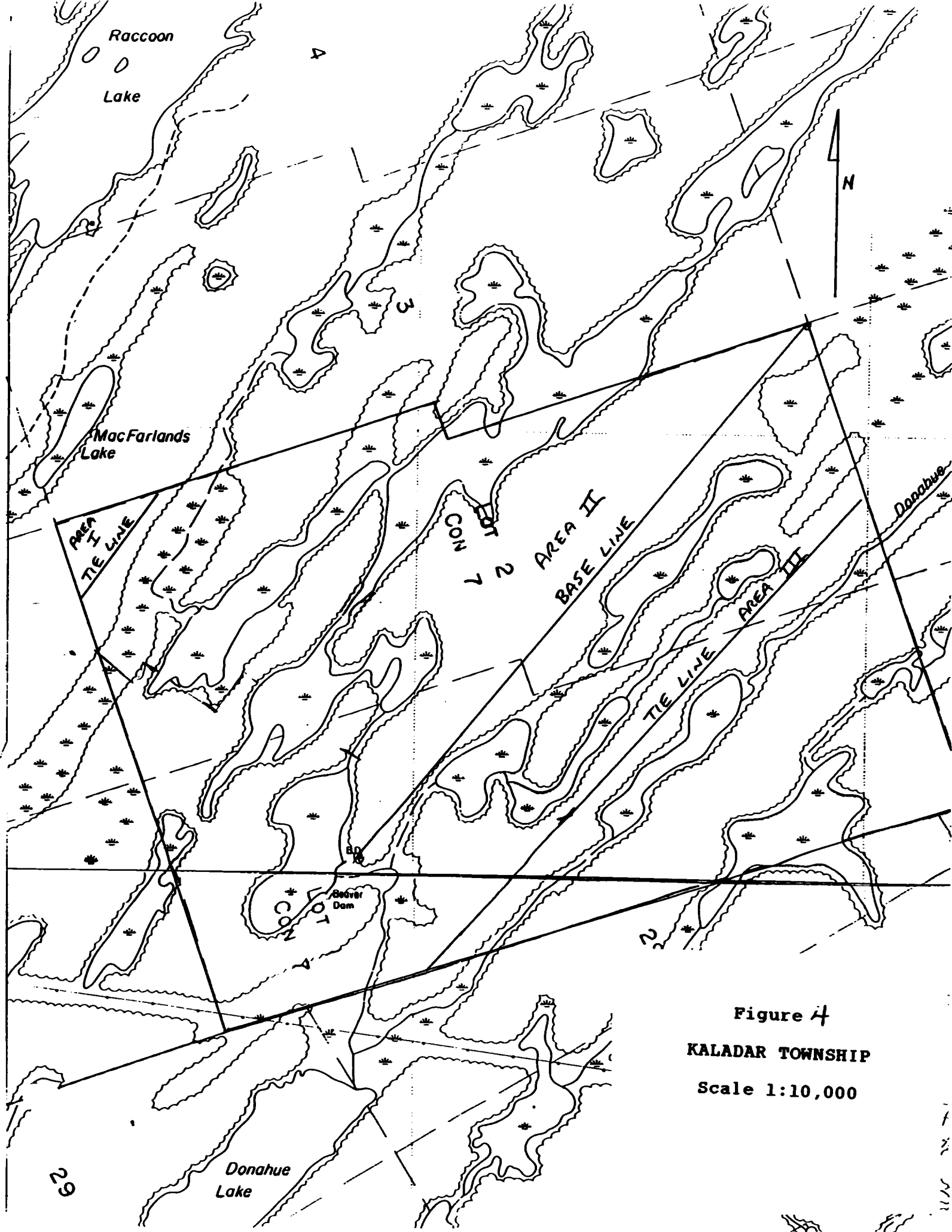


Figure 4  
 KALADAR TOWNSHIP  
 Scale 1:10,000

# MALADAR TOWNSHIP PROPERTY GEOCHEMISTRY - SAMPLE LOCATIONS

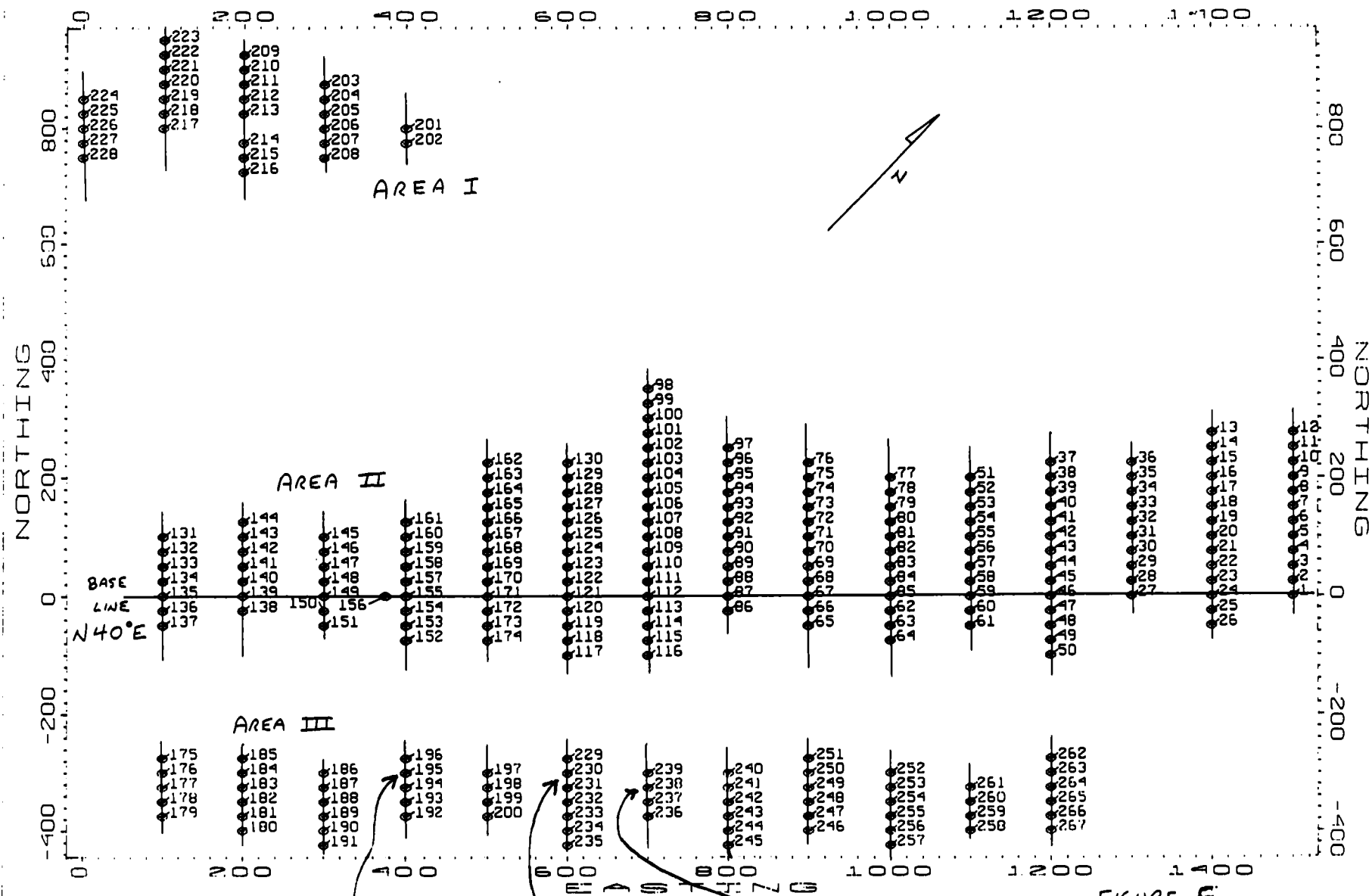


FIGURE 5

<p>ROCK SAMPLE 6772</p>	<p>ROCK SAMPLES 6764 6770 6765 6771 6766 6768 6769</p>	<p>ROCK SAMPLE 6767</p>
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The most significant result of the rock sampling was sample 6767. This sample of dolomitic marble was found to be anomalous in many elements. Below is a comparison of the analysis of the rock sample and the analysis of the corresponding soil sample taken in 1991.

ELEMENT	ROCK (6767)	SOIL (238)
Gold (ppb)	32	< 5
Aluminium (%)	0.05	3.46
Iron (%)	0.27	6.74
Manganese (ppm)	428	786
Magnesium (%)	> 10.00	2.95
Calcium (%)	> 10.00	0.23
Sodium (%)	0.05	0.05
Potassium (%)	< 0.01	0.09
Scandium (ppm)	< 5	10
Vanadium (ppm)	4	133
Chromium (ppm)	14	50
Cobalt (ppm)	4	20
Nickel (ppm)	2	33
Copper (ppm)	9	20
Arsenic (ppm)	< 5	< 5
Strontium (ppm)	98	14
Yttrium (ppm)	3	4
Molybdenum (ppm)	< 1	2
Silver (ppm)	4.2	0.6
Cadmium (ppm)	33.9	1.1
Tin (ppm)	< 20	< 20
Antimony (ppm)	70	12
Tellurium (ppm)	59	< 10
Barium (ppm)	5	184
Lanthanum (ppm)	< 1	8
Tungsten (ppm)	< 20	< 20
Lead (ppm)	203	89
Bismuth (ppm)	28	< 5
Zinc (ppm)	2039	887
Mercury (ppb)	1164	30

This comparison shows that the soil was enriched in aluminium, iron, manganese, potassium, scandium, vanadium, chromium, cobalt, nickel, copper, yttrium, molybdenum, barium and lanthanum. The soil was depleted in gold, magnesium, calcium, strontium, silver, cadmium, antimony, tellurium, lead, bismuth, zinc and mercury. This information will be useful in future follow-up of soil geochemical surveys.

**RECOMMENDATIONS: Remaining geochemical anomalies should be followed up in the same manner. Additional stripping and bedrock sampling should be done around Sample 6767 (L7E, 325S).**

**REFERENCES**

**Brack, W.**

**1992: 1991 OPAP Report on Kaladar Township property**

**Holmstead, W. E.**

**1992: 1991 OPAP Report on Kaladar Township property**

**McCannell, J. D.**

**1975: Supplement to Report for Glenshire Mines dated April 4, 1975.**

**Wolff, J. M.**

**1982: Geology of the Kaladar Area, OGS Report 215.**

## CLARENDON TOWNSHIP PROPERTY

**CO-WORKERS WITH OPAP: Winfried Brack**

**LOCATION AND ACCESS:** The Ardoch property is located in Clarendon Township, Eastern Ontario Mining Division, Ontario (NTS 31C/14-15, Latitude: 44 52', Longitude: 76 58'). It covers Concession VIII, Lot 28, 30 and 31 as well as Concession IX, Lot 27, 28, 29, 30 and 31 (Figure 6). The Ardoch property is well positioned within easy access of roads. The Town of Ardoch is located approximately 3 km to the east of the property.

**CHANGES TO PROPOSED PROJECT:** This property was acquired after the original proposal was submitted. A revision to the program to include this property was sent to the OPAP office on October 6, 1992.

**GEOLOGY:** The centre of the property is underlain by a series of clastic and carbonate metasediments of the Mayo Group. These in turn are underlain by a mixed sequence of interlayered felsic and intermediate gneisses located along the extreme northern property boundary. The Flinton Group unconformity crosses the southern part of the property immediately to the south of Swaugers Lake. The axial plane of the syncline passes through the property approximately 650 meters south of Swaugers Lake. South of the unconformity, the Flinton Group consists of pelitic schist and graphite-pyrite schist.

**WORK DONE:** Work was done on the Clarendon Township property in October and November 1992. First a grid was established on the property. A soil geochemical survey was done by sampling the B-horizon soil at 25 meter stations on the established lines (Figure 7). The samples were analyzed by the Induced Coupled Plasma method for 28 elements plus mercury and gold by atomic absorption by Bondar Clegg of Ottawa. A total of 341 soil samples were collected. Very limited follow-up was done on one of the anomalies and a total of 4 rock samples were taken and analyzed by the same method as the soil samples.

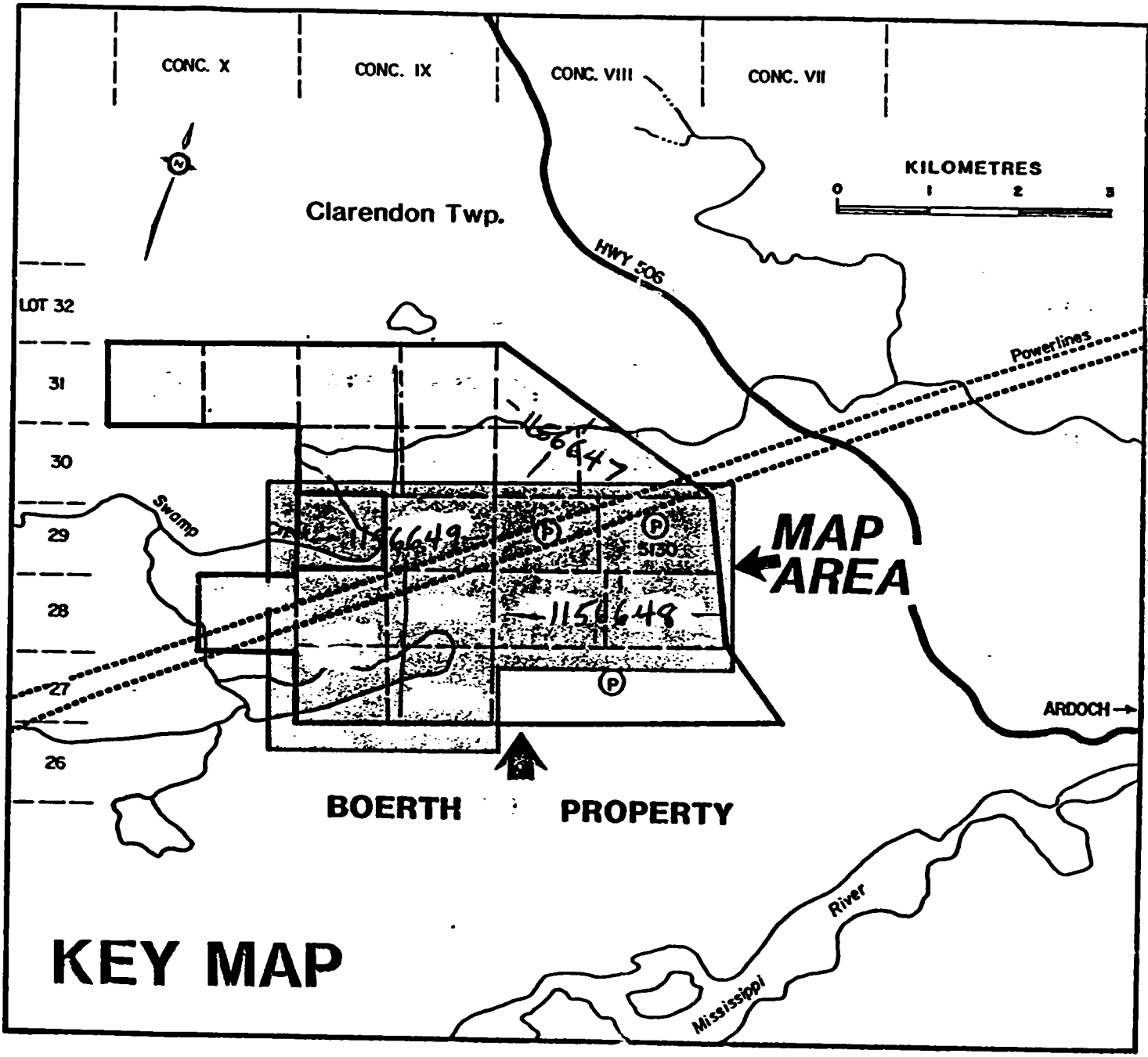


FIGURE 6

STATISTICS FOR SELECTED ELEMENTS - CLARENDON TOWNSHIP

	MERCURY (ppb)	MANGANESE (ppm)	COPPER (ppm)	GOLD (ppb)	ARSENIC (ppm)	ZINC (ppm)
MINIMUM	9	29	0	3	3	12
MAXIMUM	934	20000	136	345	1154	1490
AVERAGE	56.5	887.7	13.3	11.1	58.3	184.2
95TH PERCENTILE	137	2864	33	31	232	471

## RESULTS OF THE SOIL GEOCHEMISTRY

### GOLD

Anomalies 1, 2 and 3 (Figure 8) are located at the contact between clastic metasediments to the north and carbonate metasediments to the south. This contact occurs on the south limb of the Boerth antiform.

