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**1997 SUMMARY EXPLORATION REPORT  
FOR THE CYPRUS CANADA INC SUNDAY LAKE PROPERTY**

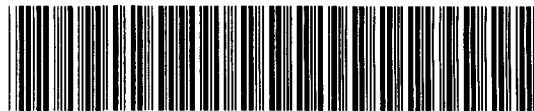
**Sunday Lake District, NE Ontario  
Manthet Township, NW Quebec**

**NTS: 32L/3, 32L/4**



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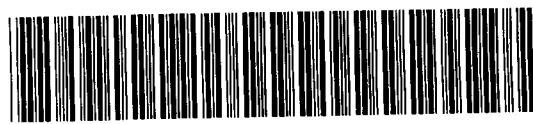
**B. Needham, Mark Ben  
March 1997**



32L04SE0009 2 17530 SUNDAY LAKE

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## SUMMARY

Cyprus Canada Inc. completed a reconnaissance helicopter supported linecutting, geophysical and diamond drill program on the Sunday Lake property during January and February of 1997. Cyprus holds a 100 percent interest in the property. The property straddles the Ontario - Quebec provincial border. The property has been subdivided by province. The Sunday Lake (Ontario) property consists of 151 claim units in 13 claim blocks and the Sunday Lake (Quebec) property consists of 45 claims. Both subdivisions fall within Cyprus' Northern Abitibi Generative accounting code.

The 1997 exploration program included a total of 22.8 line kilometres of linecutting and geophysical surveys completed from January 1997 to February 1997. The purpose of this program was to define reconnaissance diamond drill targets. Work on the Sunday Lake (Ontario) property included 15.6 kilometres of linecutting, 9.55 kilometres of frequency domain IP surveys and 15.6 kilometres of continuous magnetic survey. Work on the Sunday Lake (Quebec) property included a total of 7.2 kilometres of linecutting and 7.2 kilometres of continuous magnetic survey. IP surveys completed on the Sunday Lake (Quebec) property totalled 5.55 kilometres.

The 1997 Sunday Lake diamond drill program consisted of two diamond drill holes totalling 313.5 metres. Diamond drilling totalled 138 metres on the Sunday Lake (Ontario) property and 175.5 metres on the Sunday Lake (Quebec) property. The helicopter supported program was completed by Major Hoskings Diamond Drilling of Rouyn-Noranda from a base camp in La Peltrie Twp., Quebec. A total of 147 samples were taken and analyzed for gold and 34 element ICP analyses by Chimitec Laboratories at Val d'Or, Quebec.

Dominantly mafic flows and gabbro sills were intersected with the occasional altered/sheared mafic to intermediate pyroclastic unit, variably altered quartz feldspar porphyry and feldspar porphyry dykes and interflow sediments. Within the pyroclastic/sedimentary horizons, thin bands of oxide and sulphide facies iron formation were intersected. A strong zone of shearing/alteration and/or sulphide mineralization was intersected in hole SL97-01 from 83.8 to 96.65 metres. Only moderate shearing and alteration was intersected in hole SL97-02.

The highest gold assay obtained from the diamond drill program was 1.1 g/t Au/0.7 metres from hole SL97-01 @ 12 metres downhole. No significant base metal analyses were returned from the drill program. The core is currently cross piled at the La Peltrie Twp., Quebec camp location. The camp site was dismantled.

A review of the ICP geochemical analyses and a reconnaissance style prospecting/mapping program is recommended prior to completing additional geophysical surveys or another diamond drill program. If this work is favorable for gold mineralization, then additional geophysical surveys and diamond drilling is recommended.

## **INTRODUCTION**

Cyprus Canada Inc. completed a reconnaissance style helicopter supported, exploration program on the Sunday Lake property January to March, 1997. Cyprus has a 100 percent ownership in the property. The 196 claim unit Sunday Lake property encompasses some 3136 hectares in the Detour Lake area of northwestern Quebec and northeastern Ontario (Figure 1). This report summarizes the results of the winter 1997 exploration program on the Sunday Lake property. Figure 2 illustrates Cyprus' land position in the Sunday Lake property area. The exploration programs were helicopter supported by Abitibi Helicopters of LaSarre, Quebec.

A 22.8 line kilometre program of linecutting and geophysical surveys was completed from January to February, 1997. The purpose of this program was to define reconnaissance style drill targets. The work included 15.1 kilometres of frequency domain IP surveys, and 22.8 kilometres of magnetic surveys. The results of the surveys are summarized two geophysical reports completed by Val d'Or Geophysique (Boileau, 1997).

A total of 313.5 metres in two diamond drill holes were completed, 138 metres on the Sunday Lake (Ontario) property and 175.5 metres on the Sunday Lake (Quebec) property. Drilling was completed by Major Hoskings Drilling of Noranda, Quebec. The core is currently stored at the La Peltrie Twp., Quebec camp. The Major Hoskings camp in La Peltrie Twp., Quebec was dismantled. A total of 147 samples were taken and analyzed for gold (FA) and 34 element ICP analyses by Chimitec Laboratories at Val d'Or, Quebec.

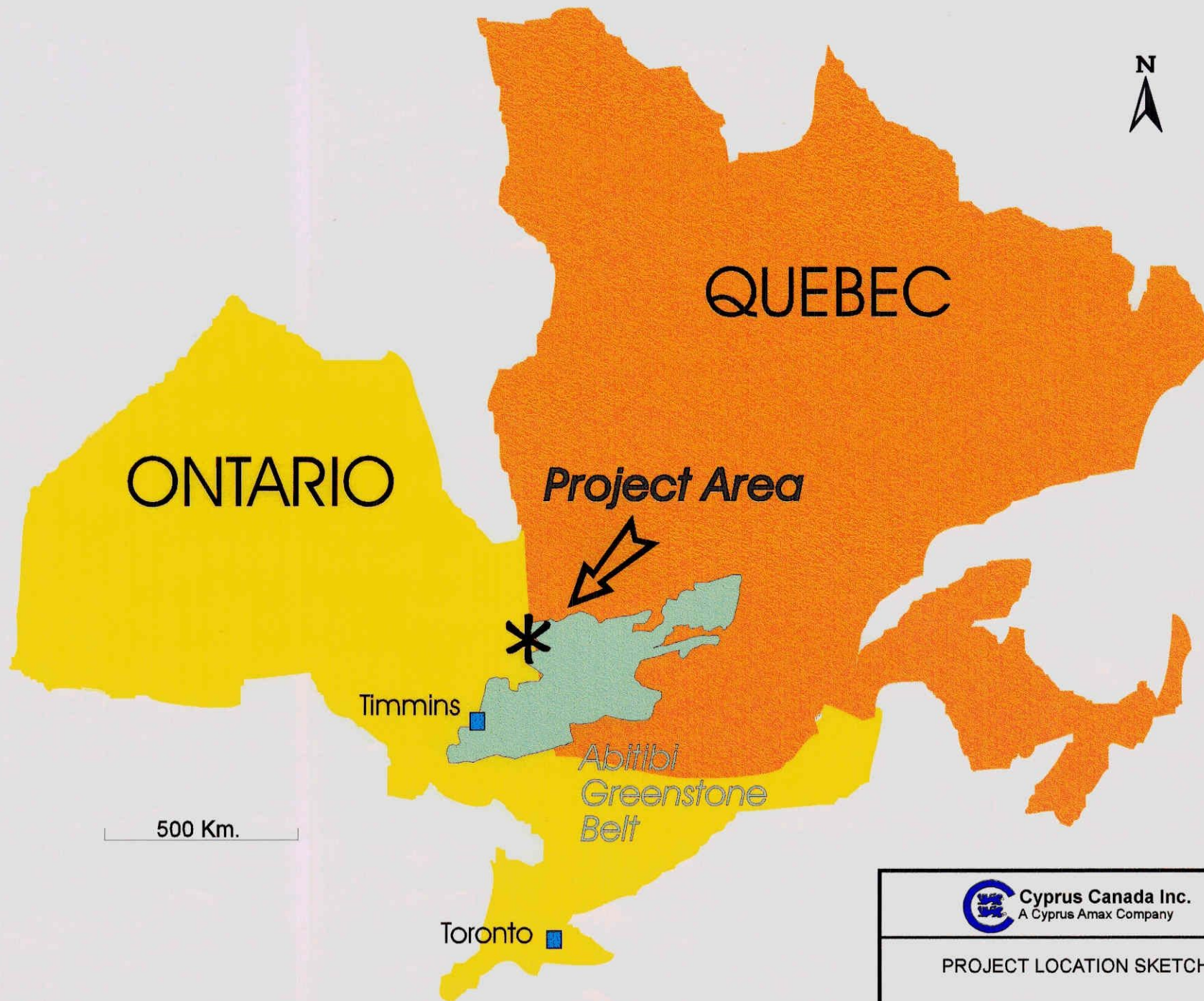
A detailed review of the geochemical analyses and a program of reconnaissance prospecting/geological mapping is recommended prior to any additional geophysical surveys and/or diamond drilling.

## **LOCATION AND ACCESS**

The Sunday Lake (Ontario) property is located on map G-1677 (Sunday Lake) area of northeastern Ontario. The Sunday Lake (Quebec) property is located in Manthet Twp., northwestern Quebec (Figure 2). The Sunday Lake property is located approximately 14 kilometres ENE of Placer Dome's Detour Lake Mine. Figure 2 also illustrates the location of other Cyprus properties in the area, some of which are optioned to joint venture partners. The property was accessed via helicopter from a camp located adjacent to a Tembec forestry company winter haulage road which connects to the Casa Berardi Mine road in Quebec. It is approximately 17 kilometres by air from the Major Hoskings camp to the Sunday Lake property. Logging activities by Tembec during the winter of 1997 have extended from La Peltrie Twp. to the Grady Lake area, approximately five kilometres south of the property in Manthet Twp.

## **CLAIMS AND OWNERSHIP**

The Sunday Lake property consists of a total 196 claim units encompassing approximately 3136 hectares in the Detour Lake area of northeastern Ontario and northwestern Quebec (Figure 3). The claims are 100 percent owned by Cyprus Canada Inc. The claims are located in the Sunday Lake map sheet (i.e. MNR Map G1677) of Ontario and in Manthet Twp., Quebec. A total of 45 claims occur in Quebec and in Ontario, a total of 151 claim units are incorporated into 13 claim blocks. These claims are listed in Table 1. An underlying NSR of two percent applies to the Quebec portion of the Sunday Lake property, payable to Fairstar Explorations Inc. upon production.

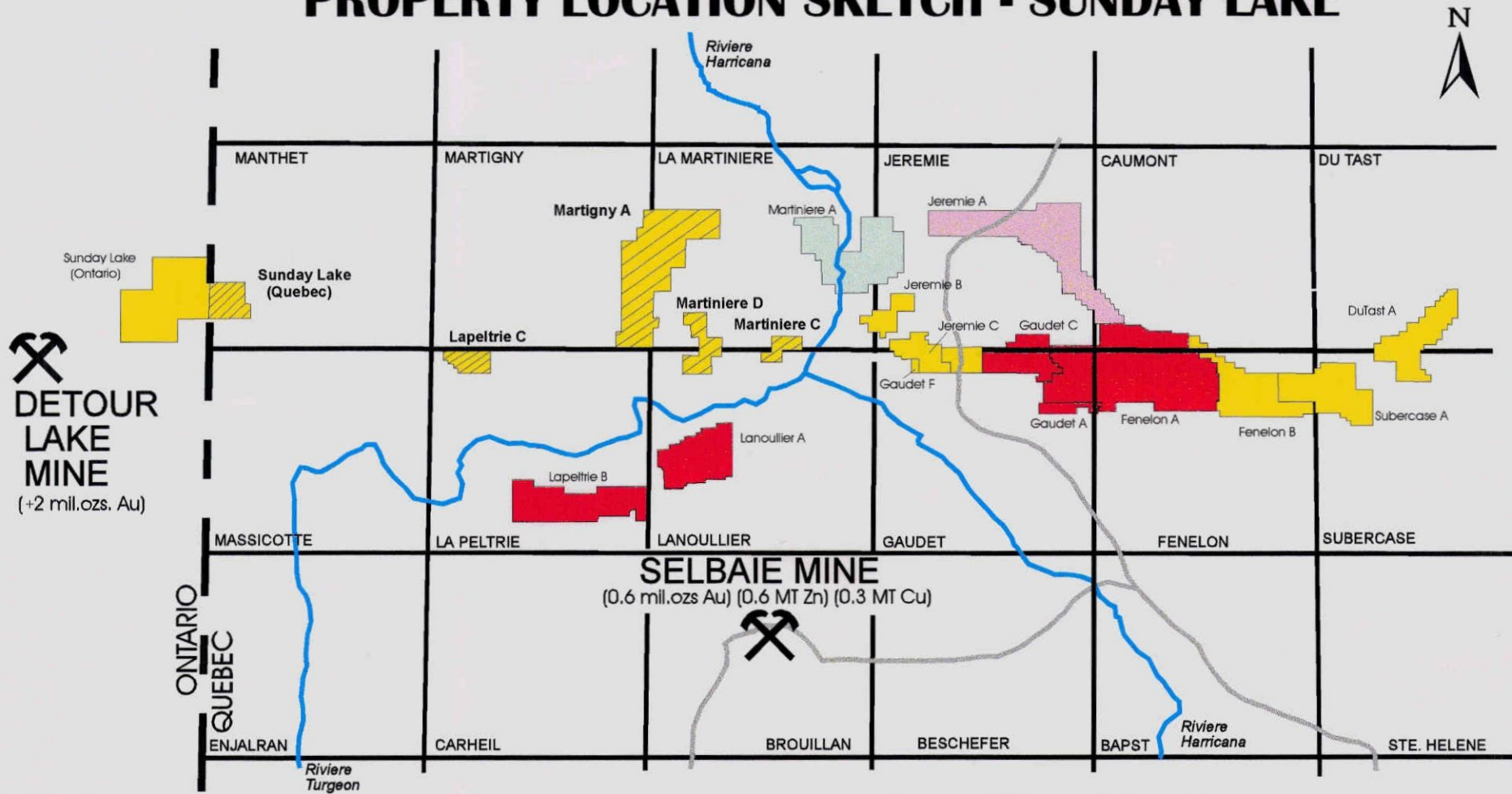


Cyprus Canada Inc.  
A Cyprus Amax Company

PROJECT LOCATION SKETCH

Figure 1

# PROPERTY LOCATION SKETCH - SUNDAY LAKE



- Northern Abitibi Grant Application Properties
- Northern Abitibi Generative Properties (Cyprus 100%)
- Cyprus Canada Inc. / Canadian Golden Dragon Resources 50/50 JV
- Cyprus Canada Inc. / Fairstar Explorations Inc. 45/55 JV

Cyprus Canada Inc. / East West Resources Corporation 50/50 JV

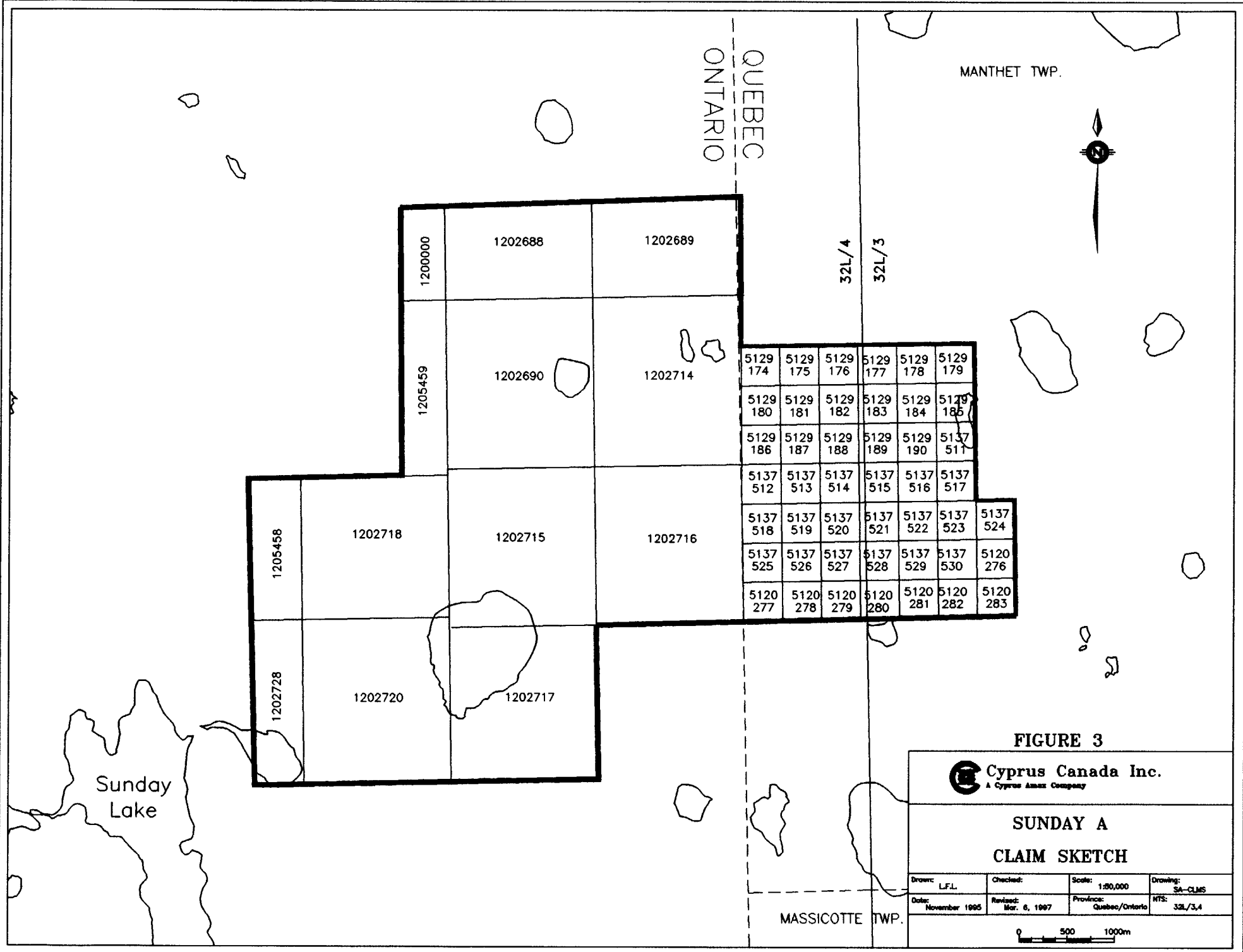
Cyprus Canada Inc. / Canadian Golden Dragon Resources 50/50 JV

8 KM

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A Cyprus Amax Company

### Property Location Sketch

Figure 2
32L3,4

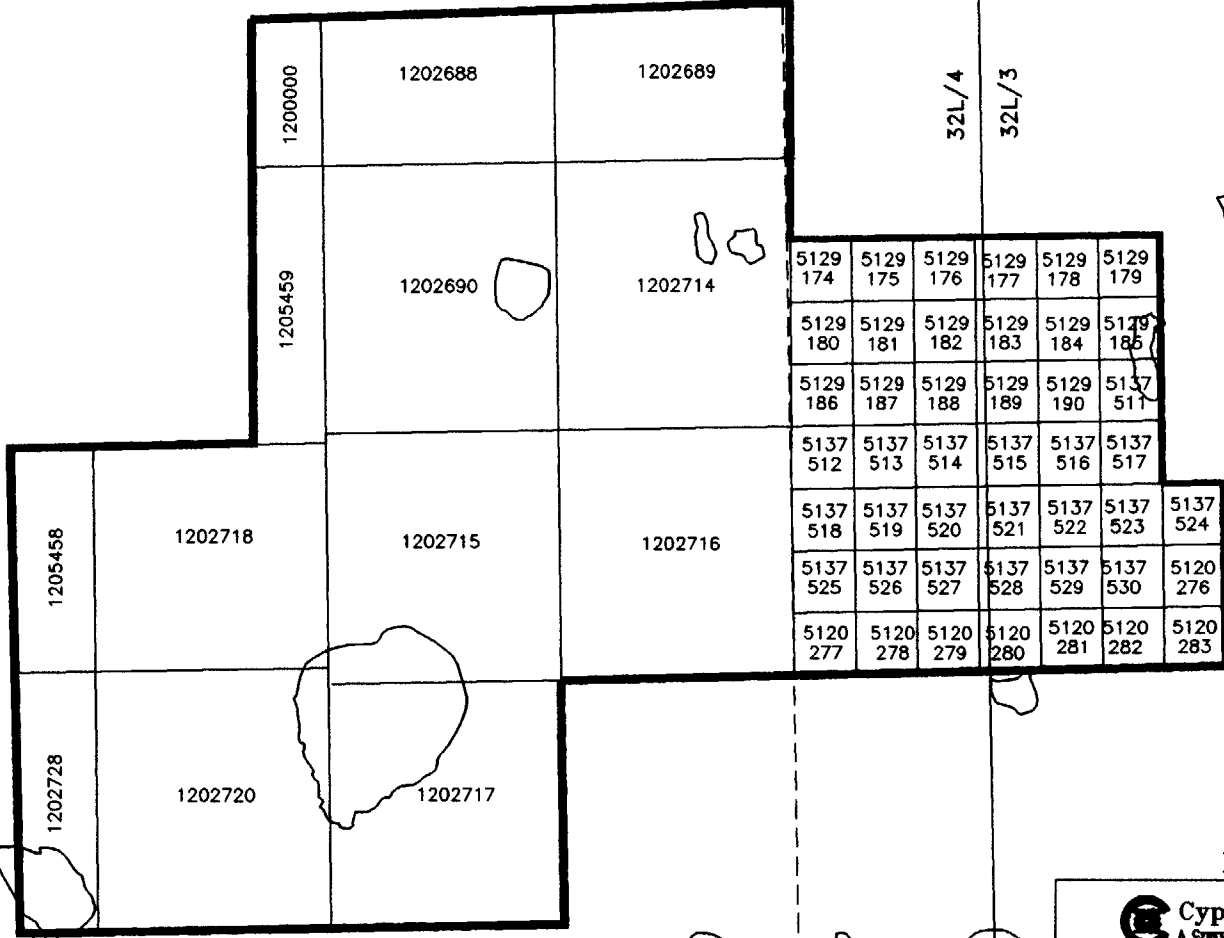


QUEBEC  
ONTARIO

MANTHET TWP.



32L/4  
32L/3



Sunday  
Lake

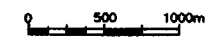
MASSICOTTE TWP.