Anomaly 1 is located on Lines 7E to 9E, 325N to 375N at the nose of the antiform and is in the vicinity of the old workings in the Hattie B and Uncle Sam shaft areas.

Anomaly 2 is located at 500E, 200N and is near the contact and in the vicinity of drill hole G39 drilled by Ganda Silver Mines. Bowen (1988) described this area as follows;

**"Hole G39 (550E, 250N) collared approximately 310 meters southwest of the Hattie B shaft intersected two zones returning 3.43 g/ton gold across 0.15 meters and 3.77 g/ton gold across 0.12 meters respectively. Drill logs from the Ganda Silver Mines 1963-64 drill programs are not available, however the surface plan and limited simplified cross sections suggest that the mineralized intersections probably represent vein material with hanging and footwall material not sampled.**

**The two mineralized zones are laterally about 30 meters apart and may represent two discrete unrelated zones. Ground geophysics suggest that the mineralization may be related to a 030 degree trending magnetically inferred fault zone near the confluence of an 070 degree trending IP chargeability zone."**

Anomaly 3 located in the vicinity of the Webber gold showing and covers Lines 100W to 50E, 75N to 125N. This showing was described by Bowen (1988) as follows;

**"The Webber showing consists of an east-west trending trench centred near 100E, 100N. A 10 meter deep shaft was sunk at its easternmost end. Barron (1985) describes the showing as mineralization confined to a 0.3 meter wide quartz vein which contains disseminated arsenopyrite (< 1 %) and minor pyrite mineralization. The quartz vein trends N65E and dips vertically to steeply north and has been exposed by trenching for 60 meters. The vein is described as conformable to a biotite gneiss. A grab sample of dump material collected by Barron assayed 14.74 g/t gold and greater than 1.0 g/t arsenic.**

**Ganda Silver Mines drilled five holes in the immediate area in 1963. Numerous quartz zones and disseminated sulphides are reported.**



The showing appears to conform to a 50 meter wide 300 meter long zone of IP chargeability trending approximately 035 degrees. The IP anomaly suggests that the Webber showing may be more extensive than the limited previous work suggests.

A grab sample of dump material shown to the writer by Mr. S. Hill was very similar in appearance to the L400W, 75N trench vein. Five grab samples of the Webber vein collected by Mr. Hill returned values ranging from 11.66 to 285.94 g/t gold. These values are consistent with the value reported by Barron (1985)."

Anomaly 4 is located at Lines 400W to 600W, 275N to 350N. There was no sign of any old workings in this area and it was outside the area mapped by Aurochs in 1987. Soil sampling by Aurochs in 1987 showed 305 ppb gold in the b horizon at 500W, 265N. Evidence of quartz veining was seen in the form of quartz pebbles and boulders during the soil geochemical survey. Limited follow-up was done at 400W, 350N where three trenches were put down to bedrock and sampled (samples 396, 397 and 398). Bedrock was a fine grained, siliceous metasediment with 1% pyrite occurring as streaks in the rock. An IP chargeability high was noted extending from 200W, 300N to 700W, 225N. The high gold and arsenic values could not be duplicated in the bedrock sampling however this soil sample was located on the side of a steep hill and there is a good possibility that the bedrock mineralization may be uphill from the soil anomaly. This hypothesis will be tested next year.

Following is a synopsis of the other anomalies encountered in the soil geochemical survey;

<b>Anomaly Number:</b>	1 (Figure 8)
<b>Element:</b>	Gold
<b>Location:</b>	Lines 700E to 900E, 325N to 375N
<b>Magnitude:</b>	274 ppb
<b>Other Elements:</b>	
Arsenic:	402 ppm at 800E, 325N
Mercury:	393 ppb at 700E, 275N
Zinc:	337 ppm at 800E, 275N
Manganese:	2119 ppm at 800E, 350N
<b>Bedrock Geology:</b>	Anomaly 1 is located at the nose of the antiform at the contact between clastic metasediments and carbonate metasediments.
<b>Induced Polarization:</b>	no anomaly
<b>Magnetometer:</b>	no anomaly
<b>Old Workings:</b>	Located in the vicinity of the old workings in the Hattie B and Uncle Sam shaft areas.
<b>Auroch's Soil Sampling:</b>	260 ppb gold at 800E, 380N.

**Anomaly Number:** 2 (Figure 8)  
**Element:** Gold  
**Location:** 500E, 200N  
**Magnitude:** 140 ppb  
**Other Elements:**  
    **Arsenic:** 1154 ppm at 600E, 250N  
    **Mercury:** 934 ppb at 600E, 250N  
    **Zinc:** 263 ppm at 600E, 200N  
    **Manganese:** >20,000 ppm at 600E, 250N  
**Bedrock Geology:** At contact between clastic metasediments and carbonate metasediments.  
**Induced Polarization:** no anomaly  
**Magnetometer:** no anomaly  
**Old Workings:** Hole G39 (550E, 250N) collared approximately 310 meters southwest of the Hattie B shaft intersected two zones returning 3.43 g/ton gold across 0.15 meters and 3.77 g/ton gold across 0.12 meters respectively.  
**Auroch's Soil Sampling:** no anomaly

**Anomaly Number:** 3 (Figure 8)  
**Element:** Gold  
**Location:** Lines 100W to 50E, 75N to 125N.  
**Magnitude:** 26 ppb at 50W, 75N  
**Other Elements:**  
    **Arsenic:** 249 ppm at 50E, 100N  
    **Mercury:** no anomaly  
    **Zinc:** 495 ppm at 50E, 100N  
    **Manganese:** 2151 ppm at 50E, 100N  
**Bedrock Geology:** At contact between clastic metasediments and carbonate metasediments.  
**Induced Polarization:** The anomaly appears to conform to a 50 meter wide 300 meter long zone of IP chargeability trending approximately 035 degrees.  
**Magnetometer:** magnetic high  
**Old Workings:** Webber showing  
**Auroch's Soil Sampling:** 65 ppb at 100W, 90N

**Anomaly Number:** 4 (Figure 8)  
**Element:** Gold  
**Location:** Lines 400W to 600W, 275N to 350N.  
**Magnitude:** 345 ppb (average) at 400W, 350N.  
**Other Elements:**  
    **Arsenic:** 467 ppm at 600W, 275N  
    **Mercury:** no anomaly  
    **Zinc:** 575 ppm at 400w, 325N  
    **Manganese:** no anomaly  
**Bedrock Geology:** clastic metasediment, possibly close to contact with carbonate metasediments  
**Induced Polarization:** chargeability high was noted extending from 200W, 300N to 700W, 225N.  
**Magnetometer:** magnetic high north of 400W, 400N  
**Old Workings:** none noted  
**Auroch's Soil Sampling:** 305 ppb gold at 500W, 265N

**Anomaly Number:** 5 (Figure 8)  
**Element:** Gold  
**Location:** 500E, 125N; 600E, 125N and 700E, 75N to 100N.  
**Magnitude:** 40 ppb  
**Other Elements:**  
    **Arsenic:** no anomaly  
    **Mercury:** 354 ppb at 800E, 100N  
    **Zinc:** 422 ppm at 700E, 75N  
    **Manganese:** 978 ppm at 700E, 75N  
**Bedrock Geology:** carbonate metasediment on Swauger synform.  
**Induced Polarization:** no anomaly  
**Magnetometer:** no anomaly  
**Old Workings:** none noted  
**Auroch's Soil Sampling:** no anomaly

**Anomaly Number:** 6 (Figure 8)  
**Element:** Gold  
**Location:** 700E, 25S to 100S  
**Magnitude:** 63 ppb  
**Other Elements:**  
    **Arsenic:** 213 ppm at 700E, 100S  
    **Mercury:** no anomaly  
    **Zinc:** 838 ppm at 600E, 100S  
    **Manganese:** 7911 at 700E, 50S  
**Bedrock Geology:** clastic metasediments  
**Induced Polarization:** slight chargeability anomaly  
**Magnetometer:** magnetic high  
**Old Workings:** none noted  
**Auroch's Soil Sampling:** no anomaly

**Anomaly Number:** 7 (Figure 8)  
**Element:** Gold  
**Location:** 1200E to 1300E, 275N  
**Magnitude:** 34 ppb  
**Other Elements:**  
    **Arsenic:** no anomaly  
    **Mercury:** no anomaly  
    **Zinc:** 314 ppm at 1200E, 275N  
    **Manganese:** 1481 ppm at 1200E, 275N  
**Bedrock Geology:** clastic metasediment on Swaugers synform  
**Induced Polarization:** no anomaly  
**Magnetometer:** no anomaly  
**Old Workings:** trench with arsenopyrite noted  
**Auroch's Soil Sampling:** no anomaly

**Anomaly Number:** 8 (Figure 8)  
**Element:** Gold  
**Location:** 1200E, 200N  
**Magnitude:** 42 ppb  
**Other Elements:**  
    **Arsenic:** 120 ppm at 1200E, 200N  
    **Mercury:** 681 ppb at 1100E, 150N  
    **Zinc:** no anomaly  
    **Manganese:** 2864 ppm at 1200E, 175N  
**Bedrock Geology:** At contact between clastic metasediment to north and carbonate metasediment to south.  
**Induced Polarization:** no anomaly  
**Magnetometer:** no anomaly  
**Old Workings:** Rusty boulders and quartz boulders noted in vicinity  
**Auroch's Soil Sampling:** no anomaly

**Anomaly Number:** 9 (Figure 8)  
**Element:** Gold  
**Location:** 1300E to 1400E, 50N to 150N  
**Magnitude:** 31 ppb  
**Other Elements:**  
    **Arsenic:** no anomaly  
    **Mercury:** no anomaly  
    **Zinc:** no anomaly  
    **Manganese:** no anomaly  
**Bedrock Geology:** clastic metasediments  
**Induced Polarization:** coincident chargeability anomaly  
**Magnetometer:** coincident magnetic high  
**Old Workings:** rusty quartz boulders noted  
**Auroch's Soil Sampling:** many anomalous values to 125 ppb

<b>Anomaly Number:</b>	<b>10 (Figure 8)</b>
<b>Element:</b>	<b>Gold</b>
<b>Location:</b>	<b>1400E, 125S</b>
<b>Magnitude:</b>	<b>22 ppb</b>
<b>Other Elements:</b>	
<b>Arsenic:</b>	<b>no anomaly</b>
<b>Mercury:</b>	<b>no anomaly</b>
<b>Zinc:</b>	<b>no anomaly</b>
<b>Manganese:</b>	<b>no anomaly</b>
<b>Bedrock Geology:</b>	<b>at contact between pelitic schist to south and clastic metasediment to north.</b>
<b>Induced Polarization:</b>	<b>no anomaly</b>
<b>Magnetometer:</b>	<b>magnetic low</b>
<b>Old Workings:</b>	<b>quartz and gossan boulder noted</b>
<b>Auroch's Soil Sampling:</b>	<b>no anomaly</b>

## ARSENIC

**Anomaly Number:** 11 (Figure 9)  
**Element:** Arsenic  
**Location:** 400W to 700W, 0 to 125S  
**Magnitude:** 253 ppm  
**Other Elements:**  
    **Gold:** no anomaly  
    **Mercury:** 231 ppb at 600W, 100S  
    **Zinc:** 1490 ppm at 500W, 125S  
    **Manganese:** 10202 at 600W, 100S  
**Bedrock Geology:** carbonate metasediment  
**Induced Polarization:** chargeability anomaly immediately to the east of the arsenic anomaly  
**Magnetometer:** magnetic high at 600W to 700W, 100S  
**Old Workings:** quartz boulders and gossan noted  
**Auroch's Soil Sampling:** no anomaly

**Anomaly Number:** 12 (Figure 9)  
**Element:** Arsenic  
**Location:** 100E, 0 to 25N  
**Magnitude:** 247 ppm  
**Other Elements:**  
    **Gold:** no anomaly  
    **Mercury:** 120 ppb at 100E, 0  
    **Zinc:** 471 ppm at 200E, 25N  
    **Manganese:** 2984 ppm at 100E, 0  
**Bedrock Geology:** carbonate metasediments on Swauger synform  
**Induced Polarization:** no anomaly  
**Magnetometer:** no anomaly  
**Old Workings:** none noted  
**Auroch's Soil Sampling:** no anomaly

<b>Anomaly Number:</b>	<b>13 (Figure 9)</b>
<b>Element:</b>	<b>Arsenic</b>
<b>Location:</b>	<b>1000E, 150N</b>
<b>Magnitude:</b>	<b>403 ppm</b>
<b>Other Elements:</b>	
<b>Gold:</b>	<b>14 ppb, in between gold anomaly 5 and 8.</b>
<b>Mercury:</b>	<b>681 ppb at 1100E, 150N</b>
<b>Zinc:</b>	<b>no anomaly</b>
<b>Manganese:</b>	<b>no anomaly</b>
<b>Bedrock Geology:</b>	<b>carbonate metasediment</b>
<b>Induced Polarization:</b>	<b>no anomaly</b>
<b>Magnetometer:</b>	<b>no anomaly</b>
<b>Old Workings:</b>	<b>rusty boulders noted</b>
<b>Auroch's Soil Sampling:</b>	<b>no anomaly</b>



## ZINC

**Anomaly Number:** 14 (Figure 10)  
**Element:** Zinc  
**Location:** 1100E to 1200E, 0 to 150N  
**Magnitude:** 1469 ppm  
**Other Elements:**  
    **Arsenic:** no anomaly  
    **Mercury:** anomaly directly to north  
    **Gold:** slight anomaly to south  
    **Manganese:** no anomaly  
**Bedrock Geology:** clastic metasediments  
**Induced Polarization:** on west end of chargeability anomaly  
**Magnetometer:** on west end of magnetic high  
**Old Workings:** quartz boulder and rusty pebbles noted  
**Auroch's Soil Sampling:** 10-15 ppb gold

**Anomaly Number:** 15 (Figure 10)  
**Element:** Zinc  
**Location:** 500E to 700E, 25S to 25N  
**Magnitude:** 802 ppm  
**Other Elements:**  
    **Arsenic:** 107 ppm at 500E, 0  
    **Mercury:** 117 ppb at 500E, 0  
    **Gold:** 15 ppb at 600E, 25S  
    **Manganese:** 3808 ppm at 500E, 0  
**Bedrock Geology:** contact between clastic metasediments to the south and carbonate metasediments to the north  
**Induced Polarization:** slight chargeability high  
**Magnetometer:** magnetic high  
**Old Workings:** trench and quartz boulders  
**Auroch's Soil Sampling:** no anomalies

**Anomaly Number:** 16 (Figure 10)  
**Element:** Zinc  
**Location:** 800E, 100S  
**Magnitude:** 946 ppm  
**Other Elements:**  
    **Arsenic:** 213 ppm at 700E, 100S  
    **Mercury:** 288 ppb at 800E, 100S  
    **Gold:** 25 ppb at 800E, 100S  
    **Manganese:** 8211 ppm at 800E, 100S  
**Bedrock Geology:** clastic metasediments  
**Induced Polarization:** slight chargeability anomaly  
**Magnetometer:** magnetic high  
**Old Workings:** none noted  
**Auroch's Soil Sampling:** no anomaly

**Anomaly Number:** 17 (Figure 10)  
**Element:** Zinc  
**Location:** 400W to 700W, 0 to 125S  
**Magnitude:** 1490 ppm  
**Other Elements:**  
    **Gold:** no anomaly  
    **Mercury:** 231 ppb at 600W, 100S  
    **Arsenic:** 246 ppm at 500W, 125S  
    **Manganese:** 10202 at 600W, 100S  
**Bedrock Geology:** carbonate metasediment  
**Induced Polarization:** chargeability anomaly immediately to the east of the zinc anomaly  
**Magnetometer:** magnetic high at 600W to 700W, 100S  
**Old Workings:** quartz boulders and gossan noted  
**Auroch's Soil Sampling:** no anomaly

**Anomaly Number:** 18 (Figure 10)  
**Element:** Zinc  
**Location:** 100E to 200E, 0 to 50N  
**Magnitude:** 471 ppm  
**Other Elements:**  
    **Gold:** no anomaly  
    **Mercury:** 120 ppb at 100E, 0  
    **Arsenic:** 247 ppm at 100E, 25N  
    **Manganese:** 2984 ppm at 100E, 0  
**Bedrock Geology:** carbonate metasediments on Swauger synform  
**Induced Polarization:** no anomaly  
**Magnetometer:** no anomaly  
**Old Workings:** none noted  
**Auroch's Soil Sampling:** no anomaly

**Anomaly Number:** 19 (Figure 10)  
**Element:** Zinc  
**Location:** 300W to 400W, 325N to 375N  
**Magnitude:** 575 ppm  
**Other Elements:**  
    **Arsenic:** 467 ppm at 600W, 275N  
    **Mercury:** no anomaly  
    **Gold:** 345 ppb (average) at 400W, 350N  
    **Manganese:** no anomaly  
**Bedrock Geology:** clastic metasediment, possibly close to contact with carbonate metasediments  
**Induced Polarization:** chargeability high was noted extending from 200W, 300N to 700W, 225N.  
**Magnetometer:** magnetic high north of 400W, 400N  
**Old Workings:** none noted  
**Auroch's Soil Sampling:** 305 ppb gold at 500W, 265N

One rock sample (6773) was taken at a known zinc showing on the property at 13E, 860N for comparison with soil anomalies detected on the property.

**RECOMMENDATIONS:** It is recommended that all soil anomalies be followed up by prospecting and bedrock sampling in the vicinity of the anomalies. It is also recommended that the soil geochemical survey be extended to the north to cover the north arm of the Boerth antiform and to the south to cover the Flinton unconformity where gold deposits are known to occur in other parts of the region.

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**APPENDIX A**

**ANALYSES**

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Al PCT	Fe PCT	Mn PPM	Mg PCT	Ca PCT	Na PCT	K PCT	Sc PPM	V PPM	Cr PPM
6764		11	0.35	5.47	89	0.16	0.07	0.04	0.02	<5	18	220
6765		8	3.05	7.72	217	1.68	0.10	0.09	0.81	5	120	350
6766		9	2.80	3.70	579	0.46	3.51	0.26	0.53	<5	24	70
6767		32	0.05	0.27	428	>10.00	>10.00	0.05	<0.01	<5	4	14
6768		10	0.05	2.11	47	0.03	0.05	0.04	<0.01	<5	15	348
6769		13	0.05	1.90	165	0.05	0.52	0.04	0.01	<5	4	216
6770		8	0.05	2.05	45	0.03	0.05	0.04	0.01	<5	15	357
6771		10	2.98	9.25	210	2.05	0.16	0.10	0.67	9	287	241
6772		23	0.07	1.73	165	0.02	0.10	0.04	<0.01	<5	11	308
6773		27	0.66	1.49	297	0.29	>10.00	0.08	0.29	<5	7	60

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SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Ni PPM	Cu PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM
6764		7	23	153	11	2	<1	2	0.3	0.7	<20	<5
6765		4	16	67	42	11	7	16	<0.2	<0.2	<20	<5
6766		22	25	68	38	72	10	2	<0.2	1.5	<20	<5
6767		4	2	9	<5	98	3	<1	4.2	33.9	<20	70
6768		<1	8	15	12	2	<1	2	<0.2	0.5	<20	9
6769		<1	7	23	<5	5	<1	2	<0.2	0.9	<20	<5
6770		<1	8	13	6	2	<1	2	0.3	<0.2	<20	11
6771		6	26	78	51	12	10	20	<0.2	0.4	<20	<5
6772		6	12	16	13	1	1	2	0.2	0.6	<20	7
6773		12	19	184	91	96	4	26	41.8	208.2	<20	96

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SAMPLE NUMBER	ELEMENT UNITS	Te PPM	Ba PPM	La PPM	W PPM	Pb PPM	Bi PPM	Zn PPM	Hg PPB
6764		<10	11	3	<20	50	<5	23	17
6765		<10	321	11	<20	59	<5	191	18
6766		<10	73	9	<20	41	<5	105	<5
6767		59	5	<1	<20	203	28	2039	1164
6768		17	3	<1	<20	48	<5	6	5
6769		<10	20	<1	<20	31	<5	25	7
6770		21	3	<1	<20	53	<5	5	12
6771		<10	300	14	<20	124	<5	270	20
6772		12	9	1	<20	46	<5	35	20
6773		<10	144	2	<20	>10000	<5	>20000	>50000



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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Al PCT	Fe PCT	Mn PPM	Mg PCT	Ca PCT	Na PCT	K PCT	Sc PPM	V PPM	Cr PPM
496		<5	1.74	1.76	240	1.06	0.71	0.22	0.93	<5	15	113
497		<5	1.87	2.44	329	1.72	2.28	0.19	1.19	<5	24	85
498		<5	2.00	2.41	273	1.53	1.41	0.22	1.33	<5	36	144

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SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Ni PPM	Cu PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM
496		5	12	12	14	12	3	<1	<0.2	0.4	<20	<5
497		10	18	25	39	30	5	1	<0.2	<0.2	<20	<5
498		7	19	22	53	25	4	<1	<0.2	0.5	<20	<5

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SAMPLE NUMBER	ELEMENT UNITS	Te PPM	Ba PPM	La PPM	W PPM	Pb PPM	Bi PPM	Zn PPM	Hg PPB
496		<10	56	8	<20	26	<5	116	130
497		<10	48	7	<20	15	<5	41	23
498		<10	73	9	<20	23	5	39	12

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	AuRes1 PPB	AuRes2 PPB	AuRes3 PPB	Al PCT	Fe PCT	Mn PPM	Mg PCT	Ca PCT	Na PCT	K PCT
500		10				2.68	2.63	10775	0.55	0.45	0.06	0.10
501		6				2.87	3.84	647	1.15	0.33	0.07	0.11
502		31	10	10		2.34	3.58	1162	0.89	0.31	0.06	0.11
503		<5				2.87	3.66	1094	1.18	0.40	0.07	0.15
504		7				2.91	2.64	232	1.07	0.22	0.08	0.06
505		6				2.20	3.13	130	0.51	0.22	0.07	0.06
506		15				2.82	4.28	210	0.83	0.19	0.07	0.13
507		7				1.41	2.39	387	0.37	0.25	0.07	0.07
508		7				2.11	3.64	2372	0.99	0.43	0.07	0.11
509		8				1.42	2.77	612	0.33	0.26	0.07	0.07
510		6				1.90	5.62	403	0.61	0.25	0.06	0.24
511		28				0.49	1.90	199	0.12	0.25	0.06	0.07
512		8				1.65	2.87	251	0.40	0.22	0.07	0.06
513		<5				2.24	3.31	1179	0.84	0.38	0.08	0.08
514		6				2.25	2.66	232	0.35	0.09	0.06	0.06
515		18				4.08	3.79	527	1.54	0.39	0.09	0.13
516		12				2.24	2.53	936	0.75	0.18	0.07	0.10
517		13				2.26	3.79	417	0.68	0.52	0.08	0.09
518		16				2.55	4.25	1409	1.14	0.98	0.08	0.24
519		11				4.25	3.69	1698	1.94	0.43	0.07	0.12
520		10				2.05	3.93	2270	0.46	0.46	0.06	0.11
521		<5				2.85	5.08	587	1.07	0.49	0.07	0.43
522		<5				1.97	2.72	866	0.89	0.26	0.07	0.20
523		6				3.53	4.39	590	1.63	0.25	0.06	0.09
524		<5				2.82	3.81	1586	0.94	0.54	0.07	0.12
525		6				1.91	3.01	795	0.64	0.20	0.08	0.13
526		22				1.57	4.83	253	0.52	0.19	0.07	0.07
527		9				2.48	4.66	1344	0.93	0.33	0.08	0.15
528		8				2.65	4.19	425	0.97	0.31	0.07	0.12
529		9				0.87	1.99	202	0.16	0.18	0.07	0.05
530		8				1.49	2.75	355	0.40	0.24	0.06	0.07
531		10				3.34	8.11	291	1.03	0.45	0.06	0.13
532		6				0.33	0.77	63	0.07	0.16	0.06	0.05
533		<5				1.15	2.46	114	0.20	0.12	0.07	0.04
534		6				1.15	3.13	296	0.29	0.14	0.06	0.05
535		9				1.43	2.21	277	0.27	0.15	0.07	0.05
536		6				4.11	3.98	587	1.77	0.34	0.07	0.13
537		<5				2.14	3.23	458	0.59	0.31	0.06	0.07
538		<5				0.92	0.92	74	0.21	0.19	0.07	0.05
539		7				1.79	3.42	173	0.46	0.21	0.07	0.06

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SAMPLE NUMBER	ELEMENT UNITS	Sc PPM	V PPM	Cr PPM	Co PPM	Ni PPM	Cu PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM
500		<5	26	28	13	13	14	17	18	2	2	0.2
501		<5	58	27	17	19	23	<5	11	8	2	0.4
502		<5	62	20	15	18	22	<5	12	4	1	0.4
503		<5	42	20	11	16	15	10	18	3	<1	0.3
504		<5	38	30	7	13	11	19	12	2	<1	0.4
505		<5	30	13	4	7	6	6	11	2	<1	0.4
506		<5	50	28	7	14	13	16	9	2	<1	0.5
507		<5	43	19	6	11	7	8	7	6	<1	<0.2
508		<5	47	21	13	15	11	57	11	9	<1	<0.2
509		<5	51	23	7	11	8	11	8	6	<1	<0.2
510		6	129	20	17	13	28	20	7	7	<1	0.4
511		<5	53	9	4	5	9	7	8	2	<1	<0.2
512		<5	54	22	8	14	9	16	7	6	<1	0.3
513		<5	50	28	15	27	22	102	13	7	<1	0.4
514		<5	24	12	4	7	9	13	6	1	1	0.3
515		<5	56	31	15	30	35	29	17	3	<1	0.4
516		<5	37	17	10	10	12	12	9	3	<1	0.4
517		<5	60	26	12	16	11	17	22	6	<1	0.4
518		<5	96	32	20	20	45	48	40	9	<1	0.3
519		<5	62	35	19	22	27	12	17	3	<1	0.4
520		<5	84	21	16	15	21	50	11	17	1	0.5
521		10	177	25	31	20	25	12	9	11	<1	0.2
522		<5	29	14	9	10	9	9	8	2	<1	0.5
523		<5	64	33	22	23	16	6	8	9	1	0.4
524		<5	56	27	11	16	16	75	20	3	<1	0.3
525		<5	65	21	12	13	14	19	7	4	<1	0.3
526		<5	113	92	12	23	6	15	10	4	1	0.5
527		<5	96	36	20	18	16	28	8	5	<1	0.4
528		<5	93	40	19	26	21	37	9	6	<1	0.4
529		<5	39	13	4	7	5	11	6	5	<1	0.3
530		<5	48	18	8	11	9	24	8	5	<1	0.5
531		<5	202	33	27	27	23	22	15	6	2	0.5
532		<5	27	4	2	2	1	6	6	2	<1	<0.2
533		<5	47	15	5	7	6	10	5	5	<1	<0.2
534		<5	59	25	6	12	7	14	5	4	<1	0.3
535		<5	38	19	7	9	15	16	6	5	<1	0.4
536		<5	44	24	11	19	16	26	13	3	2	0.8
537		<5	50	22	9	12	12	15	12	4	<1	0.3
538		<5	25	10	3	6	5	7	7	4	<1	<0.2
539		<5	62	27	10	19	21	22	6	8	<1	0.4

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SAMPLE NUMBER	ELEMENT UNITS	Cd PPM	Sn PPM	Sb PPM	Te PPM	Ba PPM	La PPM	W PPM	Pb PPM	Bi PPM	Zn PPM	Hg PPB
500		1.5	<20	10	<10	263	5	<20	18	<5	216	141
501		<0.2	<20	7	<10	99	10	<20	15	<5	147	44
502		1.1	<20	7	<10	116	7	<20	17	<5	157	42
503		0.5	<20	7	<10	121	6	<20	16	<5	225	48
504		0.4	<20	11	<10	72	4	<20	19	<5	209	62
505		0.6	<20	7	<10	47	4	<20	15	<5	146	70
506		0.6	<20	9	<10	59	5	<20	19	<5	372	62
507		0.6	<20	<5	<10	56	7	<20	11	<5	140	28
508		0.5	<20	8	<10	119	9	<20	62	<5	428	58
509		0.2	<20	<5	<10	79	6	<20	39	<5	111	50
510		0.3	<20	<5	<10	112	10	<20	9	<5	127	34
511		0.5	<20	<5	<10	69	3	<20	22	<5	72	62
512		0.8	<20	5	<10	49	6	<20	12	<5	90	36
513		0.2	<20	10	<10	97	7	<20	22	<5	382	52
514		0.5	<20	6	<10	48	3	<20	13	<5	118	101
515		0.6	<20	13	<10	61	6	<20	18	<5	133	48
516		0.4	<20	6	<10	93	4	<20	20	<5	224	58
517		0.8	<20	7	<10	90	8	<20	16	<5	158	34
518		0.2	<20	<5	<10	265	9	<20	14	<5	158	46
519		0.8	<20	9	<10	153	5	<20	12	<5	167	52
520		1.1	<20	8	<10	135	14	<20	18	<5	120	76
521		0.3	<20	7	<10	111	7	<20	8	<5	128	32
522		0.4	<20	7	<10	95	4	<20	13	<5	101	42
523		0.3	<20	8	<10	138	8	<20	15	<5	195	48
524		1.7	<20	8	<10	269	5	<20	15	<5	198	80
525		0.4	<20	6	<10	87	5	<20	16	<5	122	60
526		0.6	<20	<5	<10	64	5	<20	11	<5	96	76
527		1.3	<20	6	<10	102	5	<20	12	<5	221	54
528		0.5	<20	6	<10	78	6	<20	13	<5	151	32
529		<0.2	<20	<5	<10	69	4	<20	7	<5	67	22
530		<0.2	<20	<5	<10	69	5	<20	12	<5	117	28
531		0.9	<20	5	<10	127	6	<20	11	<5	170	44
532		<0.2	<20	<5	<10	48	2	<20	<2	<5	34	10
533		0.6	<20	<5	<10	44	6	<20	9	<5	86	32
534		0.5	<20	<5	<10	56	5	<20	11	<5	133	34
535		<0.2	<20	<5	<10	65	5	<20	11	<5	185	36
536		1.4	<20	14	<10	73	4	<20	37	<5	593	80
537		0.5	<20	9	<10	99	5	<20	16	<5	166	62
538		0.4	<20	<5	<10	42	4	<20	14	<5	61	31
539		0.3	<20	5	<10	59	8	<20	15	<5	157	38

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	AuRew1 PPB	AuRew2 PPB	AuRew3 PPB	Al PCT	Fe PCT	Mn PPM	Mg PCT	Ca PCT	Na PCT	K PCT
540		9				2.26	3.56	435	0.59	0.20	0.06	0.06
541		<5				2.97	4.14	650	1.01	0.22	0.06	0.07
542		<5				1.56	2.53	665	0.40	0.31	0.07	0.06
543		<5				3.93	6.82	2864	1.48	0.75	0.11	0.10
544		42				2.18	3.68	908	0.85	0.48	0.09	0.08
545		9				1.24	2.09	220	0.33	0.29	0.06	0.07
546		<5				3.06	3.65	579	1.75	0.30	0.06	0.08
547		34	50	5		1.87	3.20	1481	0.65	0.40	0.06	0.10
548		<5				1.96	3.42	173	0.51	0.25	0.06	0.08
549		12				3.60	5.75	683	1.54	0.40	0.07	0.25
550		7				2.61	3.37	232	0.93	0.30	0.07	0.08
551		9				1.59	2.91	574	0.39	0.23	0.07	0.07
552		6				1.32	2.59	1226	0.33	0.39	0.07	0.07
553		8				1.49	2.74	849	0.42	0.28	0.07	0.08
554		7				1.90	3.21	584	0.64	0.38	0.06	0.11
555		6				1.25	1.60	1080	0.29	0.96	0.07	0.05
556		8				1.10	1.35	683	0.37	2.22	0.07	0.07
557		7				1.84	2.53	173	0.36	0.34	0.07	0.06
558		9				1.21	2.56	205	0.32	0.17	0.07	0.05
559		9				2.41	3.21	259	0.60	0.19	0.07	0.07
560		7				2.29	3.44	258	0.78	0.45	0.07	0.08
561		<5				1.31	3.49	280	0.23	0.19	0.06	0.06
562		17				3.12	4.07	292	1.03	0.35	0.08	0.07
563		10				1.04	2.21	104	0.20	0.14	0.06	0.08
564		8				0.63	2.25	105	0.16	0.13	0.06	0.04
565		9				1.68	3.67	189	0.66	0.26	0.06	0.05
566		<5				1.35	1.81	125	0.23	0.99	0.07	0.05
567		14				3.53	6.47	568	1.29	0.48	0.09	0.07
568		<5				1.95	3.54	870	0.64	0.26	0.07	0.08
569		6				1.88	3.11	629	0.56	0.26	0.07	0.06
570		<5				3.25	5.90	430	0.95	0.29	0.06	0.31
571		<5				2.72	4.71	329	0.98	0.15	0.01	0.10
572		6				3.05	6.57	2027	1.74	0.64	0.02	0.10
573		6			13	2.65	4.01	159	0.96	0.46	0.03	0.04
574		11			5	2.03	2.47	445	0.82	2.31	0.05	0.18
575		8			9	1.78	2.83	681	0.59	0.57	0.03	0.13
576		994	15	28	189	1.64	3.12	194	0.63	0.52	0.02	0.05
577		8			9	1.61	2.38	312	0.70	0.56	0.04	0.08
578		12			13	0.79	2.04	102	0.20	0.30	0.02	0.03
579		29			27	2.86	6.10	7050	1.57	1.26	0.03	0.07