FIGURE 3

 **Cyprus Canada Inc.**  
A Cyprus Amax Company

**SUNDAY A  
CLAIM SKETCH**

Drawn: L.F.L.	Checked:	Scale: 1:80,000	Drawing: SA-CLMS
Date: November 1985	Revised: Mar. 6, 1987	Province: Quebec/Ontario	NTS: 32L/3,4





## **TABLE 1**

### **SUNDAY LAKE (ONTARIO) CLAIMS (151 claim units)**

Claim block	# of claim units
1200000	4
1202688	16
1202689	16
1202690	16
1202714	16
1202715	16
1202716	12
1202717	12
1202718	16
1202720	16
1202728	4
1205458	4
1205459	3

### **SUNDAY LAKE (QUEBEC) CLAIMS (45 claims)**

5129174 - 5129190 inclusive  
5137511 - 5137530 inclusive  
5120276 - 5120283 inclusive

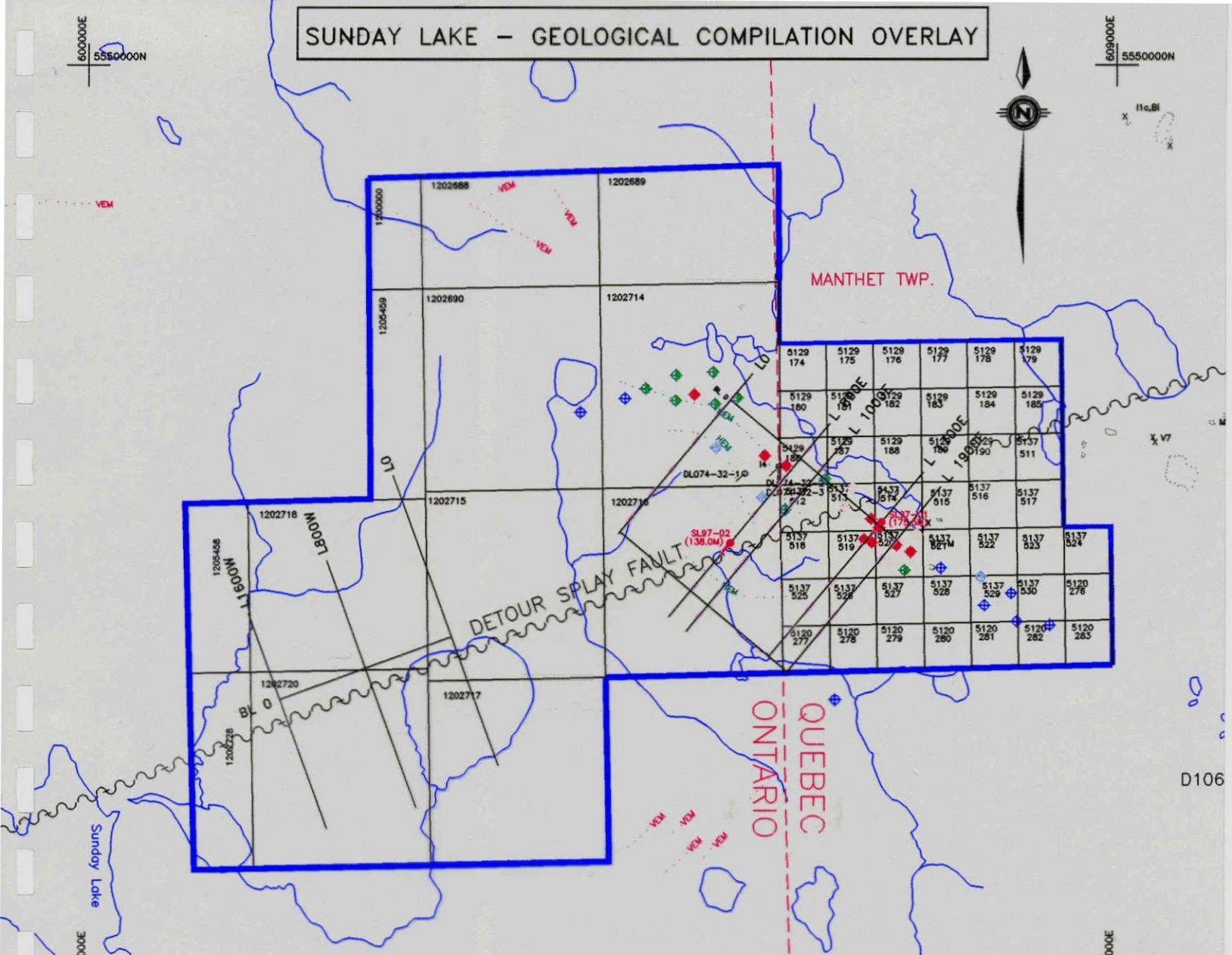
## **PREVIOUS WORK**

Map 1 (back pocket) illustrates a compilation of previous work completed by government and companies working in the Sunday Lake area. Maps 1a and 1b are 1:5000 scale compilation maps of the Ontario portion of the Sunday Lake property. The following is a summary of previous work completed on the Sunday Lake property to date:

The Harricana-Turgeon Belt area was covered by the Grasset Lake and the Brouillan-Manthet Quebec MRN Questor airborne surveys, published over the period from 1984 to 1986 at a scale of 1:50,000. In 1987, the Harricana-Turgeon and Casa Berardi areas were surveyed by Aerodat for Morrison Minerals with a 100 metre spaced, radar controlled, airborne magnetic and EM survey. The survey covers approximately 77,000 line kilometres and is currently jointly owned by Cyprus Canada Inc. and Fairstar Explorations Inc. and includes an overlying Autocad geological compilation. Given the general lack of outcrop in the area, this survey has been pivotal to the acquisition of most of the claim blocks acquired by Cyprus in the area. The Ontario Geological Survey flew in 1988 a Geoterrex airborne magnetic and EM survey over the Sunday Lake (Ontario) property. From the above airborne surveys, the Sunday Lake property has a complex magnetic signature. An interpretation of the airborne magnetics resulted in the delineation of E-W, NE-SW and NW-SE linears which are thought to represent faults on the Sunday Lake property.

Figure 5 displays the OGS and Aerodat airborne total field magnetics over the Sunday Lake property at a scale of 1:50,000. The Aerodat survey outlines the extension of the AEM and ground conductors intersected in the Sunday Lake (Ont.) property. Accompanying Figure 5 is a geological

# SUNDAY LAKE – GEOLOGICAL COMPILATION OVERLAY



## PREVIOUS WORK

### Geophysics

#### Questor AEM Conductors

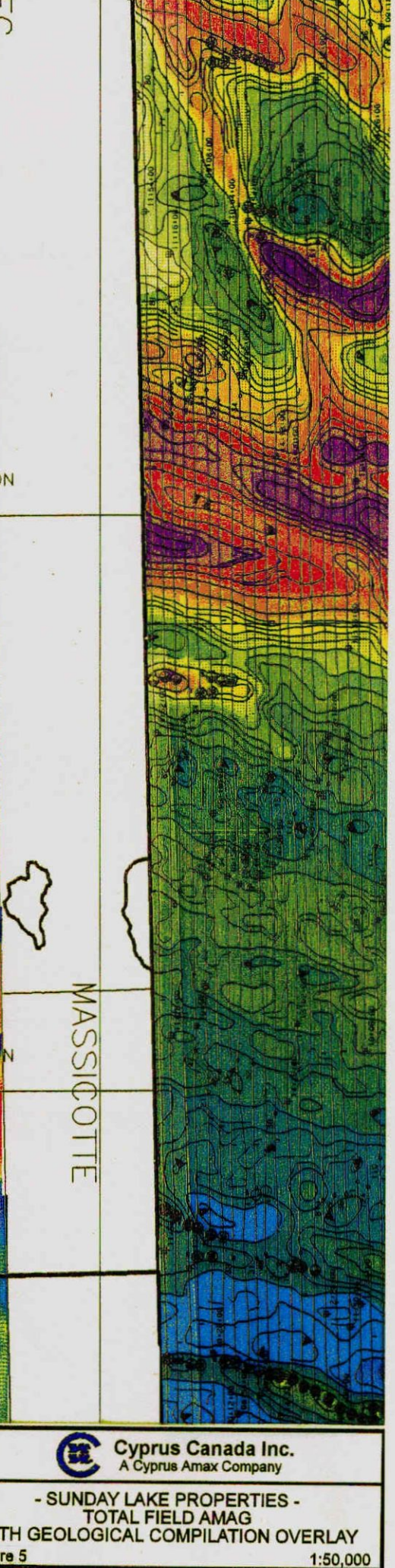
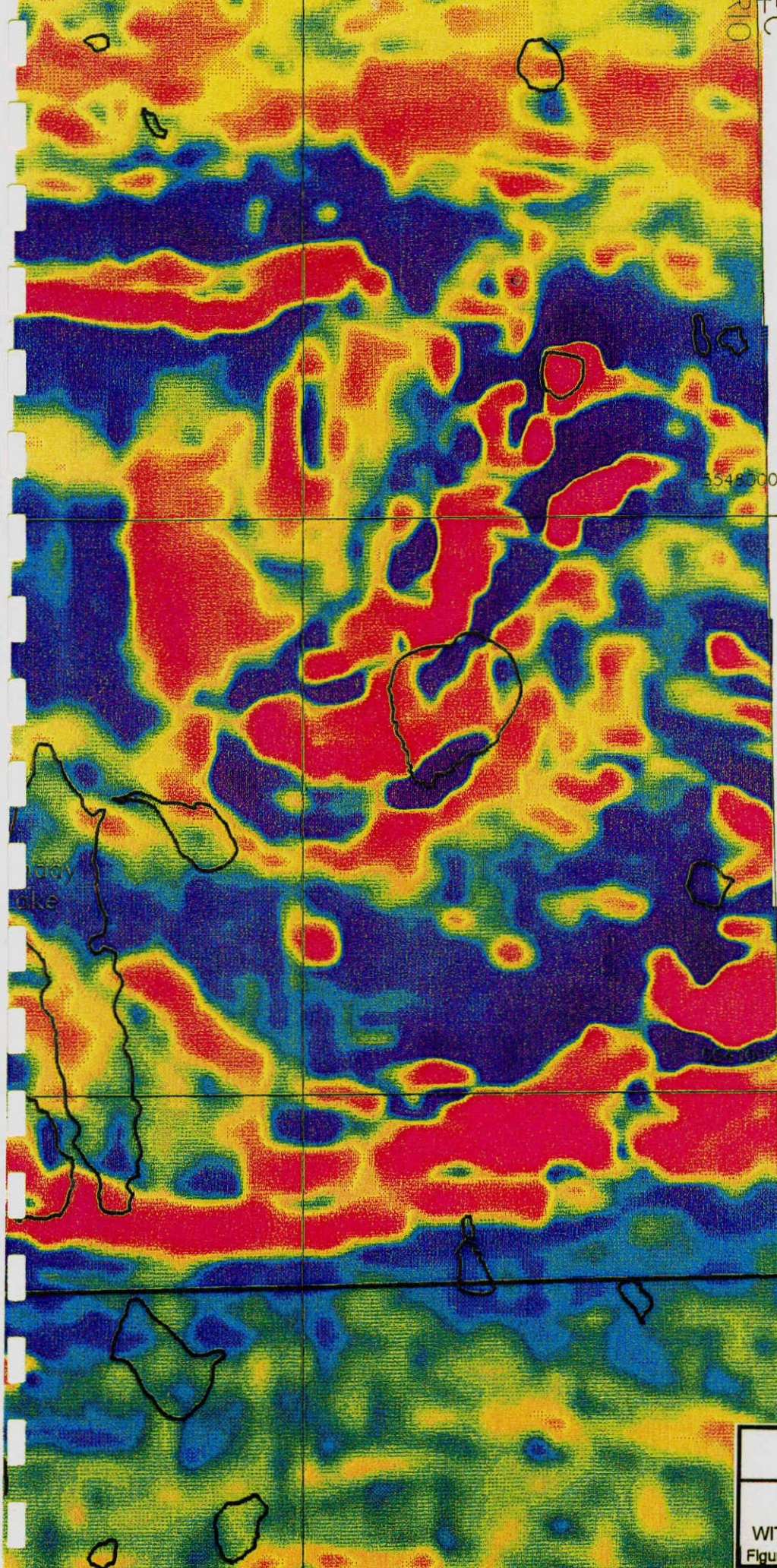
- ◆ ..... 6 Channel Anomaly
- ◆ ..... 5 Channel Anomaly
- ◆ ..... 4 Channel Anomaly
- ◆ ..... 3 Channel Anomaly
- ◆ ..... 2 Channel Anomaly

- ..... VLF Vertical Loop EM
- ..... HEM Horizontal Loop EM

### Symbols

- Other Co. Diamond Drilling
- Cyprus Canada Drilling 1997
- IP Survey
- X Outcrop

For rock units see generalized legend



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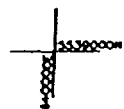

- SUNDAY LAKE PROPERTIES -  
TOTAL FIELD AMAG  
WITH GEOLOGICAL COMPILATION OVERLAY


Figure 5 1:50,000

# GEOLOGY

11a	K-Feldspar Granite
11c	Granodiorite
12,12b	Intermediate Intrusive
14,14a	Mafic Intrusive
15	Ultramafic Intrusive
16	Quartz Feldspar Porphyry Dyke
18	Diabase
IF	Iron Formation
S	Sediment
S3	Greywacke
S4,S4g	Argillite, Graphitic
M	Metamorphic Rocks
bi	Biotite
bx	Breccia
ca	Calcite
cb	Carbonate
cl,chl	Chlorite
cp	Chalcopyrite
Cu	Copper
gf	Graphite
magt	Magnetite
po	Pyrrhotite
py	Pyrite
qv	Quartz Vein
qz	Quartz
ser	Sericite
sch	Schistose
tr	Trace
Zn	Zinc

# SYMBOLS

—	Township Line
	UTM Co-ordinates
	Mag Interpreted Fault
*	Lineament
/	Geological Contact

 <b>Cyprus Canada Inc.</b> A Cyprus Amax Company
<b>LEGEND FOR COLOR AEM AND OVERLAYS</b>
Figure 6

compilation overlay of previous work completed on the Sunday Lake property. The legend for the geological compilation overlay is shown in Figure 6.

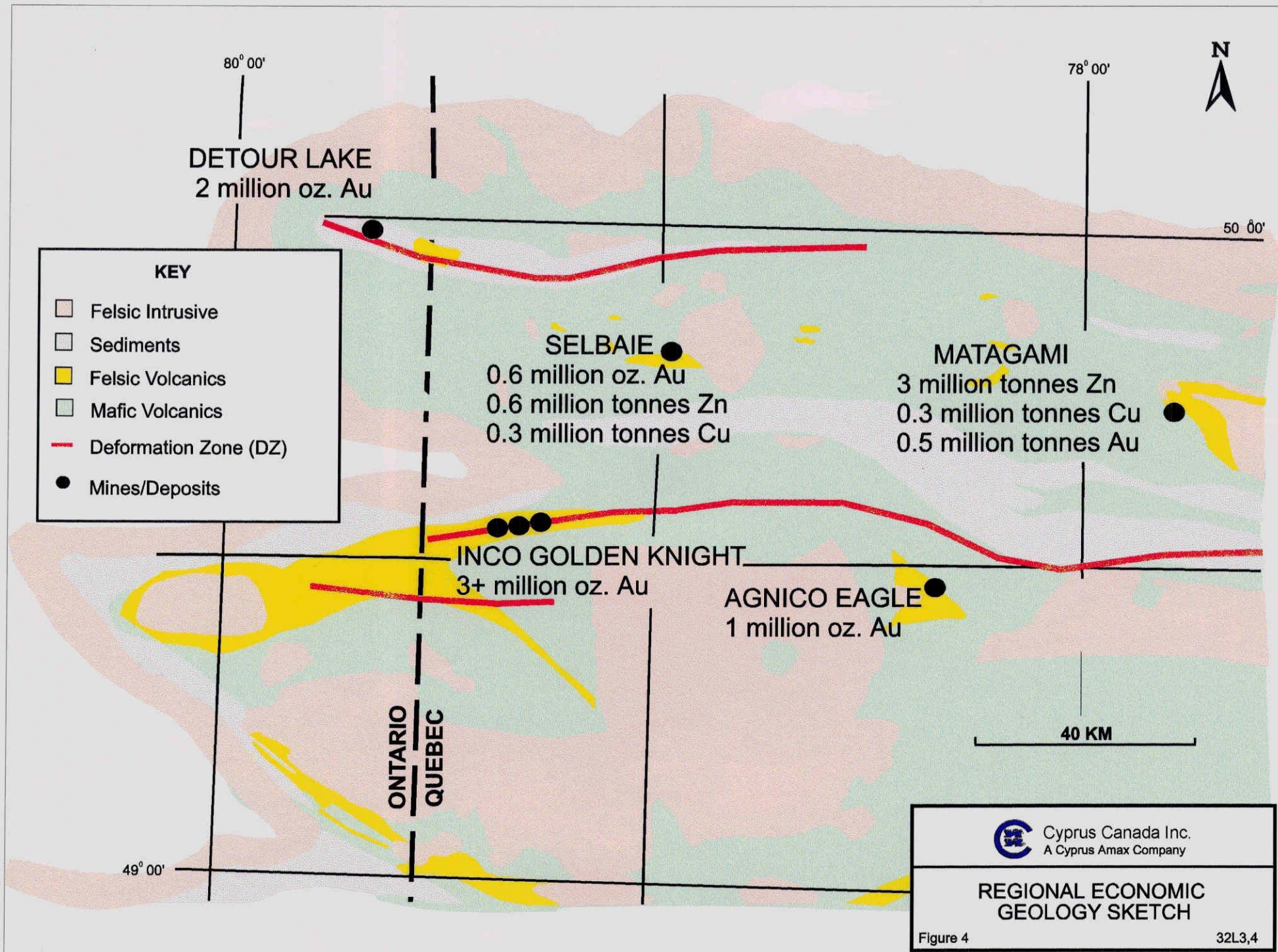
No historical diamond drill holes are filed in the Quebec MRN assessment files. Quebec MRN geology maps of the region have been published by S. Lacroix et al, in 1991, and more recently in 1994. The more recent publication includes assay and whole rock analyses of selected samples taken from outcrop found mostly along river beds. A geological compilation of this area has been completed for the Quebec MRN digital-database system called Sigeom.

On the Sunday Lake (Ontario) property, the following assessment work has been filed at the OGS regional geologists office. In 1982, Noranda completed a magnetic and HLEM survey covering the northeastern portion of the Sunday Lake property in the vicinity of the northwesterly AEM conductors. Two HLEM conductors were defined. Another magnetic and Max Min survey was completed in 1983 by MPH Consultants for Consolidated Montclerg Mine Limited. Again, work was limited to magnetic and Max-Min surveys. Three drill holes totalling 493 metres, were completed in 1974 by Amoco, testing ground in the northeastern portion of the property. One of these drill holes tested the western portion of the conductor redefined by Noranda. Hole 32-1 intersected 8.3 metres of up to 50 percent pyrite, pyrrhotite and trace chalcopyrite occurring as disseminated grains and massive bands within a mafic tuff host rock. Up hole, andesitic to dacitic flows were intersected. No significant gold assays were reported. The maximum copper assay was 0.032 percent Cu/1.52 metres. Hole 32-2 intersected intercalated mafic and intermediate flows with one to three metre rhyodacitic bands which are locally mineralized with up to 15 percent pyrrhotite and accessory pyrite and chalcopyrite. No significant gold assays were reported. The maximum copper analysis was 0.023 percent Cu/0.61 metres. Hole 32-3 intersected intercalated mafic flows, porphyritic rhyolites and the sulphide mineralized mafic tuff units. The tuff unit has one to five percent pyrrhotite with lesser pyrite and chalcopyrite. Massive sulphides (dominantly pyrrhotite) were intersected in a 4.66 metre biotite chlorite schist with 10 to 30 percent quartz veining. The above information is available digitally from the OGS using the ERLIS database.

## **REGIONAL GEOLOGY**

The five Cyprus Canada Inc. Northern Abitibi Generative properties are located in the Harricana-Turgeon Belt region of the northern edge of the Abitibi Greenstone Belt (See Figure 4). The Harricana-Turgeon Belt extends in an E-W direction for over 150 kilometres with a width variation of 60-90 kilometres, including the Matagami, Joutel, Brouillan and Casa Berardi mining districts. About twelve linear, E-W trending, volcano-sedimentary lithotectonic domains have been recognized (Lacroix, 1994). All five Cyprus properties lie in the northern-most Manthet Domain of the Harricana Turgeon Belt. Since thick Quaternary glacial, glacio-lacustrine and glacio-fluvial deposits blanket the region, only scattered areas of bedrock are exposed in small ranges of hills and along major rivers. Details of the regional geology are poorly known, being derived from the interpretation of geophysical data and diamond drill holes.

The Manthet Domain is the host of the Detour Lake Mine some 15 kilometres southwest of the Sunday Lake property. South of the Manthet Domain is a synformal sedimentary belt, the Matagami Domain. These two lithotectonic domains are separated by the E-W trending Detour Deformation Zone (Lacroix, 1991). This regional deformation zone is controlled by the contrasts in competence between the two lithotectonic domains and the deformation is commonly manifested as graphitic or pyritic rich shears along and/or at small angles to the lithic contacts.



The geology of the Manthet Domain is characterized as a package of dominantly E-W striking, mafic to intermediate volcanic/ pyroclastic units commonly intercalated with pelitic sedimentary units which are intruded by mafic to ultramafic intrusives. Airborne magnetic and electromagnetic surveys indicate that regionally extensive oxide facies iron formations, as well as sulphidized graphitic argillites, comprise a portion of the sedimentary stratigraphy of the region. To the north of the Manthet Domain units is the Opatoca Subprovince plutonic and gneissic rocks. All the Cyprus properties currently occur to the north of the Detour Deformation Zone, commonly straddling airborne magnetic interpreted splay structures.

The discovery of all the deposits in the area including the Detour Lake, Golden Pond, Estrades, Joutel and Selbaie mines were made using geophysical methods. These deposits confirm the economic potential of the area given exploration methods suited to the ubiquitous overburden cover.

There are more than 25 polymetallic (Cu-Zn-Ag-Au) and gold (Au-Ag) occurrences and deposits in the Harricana-Turgeon Belt, most of which are hosted in basaltic to komatiitic volcanics and near sedimentary contacts in the Casa-Berardi and Douay deformation zones. The closest mine to the five Cyprus properties is the Selbaie Zn-Cu deposit. As of December 1994, about 24 million tonnes of ore was milled and about 20 million tonnes remained as proven and probable open pit ore reserves at average grades of about 0.68 percent Cu, 2.52 percent Zn, 0.52 g/t Au and 26 g/t Ag. Seventy five kilometres to the west is the Detour Lake Mine, which has produced 1,630,970 oz Au at a grade of 3.7 g/t Au to the end of 1994, and has about 4.5 million tonnes of proven and probable reserves grading 5.3 g/t Au. The Detour Lake Mine is located north of the Matagami Domain sediment contact in the Manthet Domain mafic volcanics, likely on a NE trending shear (splay) extending from this contact. One hundred and forty kilometres to the southeast are the Matagami Lake Zn-Cu deposits, which include the Norita E Mine and Isle Dieu Mine. By the end of 1994, about 6.3 million tonnes of ore had been milled and 1.5 million tonnes of reserves remained at 17 percent Zn, 1.06 percent Cu, 91.2 g/t Ag and 0.6 g/t Au.

## **PROPERTY GEOLOGY**

The Sunday Lake property covers AEM conductors, a circular magnetic high feature, possibly associated with mafic to ultramafics flows or intrusives, and/or several interpreted linears thought to be splay faults from the Detour Deformation Zone.

Only one known outcrop occurs on the Sunday Lake (Quebec) property located to the southeast of a small lake located in the central portion of the property. It has been mapped a massive basalt. Reconnaissance prospecting and geological mapping should define more outcrop on the property as suggested by the 1997 geophysical survey results (See below). A northeasterly splay fault is interpreted from the airborne magnetic survey intersecting the Detour Deformation Zone in the immediate vicinity of the Detour Lake Mine. The Sunday Lake property was staked to cover an interpreted circular magnetic high feature (mafic intrusive), through which the interpreted northeasterly splay fault bisects. This interpreted splay fault has not been drilled to date. In addition, the property covers several strong northwesterly striking, Questor and Geoterrex AEM conductors. These conductors flank the interpreted mafic intrusive plug hosted by mafic to intermediate flows and pyroclastics as determined by diamond drilling on the Ontario portion of the Sunday Lake property.

## **GEOPHYSICS**

A reconnaissance style linecutting and geophysical survey program was completed between January 1997 to February, 1997 (See Boileau, 1997). A total of 22.8 kilometres of linecutting and ground magnetic surveys were completed. Map 1 illustrates the two grid locations cut and surveyed. In addition to the above, a total of 15.1 line kilometres of frequency domain dipole dipole IP survey was completed on the grid lines. A Phoenix IPV-4 Turbo receiver and an IPT-1 transmitter powered by a 1.0 kW MG-1 generator was used. The IP surveys were completed with an a-spacing of 50 metres.

Work on the Sunday Lake (Ontario) property included 15.6 kilometres of linecutting, 9.55 kilometres of frequency domain IP surveys and 15.6 kilometres of continuous magnetic survey. Work on the Sunday Lake (Quebec) property included a total of 7.2 kilometres of linecutting and 7.2 kilometres of continuous magnetic survey. IP surveys completed on the Sunday Lake (Quebec) property totalled 5.55 kilometres. Boileau (1997) summarizes the equipment used in the geophysical surveys.