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SAMPLE NUMBER	ELEMENT UNITS	Sc PPM	V PPM	Cr PPM	Co PPM	Ni PPM	Cu PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM
540		<5	49	28	9	17	8	10	8	3	<1	0.8
541		<5	73	22	9	12	18	19	8	4	<1	0.3
542		<5	45	17	9	11	11	10	8	5	<1	0.4
543		15	100	26	40	35	15	120	21	28	<1	0.5
544		<5	71	30	15	19	19	29	13	9	<1	0.4
545		<5	36	16	7	10	6	13	8	5	<1	0.3
546		<5	59	23	20	19	21	6	9	2	<1	0.5
547		<5	55	25	12	17	13	28	13	6	<1	0.3
548		<5	53	34	8	18	12	55	8	6	<1	0.5
549		10	154	47	34	31	56	194	12	9	<1	0.4
550		<5	58	29	14	20	13	103	9	6	<1	0.4
551		<5	50	20	9	13	9	40	7	6	<1	<0.2
552		<5	47	19	7	10	7	14	13	5	<1	0.4
553		<5	49	22	8	11	10	16	10	6	<1	0.2
554		<5	66	24	12	15	15	21	11	5	<1	0.4
555		<5	30	16	6	8	7	6	17	12	<1	0.2
556		<5	23	30	7	13	136	24	31	53	<1	1.2
557		<5	40	22	9	17	11	18	12	24	<1	0.6
558		<5	46	17	6	9	6	13	5	5	<1	0.6
559		<5	51	25	7	16	35	13	8	3	<1	0.4
560		<5	56	22	11	20	23	18	16	7	<1	0.6
561		<5	65	21	5	8	4	11	9	4	<1	0.4
562		<5	47	25	11	18	8	17	12	4	<1	0.5
563		<5	49	12	4	5	5	13	7	2	1	0.5
564		<5	78	10	6	4	7	6	4	2	<1	<0.2
565		<5	55	21	9	14	7	32	7	4	<1	0.4
566		<5	33	16	6	7	6	12	21	11	<1	0.3
567		8	211	191	30	83	28	403	22	4	<1	0.3
568		<5	60	25	11	16	11	22	9	5	<1	0.2
569		<5	62	20	11	16	14	26	8	6	<1	0.2
570		8	160	20	20	16	15	<5	7	5	<1	0.3
571		6	115	51	20	26	29	58	6	3	<1	0.4
572		<5	97	35	24	23	32	233	13	8	2	0.4
573		<5	73	40	15	21	10	45	14	4	<1	0.3
574		5	44	32	10	24	67	129	39	38	<1	0.4
575		5	44	29	11	19	15	100	16	19	<1	0.3
576		<5	39	14	8	12	16	37	12	2	2	<0.2
577		<5	44	25	12	18	13	11	14	9	<1	<0.2
578		<5	48	14	4	5	4	28	8	3	<1	<0.2
579		<5	55	42	35	29	30	271	28	10	2	1.5

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SAMPLE NUMBER	ELEMENT UNITS	Cd PPM	Sn PPM	Sb PPM	Te PPM	Ba PPM	La PPM	W PPM	Pb PPM	Bi PPM	Zn PPM	Hg PPB
540		1.2	<20	8	<10	90	4	<20	29	<5	422	48
541		0.7	<20	12	<10	74	5	<20	21	<5	177	66
542		<0.2	<20	<5	<10	57	4	<20	10	<5	157	42
543		1.6	<20	11	<10	139	14	<20	29	<5	218	112
544		1.1	78	5	<10	100	8	<20	30	<5	193	55
545		<0.2	<20	<5	<10	42	5	<20	15	<5	104	40
546		0.4	<20	8	<10	96	6	<20	32	<5	294	29
547		0.8	<20	6	<10	126	6	<20	28	<5	314	55
548		0.5	<20	6	<10	62	6	<20	16	<5	116	42
549		<0.2	<20	9	<10	107	10	<20	14	<5	245	53
550		0.6	<20	7	<10	76	8	<20	19	<5	147	62
551		0.4	<20	<5	<10	60	6	<20	13	<5	108	51
552		0.3	<20	<5	<10	91	5	<20	11	<5	106	33
553		1.0	<20	5	<10	86	6	<20	19	<5	116	53
554		0.3	<20	6	<10	61	6	<20	16	<5	162	36
555		0.4	<20	6	<10	96	10	<20	11	<5	112	115
556		2.4	<20	6	<10	122	27	<20	18	<5	316	681
557		0.7	<20	7	<10	95	12	<20	14	<5	385	59
558		0.4	<20	<5	<10	33	6	<20	18	<5	232	26
559		0.7	<20	10	<10	71	4	<20	37	<5	1469	46
560		0.3	<20	9	<10	148	7	<20	14	<5	615	26
561		0.3	<20	<5	<10	108	5	<20	20	<5	324	40
562		1.1	<20	10	<10	87	5	<20	15	<5	645	38
563		0.9	<20	<5	<10	46	3	<20	11	<5	164	46
564		<0.2	<20	<5	<10	40	3	<20	8	<5	133	26
565		<0.2	<20	8	<10	44	5	<20	27	<5	343	22
566		<0.2	<20	<5	<10	86	10	<20	37	<5	106	75
567		<0.2	<20	7	<10	120	6	<20	15	<5	254	46
568		0.3	<20	7	<10	90	6	<20	17	<5	134	47
569		0.3	<20	6	<10	65	7	<20	14	<5	142	59
570		0.4	<20	7	<10	97	6	<20	10	<5	185	51
571		1.0	<20	9	<10	42	5	<20	16	<5	178	36
572		1.7	<20	11	<10	128	7	<20	45	<5	312	142
573		0.8	<20	10	<10	44	5	<20	19	<5	87	38
574		1.8	<20	9	<10	157	39	<20	15	<5	146	184
575		1.0	<20	7	<10	123	18	<20	15	<5	127	71
576		0.5	<20	7	<10	38	3	<20	16	<5	105	47
577		<0.2	<20	6	<10	54	7	<20	11	<5	81	24
578		0.3	<20	<5	<10	25	4	<20	7	<5	45	172
579		1.5	<20	19	<10	233	12	<20	52	<5	241	255

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	AuRew1 PPB	AuRew2 PPB	AuRew3 PPB	Al PCT	Fe PCT	Mn PPM	Mg PCT	Ca PCT	Na PCT	K PCT
580		8				3.60	4.75	706	1.56	0.42	0.04	0.10
581		6				1.39	2.72	235	0.27	0.17	0.01	0.04
582		7				1.40	2.24	130	0.75	0.22	0.02	0.12
583		21				2.47	4.09	606	0.81	0.36	0.02	0.23
584		11				1.68	2.96	797	0.60	0.38	0.02	0.06
585		<5				1.37	2.72	208	0.34	0.23	0.02	0.04
586		11				0.15	0.51	429	0.21	4.85	0.02	0.02

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SAMPLE NUMBER	ELEMENT UNITS	Sc PPM	V PPM	Cr PPM	Co PPM	Ni PPM	Cu PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM
580		7	98	48	22	30	27	35	16	5	<1	0.3
581		<5	58	15	6	7	6	8	6	2	<1	0.5
582		<5	35	14	6	7	8	<5	6	1	<1	<0.2
583		<5	94	26	18	18	31	20	9	4	<1	0.4
584		<5	46	24	9	16	8	29	10	6	1	0.2
585		<5	45	20	7	12	8	14	10	5	<1	0.2
586		<5	7	2	<1	5	27	<5	59	5	<1	<0.2

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SAMPLE NUMBER	ELEMENT UNITS	Cd PPM	Sn PPM	Sb PPM	Te PPM	Ba PPM	La PPM	W PPM	Pb PPM	Bi PPM	Zn PPM	Hg PPB
580		1.2	<20	8	<10	105	8	<20	21	<5	232	63
581		<0.2	<20	5	<10	34	4	<20	11	<5	101	38
582		1.0	<20	5	<10	53	4	<20	8	<5	73	22
583		0.3	<20	6	<10	87	6	<20	10	<5	164	47
584		0.2	<20	7	<10	80	7	<20	21	<5	175	46
585		<0.2	<20	<5	<10	61	6	<20	9	<5	86	28
586		2.3	<20	<5	<10	133	4	<20	9	<5	118	251

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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe PCT	Mn PPM	Mg PCT	Ca PCT	Na PCT	K PCT	Sc PPM	V PPM	Cr PPM	Co PPM
587		0.46	0.62	81	0.26	3.86	0.04	0.03	<5	26	8	2
588		2.80	4.83	594	1.17	0.39	0.04	0.14	5	110	39	20
589		0.84	2.13	321	0.16	0.16	0.04	0.06	<5	42	14	5
590		3.30	5.52	748	1.44	0.59	0.05	0.23	8	151	33	28
591		4.03	5.23	1361	1.20	0.57	0.05	0.20	<5	95	38	26
592		2.12	3.89	1194	1.03	0.48	0.06	0.12	<5	79	24	18
593		2.09	3.42	595	0.79	0.37	0.05	0.08	<5	57	31	13
594		3.05	3.25	7446	1.77	2.02	0.08	0.07	<5	51	47	15
595		3.87	4.59	1087	3.14	0.76	0.06	0.06	<5	78	30	23
596		3.29	4.74	1330	2.07	0.64	0.06	0.10	<5	63	55	20
597		2.30	4.08	2119	0.97	0.42	0.04	0.28	<5	75	26	19
598		2.17	2.88	740	0.94	0.52	0.07	0.19	<5	51	33	12
599		2.36	4.76	1346	0.99	0.63	0.05	0.22	<5	68	34	26
600		1.73	2.14	404	0.65	0.62	0.07	0.10	<5	41	26	10
601		1.94	2.28	311	0.80	0.58	0.08	0.10	5	40	30	8
602		1.85	3.32	308	0.47	0.46	0.06	0.07	<5	56	26	9
603		2.17	3.24	462	1.21	0.39	0.06	0.26	<5	54	30	13
604		0.25	1.10	1623	0.17	4.20	0.06	0.03	<5	14	6	7
605		0.25	0.27	4569	0.14	5.43	0.06	0.02	<5	4	5	2
606		3.57	3.30	1336	3.24	1.77	0.15	0.09	<5	52	43	17
607		4.18	4.03	620	3.20	0.71	0.11	0.07	6	74	73	18
608		2.31	4.11	986	1.87	0.56	0.05	0.05	<5	27	23	12
609		2.85	3.91	705	1.12	0.39	0.05	0.10	<5	68	20	17
610		1.55	2.41	215	0.59	0.30	0.06	0.08	<5	41	22	8
611		1.97	2.87	497	0.74	0.26	0.06	0.09	<5	54	27	11
612		2.05	2.81	204	0.99	0.55	0.06	0.09	<5	44	22	12
613		0.32	0.87	978	0.20	4.42	0.06	0.04	<5	9	7	4
614		2.02	3.88	607	0.81	0.24	0.05	0.09	<5	67	28	11
615		2.55	5.63	1994	1.34	0.55	0.06	0.06	<5	42	24	21
616		1.29	2.55	836	0.36	0.36	0.05	0.06	<5	37	18	7
617		1.94	2.99	5871	0.67	0.78	0.05	0.09	<5	40	23	13
618		3.09	4.52	7911	1.19	0.88	0.05	0.05	<5	50	92	28
619		2.22	3.27	2427	2.01	0.77	0.05	0.04	<5	34	19	15
620		2.46	4.87	1913	1.30	0.57	0.05	0.07	<5	84	35	17
621		3.24	9.86	8211	2.30	0.69	0.05	0.05	7	57	35	39
622		2.15	3.41	896	0.94	0.44	0.05	0.07	<5	59	23	12
623		2.65	3.98	280	0.92	0.52	0.05	0.06	<5	60	29	13
624		2.23	3.33	966	0.79	0.20	0.05	0.05	<5	54	27	16
625		1.88	4.19	324	0.47	0.29	0.04	0.06	<5	57	26	8
626		1.13	2.33	460	0.27	0.34	0.05	0.06	<5	37	18	7

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SAMPLE NUMBER	ELEMENT UNITS	Ni PPM	Cu PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
587		11	103	<5	122	19	2	0.3	1.8	<20	5	<10
588		19	28	39	10	6	<1	0.7	1.4	<20	11	<10
589		7	6	15	5	3	<1	0.6	0.5	<20	<5	<10
590		27	40	20	15	4	2	0.6	0.3	<20	13	<10
591		31	23	26	16	5	2	0.8	0.4	<20	15	<10
592		22	24	59	12	6	<1	0.4	<0.2	<20	11	<10
593		19	9	109	10	5	<1	0.5	0.5	<20	9	<10
594		26	16	89	53	4	<1	0.4	2.6	<20	13	<10
595		19	20	303	17	8	2	0.3	0.8	25	13	<10
596		32	14	402	16	6	<1	0.2	1.6	<20	10	<10
597		16	19	201	13	4	1	0.8	1.3	<20	10	<10
598		22	25	58	15	12	<1	0.4	0.9	<20	8	<10
599		28	20	171	24	5	1	0.5	0.6	<20	11	<10
600		17	13	<5	16	16	<1	0.5	<0.2	<20	8	<10
601		19	13	14	16	13	<1	0.4	0.4	<20	9	<10
602		16	8	51	13	4	1	0.6	0.4	<20	7	<10
603		24	15	130	11	3	1	0.5	<0.2	<20	10	<10
604		17	64	155	55	25	2	0.3	2.6	<20	<5	<10
605		12	57	39	73	4	<1	0.3	1.8	<20	<5	<10
606		40	34	471	82	15	1	0.7	0.5	<20	15	<10
607		46	15	49	47	6	<1	0.6	0.8	<20	16	<10
608		22	8	100	9	3	1	0.5	0.8	<20	15	<10
609		22	19	24	11	3	1	0.5	0.8	<20	13	<10
610		18	8	16	8	7	<1	0.5	<0.2	<20	7	<10
611		17	9	30	7	5	<1	0.4	<0.2	<20	8	<10
612		20	16	26	13	5	<1	0.5	0.7	<20	9	<10
613		12	33	24	52	17	2	0.5	2.4	<20	<5	<10
614		18	9	48	6	4	<1	0.3	0.3	<20	9	<10
615		22	6	124	11	6	<1	0.6	0.9	<20	12	<10
616		11	8	8	9	4	<1	0.6	0.5	<20	6	<10
617		14	8	25	13	6	<1	0.4	1.8	<20	10	<10
618		43	14	107	15	7	<1	1.0	2.3	<20	22	<10
619		22	28	98	9	11	1	1.4	1.8	<20	14	<10
620		23	13	213	13	2	2	0.5	1.3	<20	13	<10
621		36	9	67	12	20	1	0.9	5.3	<20	15	<10
622		18	8	58	13	5	<1	0.6	0.6	<20	9	<10
623		24	10	44	14	4	<1	0.3	<0.2	<20	10	<10
624		30	28	11	7	10	<1	0.5	0.3	<20	9	<10
625		11	5	12	10	2	1	0.8	0.6	<20	9	<10
626		11	8	9	9	4	<1	0.5	0.6	<20	<5	<10

Bondar-Clegg & Company Ltd.

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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	W PPM	Pb PPM	Bi PPM	Zn PPM	Hg PPB	Au PPB	AuRew1 PPB	AuRew2 PPB
587		178	16	<20	25	<5	124	354	9		
588		149	7	<20	25	<5	185	35	7		
589		55	4	<20	16	<5	85	40	<5		
590		105	7	<20	17	<5	153	28	8		
591		149	8	<20	24	<5	243	64	12		
592		139	7	<20	29	<5	135	48	<5		
593		120	6	<20	24	<5	157	40	9		
594		355	6	<20	33	<5	337	134	9		
595		59	9	<20	32	<5	328	46	17		
596		105	9	<20	31	<5	231	35	274	<5	15
597		116	6	<20	25	<5	204	61	17		
598		147	13	<20	20	<5	68	53	12		
599		123	6	<20	32	<5	291	29	10		
600		108	15	<20	16	<5	81	26	5		
601		104	11	<20	16	<5	88	35	40		
602		56	5	<20	21	<5	103	39	10		
603		87	6	<20	21	<5	138	31	28		
604		131	17	<20	22	<5	170	278	19		
605		267	2	<20	4	<5	71	393	15		
606		128	11	<20	33	<5	171	137	26		
607		82	7	<20	41	<5	186	67	13		
608		56	5	<20	50	<5	234	74	10		
609		95	5	<20	41	<5	254	61	8		
610		81	6	<20	15	<5	86	24	10		
611		99	5	<20	20	<5	147	32	10		
612		91	5	<20	17	<5	135	15	36	<5	5
613		146	9	<20	38	<5	422	156	31		
614		67	6	<20	23	<5	222	32	7		
615		88	7	<20	31	<5	370	52	12		
616		70	4	<20	17	<5	203	44	12		
617		200	7	<20	27	<5	590	76	35		
618		205	9	<20	52	<5	396	143	14		
619		53	10	<20	63	<5	394	117	63	98	70
620		110	5	<20	73	<5	380	61	25		
621		265	19	<20	73	<5	946	288	13		
622		65	5	<20	28	<5	299	43	13		
623		55	6	<20	17	<5	194	28	8		
624		77	12	<20	26	<5	838	41	17		
625		57	5	<20	33	<5	606	46	15		
626		92	6	<20	11	<5	256	22	10		

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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe PCT	Mn PPM	Mg PCT	Ca PCT	Na PCT	K PCT	Sc PPM	V PPM	Cr PPM	Co PPM
627		1.64	3.37	817	0.56	0.46	0.05	0.10	<5	54	22	10
628		3.60	3.66	1699	2.37	1.02	0.06	0.10	<5	28	23	15
629		3.68	3.35	1455	2.63	0.68	0.05	0.05	<5	36	29	12
630		1.73	2.94	629	0.64	0.43	0.06	0.07	<5	49	28	10
631		1.09	2.26	274	0.27	0.30	0.05	0.05	<5	37	17	6
632		0.83	2.10	608	0.20	0.18	0.04	0.04	<5	37	15	5
633		1.43	2.63	457	0.50	0.26	0.05	0.05	<5	40	23	8
634		2.13	3.43	278	1.17	0.37	0.05	0.06	<5	51	30	13
635		2.92	4.02	463	1.30	0.48	0.07	0.06	<5	68	34	14
636		1.38	4.11	>20000	0.54	2.73	0.06	0.09	<5	51	33	19
637		3.28	3.53	670	1.47	0.53	0.07	0.07	<5	59	35	13
638		0.52	1.71	184	0.10	0.20	0.05	0.05	<5	33	11	3
639		0.56	1.30	165	0.11	0.18	0.06	0.04	<5	22	10	3
640		1.47	2.98	387	0.37	0.27	0.05	0.08	<5	45	22	8
641		1.81	3.76	1283	0.57	0.19	0.04	0.07	<5	79	23	13
642		1.93	3.32	944	0.83	0.47	0.05	0.06	<5	46	24	13
643		3.02	3.77	2875	2.05	0.69	0.06	0.12	5	89	30	23
644		1.92	3.28	1564	0.81	0.28	0.05	0.08	<5	57	23	13
645		1.57	2.36	207	0.47	0.19	0.05	0.07	<5	35	18	8
646		1.10	3.00	165	0.26	0.23	0.05	0.06	<5	46	17	5
647		1.39	2.72	203	0.50	0.30	0.06	0.07	<5	43	20	9
648		0.88	2.21	388	0.37	0.82	0.05	0.04	<5	40	14	5
649		1.63	3.57	228	0.47	0.33	0.05	0.08	<5	62	25	8
650		1.43	2.97	167	0.35	0.14	0.05	0.05	<5	47	21	7
651		1.81	3.61	203	0.46	0.18	0.05	0.05	<5	49	25	8
652		2.24	3.80	227	0.98	0.23	0.05	0.06	<5	49	36	12
653		2.27	3.31	238	1.06	0.36	0.05	0.06	<5	56	32	13
654		5.37	4.03	1470	3.57	1.06	0.17	0.06	7	81	57	17
655		3.69	3.39	506	1.22	0.45	0.05	0.05	<5	51	50	13
656		2.06	6.09	3808	0.85	0.23	0.05	0.05	<5	38	21	25
657		1.73	3.61	267	0.47	0.38	0.05	0.06	<5	51	23	8
658		2.72	3.70	508	1.38	0.31	0.05	0.06	<5	61	50	14
659		0.82	2.10	596	0.14	0.15	0.05	0.04	<5	33	13	7
660		1.48	3.48	439	0.36	0.12	0.05	0.04	<5	48	16	9
661		0.42	1.62	53	0.04	0.07	0.04	0.03	<5	36	7	3
662		0.77	2.15	158	0.18	0.11	0.05	0.04	<5	41	13	5
663		2.11	3.20	355	0.82	0.47	0.05	0.08	<5	49	29	13
664		0.76	1.86	98	0.23	0.14	0.05	0.04	<5	41	11	4
665		1.54	2.53	262	0.52	0.20	0.05	0.05	<5	53	22	8
666		1.34	2.49	2168	0.41	0.25	0.06	0.06	<5	54	17	10

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SAMPLE NUMBER	ELEMENT UNITS	Ni PPM	Cu PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
627		14	9	21	10	6	<1	0.4	0.7	<20	7	<10
628		21	7	45	16	3	1	0.4	2.0	<20	13	<10
629		22	6	22	10	2	<1	0.4	1.8	<20	12	<10
630		18	13	144	11	11	<1	0.4	0.8	<20	8	<10
631		11	4	24	7	6	<1	0.2	0.4	<20	<5	<10
632		6	3	22	5	4	<1	0.3	0.6	<20	<5	<10
633		15	8	46	7	5	<1	0.4	<0.2	<20	7	<10
634		23	9	576	9	4	<1	0.6	1.2	<20	9	<10
635		20	5	186	20	2	1	0.6	0.3	<20	11	<10
636		51	123	1154	49	66	3	0.4	6.7	<20	10	<10
637		19	7	342	16	4	<1	0.4	0.6	<20	11	<10
638		5	2	<5	6	3	<1	0.6	<0.2	<20	<5	<10
639		5	3	40	5	6	<1	0.4	0.5	<20	<5	<10
640		14	6	80	8	5	1	0.5	0.6	<20	7	<10
641		13	15	138	6	1	1	0.6	<0.2	<20	7	<10
642		17	10	22	11	9	<1	0.5	0.4	<20	7	<10
643		68	24	80	24	13	2	0.3	0.9	<20	11	<10
644		18	17	29	11	5	<1	0.5	1.2	<20	8	<10
645		12	9	35	5	5	<1	0.7	<0.2	<20	5	<10
646		10	5	23	7	3	<1	0.7	0.3	<20	<5	<10
647		15	10	17	8	6	<1	0.3	<0.2	<20	<5	<10
648		7	3	27	16	4	<1	<0.2	<0.2	<20	<5	<10
649		15	9	39	10	4	1	0.3	0.7	<20	6	<10
650		13	8	17	5	4	<1	0.3	<0.2	<20	<5	<10
651		14	5	33	5	4	<1	0.6	0.8	<20	8	<10
652		26	13	58	7	5	<1	0.7	0.7	<20	10	<10
653		22	11	143	9	4	2	0.5	<0.2	<20	8	<10
654		26	21	76	67	8	<1	0.5	0.9	<20	15	<10
655		37	27	70	11	4	<1	1.2	1.6	<20	14	<10
656		26	13	107	5	6	1	0.9	2.3	<20	19	<10
657		13	9	18	9	2	<1	0.7	0.5	<20	7	<10
658		24	12	45	8	4	<1	0.6	0.7	<20	10	<10
659		7	2	8	5	4	<1	0.7	0.3	<20	<5	<10
660		10	4	40	5	2	<1	<0.2	0.6	<20	6	<10
661		5	5	15	4	<1	1	0.5	0.7	<20	<5	<10
662		7	3	11	4	3	<1	0.5	0.5	<20	<5	<10
663		22	8	68	10	3	<1	0.4	0.6	<20	7	<10
664		7	3	25	4	2	<1	0.3	0.6	<20	<5	<10
665		13	5	30	7	3	<1	0.3	<0.2	<20	5	<10
666		12	9	81	11	7	<1	0.4	1.1	<20	6	<10

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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	W PPM	Pb PPM	Bi PPM	Zn PPM	Hg PPB	Au PPB	AuRes1 PPB	AuRes2 PPB
627		140	7	<20	14	<5	205	32	15		
628		118	5	<20	32	<5	372	61	14		
629		91	5	<20	24	<5	508	35	14		
630		87	9	<20	14	<5	221	33	7		
631		49	5	<20	7	<5	106	20	6		
632		42	5	<20	6	<5	101	24	<5		
633		68	6	<20	11	<5	112	31	40		
634		54	5	<20	29	<5	263	29	7		
635		73	5	<20	21	<5	246	49	7		
636		858	42	<20	14	<5	333	934	21		
637		61	6	<20	16	<5	186	44	<5		
638		34	3	<20	6	<5	50	14	6		
639		36	4	<20	6	<5	44	20	5		
640		64	5	<20	14	<5	107	33	12		
641		112	3	<20	12	<5	214	64	8		
642		70	10	<20	20	<5	124	66	13		
643		276	9	<20	20	<5	498	272	13		
644		100	7	<20	26	<5	163	27	<5		
645		42	4	<20	10	<5	86	29	35		
646		48	4	<20	10	<5	72	27	5		
647		47	5	<20	10	<5	66	26	<5		
648		48	4	<20	10	<5	83	56	140	107	361
649		62	4	<20	11	<5	97	22	5		
650		35	4	<20	12	<5	109	13	6		
651		31	4	<20	19	<5	152	33	37		
652		51	5	<20	23	<5	237	31	5		
653		48	4	<20	16	<5	202	18	20		
654		285	9	<20	23	<5	367	42	<5		
655		121	5	<20	18	<5	376	64	15		
656		123	6	<20	82	<5	802	117	5		
657		101	4	<20	26	<5	420	28	6		
658		99	5	<20	27	<5	278	22	9		
659		33	3	<20	9	<5	136	31	<5		
660		43	3	<20	19	<5	199	35	5		
661		18	2	<20	9	<5	38	24	10		
662		22	3	<20	7	<5	99	16	<5		
663		87	4	<20	19	<5	317	35	<5		
664		28	3	<20	8	<5	62	13	5		
665		72	4	<20	10	<5	241	28	5		
666		115	6	<20	18	<5	119	72	<5		

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PAGE 3A

SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe PCT	Mn PPM	Mg PCT	Ca PCT	Na PCT	K PCT	Sc PPM	V PPM	Cr PPM	Co PPM
667		1.36	2.47	161	0.29	0.23	0.05	0.04	<5	38	16	6
668		0.52	1.31	108	0.15	0.12	0.05	0.03	<5	30	10	3
669		1.64	3.99	297	0.90	0.28	0.05	0.06	<5	61	26	12
670		0.85	1.50	103	0.33	0.15	0.05	0.08	<5	29	9	4
671		0.54	1.32	99	0.19	0.15	0.05	0.05	<5	29	9	3
672		0.88	1.36	103	0.27	0.15	0.05	0.05	<5	27	10	4
673		1.54	4.72	124	0.45	0.17	0.05	0.09	<5	112	18	9
674		1.58	2.65	234	0.51	0.53	0.06	0.07	<5	36	20	9
675		1.58	4.36	243	0.51	0.33	0.05	0.26	<5	105	18	10
676		0.66	2.90	146	0.11	0.12	0.05	0.05	<5	48	15	3
677		0.63	1.31	222	0.14	0.17	0.05	0.05	<5	27	9	3
678		1.42	1.91	165	0.81	0.62	0.03	0.31	<5	23	10	3
679		3.09	7.16	1425	1.71	0.93	0.05	0.10	<5	127	28	25
680		1.10	2.88	196	0.34	0.30	0.04	0.06	<5	48	16	8
681		1.97	3.06	846	0.85	0.39	0.05	0.07	<5	46	24	12
682		1.09	1.91	175	0.18	0.22	0.05	0.04	<5	31	12	4
683		0.85	2.39	168	0.22	0.22	0.04	0.05	<5	42	13	4
684		3.29	4.91	234	1.56	0.40	0.06	0.10	<5	75	38	18
685		1.87	2.61	1325	0.42	0.38	0.05	0.10	<5	31	25	8
686		0.38	1.78	122	0.08	0.20	0.04	0.05	<5	39	10	2
687		1.60	2.72	456	0.58	0.28	0.05	0.05	<5	37	18	9
688		3.86	3.61	580	2.49	0.59	0.04	0.07	<5	47	32	14
689		0.59	2.01	549	0.13	0.19	0.05	0.09	<5	33	10	4
690		1.74	3.45	1686	0.52	0.52	0.05	0.06	<5	43	21	12

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SAMPLE NUMBER	ELEMENT UNITS	Ni PPM	Cu PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
667		10	4	11	10	3	<1	0.3	1.2	<20	5	<10
668		5	2	<5	3	3	<1	0.4	<0.2	<20	<5	<10
669		18	11	36	7	5	<1	0.6	<0.2	<20	8	<10
670		6	3	10	5	2	<1	<0.2	<0.2	<20	<5	<10
671		4	2	14	5	3	<1	0.4	0.7	<20	<5	<10
672		7	2	7	5	3	<1	0.4	<0.2	<20	<5	<10
673		11	9	55	6	2	1	0.6	0.8	<20	7	<10
674		12	6	28	12	7	1	0.5	0.9	<20	7	<10
675		9	8	9	9	3	1	0.7	<0.2	<20	7	<10
676		6	3	<5	4	3	1	0.2	<0.2	<20	<5	<10
677		5	3	10	5	2	<1	0.6	<0.2	<20	<5	<10
678		7	6	78	19	<1	<1	0.4	<0.2	<20	6	<10
679		19	21	305	19	6	1	0.7	0.5	24	12	<10
680		12	12	39	7	3	<1	0.6	<0.2	<20	<5	<10
681		18	8	70	10	6	<1	0.6	0.7	<20	8	<10
682		6	3	12	6	5	<1	0.2	0.2	<20	5	<10
683		8	5	16	7	2	<1	0.7	<0.2	<20	<5	<10
684		24	15	56	13	5	1	0.7	0.3	<20	11	<10
685		12	8	72	11	10	<1	0.7	0.8	<20	7	<10
686		3	2	<5	6	2	<1	0.3	<0.2	<20	<5	<10
687		14	10	23	6	6	<1	0.5	<0.2	<20	8	<10
688		27	16	131	13	3	<1	0.3	0.2	<20	11	<10
689		4	2	6	5	3	<1	0.2	<0.2	<20	<5	<10
690		14	10	26	11	4	<1	0.6	<0.2	<20	7	<10

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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	W PPM	Pb PPM	Bi PPM	Zn PPM	Hg PPB	Au PPB	AuRew1 PPB	AuRew2 PPB
667		52	3	<20	10	<5	88	66	8		
668		26	3	<20	6	<5	36	13	<5		
669		52	4	<20	19	<5	122	24	<5		
670		31	3	<20	6	<5	58	11	42		
671		53	3	<20	6	<5	42	16	8		
672		41	3	<20	9	<5	54	11	<5		
673		33	3	<20	14	<5	78	22	15		
674		82	8	<20	11	<5	85	42	14		
675		82	4	<20	15	<5	114	22	5		
676		21	3	<20	9	<5	59	22	6		
677		31	2	<20	14	<5	66	33	13		
678		84	2	<20	14	<5	93	18	13		
679		103	5	<20	35	<5	343	59	9		
680		90	3	<20	20	<5	127	22	10		
681		103	5	<20	21	<5	230	26	7		
682		34	5	<20	7	<5	87	29	6		
683		38	3	<20	10	<5	95	29	6		
684		79	5	<20	23	<5	304	35	5		
685		105	7	<20	16	<5	471	82	7		
686		33	2	<20	9	<5	51	24	<5		
687		50	5	<20	17	<5	173	28	<5		
688		70	4	<20	25	<5	215	40	15		
689		36	2	<20	7	<5	75	28	6		
690		75	5	<20	18	<5	183	44	7		