The following conclusions are paraphrased from Boileau (1997) with respect to the Ontario portion of the Sunday Lake property:

- 1. The apparent resistivities measured on the property are very high on the East Grid where the bedrock is likely close to the surface, but present slightly lower values on the West Grid where a thin layer of conductive overburden likely covers the area.*
- 2. The chargeability effects on both grids show low background of less than 2 mV/V inside which a few weak, moderate to strong anomalous responses were detected e.g. 10-40 mV/V anomalies occurring in the East Grid were also associated with marked decreases in resistivity which could be explained by semi massive sulphide mineralization*
- 3. On both grids, some IP responses show a direct magnetic association, which could indicate the presence of pyrrhotite mineralization.*

With respect to the Quebec portion of the Sunday Lake property, the following conclusions are paraphrased from Boileau, 1997:

- 1. The apparent resistivities are very often very high, probably indicating possible outcrop or subcrop.*
- 2. Narrow, long NW to SE oriented, strongly chargeable anomalies with corresponding well marked resistivity lows, probably correspond with EM bedrock conductors which may be associated with massive to semi massive sulphide mineralization.*
- 3. Other chargeability anomalies characterized by weak to moderate strength but with no significant decrease in resistivity, may be associated with disseminated sulphide mineralization.*

## **1997 EXPLORATION PROGRAM**

### **Introduction**

The 1997 Cyprus exploration program on the Sunday Lake property included diamond drilling, linecutting, ground magnetic and IP surveys (as previously discussed). The purpose of the 1997 Sunday Lake exploration program is to quickly define potential drill targets utilizing provincial government databases and Cyprus owned geological and geophysical databases, confirmed by reconnaissance style ground geophysics. For assessment credit application purposes only, the



exploration expenditures have been subdivided between the Ontario and Quebec portions of the Sunday Lake property on a pro rata basis for the geophysical surveys and for the diamond drill program.

The reconnaissance diamond drill program consisted of two holes totalling 313.5 metres completed from February 8<sup>th</sup> to February 20<sup>th</sup>, 1997 by Major Hoskings Drilling of Rouyn-Noranda, Quebec. Hole SL97-01 totalling 175.5 metres was completed in Quebec and hole SL97-02 totalling 138 metres was completed in Ontario. The core is currently stored at the Hoskings camp in La Peltrie Twp., Quebec. The Sunday Lake property drill-core logs are included in Appendix I. Maps included in the back pocket of this report include; a compilation plan map drawn at a scale of 1:10,000 (Map 1) and at a scale of 1:5000 for the Ontario portion of the property (See Maps 1a and 1b). Also included in the back pocket are diamond drill hole sections (Maps 2 and 3) drawn at a scale of 1:1000.

The analytical work was performed by Chimitec Laboratories (a division of Bondar Clegg) of Val d'Or, Quebec. A total of 147 core samples were taken for laboratory analysis. Of these 91 samples were taken from SL97-01 and 56 were taken from SL97-02. Each sample was fire assayed for gold (1AT) with an AA finish and, in addition, a split of each sample pulp was analyzed for 34 element ICP scan. A summary of sample preparation and assay methods is included in Appendix II. The results of all the analyses noted above are included in Appendix II. The laboratory certificates are included in Appendix III.

All pertinent computer files associated with this drill program are contained in the diskettes enclosed in the back pocket of this report.

The following is a description of the geology, mineralization and economic geology intersected in the two diamond drill holes completed on the property.

#### **SL97-01 (Sunday Lake Quebec Property)**

This diamond drill hole is located at L17+00E 0+00S, ending at 175.5 metres downhole. (See Maps 1 and 2). The purpose of the hole was to test a strong chargeability anomaly associated with a magnetic break within a strong linear northwesterly striking magnetic high. Overburden depth was 7.85 meters. From 8 to 80 metres massive mafic flows or intrusives (gabbros) were logged interfingering with finer grained mafic flows that are weakly mineralized and altered (i.e. weak silicification). Mineralization includes fracture pyrite (up to 4%) with lesser amounts of pyrrhotite and the rare grain of chalcopyrite. At 83.80 to 91.90 metres, an alternating sequence of sheared/ altered intermediate to mafic pyroclastics with argillite interflow bands was intersected. The upper 24 cm of the unit is strongly silicified. Within the interflow sediments, oxide and sulphide facies iron formation bands that are moderately sheared and mineralized (the probable cause of the IP anomaly) were intersected. The shearing is between 50 and 60 degrees to the core axis. Mineralization up to a maximum of 15 percent pyrite and 40 percent pyrrhotite was observed associated with the iron formation bands. The unit as a whole has sulphide mineralization of three percent pyrite and seven percent pyrrhotite. The rare stringer sphalerite fracture filling was observed in this unit. Immediately following the sheared pyroclastic unit is a 4.75 metre, strongly silicified, very weakly mineralized feldspar porphyry dyke. The remainder of the hole intersected of dominantly calcite/ chlorite altered mafic flows with minor interflow greywacke units and the occasional medium to course grained feldspar porphyry. The highest gold assay of 1154 ppb Au/ 0.74 metres associated with sheared mafic volcanics intersected at 12.4 metres downhole. No

significantly anomalous gold assays were returned from the sheared / altered zone noted above. No significantly anomalous base metal analyses were returned from the 34 element ICP analyses.

### **SL97-02 (Sunday Lake Ontario Property)**

This diamond drill hole is located at L8+00E 9+65S, ending at 138 metres downhole (See Maps 1 and 3). The purpose of the hole was to test corresponding moderate chargeability and resistivity highs in the vicinity of an interpreted NE striking splay fault. The overburden depth is nine meters. From 9 to 58.30 metres, mafic flows were intersected with moderate silica alteration and weak sulphide mineralization. Mineralization consisted of up to two percent disseminated pyrrhotite and lesser amounts of pyrite forming along fracture planes. A moderately sheared mafic flow was intersected from 58.30 to 59.20 metres. Shearing was measured at 45 degrees to the core axis. Strong biotite, chlorite and calcite alteration is present. A one cm wide vein of sphalerite is also present parallel to shearing in this unit. From 59.60 to 67.10 metres, moderately altered and sheared mafic flows were intersected, with shearing at 55 degrees. Weak mineralization consisting of two to three percent disseminated pyrite and pyrrhotite occurs within this unit. The remainder of the hole consists of alternating mafic flows with the occasional, thin mafic intrusion, porphyry and greywacke unit that are weakly altered and mineralized. Moderate shearing is present at 113.45 to 114.47 metres associated with a greywacke unit. No significantly mineralized zones were intersected in the hole that could explain the chargeability anomaly. No significant gold assays were returned from this hole. A silver anomaly of 2.1 ppm Ag/1.35 metres was intersected at 59.60 metres associated with a sheared mafic flow unit. No other significantly anomalous base metal analyses were returned from this hole.

### **Geochemistry**

The results of the 34 element ICP analyses are included in Appendix II. Included in this appendix is a summary of sample preparation methods and sample analyses methods. Assay certificates are shown in Appendix IV. No significantly anomalous base metal analyses were returned from the 1997 Sunday Lake diamond drill program. Included in Appendix III are the results of selected 16 element whole rock analyses completed for each hole.

### **SUMMARY OF PROGRAM COSTS**

The Sunday Lake property is one of several Cyprus properties under the same accounting cost code, (i.e. Northern Abitibi Generative Project, #6008). The Sunday Lake property is unusual because it straddles the Ontario/ Quebec provincial border, therefore a further subdivision of expenditures is required for assessment application purposes only. However, subdivision of the individual Cyprus properties expenditures was not done on a project by project basis because of the reconnaissance nature of the properties. Therefore expenditures for the Sunday Lake (Ontario) and Sunday Lake (Quebec) portions of the Sunday Lake property have been allocated based on the percentage of work completed on each property relative to the overall work completed in the area. Expenditures for each sub-property have been broken out from the time sheets for the major expenditures associated with geophysics, drilling and helicopter invoices. Appendix IV includes a summary of expenditures from Cyprus' accountant up to February 28<sup>th</sup>, 1997. This summary page includes a summary of Cyprus personnel expenditures and miscellaneous field supplies and travel expenditures incurred in January and February of 1997. Also included are individual pertinent invoices from all major contractors working on the Sunday Lake (Ontario) and Sunday Lake (Quebec) sub-properties.

As of February 28<sup>th</sup>, 1997, a total of \$ 70,494.14 has been spent on the Sunday Lake (Ontario) property. A total of \$ 56,092.11 has been spent on the Sunday Lake (Quebec) property. These totals do not include GST and applicable provincial sales taxes.

Table 2 outlines all relevant expenditures applicable for assessment credits for both the Sunday Lake (Ontario) and Sunday Lake (Quebec) properties.

## **CONCLUSIONS**

In general, the results of the 1995/96 Sunday Lake drill program were disappointing. Several significantly sheared/ altered/ mineralized horizons were intersected, but the gold mineralization usually associated with these horizons were not realized.

The following conclusions can be made:

- a) The dominant rock type intersected in the drill program was mafic flows including pillowed and massive horizons. Within the flows are massive, fine to medium grained gabbroic intrusive sills and dykes.
- b) The northwesterly magnetic high tested by SL97-01 is associated with a gabbroic sill or dyke and discontinuous oxide and pyrrhotite enriched iron formation.
- c) The chargeability anomaly tested in SL97-01 is associated with a 8.1 metre sheared / altered mafic to intermediate pyroclastic unit interfingering with the above oxide and sulphide facies iron formation. This is probably the same horizon intersected by Amoco 1200 metres to the northwest. The best gold assay associated with this unit was only 106 ppb Au/ 0.34 metres. The above sheared unit occurs immediately up hole of a 4.1 metre strongly silicified but weakly mineralized feldspar porphyry dyke. From the ground IP and AEM surveys, the sheared altered/ mineralized unit is striking at approximately 310 degrees over a strike length of 4.5 kilometres. This horizon warrants further follow up.
- d) A second strong IP anomaly associated with the above northwesterly trend was not tested by SL97-01. This strong conductor should be considered in any future drill program.
- e) The best gold assay intersected in the drill program (i.e. 1.1 g/t Au/0.75 metres) was associated with thin, isolated shearing which does not warrant further follow up drilling.
- f) In general, only moderate shearing was intersected in SL97-02, which suggests that the hole may not have been long enough to fully test the interpreted northeasterly structure.
- g) Alteration/ mineralization in diamond drill hole SL97-02 was weak overall.

## **RECOMMENDATIONS**

Given the lack of gold mineralization associated with the mineralized /altered zones observed in the drill program, no further major expenditures, such as additional geophysical surveys or diamond drilling, should be considered prior to a reconnaissance prospecting and geological mapping program. It is recommended that a small fly camp be set up from which the following activities could be based:

- a) Reestablishment of the pickets on the existing grid (i.e. winter cut)
- b) Prospecting of the several hummocks observed from the helicopter for outcrop and mineralization along the northwesterly conductive trend.

TABLE 2: SUMMARY OF EXPENDITURES

ACTIVITY	DESCRIPTION	% OF ACTIVITY RELATIVE TO OVERALL PROGRAM (SUNDAY LAKE (ONTARIO))	OTHER	SUNDAY LAKE (ONTARIO) (\$)	% OF ACTIVITY RELATIVE TO OVERALL PROGRAM SUNDAY LAKE (QUEBEC)	OTHER	SUNDAY LAKE (QUEBEC) (\$)	OTHER PROPERTY(S) (\$)	SUBTOTAL (\$)	GRAND TOTAL (\$)
<b>GEOPHYSICS (VAL D'OR GEOPHYSIQUES)</b>										
	LINECUTTING		15.6KM @ \$325/KM	5070		7.2KM @ \$325/KM	2340		7410	
	GROUND MAG		15.6KM @ \$95/KM	1482		7.2KM @ \$95/KM	684		2166	
	IP		9.55KM @ \$745/KM	7114.75		5.75KM @ \$745/KM	4284		11398.75	
	CAMP MOB DEMOB	15.6KM/44.5KM=35.05%*\$3500		1226.75	7.2KM/44.5KM=16.18%*\$3500		566		1792.75	
	<b>SUBTOTAL</b>			<b>14893.5</b>			<b>7874</b>			<b>22767.5</b>
<b>DIAMOND DRILLING</b>										
	MAJOR HOSKINGS INVOICE 1338		FEBRUARY 15 -20			FEBRUARY 8 -14				
	DRILLING		138 METRES				9958.07		9958.07	
	ACID TESTS		2TESTS @ \$55/				110		110	
	COST PLUS LABOUR		202 HOURS @ \$24.5				4949		4949	
	CAMP MOB/DEMOB	\$8975 FOR ALL PROJECTS *10%		897.5	\$8975*12.5%		1121.87	6955.63	2019.37	
	LODGING		6 DAYS 4 MEN				900	1350	900	
	MISC. SUPPLIES		GAS				130		130	
			OFFICE RENTAL	120			150	930	270	
									0	
	MAJOR HOSKINGS INVOICE 1347								0	
	DRILLING		175.5 METRES	8190.3					8190.3	
	ACID TESTS		2 TESTS @ \$55/	110					110	
	COST PLUS LABOUR		256 HOURS @ \$24.5	6272					6272	
	LODGING		6 DAYS 4 MEN	900				1050	900	
	MISC. SUPPLIES		CORE BOXES	150			187.5	1162.5	337.5	
	<b>SUBTOTAL</b>			<b>16639.8</b>			<b>17506.44</b>			<b>34146.24</b>
<b>CYPRUS PERSONNEL</b>										
	138M/921M(OVERALL DDH PROGRAM)=15%		JAN.1, 97 TO FEBRUARY 28, 97		175.5M/921M=19.1%					
	BLAIR NEEDHAM		SENIOR GEOLOGIST							
	MARK BEN		PROJECT GEOLOGIST							
	BILL YEE		DATABASE TECHNICIAN							
	MELANIE HANAN		DRAFT PERSON							
	AL MCCHESENEY		FIELD TECHNICIAN							
	JANUARY		15% OF PROGRAM	856.88	19.1% OF PROGRAM		1071.11	3718.89	1927.99	
	FEBRUARY		15% OF PROGRAM	2246.49	19.1% OF PROGRAM		2860.53	9869.57	5107.02	
	<b>SUBTOTAL</b>			<b>3103.37</b>			<b>3931.64</b>			<b>7035.01</b>
<b>ABITIBI HELICOPTER</b>										
	LINECUTTING	15.6KM/22.8KM=68.4%*\$9030		6140.73	7.2KM/22.8KM=31.6%*\$9030		2890		9030.73	
	CAMP MOB/ DEMOB								0	
									0	
	GEOPHYSICAL CREW	15.6KM/22.8KM=68.4%*9.7 HRS	\$765/HR	5045.94	7.2KM/22.8KM=31.6%*9.7 HRS	\$765/HOUR	2344.88		7390.82	
	TRANSPORT								0	
									0	
	DRILL AND CYPRUS		FEBRUARY 15 -20			FEBRUARY 8 -14			0	
	CREW TRANSPORT	30.5 HOURS	\$765/HOUR	23791.5	26.7 HOURS	\$765/HOUR	20425.5		44217	
	<b>SUBTOTAL</b>			<b>34978.17</b>			<b>25660.38</b>			<b>60638.55</b>
<b>FIELD SUPPLIES</b>										
	(SEE 6008 EXP. SHEET)	15% OF \$4712		706.8	19.1% OF \$4712		900		1606.8	
<b>TRAVEL</b>	(SEE 6008 EXP. SHEET)	15% OF \$1150		172.5	19.1% OF \$1150		219.65		392.15	
<b>GRAND TOTALS</b>				<b>70494.14</b>			<b>56092.11</b>			<b>126586.25</b>

- c) Reconnaissance geological mapping along claim lines and along the existing widely spaced grid lines.

If encouraging alteration/ mineralization is observed from the above work, additional linecutting and geophysical surveys is recommended which could be followed by a three hole, 600 metre diamond drill program.

The budget outlined below would be required to complete all the above recommendations:

<b>RECOMMENDATION</b>	<b>DESCRIPTION</b>	<b>ESTIMATED COST</b>
Reconnaissance mapping/prospecting program		
	3 men, 10 days @ \$250/man day	\$7,500
	establishment of a summer fly camp	\$10,000
	sampling	\$1,000
	report	\$2,500
<b>Subtotal</b>		<b>\$21,000</b>

The following recommendations would be provisional upon favorable results from the above recommended prospecting/ mapping program.

Geophysics (linecutting, ground mag and IP surveys)	20 kilometres @ \$1600/km	\$32,000
	mob/demob	\$6,000
"Wildcat" Drilling	3 holes totalling 600 m @ \$150/m	\$90,000
<b>SUBTOTAL</b>		<b>\$128,000</b>
<b>GRAND TOTAL</b>		<b>\$149,000</b>

## REFERENCES

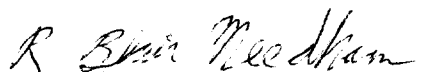
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## CERTIFICATE OF QUALIFICATIONS

THIS IS TO CERTIFY THAT:

I, R. Blair Needham, of 1209 David Avenue, in the town of Porcupine, Province of Ontario, certify as follows concerning the 1997 Sunday Lake Report on the Cyprus Canada Inc., Sunday Lake (Ontario) and Sunday Lake (Quebec) properties, Provinces of Ontario and Quebec and dated March, 1997.

- 1) I am a graduate of McMaster University, Hamilton, Ontario, with an honours B.A. in Geology and Geography (1979).
- 2) I have been practising my profession in Canada for the past seventeen years.
- 3) I am and have been employed since November 1992 by Cyprus Canada Inc., located in the town of South Porcupine, Province of Ontario.
- 4) I have no direct or indirect interest in the properties, leases or securities of Cyprus Canada Inc. nor do I expect to receive any.
- 5) I am a member of the following organizations: CIM, Geological Association of Canada, Porcupine Prospectors and Developers Association.
- 6) The attached report is a product of:
  - a) Literature review of the references cited.
  - b) Indirect and direct supervision of the Sunday Lake Property drill program conducted during the winter of 1997.
  - c) All available data.
- 7) I consent the use of this report in any filing statement or documents required by regulatory bodies.



R. Blair Needham

Dated this 19th day of  
March, 1997  
South Porcupine, Ontario

## CERTIFICATE OF QUALIFICATIONS

THIS IS TO CERTIFY THAT:

I, undersigned, Mark Ben, of 250 - 8th Avenue, in the town of Timmins, Province of Ontario, certify as follows concerning the 1997 Sunday Lake Report on the Cyprus Canada Inc., Sunday Lake (Ontario) and Sunday Lake (Quebec) properties, Provinces of Ontario and Quebec and dated March, 1997.

1. I am a graduate of the University of Regina, Regina Saskatchewan where I have obtained a B. Sc. in Geology in 1992.
2. I have been engaged in exploration geology since 1988 and have been employed with Cyprus Canada Inc. since June 1995 to the present.
3. I have no direct or indirect interest in the properties, leases or securities of Cyprus Canada Inc. nor do I expect to receive any.
4. The attached report is a product of:
  - a) Literature review of the references cited.
  - b) Indirect and direct supervision of the Sunday Lake Property drill program conducted during the winter of 1997.
  - c) All available data.
- 5) I consent the use of this report in any filing statement or documents required by regulatory bodies.

  
Mark Ben, B. Sc.

Dated this 19<sup>th</sup> day of March,  
South Porcupine, Ontario



**APPENDIX I**  
**1997 SUNDAY LAKE DIAMOND DRILL HOLE LOGS**







From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	AUAV PPB	AS PPM	CU PPM	ZN PPM	NI PPM	PY %	PO %	CPY %
80.75	83.80	MAFIC FLOW WITH ARGILLITE WEAKLY MINERALIZED WEAKLY ALTERED Similar to rock unit 49.50 to 79.90 with weakly to moderately foliated. With calcite amygdules. The argillite at 81.90 to 82.00 has a contact angle. And foliated at 45 degrees to core axis. Trace amounts of pyrrhotite and. Pyrite, weakly magnetic and weak to moderate carbonate alteration. Moderately to strongly sheared, moderately chloritized zone. 5 to 8% carbonate stringers. Amygdules are elongated parallel to shearing. 0.5 to 2 cm strongly biotite and calcite altered bands parallel to shearing at 50 to 60 degrees.												
		81.65 82.80 2cm wide calcite vein parallel to foliation which is at 45 degrees to core axis.	577194	81.65	82.80	1.15	5	5	94	55	39	TR	0	TR
		82.80 83.80 0	577195	82.80	83.80	1.00	37	10	83	101	49	0	0	0
83.80	91.90	INTERMEDIATE TO FELSIC PYROCLASTIC MAFIC PYROCLASTIC WITH ARGILLITE INTERFLOW STRONGLY SHEARED MODERATELY ALTERED MODERATELY MINERALIZED Moderately to strongly sheared, moderately altered, weakly to locally strongly pyrrhotite mineralized unit of intercalated pelites, mafic to intermediate tuffs and feldspar porphyry. Probable cause of the IP conductor.  Light yellow green to light medium grey, fine grained, moderately to strongly sheared at 50 to 60 degrees. Bedding at 38 to 40 degrees. Hardness 4 to locally > 5 associated with the occasional strongly silicified and/or quartz carbonate impregnated lenses. Weakly to moderately calcite altered. Patchy weak to moderate sericite alteration dominantly associated intermediate tuffs. Mafic tuffs are moderately to strongly biotite and/or chlorite altered with .2 to 1 cm calcite impregnated bands and stringers. Patchy silicification. Pelitic bands are moderately to well bedded and are interbed with lean .5 to 1.5 cm magnetite enriched interflow. Massive to semi-massive band of pyrrhotite from 84.54 to 84.86 metres has 40% pyrrhotite and 15% pyrite fracture fillings, matrix oxidized interflow is strongly brecciated. 1 to locally 8% fracture filling and fine grained disseminated pyrrhotite dominantly parallel to foliation. Trace to locally 4% pyrite blebs and fracture fillings. Trace to 5% carbonate and carbonate quartz stringers at 50 to 60 degrees. Upper contact at 34 degrees. Lower contact at 45 degrees.												
		83.80 84.52 Upper 24 cm strongly sheared and silicified zone. 27 cm strongly sericitized and sheared INTERMEDIATE TO FELSIC PYROCLASTIC band at 25 degrees.	577196	83.80	84.52	.72	4	5	109	1060	24	1	4	0
		84.52 84.86 Sulphide and oxidized interflow. Semi-massive fracture filling pyrrhotite and pyrite. Moderately to strongly brecciated oxidized magnetite fragments. 10 cm strongly silicified, sericitized INTERMEDIATE TO FELSIC PYROCLASTIC lenses. Smokey grey quartz clasts.	577197	84.52	84.86	.34	106	6	353	9700	102	15	40	0
		84.86 85.80 Well bedded pelitic sediments. Silicification decreasing downhole. Fracture fillings pyrrhotite and pyrite. Weakly sericitized upper 10 cm.	577198	84.86	85.80	.94	6	5	80	633	12	1	4	0
		85.80 86.16 Strongly sheared, carbonate impregnated, weak sulphide interflow with 10 to 15% oxidized, magnetite interflow stringers at 60 degrees, parallel to shearing.	577199	85.80	86.16	.36	61	5	442	4176	40	4	12	0
		86.16 87.00 Intercalated pelitic sediments and poorly developed interflow stringers and bands. Patchy moderate to strong sericite altered bands parallel to foliation. 2, 2 to 3 cm smokey grey quartz veinlet parallel to foliation at 50 to 60 degrees.	577200	86.16	87.00	.84	15	5	166	2446	22	3	7	0
		87.00 88.10 Upper 28 cm strongly silicified and sericitized, sheared INTERMEDIATE TO FELSIC PYROCLASTIC. Remainder possible	577201	87.00	88.10	1.10	15	5	176	3829	20	3	7	TR