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Al PCT	Fe PCT	Mn PPM	Mg PCT	Ca PCT	Na PCT	K PCT	Sc PPM	V PPM	Cr PPM
691		<5	1.42	2.88	143	0.16	0.16	0.05	0.05	<5	42	18
692		<5	1.42	2.56	160	0.14	0.15	0.05	0.05	<5	36	17
693		<5	1.02	2.18	3192	0.21	0.33	0.05	0.08	<5	36	16
694		<5	0.87	3.02	415	0.16	0.25	0.06	0.06	<5	46	17
695		<5	1.43	2.77	2027	0.42	0.16	0.05	0.13	<5	36	18
696		<5	1.75	2.77	1032	0.50	0.22	0.05	0.09	<5	39	22
697		<5	1.23	2.31	246	0.19	0.30	0.02	0.05	<5	38	16
698		<5	1.13	2.18	390	0.26	0.27	0.02	0.05	<5	37	16
699		<5	1.06	2.53	575	0.16	0.28	0.02	0.05	<5	37	15
700		<5	0.80	2.23	998	0.13	0.30	0.02	0.05	<5	37	14
701		<5	1.21	2.97	1065	0.34	0.32	0.05	0.08	<5	52	22
702		<5	1.22	3.16	1267	0.33	0.42	0.06	0.07	<5	46	17
703		7	5.06	6.86	2870	3.10	1.56	0.19	0.05	14	141	24
704		<5	4.14	5.47	2984	1.98	0.70	0.07	0.15	8	136	25
705		<5	2.60	3.55	648	1.15	0.49	0.06	0.08	<5	38	22
706		<5	1.52	3.26	943	0.43	0.42	0.02	0.10	<5	51	23
707		5	2.33	4.66	544	1.07	0.58	0.03	0.28	6	91	40
708		<5	1.59	3.14	370	0.41	0.39	0.03	0.08	<5	48	21
709		<5	2.46	4.11	595	0.82	0.35	0.03	0.07	<5	86	23
710		<5	2.95	4.09	782	1.47	0.42	0.05	0.06	<5	69	40
711		<5	1.26	1.97	206	0.26	0.36	0.06	0.05	<5	31	16
712		<5	2.00	3.92	1220	0.77	0.40	0.06	0.09	<5	84	24
713		<5	2.99	3.64	1881	1.70	1.07	0.09	0.14	<5	41	25
714		<5	2.20	3.31	305	0.51	0.55	0.06	0.09	<5	46	39
715		<5	1.33	2.64	423	0.50	0.37	0.03	0.08	<5	42	22
716		<5	1.76	2.83	334	0.50	0.32	0.03	0.08	<5	47	23
717		<5	1.29	2.20	498	0.26	0.27	0.02	0.07	<5	38	17
718		<5	1.84	2.97	453	0.53	0.26	0.02	0.08	<5	46	24
719		6	1.24	2.57	368	0.20	0.27	0.02	0.05	<5	35	16
720		6	0.32	1.80	106	0.05	0.33	0.05	0.06	<5	36	17
721		17	2.00	3.16	1073	0.73	0.35	0.05	0.08	<5	45	21
722		<5	0.70	2.60	128	0.12	0.14	0.05	0.05	<5	51	13
723		<5	2.00	3.06	264	0.74	0.18	0.05	0.08	<5	46	21
724		<5	1.08	3.01	141	0.25	0.45	0.05	0.08	<5	54	16
725		9	1.44	3.93	305	0.32	0.25	0.02	0.07	<5	69	25
726		<5	0.26	1.09	57	0.05	0.09	0.01	0.03	<5	37	6
727		<5	0.25	1.21	55	0.05	0.13	0.05	0.04	<5	41	7
728		<5	2.03	3.39	290	0.54	0.33	0.05	0.09	<5	52	31
729		<5	1.33	2.55	205	0.35	0.22	0.05	0.06	<5	45	28
730		<5	1.59	3.06	228	0.64	0.19	0.05	0.09	<5	43	18

Bondar-Clegg & Company Ltd.

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SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Ni PPM	Cu PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM
691		6	14	5	<5	6	4	1	0.6	0.7	<20	<5
692		5	9	5	<5	5	3	<1	0.3	1.1	<20	<5
693		7	10	9	<5	13	4	<1	0.4	1.2	<20	<5
694		6	6	4	<5	8	5	<1	0.5	0.3	<20	<5
695		9	10	5	<5	6	2	1	0.6	<0.2	<20	<5
696		9	12	8	<5	10	3	<1	0.4	<0.2	<20	6
697		6	7	3	<5	9	7	<1	0.2	<0.2	<20	<5
698		5	7	9	13	9	7	<1	0.5	0.3	<20	<5
699		5	6	2	21	9	5	<1	0.4	0.9	<20	<5
700		5	6	4	<5	9	4	1	0.4	0.5	<20	<5
701		9	11	7	45	10	4	<1	0.5	0.7	<20	5
702		8	10	14	50	11	3	<1	0.3	0.9	<20	5
703		47	38	70	247	68	34	<1	0.6	1.0	<20	13
704		26	26	35	199	21	13	1	0.5	2.7	<20	11
705		14	18	13	20	14	3	<1	0.6	1.3	<20	8
706		11	15	11	12	14	5	<1	0.4	0.9	<20	5
707		20	31	49	186	16	11	1	0.4	1.3	<20	9
708		9	13	8	29	13	4	1	0.5	0.4	<20	<5
709		16	18	17	95	14	4	<1	0.5	1.7	<20	7
710		17	18	15	165	13	3	1	<0.2	0.7	<20	8
711		7	10	7	11	10	8	<1	<0.2	0.6	<20	<5
712		15	17	19	48	12	6	<1	0.3	0.8	<20	5
713		14	18	10	25	35	7	<1	<0.2	0.4	<20	9
714		12	39	20	74	17	5	<1	0.2	1.5	<20	5
715		12	17	23	51	11	12	<1	<0.2	0.2	<20	<5
716		9	15	13	23	9	6	<1	0.4	<0.2	<20	<5
717		6	10	5	9	8	6	<1	<0.2	0.6	<20	<5
718		10	12	10	12	9	5	2	0.5	0.6	<20	<5
719		6	7	3	5	9	5	<1	<0.2	0.9	<20	<5
720		3	3	4	12	11	2	<1	0.3	0.6	<20	<5
721		10	10	9	11	12	2	<1	<0.2	0.3	<20	5
722		4	4	4	8	5	3	<1	<0.2	<0.2	<20	<5
723		11	12	8	49	7	2	<1	<0.2	0.7	<20	6
724		3	5	3	<5	15	3	1	0.6	0.7	<20	<5
725		9	8	5	59	8	5	1	<0.2	0.9	<20	<5
726		1	1	<1	<5	3	2	<1	0.2	<0.2	<20	<5
727		<1	<1	<1	5	4	2	<1	<0.2	0.4	<20	<5
728		13	26	17	23	10	33	<1	0.5	0.3	<20	6
729		7	13	6	10	7	6	<1	<0.2	0.6	<20	6
730		9	10	6	<5	6	1	<1	0.3	0.7	<20	7

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Al PCT	Fe PCT	Mn PPM	Mg PCT	Ca PCT	Na PCT	K PCT	Sc PPM	V PPM	Cr PPM
731		<5	2.06	2.66	2623	1.06	0.27	0.05	0.08	<5	32	19
732		18	3.19	3.74	1776	1.63	0.50	0.06	0.17	<5	70	108
733		<5	2.17	3.14	544	0.76	0.32	0.06	0.10	<5	41	22
734		17	1.74	2.73	852	0.53	0.37	0.06	0.07	<5	37	19
735		17	1.92	3.05	317	0.50	0.25	0.05	0.06	<5	48	20
736		6	1.38	2.18	901	0.44	0.58	0.06	0.07	<5	37	26
737		6	2.00	3.54	218	0.53	0.36	0.06	0.08	<5	53	26
738		12	2.33	2.48	268	0.80	0.97	0.07	0.15	7	44	32

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SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Ni PPM	Cu PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM
731		13	13	9	8	8	1	<1	0.4	<0.2	<20	11
732		16	34	14	<5	15	2	<1	0.5	0.7	<20	13
733		10	13	6	<5	10	3	<1	0.4	1.1	<20	9
734		9	10	7	<5	13	2	<1	0.5	0.7	<20	8
735		9	11	6	23	7	4	1	0.6	<0.2	<20	6
736		8	14	10	28	16	4	<1	<0.2	0.5	<20	6
737		12	15	10	46	13	6	<1	0.3	0.9	<20	6
738		12	21	22	8	26	24	<1	0.2	<0.2	<20	8

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SAMPLE NUMBER	ELEMENT UNITS	Te PPM	Ba PPM	La PPM	W PPM	Pb PPM	Bi PPM	Zn PPM	Hg PPB
731		<10	67	3	<20	23	<5	128	52
732		<10	139	5	<20	27	<5	158	56
733		<10	57	5	<20	23	<5	184	36
734		<10	106	4	<20	21	<5	131	52
735		<10	45	5	<20	20	<5	105	31
736		<10	102	5	<20	15	<5	107	52
737		<10	74	6	<20	21	<5	81	27
738		<10	183	19	<20	28	<5	110	175

Bondar-Clegg &amp; Company Ltd.

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	AuRew1 PPB	AuRew2 PPB	Al PCT	Fe PCT	Mn PPM	Mg PCT	Ca PCT	Na PCT	K PCT	Sc PPM
739		<5			2.54	3.81	560	0.90	0.39	0.05	0.07	<5
740		<5			2.48	3.75	574	0.99	0.31	0.04	0.07	<5
741		<5			1.86	2.96	520	0.62	0.28	0.05	0.06	<5
742		<5			1.16	2.74	454	0.29	0.36	0.04	0.07	<5
743		<5			1.36	2.15	1326	0.31	0.27	0.04	0.06	<5
744		<5			3.46	3.47	441	2.31	0.37	0.04	0.49	<5
745		<5			1.06	2.81	120	0.19	0.17	0.03	0.05	<5
746		<5			0.39	1.31	133	0.05	0.13	0.03	0.03	<5
747		<5			1.65	2.84	726	0.41	0.11	0.03	0.06	<5
748		<5			1.63	3.17	696	0.39	0.33	0.03	0.07	<5
749		8			1.94	2.04	4215	0.50	0.35	0.04	0.05	<5
750		<5			1.34	2.52	481	0.23	0.42	0.04	0.04	<5
751		<5			1.44	3.49	1683	0.39	0.38	0.04	0.10	<5
752		6			0.86	1.67	178	0.15	0.27	0.04	0.04	<5
753		<5	<5	<5	1.18	3.00	152	0.22	0.17	0.04	0.05	<5
754		<5			1.44	2.82	102	0.21	0.13	0.04	0.04	<5
755		<5			0.78	2.35	88	0.17	0.14	0.04	0.06	<5
756		<5			1.59	3.06	252	0.57	0.25	0.03	0.07	<5
757		<5			0.62	1.19	453	0.17	0.27	0.04	0.04	<5
758		<5			2.09	4.37	213	0.67	0.33	0.04	0.08	<5
759		11			1.52	3.20	395	0.35	0.58	0.04	0.05	<5
760		6			2.29	3.97	1872	0.81	0.56	0.04	0.06	<5
761		<5			0.81	3.04	149	0.13	0.27	0.03	0.08	<5
762		<5			0.80	1.75	151	0.15	0.17	0.04	0.04	<5
763		<5			0.95	2.93	211	0.15	0.24	0.03	0.06	<5
764		<5			2.62	3.60	502	1.24	0.35	0.04	0.09	<5
765		6			1.67	2.67	959	0.62	0.34	0.03	0.08	<5
766		<5			1.07	1.89	1824	0.21	0.53	0.03	0.06	<5
767		<5			1.03	2.15	223	0.28	0.16	0.03	0.06	<5
768		<5			1.37	2.60	422	0.28	0.35	0.04	0.06	<5
769		<5			3.69	5.18	2152	1.36	0.70	0.08	0.08	6
770		<5			4.13	3.52	902	1.84	0.86	0.08	0.08	<5
771		<5			3.09	4.46	247	1.21	0.34	0.04	0.06	<5
772		<5			3.76	4.02	559	2.12	0.33	0.04	0.07	<5
773		<5			2.43	4.01	271	0.86	0.36	0.04	0.05	<5
774		<5			4.03	3.47	333	2.39	0.57	0.04	0.05	<5
775		<5			2.37	5.54	2345	0.80	0.58	0.03	0.08	<5
776		<5			2.85	3.54	554	0.90	0.34	0.03	0.06	<5
777		<5			3.70	6.51	5134	1.68	0.47	0.03	0.29	9
778		<5			2.46	3.31	220	1.05	0.33	0.03	0.11	<5

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SAMPLE NUMBER	ELEMENT UNITS	V PPM	Cr PPM	Co PPM	Ni PPM	Cu PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM
739		62	31	12	23	7	137	12	3	<1	<0.2	1.9
740		61	26	12	20	10	105	13	3	<1	<0.2	0.6
741		47	22	11	17	9	42	10	3	<1	<0.2	1.4
742		44	18	5	12	7	16	9	3	<1	<0.2	1.0
743		37	16	10	11	9	9	10	8	<1	<0.2	0.5
744		40	27	12	23	16	65	10	4	<1	<0.2	1.0
745		56	15	4	9	5	20	6	5	<1	<0.2	0.4
746		26	8	1	3	1	<5	4	3	<1	<0.2	0.5
747		38	16	8	9	7	33	5	3	<1	<0.2	1.0
748		64	19	9	14	8	5	13	3	<1	0.3	0.6
749		29	21	23	11	16	7	10	19	3	0.4	1.6
750		23	14	11	10	10	24	11	19	<1	<0.2	0.7
751		65	25	11	11	4	56	13	2	<1	<0.2	1.3
752		24	11	4	7	2	14	8	3	<1	<0.2	0.7
753		44	18	6	10	3	20	6	2	<1	<0.2	0.6
754		42	19	4	11	3	17	5	3	<1	0.4	0.9
755		49	14	3	8	3	17	5	2	<1	<0.2	0.8
756		46	18	8	17	15	63	8	2	<1	<0.2	0.3
757		20	10	3	6	7	39	8	9	<1	<0.2	0.5
758		83	29	10	16	9	21	10	3	<1	0.3	1.2
759		64	16	7	13	10	27	23	2	<1	<0.2	0.7
760		53	24	12	16	11	43	21	2	<1	<0.2	0.8
761		56	17	2	8	5	6	12	3	<1	<0.2	0.4
762		28	13	3	7	3	6	5	4	<1	0.3	<0.2
763		57	15	4	8	5	20	9	10	<1	<0.2	0.8
764		44	23	14	19	13	<5	12	6	<1	<0.2	<0.2
765		30	13	8	11	5	35	11	6	<1	<0.2	<0.2
766		29	15	7	11	11	5	15	16	<1	0.5	1.6
767		34	17	6	13	10	30	5	5	<1	0.5	0.8
768		39	20	7	15	9	34	12	5	<1	0.5	0.8
769		93	28	21	27	16	144	35	13	<1	<0.2	1.8
770		43	27	10	18	7	77	40	7	<1	<0.2	0.7
771		70	28	12	24	15	87	13	3	<1	<0.2	0.6
772		57	33	15	25	14	246	9	4	<1	0.2	1.1
773		59	24	17	27	14	60	10	3	<1	<0.2	1.6
774		47	33	12	33	11	138	11	4	1	<0.2	0.8
775		98	18	18	19	16	174	14	5	<1	<0.2	2.0
776		68	22	13	16	11	94	10	3	<1	<0.2	1.2
777		186	42	37	33	47	232	14	8	<1	<0.2	1.3
778		50	24	11	17	22	58	9	4	<1	<0.2	1.4

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SAMPLE NUMBER	ELEMENT UNITS	V PPM	Cr PPM	Co PPM	Ni PPM	Cu PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM
779		36	11	3	6	3	25	5	2	<1	<0.2	0.5
780		49	24	9	16	12	28	7	5	<1	<0.2	0.8
781		53	20	7	12	7	30	7	2	<1	0.4	1.0
782		57	22	8	14	11	52	11	2	<1	<0.2	0.4
783		65	33	12	22	15	38	9	4	<1	<0.2	0.7
784		20	10	4	8	1	6	4	3	<1	<0.2	0.3
785		40	15	3	8	3	13	7	3	<1	<0.2	0.4
786		54	16	9	10	8	11	9	4	<1	<0.2	0.7
787		46	19	7	15	15	55	10	4	<1	<0.2	1.0
788		32	17	6	13	6	78	5	5	<1	<0.2	0.3
789		114	20	26	21	28	261	8	2	<1	<0.2	0.8
790		93	17	11	13	9	292	6	1	<1	<0.2	0.4
791		36	19	8	18	24	167	10	2	<1	<0.2	1.3
792		103	23	21	30	50	178	9	12	<1	<0.2	0.8
793		53	28	8	18	8	64	9	3	2	<0.2	0.3
794		78	23	13	16	16	60	9	3	<1	<0.2	0.6
795		77	26	7	16	6	39	8	2	<1	<0.2	1.0
796		31	15	2	8	1	19	4	2	<1	<0.2	0.8
797		50	9	<1	3	<1	7	6	<1	<1	<0.2	<0.2
798		33	16	5	8	3	18	4	3	<1	<0.2	0.7
799		37	17	6	12	9	115	10	3	<1	<0.2	1.5
800		51	27	10	19	19	41	9	14	<1	<0.2	1.1
801		54	31	7	14	6	30	9	2	<1	<0.2	0.6
802		39	31	12	19	9	<5	15	2	<1	<0.2	0.6
803		47	29	10	17	8	137	11	4	<1	0.3	0.7
804		53	19	4	9	3	25	7	4	<1	<0.2	0.3
805		49	21	7	14	7	22	9	5	<1	<0.2	1.0
806		129	57	23	39	31	208	29	15	<1	0.2	2.0
807		55	33	10	20	10	53	11	4	<1	<0.2	0.7
808		43	21	9	15	6	27	7	3	<1	<0.2	0.8
809		43	18	7	10	3	33	6	4	<1	<0.2	0.3
810		43	24	11	16	7	253	9	2	<1	<0.2	0.4
811		91	32	15	18	17	26	10	4	<1	0.3	0.6
812		66	22	10	15	5	<5	10	3	2	0.6	0.5
813		71	29	12	19	14	54	6	5	1	0.3	0.8
814		62	26	7	14	7	16	9	<1	<1	<0.2	<0.2
815		87	33	13	19	11	31	7	4	<1	0.4	<0.2
816		53	22	6	15	2	18	16	5	<1	0.2	1.5
817		65	32	13	22	20	22	7	5	<1	0.5	1.1
818		47	21	7	13	6	15	9	4	<1	0.3	0.8

Bondar-Clegg & Company Ltd.

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REPORT: 092-42829.0 ( COMPLETE )

DATE PRINTED: 25-NOV-92

PROJECT: NONE

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SAMPLE NUMBER	ELEMENT UNITS	V PPM	Cr PPM	Co PPM	Ni PPM	Cu PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM
819		41	19	5	14	5	21	10	4	<1	<0.2	0.7
820		41	16	3	9	2	<5	10	5	<1	0.7	1.1
821		73	20	4	11	3	29	11	1	<1	<0.2	0.8
822		36	19	2	7	3	467	9	2	<1	<0.2	<0.2
823		37	19	6	14	3	50	10	5	<1	<0.2	0.8
824		60	22	8	13	7	32	10	2	<1	<0.2	0.6
825		49	23	8	14	5	175	7	5	<1	<0.2	0.5
826		40	19	8	12	9	9	10	9	<1	<0.2	0.8
827		35	20	6	13	5	30	6	6	<1	<0.2	0.5
828		58	20	4	9	2	21	9	3	<1	0.2	0.5
829		50	11	1	5	<1	5	4	2	<1	<0.2	0.7
830		91	22	6	11	6	17	10	4	2	0.6	1.0
831		30	21	8	15	8	45	9	6	<1	<0.2	1.1
832		62	35	22	27	19	89	20	19	<1	0.3	1.4
833		44	25	12	22	13	53	12	14	<1	<0.2	<0.2
834		60	34	15	32	20	107	15	10	<1	0.3	1.2
835		73	39	36	47	32	193	14	65	<1	<0.2	3.1
836		40	20	7	14	10	22	11	7	<1	<0.2	0.4
837		39	18	7	12	8	26	9	5	<1	<0.2	0.4
838		64	23	17	20	16	119	12	3	<1	<0.2	1.4
839		61	29	13	28	18	24	13	5	<1	<0.2	0.6
840		59	45	17	25	11	249	31	4	<1	<0.2	0.9

**APPENDIX B**  
**DAILY REPORTS AND EXPENSES**

DATE	PROJECT	RECIPIENT	SALARY	KM	FOOD	MISC.	EXPLAN.
01-Apr-92	GENERAL	TR OF ONT				\$12.65	CLAIM MAPS
02-Apr-92	GENERAL	TR OF ONT				\$11.50	REPORTS
02-Apr-92	GENERAL	TR OF ONT				\$16.10	MAPS
23-Apr-92	GENERAL	COPIEXPERT				\$9.10	COPIES
28-Apr-92	GENERAL	COPIEXPERT				\$12.42	COPIES
04-May-92	GENERAL	TR OF ONT				\$28.35	MAPS
08-May-92	GENERAL	TR OF ONT				\$10.35	MAPS
09-Jun-92	KAKAGI	HOLMSTEAD	\$100	100	\$50	\$100.00	MAGNAPAK
15-Jun-92	KAKAGI	HOLMSTEAD	\$100	100	\$50		
01-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
02-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
05-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
07-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
08-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
09-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
12-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
13-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
14-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
15-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
19-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
22-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
23-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
26-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
27-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
28-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
29-Oct-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
24-Nov-92	KALADAR	HOLMSTEAD	\$100	150	\$15	\$40.00	MAGNAPAK
25-Nov-92	KALADAR	ABBOTT				\$13.58	FUSES
26-Nov-92	KALADAR	HOLMSTEAD	\$100	150	\$15		
27-Nov-92	ARDOCH	HOLMSTEAD	\$100	220	\$15		
30-Nov-92	ARDOCH	BONDAR CLEGG				\$3,515.17	ASSAY
14-Jan-93	ARDOCH	BONDAR CLEGG				\$1,729.93	ASSAY
18-Jan-93	DATA	HOLMSTEAD	\$100				
21-Jan-93	PLOTTING	HOLMSTEAD	\$100				
22-Jan-93	PLOTTING	HOLMSTEAD	\$100				
25-Jan-93	REPORT	HOLMSTEAD	\$100				
26-Jan-93	REPORT	HOLMSTEAD	\$100				
27-Jan-93	REPORT	HOLMSTEAD	\$100			\$9.66	COPIES
28-Jan-93	REPORT	HOLMSTEAD	\$100				
29-Jan-93	REPORT	HOLMSTEAD	\$50	200		30.00	COPIES

TOTALS

\$2,950 \$1,398 \$400 \$5,508.81 \$10,286.81



DAY	DATE	PROJECT	WORK PERFORMED
1	09-Jun-92	KAKAGI	STRIPPING VEIN 1
2	15-Jun-92	KAKAGI	SAMPLING VEIN 1, 4 SAMPLES
3	01-Oct-92	ARDOCH	LINES
4	02-Oct-92	ARDOCH	LINES
5	05-Oct-92	ARDOCH	SOIL SAMPLE
6	07-Oct-92	ARDOCH	SOIL SAMPLE
7	08-Oct-92	ARDOCH	SOIL SAMPLE
8	09-Oct-92	ARDOCH	SOIL SAMPLE
9	12-Oct-92	ARDOCH	SOIL SAMPLE
10	13-Oct-92	ARDOCH	SOIL SAMPLE
11	14-Oct-92	ARDOCH	SOIL SAMPLE
12	15-Oct-92	ARDOCH	SOIL SAMPLE
13	19-Oct-92	ARDOCH	SOIL SAMPLE
14	22-Oct-92	ARDOCH	SOIL SAMPLE
15	23-Oct-92	ARDOCH	SOIL SAMPLE
16	26-Oct-92	ARDOCH	SOIL SAMPLE
17	27-Oct-92	ARDOCH	SOIL SAMPLE
18	28-Oct-92	ARDOCH	SOIL SAMPLE
19	29-Oct-92	ARDOCH	SOIL SAMPLE
20	24-Nov-92	KALADAR	SOIL ANOMALY FOLLOW-UP
21	26-Nov-92	KALADAR	SOIL ANOMALY FOLLOW-UP
22	27-Nov-92	ARDOCH	SOIL ANOMALY FOLLOW-UP
23	18-Jan-93	DATA	DATA ANALYSIS
24	21-Jan-93	PLOTTING	PLOTTING MAPS
25	22-Jan-93	PLOTTING	PLOTTING MAPS
26	25-Jan-93	REPORT	REPORT WRITING
27	26-Jan-93	REPORT	REPORT WRITING
28	27-Jan-93	REPORT	REPORT WRITING
29	28-Jan-93	REPORT	REPORT WRITING
30	29-Jan-93	REPORT	REPORT WRITING

CLARENDON TOWNSHIP  
SOIL GEOCHEMISTRY (CONT'D) (PP. 3)

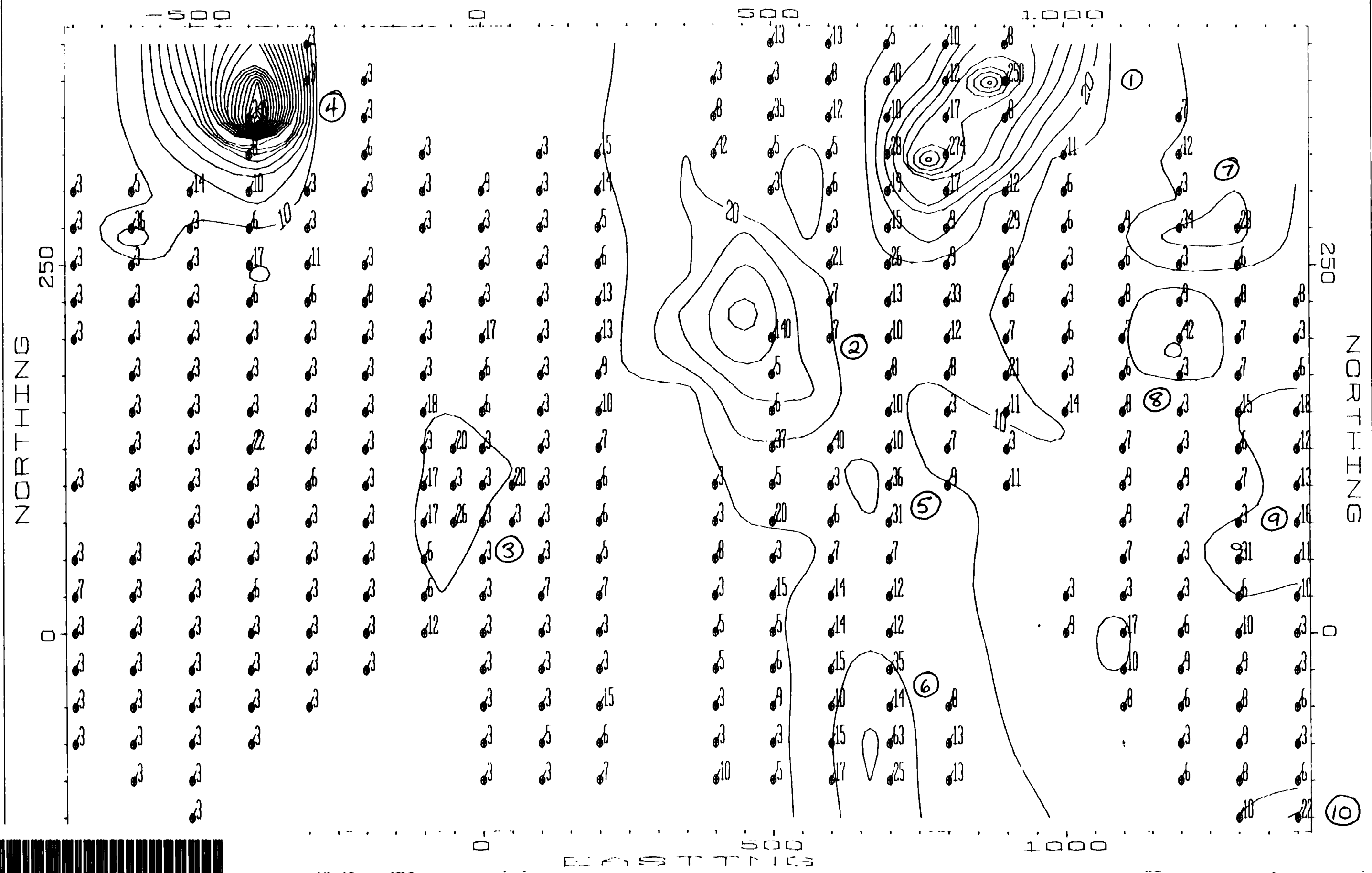
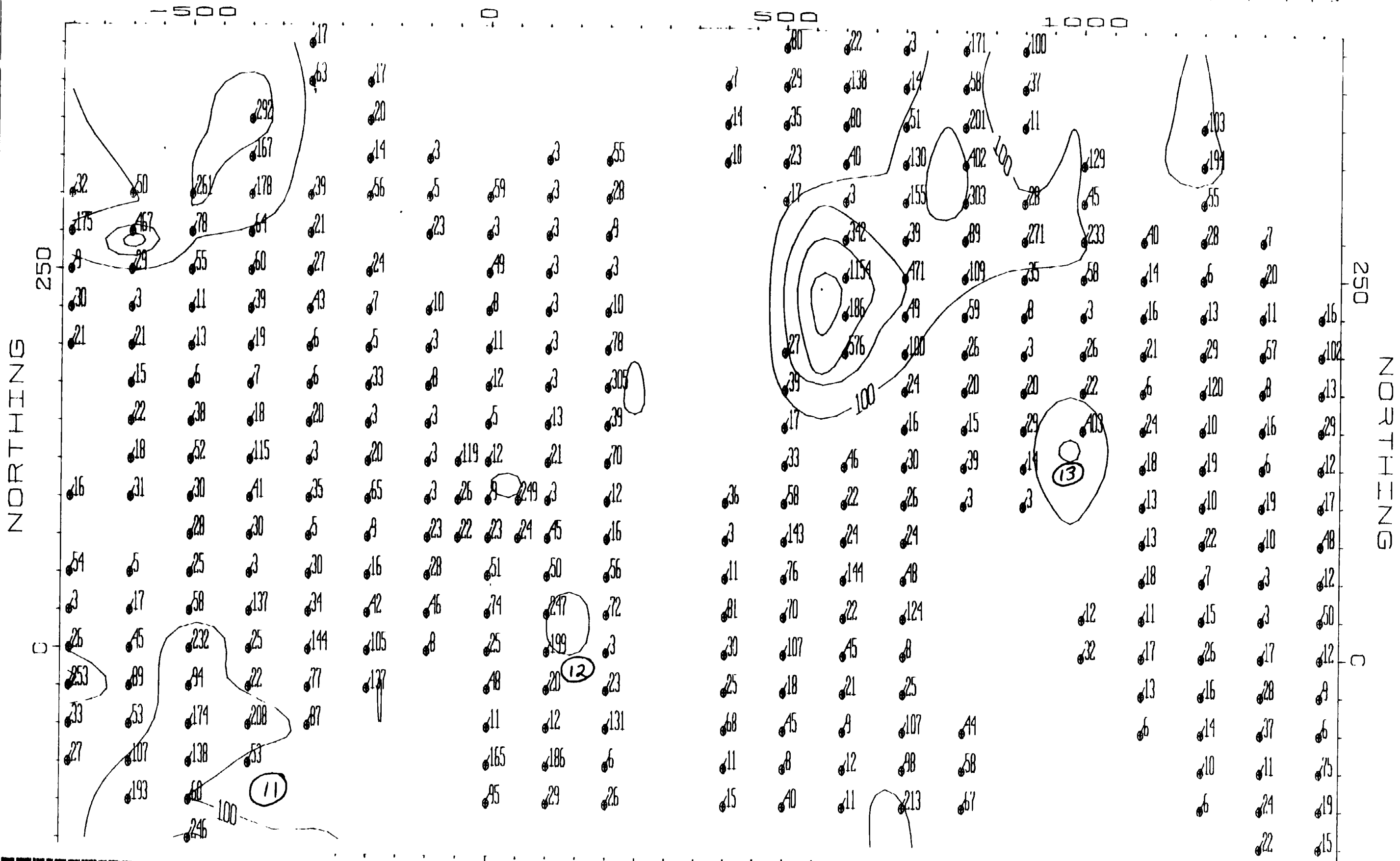
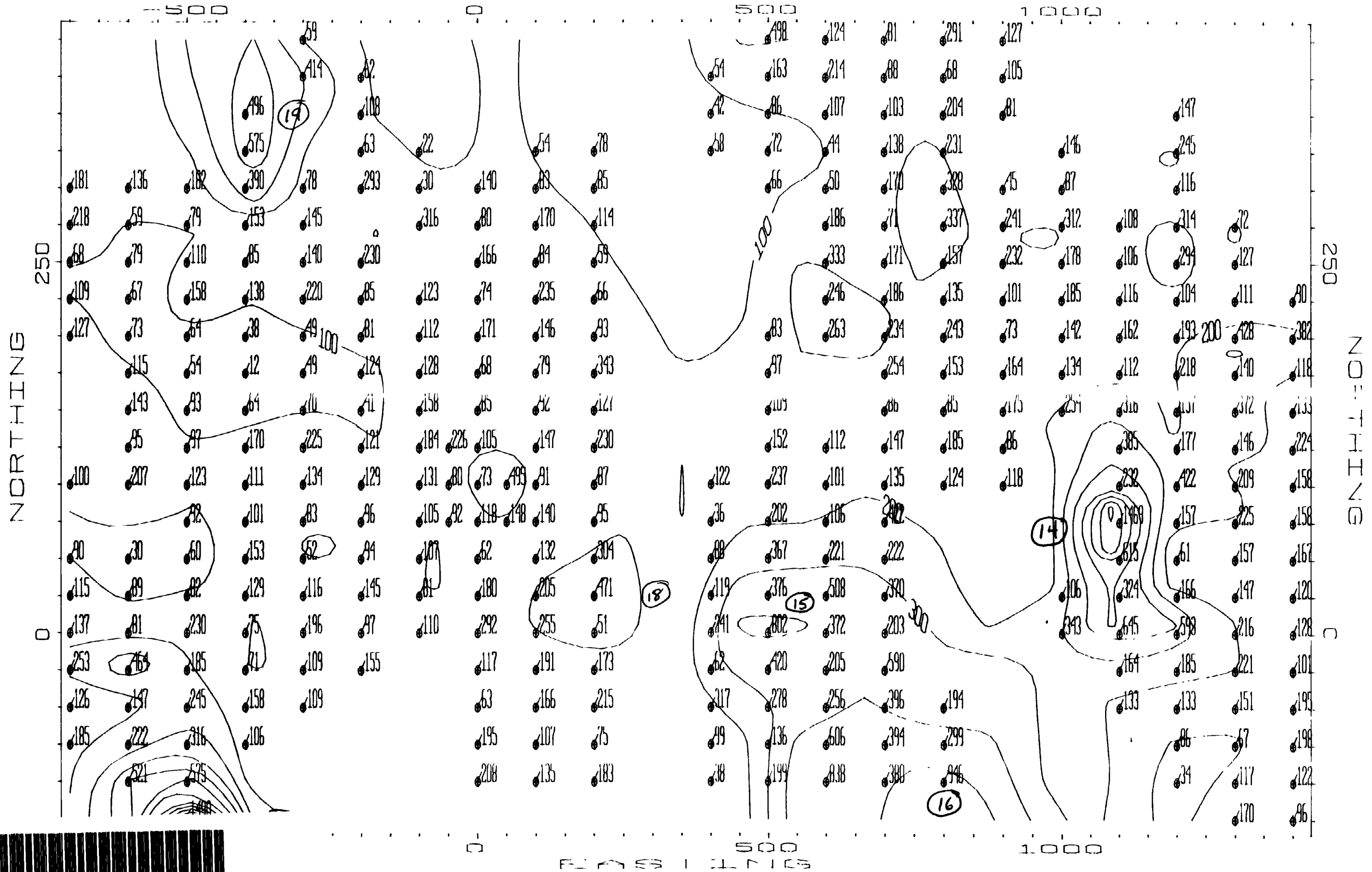