From (m)	To (m)	Geology	Sample	From (m)	To (m)	LnGT (m)	AUAV PPB	AS PPM	CU PPM	ZN PPM	NI PPM	PY %	PO %	CPY %
		mafic tuff moderately to strongly biotite, chloritized and calcite altered matrix. Disseminated and fracture fillings pyrrhotite parallel to shearing at 50 to 55 degrees. 5 to 15% carbonate stringers parallel foliation.												
	88.10 88.90	Similar to 87 to 88 metres.	577202	88.10	88.90	.80	8	8	111	2152	22	3	7	0
	88.90 89.77	Similar to 87 to 88 metres but with 7 and 38 cm silicified bands with smokey grey quartz clasts with trace to 5% pyrrhotite and trace to 2% chalcopyrite fracture filling selvages at 60 and 30 degrees respectively.	577203	88.90	89.77	.87	3	7	1953	1162	31	2	12	1
	89.77 90.67	Similar to 87 to 88 metres with 17 cm intensely silicified and/or quartz impregnated band at 60 degrees with associated 10 to 15% pyrrhotite fracture fillings and 2 to 4% sphalerite fracture fillings and trace chalcopyrite bleb	577204	89.77	90.67	.90	7	5	147	3530	28	2	7	TR
	90.67 91.24	Similar to 87 to 88 metres with 2 and 10 cm strongly silicified and/or quartz impregnated bands at 40 and 55 degrees respectively. Trace to 2% sphalerite fracture fillings and trace chalcopyrite associated with quartz impregnated bands.	577205	90.67	91.24	.57	8	5	146	1395	39	2	7	TR
	91.24 91.90	Similar to 87 to 88 metres with 1 to 3% sphalerite fracture fillings adjacent to silicified and/or quartz impregnated lenses. 4 cm semi-massive pyrrhotite band at lower contact at 55 degrees.	577206	91.24	91.90	.66	12	5	127	3318	24	1	10	TR
91.90	96.65	FELDSPAR PORPHYRY STRONGLY ALTERED WEAKLY MINERALIZED Medium to dark grey. Poorly defined subhedral 2 to 4 mm feldspar phenocrysts in a massive, strongly silicified, fine grained matrix with irregular disseminated chlorite blebs dispersed evenly throughout. Hardness > 5. Strongly silicified. Trace disseminated, fine grained pyrrhotite and pyrite grains. Massive, fine grained mafic flow or dyke from 93.14 to 93.75 metres. Trace to 5% carbonate quartz stringers at 5 to 10 degrees and 40 to 50 degrees. Sharp lower contact at 48 degrees.												
	91.90 93.14	0	577207	91.90	93.14	1.24	3	5	33	103	18	TR	TR	0
	93.14 93.75	Massive, chlorite biotite altered mafic flow. Strongly biotite altered upper contact at 55 degrees. Sharp, irregular lower contact at approximately 60 degrees.	577208	93.14	93.75	.61	3	5	44	98	30	0	TR	0
	93.75 94.42	0	577209	93.75	94.42	.67	3	5	8	62	13	TR	TR	0
	94.42 95.85	5% carbonate quartz stringers at 5 to 10 degrees and 40 to 50 degrees with chlorite biotite bleb selvages.	577210	94.42	95.85	1.43	3	5	10	58	13	TR	TR	0
	95.85 96.65	Lower 45 cm strongly to intensely silicified. .5 to 2 cm carbonate quartz chlorite fracture filling at approximately 15 degrees. Series of fine microfractures at 45 degrees.	577211	95.85	96.65	.80	3	5	10	52	12	1	2	0
96.65	116.40	MAFIC FLOW WEAKLY ALTERED WEAKLY FOLIATED Medium to dark green, tholeiitic to Fe tholeiitic basalt. Fine grained, dominantly weakly to moderately foliated at 50 degrees. Hardness 3.5 to 4.5. Moderately calcite and chlorite altered matrix with 5 to 15% strongly calcite and biotite altered bands parallel to foliation. Occasional poorly developed intensely chlorite altered pillow selvages. 5 to 15% carbonate fracture fillings and stringers dominantly parallel to foliation. Rare barren glassy quartz vein with intensely chloritized selvages. Sharp, strongly chloritized and biotite altered lower contact at 60 degrees.												
	96.65 98.04	1 cm quartz carbonate stringer at 40 degrees. Upper 7 cm strongly chlorite biotite altered. 24 cm weakly silicified and biotite altered band with 10 to 15% carbonate quartz stringers at approximately 15 degrees with 1 to 2% pyrrhotite bleb selvages.	577212	96.65	98.04	1.39	3	5	61	88	22	TR	TR	0
	98.62 99.49	Massive weakly to moderately biotite chlorite altered	577213	98.62	99.49	.87	3	5	48	73	20	TR	2	0



From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	AUAV PPB	AS PPM	CU PPM	ZN PPM	NI PPM	PY %	PO %	CPY %
		Non magnetic. Occasional poorly defined quartz feldspar porphyry dyke with strongly chlorite and/or biotite altered selvages. Trace very fine grained pyrite and pyrrhotite grains usually associated with carbonate quartz stringer selvages. Fine grained garnets observed in the lower 10 metres of the unit. Occasional 1 to 3 cm strongly biotite calcite altered band parallel to weak foliation.												
123.52	124.22	15% carbonate stringers at 55 to 60 degrees. Strongly biotite altered upper 18 cm. 1 cm quartz carbonate veinlet at 67 degrees at 124.22 metres with associated 2 to 3% pyrrhotite blebs and trace chalcopyrite.	577228	123.52	124.22	.70	3	5	123	63	76	TR	1	0
124.22	125.55	Very fine grained, silicified quartz feldspar porphyry with 3 to 5% irregular carbonate fracture fillings. Dark grey with very fine grained disseminated biotite in the matrix. Lower contact at 48 degrees.	577229	124.22	125.55	1.33	3	5	63	52	9	TR	TR	0
125.55	126.58	5 to 10% carbonate stringers.	577230	125.55	126.58	1.03	16	5	84	41	58	TR	1	0
126.58	127.58	5 to 10% carbonate stringers and impregnated bands. 25 cm chlorite carbonate impregnated brecciated band at 127.16 metres at 50 to 60 degrees with associated 2 to 3% pyrrhotite grains.	577231	126.58	127.58	1.00	3	5	204	38	52	TR	1	0
132.00	132.90	0	577232	132.00	132.90	.90	3	5	115	37	60	TR	TR	0
136.66	138.05	10 to 15% carbonate stringers and fracture fillings dominantly at 55 degrees.	577233	136.66	138.05	1.39	3	5	171	33	46	TR	TR	0
138.05	138.92	0	577234	138.05	138.92	.87	3	5	47	28	45	TR	TR	0
138.92	139.98	Quartz feldspar porphyry. Similar to 124.2 to 125.5 metres. 3 to 5% irregular carbonate chlorite fracture fillings with associated pyrrhotite pyrite blebs. Lower contact at 62 degrees.	577235	138.92	139.98	1.06	3	5	28	26	24	TR	2	0
139.98	140.54	3 cm bleached, and MODERATELY MINERALIZED upper contact with 2 to 3% disseminated pyrrhotite blebs. Strongly chloritized and carbonatized with biotite clots. 4 to 7% irregular carbonate fracture fillings.	577236	139.98	140.54	.56	3	5	130	50	61	TR	1	0
141.00	141.52	8 cm carbonate quartz biotite veinlet with irregular contacts from 25 to 50 degrees. 5% irregular carbonate fracture fillings.	577237	141.00	141.52	.52	5	5	60	34	56	TR	TR	0
147.05	148.05	3, 1 cm irregular quartz carbonate veinlets at 40 to 60 degrees. 5 to 10% irregular carbonate fracture fillings.	577238	147.05	148.05	1.00	3	5	62	42	49	TR	TR	0
150.39	151.68	3 cm quartz carbonate veinlets at 52 degrees.	577239	150.39	151.68	1.29	3	5	88	39	56	TR	0	0
155.81	156.80	5 to 10% irregular carbonate fracture fillings and stringers.	577240	155.81	156.80	.99	13	5	118	33	67	TR	0	0
161.30	162.14	15 to 20% quartz carbonate epidote fracture fillings and irregular stringers.	577241	161.30	162.14	.84	3	5	240	15	33	TR	TR	TR
165.63	166.23	23 cm strongly brecciated quartz carbonate epidote impregnated band.	577242	165.63	166.23	.60	3	5	52	50	68	TR	TR	0
169.85	170.20	15 to 20% carbonate fracture fillings and stringers dominantly at 43 degrees, locally with biotite and garnet selvages.	577243	169.85	170.20	.35	16	5	99	37	52	TR	TR	0
170.20	172.24	CHERT to GREYWACKE. Medium grey, fine grained. Hard. Locally garnetiferous. Sharp lower contact at 50 degrees. Locally bleached, associated with silicified or carbonate sericitic alteration. Trace disseminated, fine grained sulphides.												
170.20	170.82	Very fine grained cherty interflow sediment. 1% medium grained garnet grains. Very finely laminated at 55 degrees.	577244	170.20	170.82	.62	3	5	18	53	7	TR	0	0
170.82	172.24	Patchy alteration, weakly foliated at 40 to 55 degrees.	577245	170.82	172.24	1.42	3	5	4	49	10	TR	TR	0
172.24	173.15	Strongly chloritized matrix with 15 to 20% carbonate impregnated breccia bands and fracture fillings.	577246	172.24	173.15	.91	3	5	132	56	58	TR	TR	0
174.00	175.38	10 to 15% irregular carbonate fracture fillings and stringers.	577247	174.00	175.38	1.38	12	5	171	81	58	TR	TR	0









From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	AUAV PPB	AS PPM	CU PPM	ZN PPM	NI PPM	PY %	PO %	CPY %
		possibly steel grey in color and nonmagnetic. Upper contact angle is 53 degrees to core axis, lower contact is at 45 degrees to core axis.												
		58.30 59.20 Unknown sulphide approximately 8%.	577268	58.30	59.20	.90	27	5	133	167	85	0	3	0
59.20	59.60	QUARTZ FELDSPAR PORPHYRY DYKE MODERATELY ALTERED WEAKLY MINERALIZED Light grey, medium grained with disseminated pyrrhotite with 5% biotite. Contact angles are sharp at 30 degrees for upper and 25 degrees to core axis.												
		59.20 59.60 Whole rock geochem.	577269	59.20	59.60	.40	3	5	39	72	32	0	2	0
59.60	67.10	MAFIC FLOW MODERATELY ALTERED WEAKLY MINERALIZED MODERATELY SHEARED MODERATELY VEINED Similar to rock unit at 7.85m to 58.30m with only moderate silica, weak biotite alteration. With 1 to 2% disseminated pyrrhotite. 59.20 to 60.95m Quartz veining zone with weak to moderate carbonate alteration with 5 to 7% chlorite and 2-3% fracture pyrite, contact angle of 30 degrees to core axis. 66.10 to 67.10m Moderately sheared with alternating bands of mafic flow and greywacke. Sharp contact angles of 50 degrees for upper and 45 degrees upper and lower respectively to the core axis. Moderate calcite alteration.												
		59.60 60.95 0	577270	59.60	60.95	1.35	3	5	90	43	43	3	0	0
		60.95 62.25 10 CM WIDE WEAK SHEAR WITH MODERATE CALCITE WITH FRACTURE PYRRHOTITE.	577271	60.95	62.25	1.30	6	7	90	149	75	0	2	0
		65.15 66.10 Disseminated pyrite and pyrrhotite along carbonate fractures at 70 degrees to core axis.	577272	65.15	66.10	.95	3	5	86	50	62	1	1	0
		66.10 67.10 Disseminated fracture pyrite and pyrrhotite parallel to shearing.	577273	66.10	67.10	1.00	6	12	116	90	90	2	1	0
67.10	71.90	GREYWACKE MODERATELY ALTERED WEAKLY MINERALIZED Light grey in color and moderately silicified and massive Weakly magnetic with 3% disseminated pyrrhotite and pyrite with weak carbonate alteration. Carbonate fractures at 55 degrees to core axis. Lower contact sharp at 35 degrees to the core axis.												
		67.10 67.90 Disseminated pyrite and pyrrhotite along fractures at 30 degrees to core axis.												
		67.90 68.75 Whole rock geochemical analysis, fracture sulphides.	577274	67.10	67.90	.80	3	5	34	99	40	1	2	0
71.90	79.96	MAFIC FLOW STRONGLY ALTERED MODERATELY SHEARED WEAKLY MINERALIZED Similar to rock unit at 7.85m to 58.30 with moderate shearing between 72.10m 72.70 at 65 degrees to core axis with weak to moderate high ferrous carbonate and weak to very locally magnetic. The shear zone is similar to that at 66.10 to 67.10m with the exception of not as much alternating greywacke. The upper contact of the mafic flow is sharp at 40 degrees to the core axis. Strong silicification is present with 2 to 4% carbonate stringers 45 and 60 degrees to the core axis. 72.10 72.70 Weak biotite alteration disseminated fracture pyrrhotite.												
		72.70 73.75 0	577277	72.10	72.70	.60	3	5	70	77	42	0	3	0
		78.05 79.30 2, 10 CM WIDE MODERATE SHEARS AT 78.20M AND 73.10 WITH A CORE ANGLE OF 55 DEGREES.	577278	72.70	73.75	1.05	5	5	110	58	44	TR	0	TR
79.96	90.96	MAFIC INTRUSIVE MODERATELY ALTERED WEAKLY MINERALIZED Greenish grey, medium grained, massive with weak calcite (high ferrous) and quartz stringers at 35 degrees to the core axis. Upper contact is sharp at 25 degrees to the core axis and the lower contact is at 30 degrees to the core axis. Weakly to very locally moderately magnetic with up to 3% pyrrhotite blebs, moderately silicified.												
		81.62 82.92 0												
		85.25 86.34 WHOLE ROCK GEOCHEM ANALYSIS, DISSEMINATED PYRRHOTITE.	577280	81.62	82.92	1.30	3	5	107	70	44	0	1	1

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	AUAV PPB	AS PPM	CU PPM	ZN PPM	NI PPM	PY %	PO %	CPY %
90.96	113.45	MAFIC FLOW STRONGLY ALTERED MODERATELY MINERALIZED WEAKLY SHEARED Similar to rock unit at 71.90 79.96 with very localized moderate shearing at 112.40m to 113.45 at 60 degrees to the core axis. There are 1-2mm size amygdules of calcite near the top of the rock unit. The mafic flow is greyish green in color with 5% high ferrous calcite and quartz stringers orientated at 50 degrees to the core axis, low angle chlorite altered fractures are at 25 degrees to the core axis. Minor disseminated pyrite and pyrrhotite along and stringers. Locally weakly magnetic and. 90.96 92.00 7cm wide milky white barren quartz vein, pyrrhotite is disseminated through out the sample. 92.00 92.75 Fracturing at 50 degrees to core axis. 97.05 97.80 0 97.80 98.60 Disseminated pyrite and pyrrhotite along calcite fractures at 20 and 55 degrees to the core axis. 98.60 99.30 Fracture pyrite. 101.30 102.00 Moderately sheared at 65 degrees to the core axis, alternating bands of mafic flow with calcite quartz stringers, sulphides are disseminated, shear is approximately 38cm in length. 102.00 102.80 Chlorite fractures at 25 degrees to core axis. 110.25 111.05 0 111.05 111.70 10% irregular high ferrous calcite veinlets, weakly magnetic with disseminated pyrrhotite. 111.70 112.40 Disseminated pyrrhotite. 112.40 113.45 20 CM WIDE MODERATE SHEAR OF MAFIC FLOW AND CALCITE VEINLETS AT 60 DEGREES OF THE CORE AXIS, 10 TO 15% CALCITE AND QUARTZ VEINLETS, BLEBS OF PYRRHOTITE.	577281	85.25	86.34	1.09	3	5	120	82	39	0	1	0
			577282	90.96	92.00	1.04	3	5	87	59	29	TR	2	0
			577283	92.00	92.75	.75	3	5	130	59	42	0	0	TR
			577284	97.05	97.80	.75	3	5	127	84	43	TR	0	0
			577285	97.80	98.60	.80	3	5	164	136	51	2	0	1
			577286	98.60	99.30	.70	3	5	119	42	37	1	0	0
			577287	101.30	102.00	.70	3	5	92	57	38	0	1	1
			577288	102.00	102.80	.80	3	5	49	43	127	0	0	TR
			577289	110.25	111.05	.80	3	5	98	50	36	TR	0	0
			577290	111.05	111.70	.65	3	5	124	84	33	0	3	0
			577291	111.70	112.40	.70	3	5	96	58	45	0	2	0
113.45	114.47	GREYWACKE MODERATELY SHEARED STRONGLY ALTERED WEAKLY MINERALIZED Light grey with moderate shearing at 50 degrees to the core axis. Intercalated with mafic flow and calcite quartz veinlets. Strongly silicified with moderate to strong calcite alteration. Upper and lower contacts are sharp at 55 degrees to the core axis. Disseminated pyrite up to 2% with 1% pyrrhotite, very weakly magnetic through the shear zone. 113.45 114.47 0	577292	112.40	113.45	1.05	3	5	90	49	39	0	2	0
114.47	133.60	MAFIC FLOW STRONGLY ALTERED WEAKLY MINERALIZED WEAKLY SHEARED Similar to the rock unit at 90.96 113.45. Weak shearing present in narrow zones (5 to 10 cm wide) at with very light brown calcite (low ferrous) veinlets at 50 degrees to the core axis. Strongly silicified through out the unit except between 125.40 to 130.00m which is very weakly silicified. Weakly magnetic with disseminated pyrrhotite. 114.47 115.55 Irregular calcite quartz stringers, disseminated pyrrhotite. 118.00 118.95 7 to 10% calcite quartz veinlets trending at 50 degrees to core axis. 120.66 121.40 Moderate fracturing at low angles to the core axis with quartz carbonate veins at 40 degrees to core axis. 127.10 128.05 Fracture pyrrhotite at 60 degrees to the core axis. 128.05 129.05 5% light brown calcite (high ferrous) stringers with fracture pyrite at 50 degrees to core axis. 129.05 129.95 10% light brown calcite (high ferrous) veinlets at 50 degrees to the core axis, fracture pyrite at the same orientation. 130.55 131.60 4CM WIDE HIGH FERROUS CALCITE QUARTZ VEIN, FRACTURE PYRRHOTITE AT 75 DEGREES TO THE CORE AXIS. 132.60 133.60 5% irregular light brown high ferrous calcite quartz veins.	577293	113.45	114.47	1.02	3	5	68	53	31	2	0	1
			577294	114.47	115.55	1.08	3	5	148	72	38	0	0	TR
			577295	118.00	118.95	.95	3	5	69	43	37	0	2	0
			577296	120.66	121.40	.74	3	5	85	56	36	0	0	TR
			577297	127.10	128.05	.95	3	5	96	49	41	0	2	0
			577298	128.05	129.05	1.00	3	5	144	56	43	2	0	0
			577299	129.05	129.95	.90	3	5	74	43	32	2	0	0
			577300	130.55	131.60	1.05	3	5	85	57	36	0	2	0
133.60	135.05	FELDSPAR PORPHYRY STRONGLY ALTERED WEAKLY MINERALIZED LIGHT GREY WITH 1MM SIZE FELDSPAR CRYSTAL AND QUARTZ EYES IN A	577301	132.60	133.60	1.00	3	5	135	85	41	0	0	0

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	AUAV PPB	AS PPM	CU PPM	ZN PPM	NI PPM	PY %	PO %	CPY %
		INTERMEDIATE fine grained matrix. Strongly silicified through out, weakly mineralized with disseminated pyrrhotite, weakly magnetic. Sharp upper and lower contact at 65 degrees and 60 degrees respectively. 133.60 134.60 0												
135.05	138.00	MAFIC FLOW STRONGLY ALTERED WEAKLY MINERALIZED WEAKLY SHEARED Same as rock unit at 114.47 to 133.65m. 136.10 137.35 DISSEMINATED PYRRHOTITE.	577302	133.60	134.60	1.00	3	5	37	45	16	0	2	0
138.00		END OF HOLE	577303	136.10	137.35	1.25	3	5	116	46	36	0	0	1