FIGURE 8

CLARENDON TOWNSHIP  
SOIL GEOCHEMISTRY - ARSENIC (PPM)



CLARKFORD TOWNSHIP  
SOIL GEOCHEMISTRY SURVEY



52E01NE003 OP92-089 PHILLIPS

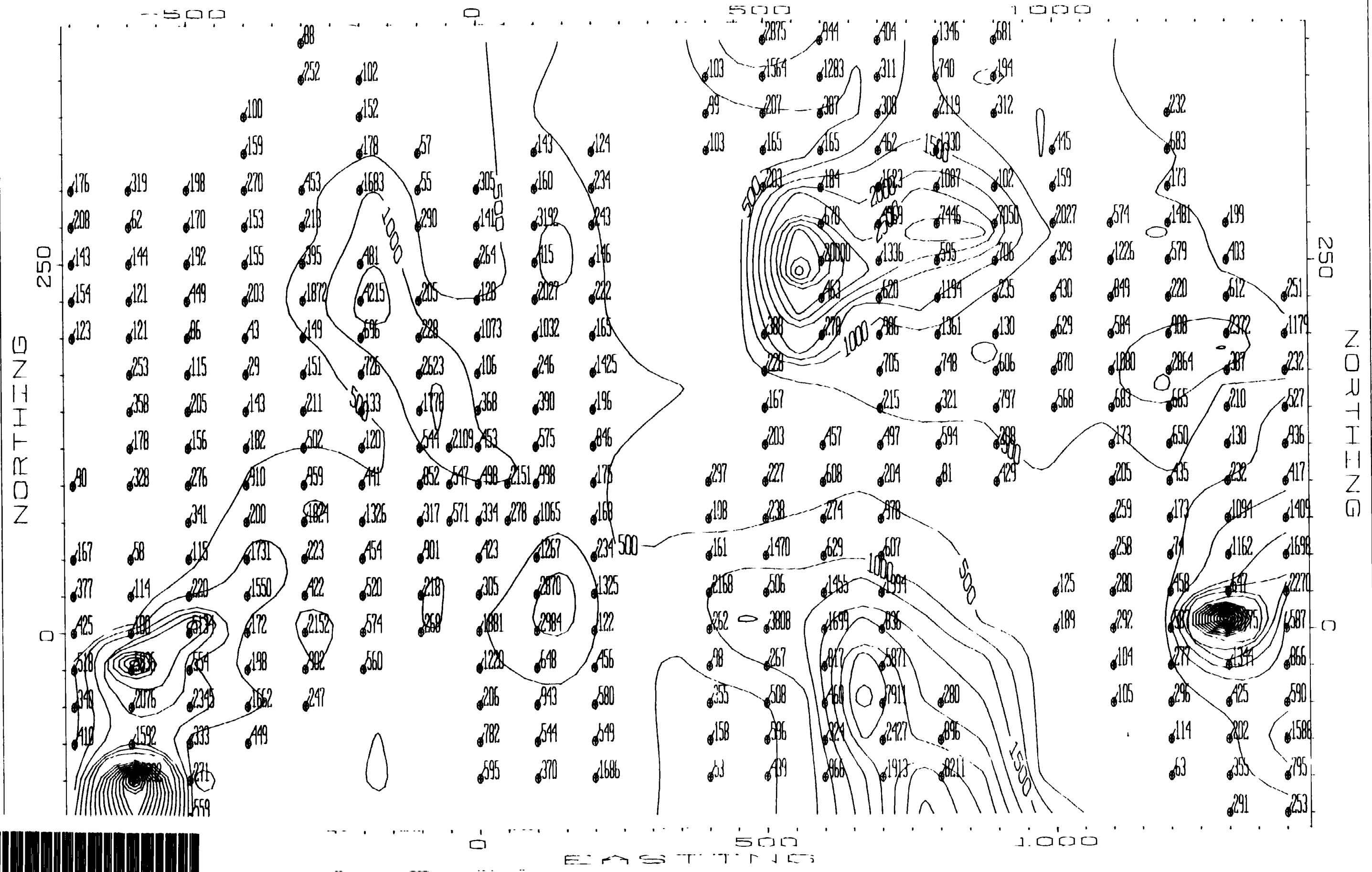
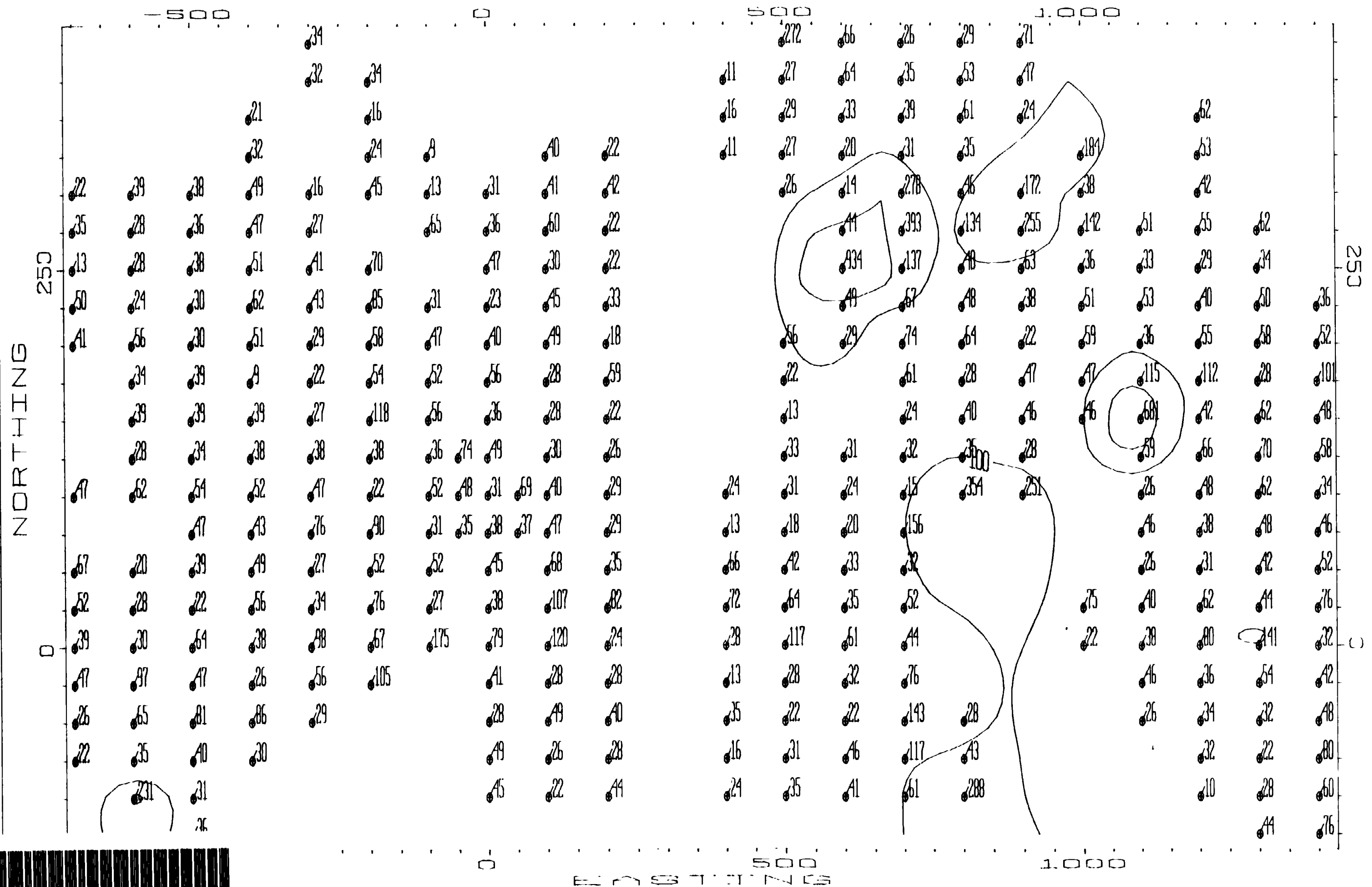


FIGURE 11

CLARENDON TOWNSHIP  
SOIL SURVEY



# CLARENDON TOWNSHIP SOIL GEOCHEMISTRY - SAMPLES

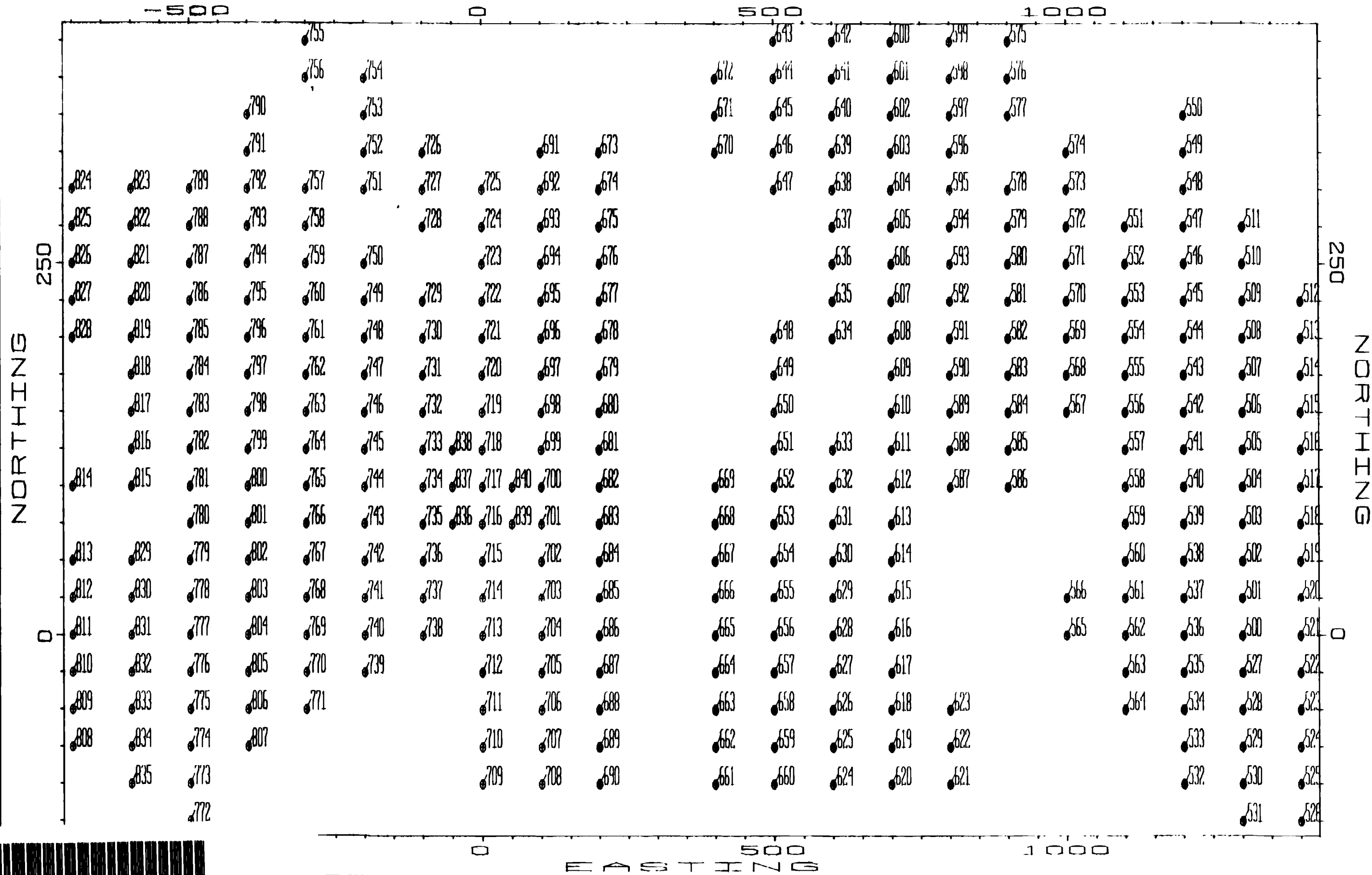


FIGURE 7