**APPENDIX II**

**1997 SUNDAY LAKE AU ASSAY AND 34 ELEMENT ICP DATABASE**

### ASSAY DATABASE FOR SL97-01

Sample Number	Auav ppb	Au ppb	Au Ck ppb	Au Ck g/t	Ag ppm	As ppm	Cu ppm	Zn ppm	Ni ppm	Cr ppm	Pb ppm	Mo ppm	Sb ppm	Al %	Fe %	Mg %	Ca %	Na %	K %	Ti %	Mn ppm	Cd ppm	Co ppm	Ba ppm	Bi ppm	Ga ppm	La ppm	Li ppm	Nb ppm	Sc ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	V ppm	W ppm	Y ppm	Zr ppm
577157	3	3			0.2	5	45	74	20	129	4	10	5	3.39	5.44	2.33	3.51	0.25	0.29	0.18	943	0.2	30	94	5	4	5	23	1	20	20	12	10	10	161	20	13	3
577158	3	3			0.2	5	67	64	15	52	4	7	5	2.88	4.93	2.14	2.32	0.16	0.16	0.14	757	0.2	26	47	5	2	4	17	1	14	20	9	10	10	120	20	9	1
577159	3	3	3		0.2	5	35	46	12	72	3	6	5	2.29	3.89	1.50	2.47	0.18	0.09	0.13	666	0.2	21	13	5	2	4	9	1	13	20	11	10	10	109	20	9	2
577160	3	3			0.2	5	83	53	13	92	5	7	5	2.31	4.03	1.53	2.71	0.16	0.07	0.12	684	0.2	24	10	5	2	3	13	1	12	20	10	10	10	104	20	8	2
577161	1127	1154		1.1	0.2	5	229	103	21	51	21	7	5	3.61	6.08	2.73	3.04	0.09	0.08	0.16	872	0.3	39	20	5	3	4	29	1	13	20	11	10	10	135	20	9	2
577162	3	3			0.2	6	386	105	31	103	39	12	5	4.88	9.04	3.72	2.14	0.17	0.11	0.21	1140	0.4	53	35	5	3	6	29	1	20	20	14	10	10	192	20	15	3
577163	3	3			0.2	5	66	73	17	71	4	6	5	2.66	5.28	2.27	2.47	0.15	0.21	0.14	827	0.2	25	56	5	4	9	13	1	11	20	1	10	10	119	20	8	1
577164	3	3			0.2	5	186	64	20	181	4	12	5	2.31	4.87	2.16	3.67	0.07	0.10	0.13	693	0.2	24	27	7	4	9	19	1	8	20	1	10	10	94	20	6	1
577165	3	3			0.2	5	23	67	14	25	4	3	5	2.94	5.38	2.43	3.40	0.15	0.13	0.12	941	0.2	21	19	5	3	12	18	1	16	20	1	10	10	125	20	9	1
577166	4	3			0.2	5	54	88	15	43	3	6	5	3.28	6.37	2.64	3.50	0.12	0.07	0.11	1130	0.2	24	7	5	8	13	12	1	15	20	1	10	10	167	20	9	1
577167	5	5			0.2	5	139	112	30	76	4	10	5	4.97	8.14	3.67	6.60	0.26	0.43	0.20	1696	0.3	54	134	5	6	8	24	1	31	20	28	10	10	244	20	19	7
577168	3	3			0.2	5	90	127	28	92	3	11	5	4.44	7.65	3.23	4.91	0.26	0.57	0.20	1314	0.3	43	169	5	5	9	21	1	26	20	16	10	10	247	20	17	5
577169	3	3			0.2	5	69	80	20	83	3	9	5	4.55	6.76	3.06	3.68	0.34	0.22	0.21	1208	0.3	35	60	5	4	7	13	1	21	20	19	10	10	162	20	14	4
577170	3	3			0.2	5	141	57	18	89	5	9	5	2.68	5.41	2.01	6.36	0.16	0.44	0.15	1050	0.2	24	146	5	2	4	19	1	13	20	23	10	10	119	20	8	2
577171	3	3			0.5	5	94	57	15	51	4	6	5	2.81	5.01	2.00	2.18	0.26	0.17	0.15	738	0.2	21	41	5	2	6	13	1	16	20	10	10	10	125	20	11	3
577172	3	3			0.4	5	45	57	7	78	3	7	5	2.50	4.90	1.27	2.75	0.34	0.44	0.17	622	0.2	15	98	5	4	16	15	1	12	20	21	10	10	74	20	18	15
577173	3	3			0.2	5	54	68	3	182	4	10	5	2.20	4.63	1.08	2.31	0.30	0.29	0.15	498	0.2	14	76	5	3	21	11	1	10	20	19	10	10	65	20	20	14
577174	3	3			0.4	5	29	58	14	51	2	6	5	2.50	4.94	1.78	2.29	0.29	0.39	0.15	695	0.2	18	97	5	2	7	14	1	16	20	10	10	10	117	20	11	9
577175	9	9			0.2	5	4	48	13	48	2	5	5	2.34	4.50	1.58	2.36	0.28	0.31	0.15	630	0.2	18	84	5	2	5	12	1	16	20	10	10	10	119	20	10	8
577176	2	3			0.4	5	89	32	3	80	3	8	5	1.75	3.64	0.82	1.85	0.24	0.14	0.12	386	0.2	13	30	5	3	15	8	1	8	20	15	10	10	52	20	14	14
577177	3	3			0.2	5	61	55	15	47	4	5	5	2.73	4.68	2.00	2.07	0.24	0.11	0.15	674	0.2	20	17	5	2	4	21	1	16	20	10	10	10	125	20	11	6
577178	3	3			0.3	5	53	46	18	26	4	5	5	2.19	5.76	1.69	5.15	0.15	0.20	0.20	780	0.2	21	177	5	2	4	29	1	8	20	42	10	10	120	20	6	7
577179	3	3			0.2	5	57	42	2	89	10	6	5	0.75	2.34	0.29	0.64	0.21	0.30	0.08	164	0.2	8	91	5	2	37	7	1	5	20	11	10	10	17	20	26	75
577180	3	3			0.2	5	7	28	4	134	3	8	5	0.45	1.20	0.04	0.84	0.10	0.18	0.03	302	0.2	2	90	5	2	33	3	1	5	20	7	10	10	3	20	27	63
577181	3	3	3		0.2	5	64	75	1	102	4	8	5	2.07	5.06	1.01	1.84	0.19	0.04	0.21	553	0.2	12	202	5	3	14	24	1	7	20	17	10	10	54	20	15	13
577182	3	3			0.6	5	163	35	12	87	5	10	5	2.02	4.88	1.63	1.93	0.20	0.62	0.16	535	0.2	17	111	5	2	6	18	1	13	20	11	10	10	87	20	10	5
577183	3	3			0.2	5	58	46	15	25	3	5	5	2.02	4.17	1.73	2.32	0.19	0.13	0.13	531	0.2	19	27	5	2	5	13	1	12	20	9	10	10	89	20	9	4
577184	9	9			0.5	5	18	6	13	45	3	4	5	1.51	3.24	0.99	2.54	0.19	0.08	0.14	345	0.2	11	18	5	2	3	7	1	11	20	14	10	10	75	20	6	3
577185	3	3			0.2	5	41	52	14	112	3	7	5	1.12	2.94	0.97	4.47	0.12	0.14	0.10	564	0.2	13	51	5	2	3	10	1	8	20	5	10	10	65	20	5	3
577186	6	3			0.3	5	14	15	15	73	3	6	5	1.60	3.45	1.32	2.14	0.21	0.11	0.11	419	0.2	12	61	5	2	3	9	1	11	20	7	10	10	78	20	7	3
577187	9	9			0.3	5	124	15	20	60	3	4	5	1.63	2.71	1.27	2.32	0.18	0.03	0.11	405	0.2	13	3	5	2	3	9	1	10	20	12	10	10	71	20	7	3
577188	3	3			0.2	5	73	25	25	62	2	6	5	2.01	3.70	1.56	1.91	0.17	0.04	0.11	447	0.2	17	2	5	2	3	11	1	10	20	9	10	10	74	20	6	2
577189	3	3			0.2	5	81	54	28	77	2	6	5	2.95	4.55	1.96	2.20	0.16	0.03	0.10	551	0.2	22	2	5	2	5	11	1	15	20	8	10	10	106	20	8	1
577190	3	3			0.2	5	58	32	24	50	3	5	5	2.38	4.06	1.75	2.17	0.18	0.03	0.10	574	0.2	18	2	5	2	4	9	1	13	20	9	10	10	91	20	8	3
577191	6	6			0.2	5	91	15	25	73	2	5	5	1.66	2.99	1.73	2.90	0.15	0.01	0.11	723	0.2	18	3	5	4	6	3	1	9	20	1	10	10	71	20	6	1
577192	3	3			0.2	5	73	22	25	55	3	4	5	1.94	3.29	1.87	2.60	0.14	0.01	0.10	784	0.2	16	3	5	5	7	4	1	9	20	1	10	10	75	20	6	2
577193	5	5	5		0.2	5	97	34	27	88	2	7	5	4.76	3.76	1.98	3.67	0.44	0.05	0.14	717	0.2	22	7	5	5	4	13	1	16	20	83	10	10	101	20	8	1
577194	5	5			0.2	5	94	55	39	90	2	6	5	3.80	4.48	1.59	4.80	0.40	0.20	0.13	911	0.2	31	61	5	5	4	14	1	19	20	58	10	10	129	20	10	1
577195	37	37			0.2	10	83	101	49	130	2	5	5	4.24	5.83	1.55	3.91	0.33	0.20	0.15	1793	0.4	37	28	5	6	5	15	1	22	20	44	10	10	135	20	10	1
577196	4	5			0.3	5	109	1060	24	236	7	13	5	2.31	5.40	0.80	1.12	0.12	0.45	0.02	436	3.3	23	81	5	2	20	13	1	5	20	20	10	22	20	7	16	
577197	106	106			2.3	6	353	9700	102	207	43	20	5	1.72	10.00	0.82	1.78	0.03	0.23	0.07	475	27.2	121	10	8	4	10	12	1	5	21	4	24	10	29	44	7	7
577198	6	6			0.3	5	80	633	12	179	11	10	5	1.98	3.30	0.51	1.67	0.15	0.34	0.03	421	1	11	50	5	3	11	9	1	5	20	28	10	10	14	20</		



### ASSAY DATABASE FOR SL97-01

Sample Number	Auav ppb	Au ppb	Au Ck ppb	Au Ck g/t	Ag ppm	As ppm	Cu ppm	Zn ppm	Ni ppm	Cr ppm	Pb ppm	Mo ppm	Sb ppm	Al %	Fe %	Mg %	Ca %	Na %	K %	Ti %	Mn ppm	Cd ppm	Co ppm	Ba ppm	Bi ppm	Ga ppm	La ppm	Li ppm	Nb ppm	Sc ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	V ppm	W ppm	Y ppm	Zr ppm
577209	3	3			0.2	5	8	62	13	222	3	9	5	1.29	2.42	1.00	0.32	0.08	0.75	0.08	351	0.2	7	193	5	5	20	15	1	5	20	1	10	10	31	20	8	22
577210	3	3			0.2	5	10	58	13	129	2	9	5	1.54	2.52	0.80	1.02	0.14	0.89	0.10	580	0.2	11	283	5	4	18	28	1	5	20	11	10	10	28	20	9	28
577211	3	3			0.4	5	10	52	12	215	3	11	5	1.58	2.49	0.77	2.69	0.21	0.71	0.14	971	0.2	8	274	5	3	18	23	1	5	20	21	10	10	29	20	10	52
577212	3	3			0.3	5	61	88	22	61	4	7	5	2.77	5.27	1.56	2.14	0.25	0.80	0.22	685	0.2	25	282	5	3	16	32	1	9	20	31	10	10	110	20	12	14
577213	3	3			0.2	5	48	73	20	135	3	9	5	2.47	4.23	1.35	2.05	0.29	0.57	0.19	704	0.2	22	178	5	4	18	25	1	9	20	33	10	10	92	20	13	10
577214	3	3			0.2	5	21	64	14	122	3	10	5	1.77	2.77	0.95	1.92	0.28	0.82	0.21	608	0.2	9	301	5	4	23	25	1	6	20	40	10	10	51	20	13	57
577215	3	3			0.2	5	84	79	58	190	4	7	5	2.40	4.40	1.34	1.82	0.29	0.22	0.14	1155	0.2	28	56	5	2	8	14	1	14	20	18	10	10	104	20	10	2
577216	6	7			0.3	5	75	44	84	277	3	7	5	3.61	3.62	1.72	2.24	0.32	0.50	0.15	1057	0.2	32	156	5	3	2	21	1	14	20	29	10	10	109	20	6	1
577217	3	3			0.2	5	94	79	102	345	4	10	5	4.44	5.85	2.77	3.24	0.14	0.93	0.23	1842	0.3	35	198	5	2	2	25	1	13	20	34	10	10	118	20	6	1
577218	3	3			0.2	5	10	19	39	373	4	20	5	1.04	1.83	0.68	0.40	0.05	0.13	0.09	391	0.2	9	36	5	2	6	8	1	5	20	11	10	10	33	20	6	11
577219	3	3			0.2	8	67	65	90	363	4	12	5	3.64	5.53	2.52	3.37	0.04	0.16	0.20	1488	0.3	32	37	5	2	5	21	1	7	20	22	10	10	92	20	5	5
577220	3	3			0.2	5	99	53	87	227	3	6	5	3.85	4.64	2.53	3.62	0.19	0.11	0.20	1396	0.3	32	22	5	2	2	17	1	11	20	30	10	10	106	20	5	1
577221	6	6			0.2	5	143	51	84	232	9	6	5	3.15	5.43	1.95	5.52	0.16	0.30	0.14	1347	0.3	28	68	5	2	1	17	1	13	20	19	10	10	103	20	4	1
577222	3	3			0.3	5	24	47	18	137	4	11	5	2.27	3.28	1.06	2.15	0.18	0.90	0.17	578	0.2	12	234	5	4	19	18	1	7	20	18	10	10	73	20	13	28
577223	3	3			0.2	5	17	51	6	232	3	14	5	1.25	1.92	0.30	0.79	0.17	0.62	0.11	390	0.3	3	155	5	3	33	10	1	5	20	12	10	10	10	20	18	81
577224	4	3	6		0.2	5	6	70	9	231	9	15	5	1.17	1.87	0.23	0.97	0.15	0.64	0.10	430	0.5	2	132	5	3	35	10	1	5	20	15	10	10	7	20	20	81
577225	11	11			0.2	5	6	45	4	239	7	12	5	1.16	1.69	0.22	1.02	0.14	0.59	0.09	405	0.2	2	133	5	3	35	9	1	5	20	16	10	10	7	20	19	84
577226	15	16			0.2	5	9	44	8	205	9	16	5	1.24	1.91	0.23	1.18	0.13	0.69	0.10	406	0.2	2	133	5	3	35	10	1	5	20	15	10	10	6	20	19	77
577227	3	3			0.5	5	19	47	13	180	5	11	5	2.01	2.68	0.74	1.18	0.15	1.08	0.17	521	0.2	7	337	5	4	29	21	1	5	20	16	10	10	34	20	17	65
577228	3	3			0.2	5	123	63	76	255	7	6	5	2.95	4.39	1.78	4.69	0.19	1.38	0.19	1323	0.4	28	202	8	16	5	32	1	13	20	20	10	10	103	20	5	1
577229	3	3			0.2	5	63	52	9	122	5	13	5	1.76	3.14	1.05	1.38	0.22	0.88	0.15	470	0.2	12	159	7	10	21	17	1	7	20	18	10	10	67	20	13	29
577230	16	16			0.2	5	84	41	58	210	5	6	5	2.80	3.81	1.56	4.28	0.24	0.09	0.11	1201	0.2	21	13	7	14	3	11	1	12	20	24	10	10	80	20	4	1
577231	3	3			0.2	5	204	38	52	176	3	5	5	2.85	4.36	1.46	5.23	0.24	0.09	0.09	1376	0.2	21	22	6	12	3	10	1	11	20	26	10	10	72	20	4	1
577232	3	3			0.2	5	115	37	60	193	6	5	5	3.06	3.22	1.46	4.94	0.31	0.10	0.12	970	0.5	22	19	5	11	2	12	1	11	20	36	10	10	76	20	4	1
577233	3	3			0.2	5	171	33	46	145	4	4	5	2.49	3.21	1.34	6.19	0.23	0.05	0.07	1240	0.2	19	4	5	12	3	7	1	9	20	32	10	10	56	20	4	1
577234	3	3	3		0.2	5	47	28	45	171	3	3	5	1.83	2.62	1.31	3.75	0.25	0.06	0.10	901	0.2	16	6	5	10	2	5	1	11	20	14	10	10	72	20	4	1
577235	3	3			0.2	5	28	26	24	133	3	6	5	1.56	2.46	1.28	1.16	0.19	0.59	0.12	416	0.2	13	135	5	8	23	17	1	6	20	15	10	10	65	20	11	19
577236	3	3			0.2	5	130	50	61	188	3	5	5	2.41	4.22	1.76	3.40	0.18	0.08	0.10	972	0.2	22	19	6	12	3	14	1	11	20	10	10	10	82	20	4	1
577237	5	3			0.2	5	60	34	56	151	6	3	5	2.59	2.54	1.39	5.78	0.23	0.04	0.10	742	0.2	18	6	5	10	2	17	1	8	20	30	10	10	66	20	4	1
577238	3	3			0.2	5	62	42	49	182	5	5	5	2.40	3.43	1.56	3.41	0.24	0.16	0.11	920	0.2	20	62	5	12	6	10	1	12	20	15	10	10	80	20	6	2
577239	3	3			0.2	5	88	39	56	187	6	4	5	2.83	3.53	1.53	5.04	0.26	0.06	0.09	1225	0.2	20	10	5	14	3	11	1	12	20	21	10	10	76	20	4	1
577240	13	13			0.2	5	118	33	67	186	5	4	5	2.50	2.63	1.38	5.13	0.30	0.05	0.10	979	0.2	22	22	5	11	2	9	1	11	20	26	10	10	72	20	4	1
577241	3	3			0.2	5	240	15	33	104	5	4	5	1.73	1.42	0.88	5.67	0.17	0.02	0.10	613	0.2	10	4	5	7	2	7	1	5	20	31	10	10	39	20	3	1
577242	3	3			0.2	5	52	50	68	230	8	4	5	3.83	3.96	2.05	5.26	0.31	0.04	0.10	956	0.2	25	7	5	13	3	13	1	11	20	46	10	10	84	20	4	1
577243	16	16			0.2	5	99	37	52	149	3	4	5	2.61	4.64	1.38	7.32	0.18	0.84	0.12	3107	0.2	19	206	6	24	5	15	1	10	20	24	10	10	70	20	4	1
577244	3	3			0.2	5	18	53	7	192	4	13	5	0.83	1.41	0.12	0.88	0.14	0.38	0.06	498	0.2	1	121	5	8	29	9	1	5	20	7	10	10	5	20	20	58
577245	3	3			0.2	5	4	49	10	201	3	12	5	0.97	1.33	0.15	0.96	0.15	0.41	0.05	459	0.3	2	84	5	8	31	8	1	5	20	8	10	10	5	20	20	59
577246	3	3			0.2	5	132	56	58	161	5	5	5	2.95	5.15	1.49	5.88	0.20	0.69	0.12	2298	0.2	21	158	10	23	5	16	1	11	20	24	10	10	75	20	5	1
577247	12	3			0.2	5	171	81	58	174	6	4	5	2.95	4.31	1.54	5.16	0.28	0.09	0.10	1494	0.5	23	8	9	15	4	12	1	12	20	24	10	10	80	20	5	1

### WHOLE ROCK ANALYSES FOR SL97-01

Sample Number	SiO2 %	TiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	P2O5 %	LOI %	Total %	Ba ppm	Cr ppm	Sr ppm
577157	54.07	1.07	13.68	13.79	0.2	5.43	8.34	2.1	0.48	0.13	1.54	100.87	135	114	85
577158	50.16	1.11	14.3	14.42	0.21	5.69	7.58	1.81	0.43	0.12	1.56	97.4	130	35	83
577159	53.37	1	13.72	12.99	0.22	5.35	8.65	2.05	0.31	0.15	0.78	98.61	76	85	93
577160	53.79	1.01	13.19	13.57	0.21	5.2	8.35	2.02	0.63	0.12	1.56	99.89	176	128	97
577161	45.27	1.21	15.18	15.29	0.22	6.19	8.17	1.92	0.57	0.14	3.79	97.99	188	39	112
577162	48.87	1.23	16.06	15.63	0.2	5.96	6.05	2.22	0.38	0.13	3.06	99.85	133	94	136
577163	52.72	1.05	13.79	13.71	0.2	5.66	8	2.04	0.5	0.14	1.35	99.19	166	76	111
577164	60.6	0.74	9.87	9.92	0.14	4	6.99	1.27	0.63	0.1	3.37	97.68	241	278	78
577165	44.73	1.13	15.58	14.73	0.23	6.32	9.41	2.4	0.69	0.13	2.46	97.84	200 <	10	122
577166	46.49	1.1	15.19	15.1	0.22	5.98	8.8	2.38	0.23	0.07	3.33	98.9	36	30	121
577167	44.72	1.04	14.78	14.81	0.22	5.58	9.88	2.06	0.47	0.11	3.55	97.25	113	19	123
577168	49.07	1.1	14.6	14.56	0.22	5.88	8.98	2.32	0.64	0.11	2.29	99.8	155	38	115
577169	52.08	1.05	13.75	14.23	0.21	5.72	8.29	1.89	0.35	0.13	0.79	98.52	69	51	101
577170	50.54	0.86	12.03	11.58	0.21	4.45	11.85	1.65	0.64	0.1	5.38	99.32	216	110	117
577171	54.11	1.03	13.86	13.49	0.2	5.54	7.91	2.16	0.33	0.13	0.72	99.5	74	39	109
577172	58.57	1.27	14.97	10.67	0.15	2.81	7.18	3.69	0.66	0.33	0.59	100.93	173	90	177
577173	60.93	1.29	14.61	9.55	0.13	2.27	6.11	4.28	0.46	0.3	0.19	100.17	118	232	158
577174	54.21	1.06	14.12	13.23	0.21	5.16	7.67	2.84	0.64	0.15	0.58	99.9	160	32	116
577175	54.23	1.08	13.89	13.22	0.21	5.21	8.11	2.57	0.65	0.12	0.67	99.98	146	59	115
577176	63.08	1.12	14.12	8.98	0.14	2.29	6.31	3.68	0.35	0.3	0.44	100.84	100	114	137
577177	55.05	1.08	14.03	13.51	0.21	5.58	7.17	2.37	0.52	0.15	1.17	100.86	133	44	125
577178	48.32	0.9	12.15	11.51	0.18	4.8	9.41	4.14	2.1	0.13	5.34	99.03	278 <	10	130
577179	67.77	0.43	16.84	2.65	0.04	0.58	1.06	8.97	0.9	0.1	1.12	100.53	378	146	135
577180	77.69	0.17	11.24	2.23	0.05	0.15	1.8	4.93	1.31 <	0.03	1.18	100.85	629	244	64
577181	59.78	1.39	14.89	9.23	0.14	2.08	5.47	3.71	1.85	0.35	1.23	100.2	480	185	182
577182	55.09	1.07	14.64	11.82	0.17	4.49	6.9	3.07	1.21	0.17	1.39	100.09	406	152	167
577183	49.14	1.07	15.14	13.2	0.19	6.19	8.94	2.62	0.55	0.13	1.73	98.94	122 <	10	152
577184	53.62	0.91	13.7	12.1	0.15	4.89	10.27	2.6	0.35	0.14	1.11	99.86	74	54	114
577185	54.05	0.8	11.27	10.07	0.18	4.67	11.36	3.02	0.48	0.12	4.03	100.1	171	236	74
577186	54.34	0.89	13.6	11.3	0.16	5.57	8.38	2.75	0.36	0.1	1.12	98.6	167	114	106
577187	52.25	0.79	14.06	10.92	0.17	6.02	9.98	2.72	0.27	0.09	1.61	98.91	51	90	138
577188	52.65	0.83	14.32	12.41	0.18	6.47	8.77	2.35	0.26	0.11	1.48	99.85	44	89	125
577189	53.31	0.74	13.15	12.62	0.18	6.14	8.85	2.16	0.32	0.11	1.52	99.13 <	10	24	104
577190	54.78	0.74	13.41	11.96	0.2	6	9.04	2.34	0.27	0.11	1	99.88 <	10 <	10	116
577191	55.52	0.72	12.98	10.38	0.2	5.5	9.84	2.87	0.25	0.11	1.15	99.54 <	10	30	133
577192	55.55	0.72	13.26	10.99	0.22	5.63	9.52	2.61	0.26	0.11	1.14	100.03 <	10 <	10	131
577193	53.48	0.73	13.78	13.28	0.2	6.05	9.93	1.16	0.12	0.1	1.41	100.26 <	10	77	104
577194	56.51	0.82	14.67	9.13	0.22	3.89	9.72	1.75	0.38	0.11	3.29	100.53	100	99	163
577195	55.45	0.81	14.41	13.32	0.38	3.09	9.14	1.54	0.41	0.07	2.08	100.73	67	142	161
577196	69.32	0.44	14.46	6.29	0.06	1.26	1.91	0.79	3.52	0.11	2.73	100.99	792	242	67
577197	49.81	0.44	9.9	26.33	0.07	1.26	2.65	0.27	2.05	0.14	7.62	100.61	504	237	30
577198	73.07	0.35	12.52	3.8	0.06	0.98	3.04	1.39	2.44	0.15	2.39	100.27	408	211	110
577199	61.4	0.62	12.22	12.65	0.08	1.77	4.29	0.81	2.2	0.16	4.63	100.9	296	298	99
577200	67.59	0.41	12.55	8.09	0.07	1.24	3.17	0.6	2.87	0.11	3.24	100.01	365	273	73
577201	65.09	0.28	11.7	8.21	0.12	1.47	5.05	0.36	2.54	0.12	3.78	98.8	383	324	76
577202	58.4	0.47	14.49	10.53	0.18	3.15	6.19	0.89	2.68	0.15	3.3	100.49	414	164	127
577203	55.31	0.65	14.97	9.95	0.16	3.45	5.4	1.64	2.12	0.22	4.28	98.21	340	93	195
577204	65.72	0.44	13.78	7.64	0.13	1.75	3.94	0.51	3.21	0.15	2.96	100.31	480	219	71
577205	57.66	0.53	13.35	11.97	0.18	2.37	5.9	0.45	2.98	0.14	4.88	100.48	394	172	74
577206	52.71	0.68	12.94	13.34	0.26	3.1	7.71	0.99	1.55	0.05	4.91	98.29	270	81	135
577207	68.02	0.53	14.58	5.29	0.11	1.56	3.8	3.85	1.74	0.18	0.84	100.58	400	294	93

### WHOLE ROCK ANALYSES FOR SL97-01

Sample Number	SiO2 %	TiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	P2O5 %	LOI %	Total %	Ba ppm	Cr ppm	Sr ppm
577208	59.69	1	15.44	9.25	0.14	2.59	5.36	3.17	2.12	0.27	1.81	100.89	361	45	144
577209	69.47	0.55	15	4.53	0.07	1.15	2.62	5.24	1.16	0.16	0.25	100.28	363	278	126
577210	68.2	0.46	14.08	5.14	0.09	1.21	3.28	4.38	1.33	0.14	1.24	99.61	357	136	122
577211	65.58	0.45	13.23	5.28	0.13	1.21	5.49	4.35	1.07	0.13	3.09	100.09	340	283	115
577212	57.7	1.08	15.31	11.51	0.14	2.7	5.45	3.75	1.05	0.28	1.21	100.23	304	25	213
577213	60.06	1.02	14.25	10.8	0.14	2.51	5.9	3.75	0.79	0.26	0.92	100.47	189	150	207
577214	65.89	0.52	14.59	5.22	0.08	1.2	3.67	6.21	1.07	0.17	1.93	100.61	294	111	148
577215	55.44	0.96	14.38	13.69	0.26	3.27	7.83	2.96	0.43	0.18	0.84	100.29	60	266	168
577216	54.85	0.82	15.36	13.27	0.27	4.55	7.8	1.58	0.87	0.07	1.12	100.62	150	435	83
577217	52.96	0.64	12.41	15.55	0.3	4.76	8.78	0.49	1.25	0.07	3.2	100.5	201	502	99
577218	84.53	0.18	5.18	3.55	0.05	0.92	1.29	1.32	0.24	0.03	0.6	97.95	33	478	41
577219	61.64	0.53	10.77	10.74	0.19	3.52	7.09	0.92	0.28	0.06	4.7	100.5	42	480	88
577220	53.01	0.71	13.7	12.79	0.25	5.1	9.58	1.33	0.24	0.08	3.89	100.72	12	332	98
577221	48.74	0.67	12.83	15.33	0.32	5.22	10.82	1.41	0.53	0.1	4.49	100.51	65	366	100
577222	67.55	0.69	12.21	7.25	0.11	1.78	4.77	3.47	1.18	0.2	1.32	100.6	305	158	145
577223	73.85	0.28	13.01	3.43	0.05	0.48	1.81	5.01	1.3	0.09	0.65	100.05	399	304	102
577224	74.82	0.25	12.62	3.12	0.05	0.37	1.53	4.47	1.72	0.05	1.05	100.13	466	250	106
577225	75.16	0.26	12.83	3.15	0.05	0.35	1.64	4.38	1.79	0.05	1.05	100.81	484	267	115
577226	74.7	0.26	12.63	3.19	0.05	0.39	1.79	4.28	1.89	0.07	1.3	100.64	549	240	100
577227	71.39	0.41	13.37	4.61	0.07	1.05	2.94	3.73	2.01	0.12	1.16	100.96	678	206	132

### ASSAY DATABASE FOR SL97-02

Sample Number	Auav ppb	Au ppb	Au Ck ppb	Ag ppm	As ppm	Cu ppm	Zn ppm	Ni ppm	Cr ppm	Pb ppm	Mo ppm	Sb ppm	Al %	Fe %	Mg %	Ca %	Na %	K %	Ti %	Mn ppm	Cd ppm	Co ppm	Ba ppm	Bi ppm	Ga ppm	La ppm	Li ppm	Nb ppm	Sc ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	V ppm	W ppm	Y ppm	Zr ppm
577248	3	3		0.2	7	122	40	60	122	7	5	5	2.9	3.2	1.66	2.96	0.35	0.04	0.14	635	0.2	21	9	5	6	5	5	1	9	20	27	10	10	80	20	4	1
577249	7	7		0.2	5	110	45	55	103	7	3	5	3.02	3.18	1.76	3.21	0.35	0.04	0.14	642	0.2	20	7	5	5	5	6	1	9	20	29	10	10	78	20	4	1
577250	3	3		0.2	5	117	39	56	122	5	5	5	2.82	3.16	1.55	3.74	0.33	0.04	0.13	711	0.2	21	6	5	5	5	5	1	9	20	29	10	10	77	20	3	1
577251	3	3		0.2	5	160	45	66	146	6	4	5	3.21	3.81	1.9	3.09	0.33	0.04	0.13	704	0.2	25	6	5	6	7	10	1	10	20	28	10	10	88	20	4	1
577252	3	3		0.2	5	124	34	53	98	9	3	5	3.51	3.18	1.7	3.13	0.41	0.04	0.13	558	0.2	20	7	5	6	5	6	1	9	20	43	10	10	76	20	4	1
577253	3	3		0.2	5	148	75	61	144	18	4	5	2.77	3.43	1.53	4.41	0.26	0.03	0.15	782	0.2	23	4	5	5	7	10	1	9	20	28	10	10	80	20	4	1
577254	11	15	7	0.2	5	127	32	58	86	5	3	5	2.65	2.9	1.38	3.96	0.32	0.04	0.17	664	0.2	21	5	5	5	5	7	1	9	20	31	10	10	77	20	4	1
577255	3	3		0.2	7	118	73	71	97	9	3	5	1.71	2.9	1.4	2.45	0.26	0.04	0.1	617	0.2	23	4	5	4	4	6	1	10	20	11	10	10	74	20	4	1
577256	3	3		0.2	5	130	35	60	68	3	2	5	1.76	2.99	1.57	1.64	0.25	0.03	0.09	555	0.2	23	4	5	5	4	6	1	9	20	8	10	10	71	20	4	1
577257	7	7		0.2	8	118	43	53	86	3	2	5	2.01	3.04	1.64	2.49	0.28	0.03	0.11	602	0.2	21	4	5	4	5	5	1	10	20	13	10	10	76	20	4	1
577258	8	8		0.2	5	156	99	59	114	26	5	5	2.98	3.2	1.66	3.52	0.35	0.04	0.15	638	0.2	22	6	5	7	6	7	1	9	20	32	10	10	79	20	4	1
577259	5	5		0.2	5	118	42	41	76	7	2	5	2.52	2.86	1.63	2.72	0.33	0.04	0.11	532	0.2	17	6	5	4	5	5	1	8	20	27	10	10	70	20	4	1
577260	7	7		0.2	9	138	74	61	110	20	3	5	2.99	3.69	1.83	4.65	0.33	0.04	0.13	768	0.2	23	7	5	5	6	8	1	10	20	30	10	10	87	20	4	1
577261	3	3		0.2	5	95	218	79	137	48	3	5	3.76	4.56	2.21	4.39	0.34	0.04	0.13	833	0.5	29	7	5	6	9	19	1	12	20	34	10	10	107	20	4	1
577262	3	3		0.2	6	79	43	59	227	9	10	5	2.56	3.31	1.82	4.86	0.2	0.02	0.09	844	0.2	22	5	5	6	5	10	1	7	20	28	10	10	66	20	3	1
577263	3	3		0.2	6	84	77	86	149	13	3	5	4.26	5.19	2.59	4.67	0.25	0.02	0.13	976	0.2	32	6	5	9	10	20	1	9	20	30	10	10	96	20	4	1
577264	3	3		0.2	5	126	33	49	106	7	4	5	2.47	2.69	1.49	2.7	0.32	0.04	0.11	496	0.2	19	5	5	4	4	5	1	8	20	27	10	10	65	20	3	1
577265	3	3		0.2	5	131	35	54	103	9	3	5	2.99	3.27	1.68	3.4	0.35	0.04	0.14	631	0.2	21	5	5	6	5	5	1	10	20	32	10	10	81	20	4	1
577266	3	3		0.2	9	111	55	61	126	17	5	5	3.35	3.54	1.78	3.39	0.37	0.04	0.13	658	0.2	23	6	5	7	7	9	1	10	20	34	10	10	84	20	4	1
577267	3	3		0.2	7	123	125	77	168	60	6	5	2.44	4.93	1.67	2.39	0.21	0.05	0.15	677	0.3	30	7	5	5	7	9	1	9	20	18	10	10	73	20	4	1
577268	27	27		0.2	5	133	167	85	207	58	8	5	1.86	5.76	1.64	3.38	0.15	0.28	0.2	904	1.3	30	32	5	4	10	15	1	9	20	9	10	10	95	20	6	1
577269	3	3		0.2	5	39	72	32	176	13	10	5	2.04	3.37	1.68	5.53	0.23	0.86	0.18	447	0.2	14	143	5	7	29	16	1	8	20	10	10	53	20	11	25	
577270	3	3		2.1	5	90	43	43	587	63	24	5	0.95	2.77	1.05	4.08	0.06	0.07	0.06	738	0.2	15	17	5	2	5	8	1	5	20	14	10	10	47	20	2	1
577271	6	6		0.2	7	90	149	75	125	75	4	5	2.97	4.1	2.11	2.84	0.3	0.08	0.15	693	0.4	27	15	5	7	7	12	1	11	20	23	10	10	93	20	4	1
577272	3	3		0.2	5	86	50	62	135	7	4	5	3.09	3.51	1.92	3.15	0.35	0.1	0.17	690	0.2	23	20	5	5	6	9	1	11	20	37	10	10	90	20	4	1
577273	6	6		0.2	12	116	90	90	188	19	7	5	3.01	5.28	2.06	2.74	0.22	0.61	0.19	903	0.2	33	152	5	9	15	25	1	13	20	17	10	10	138	20	6	4
577274	3	3		0.2	5	34	99	40	113	16	4	5	1.59	2.8	1.41	1.92	0.29	0.27	0.12	484	0.2	16	53	5	7	32	11	1	6	20	25	10	10	59	20	6	12
577275	3	3		0.2	5	31	78	38	115	10	5	5	1.56	2.85	1.4	2.39	0.26	0.3	0.13	484	0.2	16	53	5	7	34	12	1	6	20	30	10	10	61	20	6	11
577276	3	3	3	0.2	5	41	70	39	82	9	4	5	2.11	3.91	1.83	2.41	0.3	0.51	0.18	527	0.2	21	113	5	7	17	19	1	7	20	35	10	10	85	20	6	6
577277	3	3		0.2	5	70	77	42	167	7	3	5	2.19	4.18	1.82	3.2	0.24	0.17	0.17	697	0.2	26	39	5	7	12	19	1	11	20	29	10	10	111	20	6	3
577278	5	5		0.2	5	110	58	44	135	5	3	5	2.93	4.72	1.79	3.52	0.3	0.1	0.21	827	0.2	26	7	5	5	10	10	1	15	20	27	10	10	132	20	7	1
577279	3	3		0.2	5	136	96	40	120	18	4	5	2.57	4.24	1.69	3.41	0.27	0.06	0.22	761	0.2	24	4	5	5	8	8	1	13	20	17	10	10	118	20	6	1
577280	3	3		0.2	5	107	70	44	78	10	4	5	2.29	4.08	1.76	2.55	0.28	0.06	0.15	666	0.2	23	4	5	5	7	9	1	12	20	14	10	10	108	20	7	1
577281	3	3		0.2	5	120	82	39	88	10	2	5	2.47	4.64	1.83	2.75	0.31	0.08	0.15	752	0.2	24	5	5	5	9	7	1	15	20	12	10	10	130	20	8	1
577282	3	3		0.2	5	87	59	29	124	4	5	5	2.34	3.78	1.54	2.98	0.24	0.09	0.16	706	0.2	18	11	5	5	7	12	1	12	20	19	10	10	106	20	6	1
577283	3	3		0.2	5	130	59	42	215	7	19	5	2.65	4.68	1.75	3.03	0.28	0.1	0.17	789	0.2	23	47	5	6	8	7	1	15	20	12	10	10	127	20	7	1
577284	3	3		0.2	5	127	84	43	112	20	5	5	2.48	4.28	1.71	3.17	0.24	0.07	0.13	753	0.2	24	5	5	9	1	14	1	14	20	10	10	10	114	20	6	2
577285	3	3		0.2	5	164	136	51	123	39	4	5	2.91	5.42	1.9	2.92	0.27	0.09	0.12	885	0.2	32	7	5	9	2	12	1	15	20	8	10	10	120	20	7	1
577286	3	3		0.2	5	119	42	37	125	2	6	5	2.12	3.8	1.47	2.97	0.23	0.07	0.13	666	0.2	21	5	5	8	2	8	1	13	20	9	10	10	102	20	6	1
577287	3	3		0.2	5	92	57	38	148	2	5	5	2.36	4.05	1.68	3.09	0.21	0.06	0.12	738	0.2	21	6	5	9	1	10	1	12	20	8	10	10	101	20	5	1
577288	3	3		0.2	5	49	43	127	460	2	2	5	2.29	3.43	2.27	1.9	0.14	0.06	0.11	565	0.2	21	8	5	8	1	20	1	8	20	10	10	66	20	4	5	
577289	3	3		0.2	5	98	50	36	106	8	4	5	2.1	3.59	1.51	3.41	0.27	0.06	0.2	649	0.2	19	5	5	7	1	5	1	13	20	12	10	10	104	20	7	2
577290	3	3		0.2	5	124	84	33	77	36	4	5	1.83	3.51	1.38	6.24	0.23	0.05	0.12	784	0.4	19	5	7	9	3	6	1	11	20	16	10	10	90	20	6	1
577291	3	3	3	0.2	5	96																															

## WHOLE ROCK ANALYSES FOR SL97-02

Sample Number	SiO2 %	TiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	P2O5 %	LOI %	Total %	Ba ppm	Cr ppm	Sr ppm
577269	64.85	0.5	15.25	4.59	0.06	1.91	2.75	5.5	1.22	0.11	1.09	97.88	221	197	75
577275	59.67	0.78	15.47	6.41	0.12	2.89	5.65	6.02	0.75	0.36	2.02	100.19	156	147	219
577281	51.16	1.12	14.25	12.57	0.22	5.7	9.49	2.03	0.27	0.11	0.99	97.95	32	146	128

**APPENDIX III**  
**1997 SUNDAY LAKE ASSAY CERTIFICATES**



# Inchcape Testing Services

Bondar Clegg

Bondar-Clegg & Company Ltd.  
50-5450 Canotek Road  
Ottawa, Ontario  
K1J 9G5  
Tel: (613) 749-2220  
Fax: (613) 749-7170

JAN 31 1997

Ottawa, January 21, 1997

**Mr. R. Blair Needham**  
**Mr. David B. Stevenson**  
Cyprus Canada Inc  
66 Bruce Avenue  
Box 1120  
South Porcupine, Ontario  
P0N 1H0

Dear Blair and David

Thank you for choosing Bondar Clegg, Chimitec Ltee, to service your analytical requirements in 1997. Based on a sample volume of 3000-5000 samples, we are pleased of giving you the following services.

## **SAMPLE PREPARATION**

### **Routine Sample Preparation**

- Dry , Crush 70% minus 20 mesh
- Split a sub-sample of 500 grs using Jones Riffle Splitter
- Pulverize 98 % minus 200 mesh using Ring and Puck type pulverizer
- Homogenized, bagged and labelled

Cost per sample : \$ 4.50 up to 2 kg, Additional Weight \$ 0.50 / kg

**As requested, one 400-500 split from each batch will be screen tested to determine the quality of the crushed materials. This information will be recorded and provided to Cyprus Canada Inc, free of charge.**

### **Special Sample Preparation " V.G " Total Metallic ( if required )**

- Dry, Crush 70 % minus 10 mesh
- Total pulverization using Ring and Puck type pulverizer
- Screening entire sample through 150 mesh screen ( electro-vibrator from T.M )
- Weighing both fractions + and - 150 mesh
- The entire + 150 will be Fire assay- Gravimetric finish
- The entire - 150 will be homogenize by mixing in a two axle rotation barrel prior to take the two sub-sample for analysis.

Cost per sample : \$ 10.00 up to 2 Kg, additional Weight \$ 2.50 / Kg

## **ANALYTICAL SERVICES**

<b>Element</b>	<b>Fraction</b>	<b>Analytical Method</b>	<b>Cost per sample</b>
Au ( 30 grs )*	-200	Fire Assay- AAS	\$ 6.50
Au ( 1 A.T )	-200	Fire Assay- Gravimetric	\$ 7.50
Au, metallic	-150	Fire Assay- Gravimetric	\$ 7.50
Au , metallic	+150	Fire Assay- Gravimetric	\$ 8.50/ 40g fusion
ICP-34 elements		Aqua Regia-ICP-AES	\$ 5.00
Base metal ( > 10,000ppm )		Multi-acid- A.A	\$ 8.00/ element
Whole Rock including 10 majors + LOI		Fusion- ICP-AES	\$12.00
Whole Rock including 10 majors + LOI		Fusion- XRF	\$20.00

\* All samples done using routine sample preparation, having a " Gold concentration" greather than 1000 ppb will be re-assay from the original pulp by Fire Assay- Gravimetric finish.

## **ANALYTICAL TURNAROUND**

We dont foresee any problem for giving you a 5 days turnaround, as requested, after we get samples in our facility in Val D'or.

## **QUALITY ASSURANCE / QUALITY CONTROL PROCEDURES**

Bondar Clegg will report all quality control data generated when processing your samples including : certified reference materials ( CANMET standards ), internal standards, blanks, analytical duplicates and sample preparation duplicates.

As an example, in every batch of 24 pots in Fire Assay, it is our routine practice to include 1 standard or blank and 1 analytical duplicate.

Also, on a regular basis , if requested by you, we will be able to provide all quality control charts utilized internally to monitor our performance.

## **DATA TRANSFER AND REPORTING**

If requested, results of analysis will be reported as soon as they become available, by fax transmission to your office in Timmins. Final report in duplicate with the invoice will be sent as per your directions. All data will be supplied on diskette using the format of your choice.

In addition you may access the project data as they become available, on a 24 hour basis, 7 days a week by direct modem access to Bondar Clegg's Laboratory Information Management System ( LIMS ). This system has been acknowledged by many of our clients as one of the best among commercial laboratories.

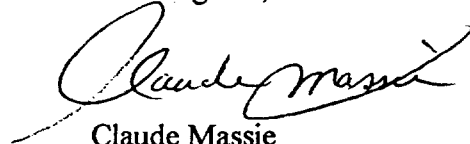


**OTHER SERVICES**

- Bondar Clegg will supply, if needed, plastic sample bags, assay tag, shipping bag, submittal form, etc.
- Bondar Clegg will, as requested, take a second split ( 100 g )every 10th sample from the original pulp and sent these to your laboratory of choice as quality control check

I hope this quotation will meet all your requirements, but if you have any questions please feel free to contact me at anytime.

Best Regards,



Claude Massie  
V.P Eastern Region

c.c Richard Deschambault



**Inchcape Testing Services**  
**Chimitec Ltée**

d'Or, PQ, Canada

**" U R G E N T & C O N F I D E N T I A L "**

To: CYPRUS CANADA INC.  
 Attention : R. BLAIR NEEDHAM  
 Reference : -  
 Submitter : BLAIR NEEDHAM

Our Fax No: (819) 825-0256  
 Your Fax No: 1-705-235-5700  
 Number of Pages : 2 including this page.

Report : C97-60302.0      Status : PARTIAL      Total number of samples: 71

Element Method	Totl	Element Method	Totl	Element Method	Totl
AU30 30g Fire Assay - AA	71				

Results to follow for: AuGrav

Sample Preparations	Totl	Sample Type	Totl	Size Fraction	Totl	Remarks
CRUSH/SPLIT & PULV.	71	DRILL CORE	71	-150	71	

Notes:

If you do not receive the entire transmission in legible form, please call us at (819) 825-0178.



**Inchcape Testing Services**  
**Chimitec Ltée**

CLIENT: CYPRUS CANADA INC.  
 REPORT: C97-60302.0 ( PARTIAL )

PROJECT: 6008  
 DATE PRINTED: 21-FEB-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
577157		<5	577197		106
577158		<5	577198		6
577159		<5	577199		61
577160		<5	577200		16
577161		1154	577201		15
577162		<5	577202		9
577163		<5	577203		<5
577164		<5	577204		7
577165		<5	577205		8
577166		<5	577206		14
577167		5	577207		<5
577168		<5	577208		<5
577169		<5	577209		<5
577170		<5	577210		<5
577171		<5	577211		<5
577172		<5	577212		<5
577173		<5	577213		<5
577174		<5	577214		<5
577175		9	577215		<5
577176		<5	577216		7
577177		<5	577217		<5
577178		<5	577218		<5
577179		<5	577219		<5
577180		<5	577220		<5
577181		<5	577221		6
577182		<5	577222		<5
577183		<5	577223		<5
577184		9	577224		<5
577185		<5	577225		11
577186		<5	577226		16
577187		9	577227		<5
577188		<5			
577189		<5			
577190		<5			
577191		6			
577192		<5			
577193		5			
577194		5			
577195		37			
577196		5			

Handwritten notes and markings on the page:

- A large handwritten number '1' is written above the first column of data.
- A handwritten number '2' is written at the bottom of the page.
- A handwritten circled number '01' is written in the center of the page.
- A handwritten number '5293' is written vertically in the center of the page.
- A handwritten arrow points from the value '1154' in the second column to the right.
- A handwritten checkmark is visible near the bottom right of the table.



**Inchcape Testing Services**  
**Chimatec Ltée**

1 d'Or, PQ, Canada

**" U R G E N T & C O N F I D E N T I A L "**

To: CYPRUS CANADA INC.  
 Attention : R. BLAIR NEEDHAM  
 Reference : #-SHIP-03  
 Submitter : BLAIR NEEDHAM

Our Fax No: (819) 825-0256  
 Your Fax No: 1-705-235-5700  
 Number of Pages : 2 including this page.

Report : C97-60316.0      Status : COMPLETE      Total number of samples: 20

Element Method	Totl	Element Method	Totl	Element Method	Totl
AU30 30g Fire Assay - AA	20				

Sample Preparations	Totl	Sample Type	Totl	Size Fraction	Totl	Remarks
CRUSH/SPLIT & PULV.	20	DRILL CORE	20	-150	20	

Notes:

If you do not receive the entire transmission in legible form, please call us at (819) 825-0178.



Inchcape Testing Services  
Chimitec Ltée

CLIENT: CYPRUS CANADA INC.  
REPORT: C97-60316.0 ( COMPLETE )

PROJECT: 6008  
DATE PRINTED: 24-FEB-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
577228		<5
577229		<5
577230		16
577231		<5
577232		<5
577233		<5
577234		<5
577235		<5
577236		<5
577237		<5
577238		<5
577239		<5
577240		13
577241		<5
577242		<5
7243		16
577244		<5
577245		<5
577246		<5
577247		<5



SL 96-01



# Inchcape Testing Services Chimitec Ltée

11 d'Or, PQ, Canada

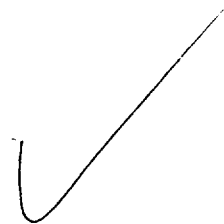
**" U R G E N T & C O N F I D E N T I A L "**

To: CYPRUS CANADA INC.  
Attention : R. BLAIR NEEDHAM  
Reference : SHIP #6  
Submitter : BLAIR NEEDHAM

Our Fax No: (819) 825-0256  
Your Fax No: 1-705-235-5700  
Number of Pages : 2 including this page.

Report : C97-60377.0      Status : COMPLETE      Total number of samples: 48

Element Method	Totl	Element Method	Totl	Element Method	Totl
AU30 30g Fire Assay - AA	48				



Sample Preparations	Totl	Sample Type	Totl	Size Fraction	Totl	Remarks
CRUSH/SPLIT & PULV.	48	DRILL CORE	48	-150	48	

Notes:

If you do not receive the entire transmission in legible form, please call us at (819) 825-0178.



# Inchcape Testing Services Chimitec Ltée

CLIENT: CYPRUS CANADA INC.  
REPORT: C97-60377.0 ( COMPLETE )

PROJECT: 6008  
DATE PRINTED: 5-MAR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
577284		<5
577285		<5
577286		<5
577287		<5
577288		<5
577289		<5
577290		<5
577291		<5
577292		<5
577293		<5
577294		<5
577295		<5
577296		<5
577297		<5
577298		<5
7299		<5
7300		<5
577301		<5
577302		<5
577303		<5
577304		<5
577305		<5
577306		<5
577307		<5
577308		<5
577309		<5
577310		<5
577311		<5
577312		<5
577313		<5
577314		<5
577315		<5
577316		<5
577317		<5
577318		<5
577319		<5
577320		<5
577321		<5
7322		<5
577323		<5

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
577324		<5
577325		10
577326		<5
577327		<5
577328		<5
577329		<5
577330		<5
577331		<5

SC97-02

MT97-01

MT97-01



**Inchcape Testing Services**  
**Chimitec Ltée**

d'Or, PQ, Canada

**" U R G E N T & C O N F I D E N T I A L "**

To: CYPRUS CANADA INC.  
Attention: R. BLAIR NEEDHAM  
Reference: SHIP #4  
Submitter: DAVID STEVENSON

Our Fax No: (819) 825-0256  
Your Fax No: 1-705-235-5700  
Number of Pages: 2 including this page.

Report: C97-60346.0      Status: COMPLETE      Total number of samples: 36

Element Method	Totl	Element Method	Totl	Element Method	Totl
A030 30g Fire Assay - AA	36				



Sample Preparations	Totl	Sample Type	Totl	Size Fraction	Totl	Remarks
CRUSH/SPLIT & PULV.	36	DRILL CORE	36	-150	36	

Notes:

If you do not receive the entire transmission in legible form, please call us at (819) 825-0178.





**Inchcape Testing Services**  
**Chimitec Ltée**

d'Or, PQ, Canada

**" U R G E N T & C O N F I D E N T I A L "**

To: CYPRUS CANADA INC.  
 Attention : R. BLAIR NEEDHAM  
 Reference : -  
 Submitter : BLAIR NEEDHAM

Our Fax No: (819) 825-0256  
 Your Fax No: 1-705-235-5700  
 Number of Pages : 7 including this page.

Report : C97-60302.2      Status : COMPLETE      Total number of samples: 71

Element Method	Totl	Element Method	Totl	Element Method	Totl
Ag INDUC. COUP. PLASMA	71	As INDUC. COUP. PLASMA	71	Cu INDUC. COUP. PLASMA	71
Zn INDUC. COUP. PLASMA	71	Ni INDUC. COUP. PLASMA	71	Cr INDUC. COUP. PLASMA	71
Pb INDUC. COUP. PLASMA	71	Mo INDUC. COUP. PLASMA	71	Sb INDUC. COUP. PLASMA	71
Al INDUC. COUP. PLASMA	71	Fe INDUC. COUP. PLASMA	71	Mg INDUC. COUP. PLASMA	71
Ca INDUC. COUP. PLASMA	71	Na INDUC. COUP. PLASMA	71	K INDUC. COUP. PLASMA	71
Ti INDUC. COUP. PLASMA	71	Mn INDUC. COUP. PLASMA	71	Cd INDUC. COUP. PLASMA	71
Co INDUC. COUP. PLASMA	71	Ba INDUC. COUP. PLASMA	71	Bi INDUC. COUP. PLASMA	71
Ga INDUC. COUP. PLASMA	71	La INDUC. COUP. PLASMA	71	Li INDUC. COUP. PLASMA	71
Nb INDUC. COUP. PLASMA	71	Sc INDUC. COUP. PLASMA	71	Sn INDUC. COUP. PLASMA	71
Sr INDUC. COUP. PLASMA	71	Ta INDUC. COUP. PLASMA	71	Te INDUC. COUP. PLASMA	71
V INDUC. COUP. PLASMA	71	W INDUC. COUP. PLASMA	71	Y INDUC. COUP. PLASMA	71
Zr INDUC. COUP. PLASMA	71				

Sample Preparations	Totl	Sample Type	Totl	Size Fraction	Totl	Remarks
AS RECEIVED	71	DRILL CORE	71	-150	71	

Notes:

If you do not receive the entire transmission in legible form, please call us at (819) 825-0178.



# Inchcape Testing Services

## Chimatec Ltée

CLIENT: CYPRUS CANADA INC.  
REPORT: C97-60302.2 ( COMPLETE )

PROJECT: 6008

DATE PRINTED: 8-APR-97

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT
577157		<0.2	<5	45	74	20	129	4	10	<5	3.39	5.44	2.33
577158		<0.2	<5	67	64	15	52	4	7	<5	2.88	4.93	2.14
577159		<0.2	<5	35	46	12	72	3	6	<5	2.29	3.89	1.50
577160		<0.2	<5	83	53	13	92	5	7	<5	2.31	4.03	1.53
577161		<0.2	<5	229	103	21	51	21	7	<5	3.61	6.08	2.73
577162		<0.2	6	386	105	31	103	39	12	<5	4.88	9.04	3.72
577163		<0.2	<5	66	73	17	71	4	6	<5	2.66	5.28	2.27
577164		<0.2	<5	186	64	20	181	4	12	<5	2.31	4.87	2.16
577165		<0.2	5	23	67	14	25	4	3	<5	2.94	5.38	2.43
577166		<0.2	<5	54	88	15	43	3	6	<5	3.28	6.37	2.64
577167		<0.2	<5	139	112	30	76	4	10	<5	4.97	8.14	3.67
577168		<0.2	<5	90	127	28	92	3	11	<5	4.44	7.65	3.23
577169		<0.2	<5	69	80	20	83	3	9	<5	4.55	6.76	3.06
577170		0.2	<5	141	57	18	89	5	9	<5	2.68	5.41	2.01
577171		0.5	<5	94	57	15	51	4	6	<5	2.81	5.01	2.00
172		0.4	<5	45	57	7	78	3	7	<5	2.50	4.90	1.27
577173		<0.2	<5	54	68	3	182	4	10	<5	2.20	4.63	1.08
577174		0.4	5	29	58	14	51	<2	6	<5	2.50	4.94	1.78
577175		0.2	<5	4	48	13	48	<2	5	<5	2.34	4.50	1.58
577176		0.4	<5	89	32	3	80	3	8	<5	1.75	3.64	0.82
577177		<0.2	<5	61	55	15	47	4	5	<5	2.73	4.68	2.00
577178		0.3	<5	53	46	18	26	4	5	<5	2.19	5.76	1.69
577179		<0.2	<5	57	42	2	89	10	6	<5	0.75	2.34	0.29
577180		<0.2	<5	7	28	4	134	3	8	<5	0.45	1.20	0.04
577181		0.2	<5	64	75	1	102	4	8	<5	2.07	5.06	1.01
577182		0.6	<5	163	35	12	87	5	10	<5	2.02	4.88	1.63
577183		<0.2	<5	58	46	15	25	3	5	<5	2.02	4.17	1.73
577184		0.5	<5	18	6	13	45	3	4	<5	1.51	3.24	0.99
577185		0.2	<5	41	52	14	112	3	7	<5	1.12	2.94	0.97
577186		0.3	<5	14	15	15	73	3	6	<5	1.60	3.45	1.32
577187		0.3	<5	124	15	20	60	3	4	<5	1.63	2.71	1.27
577188		0.2	<5	73	25	25	62	<2	6	<5	2.01	3.70	1.56
577189		<0.2	<5	81	54	28	77	<2	6	<5	2.95	4.55	1.96
577190		<0.2	<5	58	32	24	50	3	5	<5	2.38	4.06	1.75
577191		<0.2	<5	91	15	25	73	2	5	<5	1.66	2.99	1.73
577192		<0.2	<5	73	22	25	55	3	4	<5	1.94	3.29	1.87
577193		<0.2	<5	97	34	27	88	<2	7	<5	4.76	3.76	1.98
577194		<0.2	<5	94	55	39	90	<2	6	<5	3.80	4.48	1.59
195		<0.2	10	83	101	49	130	<2	5	<5	4.24	5.83	1.55
577196		0.3	<5	109	1060	24	236	7	13	<5	2.31	5.40	0.80



**Inchcape Testing Services**  
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CLIENT: CYPRUS CANADA INC.  
REPORT: C97-60302.2 ( COMPLETE )

PROJECT: 6008  
DATE PRINTED: 8-APR-97 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Tl PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM
577157		3.51	0.25	0.29	0.18	943	<0.2	30	94	<5	4	5	23
577158		2.32	0.16	0.16	0.14	757	<0.2	26	47	<5	<2	4	17
577159		2.47	0.18	0.09	0.13	666	<0.2	21	13	<5	2	4	9
577160		2.71	0.16	0.07	0.12	684	<0.2	24	10	<5	<2	3	13
577161		3.04	0.09	0.08	0.16	872	0.3	39	20	<5	3	4	29
577162		2.14	0.17	0.11	0.21	1140	0.4	53	35	<5	3	6	29
577163		2.47	0.15	0.21	0.14	827	<0.2	25	56	<5	4	9	13
577164		3.67	0.07	0.10	0.13	693	<0.2	24	27	7	4	9	19
577165		3.40	0.15	0.13	0.12	941	<0.2	21	19	<5	3	12	18
577166		3.50	0.12	0.07	0.11	1130	<0.2	24	7	<5	8	13	12
577167		6.60	0.26	0.43	0.20	1696	0.3	54	134	5	6	8	24
577168		4.91	0.26	0.57	0.20	1314	0.3	43	169	<5	5	9	21
577169		3.68	0.34	0.22	0.21	1208	0.3	35	60	<5	4	7	13
577170		6.36	0.16	0.44	0.15	1050	<0.2	24	146	<5	<2	4	19
577171		2.18	0.26	0.17	0.15	738	<0.2	21	41	<5	2	6	13
7172		2.75	0.34	0.44	0.17	622	<0.2	15	98	<5	4	16	15
577173		2.31	0.30	0.29	0.15	498	<0.2	14	76	<5	3	21	11
577174		2.29	0.29	0.39	0.15	695	<0.2	18	97	<5	2	7	14
577175		2.36	0.28	0.31	0.15	630	<0.2	18	84	<5	<2	5	12
577176		1.85	0.24	0.14	0.12	386	<0.2	13	30	<5	3	15	8
577177		2.07	0.24	0.11	0.15	674	<0.2	20	17	<5	2	4	21
577178		5.15	0.15	1.20	0.20	780	<0.2	21	177	<5	<2	4	29
577179		0.64	0.21	0.30	0.08	164	<0.2	8	91	<5	<2	37	7
577180		0.84	0.10	0.18	0.03	302	<0.2	2	90	<5	<2	33	3
577181		1.84	0.19	1.04	0.21	553	<0.2	12	202	<5	3	14	24
577182		1.93	0.20	0.62	0.16	535	<0.2	17	111	<5	<2	6	18
577183		2.32	0.19	0.13	0.13	531	<0.2	19	27	<5	<2	5	13
577184		2.54	0.19	0.08	0.14	345	<0.2	11	18	<5	<2	3	7
577185		4.47	0.12	0.14	0.10	564	<0.2	13	51	<5	<2	3	10
577186		2.14	0.21	0.11	0.11	419	<0.2	12	61	<5	<2	3	9
577187		2.32	0.18	0.03	0.11	405	<0.2	13	3	<5	<2	3	9
577188		1.91	0.17	0.04	0.11	447	<0.2	17	2	<5	<2	3	11
577189		2.20	0.16	0.03	0.10	551	<0.2	22	2	<5	<2	5	11
577190		2.17	0.18	0.03	0.10	574	<0.2	18	2	<5	<2	4	9
577191		2.90	0.15	0.01	0.11	723	<0.2	18	3	<5	4	6	3
577192		2.60	0.14	0.01	0.10	784	<0.2	16	3	<5	5	7	4
577193		3.67	0.44	0.05	0.14	717	0.2	22	7	<5	5	4	13
77194		4.80	0.40	0.20	0.13	911	<0.2	31	61	<5	5	4	14
7195		3.91	0.33	0.20	0.15	1793	0.4	37	28	<5	6	5	15
577196		1.12	0.12	0.45	0.02	436	3.3	23	81	<5	<2	20	13



**Inchcape Testing Services**  
Chimitec Ltée

CLIENT: CYPRUS CANADA INC.  
REPORT: C97-60302.2 ( COMPLETE )

PROJECT: 6008  
DATE PRINTED: 8-APR-97 PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
577157		<1	20	<20	12	<10	<10	161	<20	13	3
577158		<1	14	<20	9	<10	<10	120	<20	9	1
577159		<1	13	<20	11	<10	<10	109	<20	9	2
577160		<1	12	<20	10	<10	<10	104	<20	8	2
577161		<1	13	<20	11	<10	<10	135	<20	9	2
577162		<1	20	<20	14	<10	<10	192	<20	15	3
577163		<1	11	<20	<1	<10	<10	119	<20	8	<1
577164		<1	8	<20	<1	<10	<10	94	<20	6	<1
577165		<1	16	<20	<1	<10	<10	125	<20	9	1
577166		<1	15	<20	<1	<10	<10	167	<20	9	<1
577167		<1	31	<20	28	<10	<10	244	<20	19	7
577168		<1	26	<20	16	<10	<10	247	<20	17	5
577169		<1	21	<20	19	<10	<10	162	<20	14	4
577170		<1	13	<20	23	<10	<10	119	<20	8	2
577171		<1	16	<20	10	<10	<10	125	<20	11	3
7172		<1	12	<20	21	<10	<10	74	<20	18	15
577173		<1	10	<20	19	<10	<10	65	<20	20	14
577174		<1	16	<20	10	<10	<10	117	<20	11	9
577175		<1	16	<20	10	<10	<10	119	<20	10	8
577176		<1	8	<20	15	<10	<10	52	<20	14	14
577177		<1	16	<20	10	<10	<10	125	<20	11	6
577178		<1	8	<20	42	<10	<10	120	<20	6	7
577179		<1	<5	<20	11	<10	<10	17	<20	26	75
577180		<1	<5	<20	7	<10	<10	3	<20	27	63
577181		<1	7	<20	17	<10	<10	54	<20	15	13
577182		<1	13	<20	11	<10	<10	87	<20	10	5
577183		<1	12	<20	9	<10	<10	89	<20	9	4
577184		<1	11	<20	14	<10	<10	75	<20	6	3
577185		<1	8	<20	5	<10	<10	65	<20	5	3
577186		<1	11	<20	7	<10	<10	78	<20	7	3
577187		<1	10	<20	12	<10	<10	71	<20	7	3
577188		<1	10	<20	9	<10	<10	74	<20	6	2
577189		<1	15	<20	8	<10	<10	106	<20	8	1
577190		<1	13	<20	9	<10	<10	91	<20	8	3
577191		<1	9	<20	<1	<10	<10	71	<20	6	1
577192		<1	9	<20	<1	<10	<10	75	<20	6	2
577193		<1	16	<20	83	<10	<10	101	<20	8	<1
7194		<1	19	<20	58	<10	<10	129	<20	10	<1
7195		<1	22	<20	44	<10	<10	135	<20	10	<1
577196		<1	<5	<20	20	<10	<10	22	<20	7	16



**Inchcape Testing Services**  
**Chimitec Ltée**

CLIENT: CYPRUS CANADA INC.  
 REPORT: C97-60302.2 ( COMPLETE )

PROJECT: 6008  
 DATE PRINTED: 8-APR-97 PAGE 2A

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT
577197		2.3	6	353	9700	102	207	43	20	<5	1.72	>10.00	0.82
577198		0.3	<5	80	633	12	179	11	10	<5	1.98	3.30	0.51
577199		1.3	5	442	4176	40	257	16	17	<5	2.86	9.50	1.14
577200		<0.2	<5	166	2446	22	200	18	12	<5	1.96	4.89	0.65
577201		<0.2	<5	176	3829	20	310	15	14	<5	3.32	6.16	1.07
577202		<0.2	8	111	2152	22	174	15	14	<5	6.26	8.43	2.34
577203		0.8	7	1953	1162	31	113	11	10	<5	4.34	7.67	2.72
577204		<0.2	5	147	3530	28	217	10	14	<5	3.70	6.12	1.27
577205		<0.2	5	146	1395	39	148	11	13	<5	3.89	6.14	1.64
577206		0.5	<5	127	3318	24	87	7	8	<5	3.48	6.53	1.79
577207		<0.2	<5	33	103	18	271	4	13	<5	2.11	3.13	1.19
577208		0.2	<5	44	98	30	80	3	7	<5	2.84	4.43	1.67
577209		<0.2	<5	8	62	13	222	3	9	<5	1.29	2.42	1.00
577210		<0.2	<5	10	58	13	129	2	9	<5	1.54	2.52	0.80
577211		0.4	<5	10	52	12	215	3	11	<5	1.58	2.49	0.77
212		0.3	<5	61	88	22	61	4	7	<5	2.77	5.27	1.56
577213		<0.2	<5	48	73	20	135	3	9	<5	2.47	4.23	1.35
577214		<0.2	<5	21	64	14	122	3	10	<5	1.77	2.77	0.95
577215		<0.2	<5	84	79	58	190	4	7	<5	2.40	4.40	1.34
577216		0.3	<5	75	44	84	277	3	7	<5	3.61	3.62	1.72
577217		<0.2	<5	94	79	102	345	4	10	<5	4.44	5.85	2.77
577218		<0.2	<5	10	19	39	373	4	20	<5	1.04	1.83	0.68
577219		<0.2	8	67	65	90	363	4	12	<5	3.64	5.53	2.52
577220		<0.2	<5	99	53	87	227	3	6	<5	3.85	4.64	2.53
577221		<0.2	<5	143	51	84	232	9	6	<5	3.15	5.43	1.95
577222		0.3	<5	24	47	18	137	4	11	<5	2.27	3.28	1.06
577223		0.2	<5	17	51	6	232	3	14	<5	1.25	1.92	0.30
577224		<0.2	<5	6	70	9	231	9	15	<5	1.17	1.87	0.23
577225		<0.2	<5	6	45	4	239	7	12	<5	1.16	1.69	0.22
577226		<0.2	<5	9	44	8	205	9	16	<5	1.24	1.91	0.23
577227		0.5	<5	19	47	13	180	5	11	<5	2.01	2.68	0.74



**Inchcape Testing Services**  
**Chimitec Ltée**

CLIENT: CYPRUS CANADA INC.  
 REPORT: C97-60302.2 ( COMPLETE )

PROJECT: 6008  
 DATE PRINTED: 8-APR-97 PAGE 2B

SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Tl PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM
577197		1.78	0.03	0.23	0.07	475	27.2	121	10	8	4	10	12
577198		1.67	0.15	0.34	0.03	421	1.0	11	50	<5	3	11	9
577199		2.79	0.17	0.47	0.07	572	8.0	58	35	<5	4	10	15
577200		1.89	0.10	0.33	0.03	437	4.1	29	37	<5	2	7	10
577201		4.43	0.15	0.62	0.04	1037	7.0	25	75	<5	4	10	14
577202		5.00	0.27	1.47	0.11	1312	4.2	22	110	<5	10	11	24
577203		3.14	0.14	1.09	0.13	1128	2.1	27	120	<5	3	14	24
577204		3.28	0.17	0.86	0.07	927	6.8	20	95	<5	4	17	15
577205		3.43	0.18	1.17	0.11	1291	3.7	35	84	<5	4	7	20
577206		3.91	0.15	0.78	0.11	1265	10.2	24	115	6	2	2	23
577207		1.13	0.15	1.28	0.17	833	<0.2	9	293	<5	4	19	29
577208		1.76	0.14	1.65	0.23	715	<0.2	23	383	<5	4	15	45
577209		0.32	0.08	0.75	0.08	351	<0.2	7	193	<5	5	20	15
577210		1.02	0.14	0.89	0.10	580	<0.2	11	283	<5	4	18	28
577211		2.69	0.21	0.71	0.14	971	<0.2	8	274	<5	3	18	23
212		2.14	0.25	0.80	0.22	685	<0.2	25	282	<5	3	16	32
577213		2.05	0.29	0.57	0.19	704	<0.2	22	178	<5	4	18	25
577214		1.92	0.28	0.82	0.21	608	<0.2	9	301	<5	4	23	25
577215		1.82	0.29	0.22	0.14	1155	<0.2	28	56	<5	2	8	14
577216		2.24	0.32	0.50	0.15	1057	<0.2	32	156	<5	3	2	21
577217		3.24	0.14	0.93	0.23	1842	0.3	35	198	<5	<2	2	25
577218		0.40	0.05	0.13	0.09	391	<0.2	9	36	<5	<2	6	8
577219		3.37	0.04	0.16	0.20	1488	0.3	32	37	<5	<2	5	21
577220		3.62	0.19	0.11	0.20	1396	0.3	32	22	<5	<2	2	17
577221		5.52	0.16	0.30	0.14	1347	0.3	28	68	<5	<2	<1	17
577222		2.15	0.18	0.90	0.17	578	<0.2	12	234	<5	4	19	18
577223		0.79	0.17	0.62	0.11	390	0.3	3	155	<5	3	33	10
577224		0.97	0.15	0.64	0.10	430	0.5	2	132	<5	3	35	10
577225		1.02	0.14	0.59	0.09	405	<0.2	2	133	<5	3	35	9
577226		1.18	0.13	0.69	0.10	406	<0.2	2	133	<5	3	35	10
577227		1.18	0.15	1.08	0.17	521	<0.2	7	337	<5	4	29	21



**Inchcape Testing Services**  
Chimitec Ltée

CLIENT: CYPRUS CANADA INC.  
REPORT: C97-60302.2 ( COMPLETE )

PROJECT: 6008  
DATE PRINTED: 8-APR-97 PAGE 2C

SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Tb PPM	V PPM	W PPM	Y PPM	Zr PPM
577197		<1	<5	21	4	24	<10	29	44	7	7
577198		<1	<5	<20	28	<10	<10	14	<20	5	6
577199		<1	<5	<20	35	<10	<10	20	<20	6	7
577200		<1	<5	<20	24	<10	<10	15	<20	4	7
577201		<1	<5	<20	53	<10	<10	24	<20	7	8
577202		<1	12	<20	74	<10	<10	82	<20	12	7
577203		<1	11	<20	34	<10	<10	98	<20	10	8
577204		<1	<5	<20	33	<10	<10	39	<20	10	13
577205		<1	9	<20	43	<10	<10	80	<20	6	3
577206		<1	11	<20	38	<10	<10	130	<20	4	<1
577207		<1	6	<20	10	<10	<10	37	<20	9	30
577208		<1	5	<20	15	<10	<10	109	<20	11	11
577209		<1	<5	<20	<1	<10	<10	31	<20	8	22
577210		<1	<5	<20	11	<10	<10	28	<20	9	28
577211		<1	<5	<20	21	<10	<10	29	<20	10	52
212		<1	9	<20	31	<10	<10	110	<20	12	14
577213		<1	9	<20	33	<10	<10	92	<20	13	10
577214		<1	6	<20	40	<10	<10	51	<20	13	57
577215		<1	14	<20	18	<10	<10	104	<20	10	2
577216		<1	14	<20	29	<10	<10	109	<20	6	<1
577217		<1	13	<20	34	<10	<10	118	<20	6	<1
577218		<1	<5	<20	11	<10	<10	33	<20	6	11
577219		<1	7	<20	22	<10	<10	92	<20	5	5
577220		<1	11	<20	30	<10	<10	106	<20	5	<1
577221		<1	13	<20	19	<10	<10	103	<20	4	<1
577222		<1	7	<20	18	<10	<10	73	<20	13	28
577223		<1	<5	<20	12	<10	<10	10	<20	18	81
577224		<1	<5	<20	15	<10	<10	7	<20	20	81
577225		<1	<5	<20	16	<10	<10	7	<20	19	84
577226		<1	<5	<20	15	<10	<10	6	<20	19	77
577227		<1	<5	<20	16	<10	<10	34	<20	17	65



# Inchcape Testing Services Chimitec Ltée

d'Or, PQ, Canada

**" U R G E N T & C O N F I D E N T I A L "**

To: CYPRUS CANADA INC.  
Attention: R. BLAIR NEEDHAM  
Reference: SHIP #4  
Submitter: DAVID STEVENSON

Our Fax No: (819) 825-0256  
Your Fax No: 1-705-235-5700  
Number of Pages: 2 including this page.

Report: C97-60346.0      Status: COMPLETE      Total number of samples: 36

Element Method	Totl	Element Method	Totl	Element Method	Totl
AU30 30g Fire Assay - AA	36				

Sample Preparations	Totl	Sample Type	Totl	Size Fraction	Totl	Remarks
CRUSH/SPLIT & PULV.	36	DRILL CORE	36	-150	36	

Notes:

If you do not receive the entire transmission in legible form, please call us at (819) 825-0178.



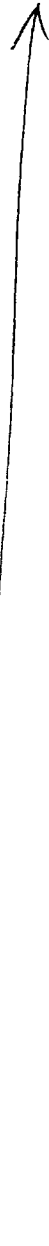


# Inchape Testing Services Chipitec Ltée

CLIENT: CYPRUS CANADA INC.  
REPORT: C97-60346.0 ( COMPLETE )

PROJECT: 6008  
DATE PRINTED: 28-FEB-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
577248		<5
577249		7
577250		<5
577251		<5
577252		<5
577253		<5
577254		15
577255		<5
577256		<5
577257		7
577258		8
577259		5
577260		7
577261		<5
577262		<5
7263		<5
577264		<5
577265		<5
577266		<5
577267		<5
577268		27
577269		<5
577270		<5
577271		6
577272		<5
577273		6
577274		<5
577275		<5
577276		<5
577277		<5
577278		5
577279		<5
577280		<5
577281		<5
577282		<5
577283		<5



*5797-02*



**Inchcape Testing Services  
Chimitec Ltée**

St. d'Or, PQ, Canada

**" U R G E N T & C O N F I D E N T I A L "**

To: CYPRUS CANADA INC.  
 Attention : R. BLAIR NEEDHAM  
 Reference : SHIP #4  
 Submitter : DAVID STEVENSON

Our Fax No: (819) 825-0256  
 Your Fax No: 1-705-235-5700  
 Number of Pages : 6 including this page.

Report : C97-60346.1      Status : COMPLETE      Total number of samples: 36

Element Method	Totl	Element Method	Totl	Element Method	Totl
Ag INDUC. COUP. PLASMA	36	As INDUC. COUP. PLASMA	36	Cu INDUC. COUP. PLASMA	36
Zn INDUC. COUP. PLASMA	36	Ni INDUC. COUP. PLASMA	36	Cr INDUC. COUP. PLASMA	36
Pb INDUC. COUP. PLASMA	36	Mo INDUC. COUP. PLASMA	36	Sb INDUC. COUP. PLASMA	36
Al INDUC. COUP. PLASMA	36	Fe INDUC. COUP. PLASMA	36	Mg INDUC. COUP. PLASMA	36
Ca INDUC. COUP. PLASMA	36	Na INDUC. COUP. PLASMA	36	K INDUC. COUP. PLASMA	36
Ti INDUC. COUP. PLASMA	36	Mn INDUC. COUP. PLASMA	36	Cd INDUC. COUP. PLASMA	36
Co INDUC. COUP. PLASMA	36	Ba INDUC. COUP. PLASMA	36	Bi INDUC. COUP. PLASMA	36
Ga INDUC. COUP. PLASMA	36	La INDUC. COUP. PLASMA	36	Li INDUC. COUP. PLASMA	36
Nb INDUC. COUP. PLASMA	36	Sc INDUC. COUP. PLASMA	36	Sn INDUC. COUP. PLASMA	36
Sr INDUC. COUP. PLASMA	36	Ta INDUC. COUP. PLASMA	36	Te INDUC. COUP. PLASMA	36
V INDUC. COUP. PLASMA	36	W INDUC. COUP. PLASMA	36	Y INDUC. COUP. PLASMA	36
Zr INDUC. COUP. PLASMA	36	SiO2 INDUC. COUP. PLASMA	3	TiO2 INDUC. COUP. PLASMA	3
Al2O3 INDUC. COUP. PLASMA	3	Fe2O3* INDUC. COUP. PLASMA	3	MnO INDUC. COUP. PLASMA	3
MgO INDUC. COUP. PLASMA	3	CaO INDUC. COUP. PLASMA	3	Na2O INDUC. COUP. PLASMA	3
K2O INDUC. COUP. PLASMA	3	P2O5 INDUC. COUP. PLASMA	3	LOI GRAVIMETRIC	3
Total	36	Ba INDUC. COUP. PLASMA	3	Cr INDUC. COUP. PLASMA	3
Sr INDUC. COUP. PLASMA	3				

Sample Preparations	Totl	Sample Type	Totl	Size Fraction	Totl	Remarks
AS RECEIVED	36	DRILL CORE	36	-150	36	

Notes:

If you do not receive the entire transmission in legible form, please call us at (819) 825-0178.



**Inchcape Testing Services**  
Chimitec Ltée

CLIENT: CYPRUS CANADA INC.  
REPORT: C97-60346.1 ( COMPLETE )

PROJECT: 6008  
DATE PRINTED: 6-MAR-97 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Sn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	P PC
577248		<0.2	7	122	40	60	122	7	5	<5	2.90	3.20	1.6
577249		<0.2	<5	110	45	55	103	7	3	<5	3.02	3.18	1.7
577250		<0.2	<5	117	39	56	122	5	5	<5	2.82	3.16	1.5
577251		<0.2	<5	160	45	66	146	6	4	<5	3.21	3.81	1.9
577252		<0.2	<5	124	34	53	98	9	3	<5	3.51	3.18	1.7
577253		<0.2	<5	148	75	61	144	18	4	<5	2.77	3.43	1.5
577254		<0.2	<5	127	32	58	86	5	3	<5	2.65	2.90	1.3
577255		<0.2	7	118	73	71	97	9	3	<5	1.71	2.90	1.4
577256		<0.2	<5	130	35	60	68	3	2	<5	1.76	2.99	1.57
577257		<0.2	8	118	43	53	86	3	2	<5	2.01	3.04	1.64
577258		<0.2	<5	156	99	59	114	26	5	<5	2.98	3.20	1.66
577259		<0.2	<5	118	42	41	76	7	2	<5	2.52	2.86	1.63
577260		<0.2	9	138	74	61	110	20	3	<5	2.99	3.69	1.83
577261		<0.2	<5	95	218	79	137	48	3	<5	3.76	4.56	2.21
577262		<0.2	6	79	43	59	227	9	10	<5	2.56	3.31	1.82
577263		<0.2	6	84	77	86	149	13	3	<5	4.26	5.19	2.59
577264		<0.2	<5	126	33	49	106	7	4	<5	2.47	2.69	1.49
577265		<0.2	<5	131	35	54	103	9	3	<5	2.99	3.27	1.68
577266		<0.2	9	111	55	61	126	17	5	<5	3.35	3.54	1.78
577267		<0.2	7	123	125	77	168	60	6	<5	2.44	4.93	1.67
577268		<0.2	<5	133	167	85	207	58	8	<5	1.86	5.76	1.64
577269		<0.2	<5	39	72	32	176	13	10	<5	2.04	3.37	1.68
577270		2.1	<5	90	43	43	587	63	24	<5	0.95	2.77	1.05
577271		<0.2	7	90	149	75	125	75	4	<5	2.97	4.10	2.11
577272		<0.2	<5	86	50	62	135	7	4	<5	3.09	3.51	1.92
577273		<0.2	12	116	90	90	188	19	7	<5	3.01	5.28	2.06
577274		<0.2	<5	34	99	40	113	16	4	<5	1.59	2.80	1.41
577275		<0.2	5	31	78	38	115	10	5	<5	1.56	2.85	1.40
577276		<0.2	<5	41	70	39	82	9	4	<5	2.11	3.91	1.83
577277		<0.2	<5	70	77	42	167	7	3	<5	2.19	4.18	1.82
577278		<0.2	<5	110	58	44	135	5	3	<5	2.93	4.72	1.79
577279		<0.2	<5	136	96	40	120	18	4	<5	2.57	4.24	1.69
577280		<0.2	<5	107	70	44	78	10	4	<5	2.29	4.08	1.76
577281		<0.2	<5	120	82	39	88	10	2	<5	2.47	4.64	1.83
577282		<0.2	<5	87	59	29	124	4	5	<5	2.34	3.78	1.54
577283		<0.2	<5	130	59	42	215	7	19	<5	2.65	4.68	1.75



**Inchcape Testing Services**  
Chimitec Ltée

CLIENT: CYPRUS CANADA INC.  
REPORT: C97-60346.1 ( COMPLETE )

PROJECT: 6008  
DATE PRINTED: 6-MAR-97 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Pr PPM
577248		2.96	0.35	0.04	0.14	635	<0.2	21	9	<5	6	5	
577249		3.21	0.35	0.04	0.14	642	<0.2	20	7	<5	5	5	
577250		3.74	0.33	0.04	0.13	711	<0.2	21	6	<5	5	5	
577251		3.09	0.33	0.04	0.13	704	<0.2	25	6	<5	6	7	1
577252		3.13	0.41	0.04	0.13	558	<0.2	20	7	<5	6	5	
577253		4.41	0.26	0.03	0.15	782	<0.2	23	4	<5	5	7	10
577254		3.96	0.32	0.04	0.17	664	<0.2	21	5	<5	5	5	
577255		2.45	0.26	0.04	0.10	617	<0.2	23	4	<5	4	4	
577256		1.64	0.25	0.03	0.09	555	<0.2	23	4	<5	5	4	
577257		2.49	0.28	0.03	0.11	602	<0.2	21	4	<5	4	5	
577258		3.52	0.35	0.04	0.15	638	<0.2	22	6	<5	7	6	7
577259		2.72	0.33	0.04	0.11	532	<0.2	17	6	<5	4	5	5
577260		4.65	0.33	0.04	0.13	768	<0.2	23	7	<5	5	6	8
577261		4.39	0.34	0.04	0.13	833	0.5	29	7	<5	6	9	19
577262		4.86	0.20	0.02	0.09	844	<0.2	22	5	<5	6	5	10
7263		4.67	0.25	0.02	0.13	976	<0.2	32	6	<5	9	10	20
577264		2.70	0.32	0.04	0.11	496	<0.2	19	5	<5	4	4	5
577265		3.40	0.35	0.04	0.14	631	<0.2	21	5	<5	6	5	5
577266		3.39	0.37	0.04	0.13	658	<0.2	23	6	<5	7	7	9
577267		2.39	0.21	0.05	0.15	677	0.3	30	7	<5	5	7	9
577268		3.38	0.15	0.28	0.20	904	1.3	30	32	<5	4	10	15
577269		0.53	0.23	0.86	0.18	447	<0.2	14	143	<5	7	29	16
577270		4.08	0.06	0.07	0.06	736	<0.2	15	17	<5	2	5	8
577271		2.84	0.30	0.08	0.15	693	0.4	27	15	<5	7	7	12
577272		3.15	0.35	0.10	0.17	690	<0.2	23	20	<5	5	6	9
577273		2.74	0.22	0.61	0.19	903	<0.2	33	152	<5	9	15	25
577274		1.92	0.29	0.27	0.12	484	<0.2	16	53	<5	7	32	11
577275		2.39	0.26	0.30	0.13	484	<0.2	16	53	<5	7	34	12
577276		2.41	0.30	0.51	0.18	527	<0.2	21	113	<5	7	17	19
577277		3.20	0.24	0.17	0.17	697	<0.2	26	39	<5	7	12	19
577278		3.52	0.30	0.10	0.21	827	<0.2	26	7	<5	5	10	10
577279		3.41	0.27	0.06	0.22	761	<0.2	24	4	<5	5	8	8
577280		2.55	0.28	0.06	0.15	666	<0.2	23	4	<5	5	7	9
577281		2.75	0.31	0.08	0.15	752	<0.2	24	5	<5	5	9	7
577282		2.98	0.24	0.09	0.16	706	<0.2	18	11	<5	5	7	12
577283		3.03	0.28	0.10	0.17	789	<0.2	23	47	<5	6	8	7



**Inchcape Testing Services**  
Chimitec Ltée

CLIENT: CYPRUS CANADA INC.  
REPORT: C97-60346.1 ( COMPLETE )

PROJECT: 6008  
DATE PRINTED: 6-MAR-97 PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Tb PPM	V PPM	W PPM	Y PPM	Zr PPM	SiO2 PCT	Ti P
577248		<1	9	<20	27	<10	<10	80	<20	4	<1		
577249		<1	9	<20	29	<10	<10	78	<20	4	<1		
577250		<1	9	<20	29	<10	<10	77	<20	3	<1		
577251		<1	10	<20	28	<10	<10	88	<20	4	<1		
577252		1	9	<20	43	<10	<10	76	<20	4	<1		
577253		<1	9	<20	28	<10	<10	80	<20	4	<1		
577254		<1	9	<20	31	<10	<10	77	<20	4	<1		
577255		<1	10	<20	11	<10	<10	74	<20	4	<1		
577256		<1	9	<20	8	<10	<10	71	<20	4	<1		
577257		<1	10	<20	13	<10	<10	76	<20	4	<1		
577258		<1	9	<20	32	<10	<10	79	<20	4	<1		
577259		<1	8	<20	27	<10	<10	70	<20	4	<1		
577260		<1	10	<20	30	<10	<10	87	<20	4	<1		
577261		<1	12	<20	34	<10	<10	107	<20	4	<1		
577262		<1	7	<20	28	<10	<10	66	<20	3	<1		
577263		1	9	<20	30	<10	<10	96	<20	4	<1		
577264		<1	8	<20	27	<10	<10	65	<20	3	<1		
577265		<1	10	<20	32	<10	<10	81	<20	4	<1		
577266		<1	10	<20	34	<10	<10	84	<20	4	<1		
577267		<1	9	<20	18	<10	<10	73	<20	4	<1		
577268		1	9	<20	9	<10	<10	95	<20	6	1		
577269		<1	8	<20	10	<10	<10	53	<20	11	25	64.85	0.50
577270		<1	<5	<20	14	<10	<10	47	<20	2	1		
577271		1	11	<20	23	<10	<10	93	<20	4	<1		
577272		<1	11	<20	37	<10	<10	90	<20	4	<1		
577273		<1	13	<20	17	<10	<10	138	<20	6	4		
577274		<1	6	<20	25	<10	<10	59	<20	6	12		
577275		<1	6	<20	30	<10	<10	61	<20	6	11	59.67	0.78
577276		1	7	<20	35	<10	<10	85	<20	6	6		
577277		<1	11	<20	29	<10	<10	111	<20	6	3		
577278		1	15	<20	27	<10	<10	132	<20	7	<1		
577279		<1	13	<20	17	<10	<10	118	<20	6	<1		
577280		<1	12	<20	14	<10	<10	108	<20	7	<1		
577281		1	15	<20	12	<10	<10	130	<20	8	<1	51.16	1.12
577282		<1	12	<20	19	<10	<10	106	<20	6	1		
577283		1	15	<20	12	<10	<10	127	<20	7	<1		





**Inchcape Testing Services**  
**Chimitec Ltée**

CLIENT: CYPRUS CANADA INC.  
REPORT: C97-60346.1 ( COMPLETE )

PROJECT: 6008  
DATE PRINTED: 6-MAR-97 PAGE 1E

SAMPLE NUMBER	ELEMENT UNITS	8r PPM
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577248  
577249  
577250  
577251  
577252

577253  
577254  
577255  
577256  
577257

577258  
577259  
577260  
577261  
577262

577263  
577264  
577265  
577266  
577267

577268  
577269           75  
577270  
577271  
577272

577273  
577274  
577275           219  
577276  
577277

577278  
577279  
577280  
577281           128  
577282

577283



**Inchcape Testing Services**  
**Chimitec Ltée**

d'Or, PQ, Canada

**" U R G E N T & C O N F I D E N T I A L "**

To: CYPRUS CANADA INC.  
 Attention : R. BLAIR NEEDHAM  
 Reference : SHIP-03  
 Submitter : BLAIR NEEDHAM

Our Fax No: (819) 825-0256  
 Your Fax No: 1-705-235-5700  
 Number of Pages : 4 including this page.

Report : C97-60316.1      Status : COMPLETE      Total number of samples: 20

Element Method	Totl	Element Method	Totl	Element Method	Totl
Ag INDUC. COUP. PLASMA	20	As INDUC. COUP. PLASMA	20	Cu INDUC. COUP. PLASMA	20
Sn INDUC. COUP. PLASMA	20	Ni INDUC. COUP. PLASMA	20	Cr INDUC. COUP. PLASMA	20
Pb INDUC. COUP. PLASMA	20	Mo INDUC. COUP. PLASMA	20	Sb INDUC. COUP. PLASMA	20
Al INDUC. COUP. PLASMA	20	Fe INDUC. COUP. PLASMA	20	Mg INDUC. COUP. PLASMA	20
Ca INDUC. COUP. PLASMA	20	Na INDUC. COUP. PLASMA	20	K INDUC. COUP. PLASMA	20
Ti INDUC. COUP. PLASMA	20	Mn INDUC. COUP. PLASMA	20	Cd INDUC. COUP. PLASMA	20
Co INDUC. COUP. PLASMA	20	Ba INDUC. COUP. PLASMA	20	Bi INDUC. COUP. PLASMA	20
Ga INDUC. COUP. PLASMA	20	La INDUC. COUP. PLASMA	20	Li INDUC. COUP. PLASMA	20
Nb INDUC. COUP. PLASMA	20	Sc INDUC. COUP. PLASMA	20	Sn INDUC. COUP. PLASMA	20
Sr INDUC. COUP. PLASMA	20	Ta INDUC. COUP. PLASMA	20	Te INDUC. COUP. PLASMA	20
V INDUC. COUP. PLASMA	20	W INDUC. COUP. PLASMA	20	Y INDUC. COUP. PLASMA	20
Zr INDUC. COUP. PLASMA	20				

Sample Preparations	Totl	Sample Type	Totl	Size Fraction	Totl	Remarks
AS RECEIVED	20	DRILL CORE	20	-150	20	

Notes:

If you do not receive the entire transmission in legible form, please call us at (819) 825-0178.





**Inchcape Testing Services**  
**Chimatec Ltée**

CLIENT: CYPRUS CANADA INC.  
 REPORT: C97-60316.1 ( COMPLETE )

PROJECT: 6008  
 DATE PRINTED: 10-MAR-97 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT
577228		<0.2	<5	123	63	76	255	7	6	<5	2.95	4.39	1.78
577229		<0.2	<5	63	52	9	122	5	13	<5	1.76	3.14	1.05
577230		<0.2	<5	84	41	58	210	5	6	<5	2.80	3.81	1.56
577231		<0.2	<5	204	38	52	176	3	5	<5	2.85	4.36	1.46
577232		<0.2	<5	115	37	60	193	6	5	<5	3.06	3.22	1.46
577233		<0.2	<5	171	33	46	145	4	4	<5	2.49	3.21	1.34
577234		<0.2	<5	47	28	45	171	3	3	<5	1.83	2.62	1.31
577235		<0.2	<5	28	26	24	133	3	6	<5	1.56	2.46	1.28
577236		<0.2	<5	130	50	61	188	3	5	<5	2.41	4.22	1.76
577237		<0.2	<5	60	34	56	151	6	3	<5	2.59	2.54	1.39
577238		<0.2	<5	62	42	49	182	5	5	<5	2.40	3.43	1.56
577239		<0.2	<5	88	39	56	187	6	4	<5	2.83	3.53	1.53
577240		<0.2	<5	118	33	67	186	5	4	<5	2.50	2.63	1.38
577241		<0.2	<5	240	15	33	104	5	4	<5	1.73	1.42	0.88
577242		<0.2	<5	52	50	68	230	8	4	<5	3.83	3.96	2.05
577243		<0.2	<5	99	37	52	149	3	4	<5	2.61	4.64	1.38
577244		<0.2	<5	18	53	7	192	4	13	<5	0.83	1.41	0.12
577245		<0.2	<5	4	49	10	201	3	12	<5	0.97	1.33	0.15
577246		<0.2	<5	132	56	58	161	5	5	<5	2.95	5.15	1.49
577247		<0.2	<5	171	81	58	174	6	4	<5	2.95	4.31	1.54



**Inchcape Testing Services**  
**Chimitec Ltée**

CLIENT: CYPRUS CANADA INC.  
 REPORT: C97-60316.1 ( COMPLETE )

PROJECT: 6008  
 DATE PRINTED: 10-MAR-97 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM
577228		4.69	0.19	1.38	0.19	1323	0.4	28	202	8	16	5	32
577229		1.38	0.22	0.88	0.15	470	<0.2	12	159	7	10	21	17
577230		4.28	0.24	0.09	0.11	1201	<0.2	21	13	7	14	3	11
577231		5.23	0.24	0.09	0.09	1376	<0.2	21	22	6	12	3	10
577232		4.94	0.31	0.10	0.12	970	0.5	22	19	<5	11	2	12
577233		6.19	0.23	0.05	0.07	1240	<0.2	19	4	<5	12	3	7
577234		3.75	0.25	0.06	0.10	901	<0.2	16	6	<5	10	2	5
577235		1.16	0.19	0.59	0.12	416	<0.2	13	135	<5	8	23	17
577236		3.40	0.18	0.08	0.10	972	<0.2	22	19	6	12	3	14
577237		5.78	0.23	0.04	0.10	742	<0.2	18	6	<5	10	2	17
577238		3.41	0.24	0.16	0.11	920	<0.2	20	62	<5	12	6	10
577239		5.04	0.26	0.06	0.09	1225	<0.2	20	10	<5	14	3	11
577240		5.13	0.30	0.05	0.10	979	<0.2	22	22	<5	11	2	9
577241		5.67	0.17	0.02	0.10	613	<0.2	10	4	<5	7	2	7
577242		5.26	0.31	0.04	0.10	956	<0.2	25	7	<5	13	3	13
577243		7.32	0.18	0.84	0.12	3107	<0.2	19	206	6	24	5	15
577244		0.88	0.14	0.38	0.06	498	<0.2	1	121	<5	8	29	9
577245		0.96	0.15	0.41	0.05	459	0.3	2	84	<5	8	31	8
577246		5.88	0.20	0.69	0.12	2298	<0.2	21	158	10	23	5	16
577247		5.16	0.28	0.09	0.10	1494	0.5	23	8	9	15	4	12



**Inchcape Testing Services**  
**Chimitec Ltée**

CLIENT: CYPRUS CANADA INC.  
 REPORT: C97-60316.1 ( COMPLETE )

PROJECT: 6008  
 DATE PRINTED: 10-MAR-97 PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Ta PPM	V PPM	W PPM	Y PPM	Zr PPM
577228		<1	13	<20	20	<10	<10	103	<20	5	1
577229		<1	7	<20	18	<10	<10	67	<20	13	29
577230		<1	12	<20	24	<10	<10	80	<20	4	<1
577231		<1	11	<20	26	<10	<10	72	<20	4	<1
577232		<1	11	<20	36	<10	<10	76	<20	4	<1
577233		<1	9	<20	32	<10	<10	56	<20	4	<1
577234		<1	11	<20	14	<10	<10	72	<20	4	<1
577235		<1	6	<20	15	<10	<10	65	<20	11	19
577236		<1	11	<20	10	<10	<10	82	<20	4	<1
577237		<1	8	<20	30	<10	<10	66	<20	4	<1
577238		<1	12	<20	15	<10	<10	80	<20	6	2
577239		<1	12	<20	21	<10	<10	76	<20	4	<1
577240		<1	11	<20	26	<10	<10	72	<20	4	<1
577241		<1	<5	<20	31	<10	<10	39	<20	3	<1
577242		<1	11	<20	46	<10	<10	84	<20	4	<1
7243		<1	10	<20	24	<10	<10	70	<20	4	<1
7244		<1	<5	<20	7	<10	<10	5	<20	20	58
577245		<1	<5	<20	8	<10	<10	5	<20	20	59
577246		<1	11	<20	24	<10	<10	75	<20	5	<1
577247		1	12	<20	24	<10	<10	80	<20	5	<1



**Inchcape Testing Services**  
**Chimitec Ltée**

d'Or, PQ, Canada

**" U R G E N T & C O N F I D E N T I A L "**

To: CYPRUS CANADA INC.  
 Attention : R. BLAIR NEEDHAM  
 Reference : SHIP #6  
 Submitter : BLAIR NEEDHAM

Our Fax No: (819) 825-0256  
 Your Fax No: 1-705-235-5700  
 Number of Pages : 7 including this page.

Report : C97-60377.1      Status : PARTIAL      Total number of samples: 48

Element Method	Totl	Element Method	Totl	Element Method	Totl
Ag INDOC. COUP. PLASMA	48	As INDOC. COUP. PLASMA	48	Cu INDOC. COUP. PLASMA	48
Zn INDOC. COUP. PLASMA	48	Ni INDOC. COUP. PLASMA	48	Cr INDOC. COUP. PLASMA	48
Pb INDOC. COUP. PLASMA	48	Mo INDOC. COUP. PLASMA	48	Sb INDOC. COUP. PLASMA	48
Al INDOC. COUP. PLASMA	48	Fe INDOC. COUP. PLASMA	48	Mg INDOC. COUP. PLASMA	48
Ca INDOC. COUP. PLASMA	48	Na INDOC. COUP. PLASMA	48	K INDOC. COUP. PLASMA	48
Tl INDOC. COUP. PLASMA	48	Mn INDOC. COUP. PLASMA	48	Cd INDOC. COUP. PLASMA	48
Co INDOC. COUP. PLASMA	48	Ba INDOC. COUP. PLASMA	48	Bi INDOC. COUP. PLASMA	48
Ga INDOC. COUP. PLASMA	48	La INDOC. COUP. PLASMA	48	Li INDOC. COUP. PLASMA	48
Nb INDOC. COUP. PLASMA	48	Sc INDOC. COUP. PLASMA	48	Sn INDOC. COUP. PLASMA	48
Sr INDOC. COUP. PLASMA	48	Ta INDOC. COUP. PLASMA	48	Te INDOC. COUP. PLASMA	48
V INDOC. COUP. PLASMA	48	W INDOC. COUP. PLASMA	48	Y INDOC. COUP. PLASMA	48
Zr INDOC. COUP. PLASMA	48				

Results to follow for: Al2O3 Ba CaO Cr Fe2O3\* K2O LOI MgO MnO Na2O P2O5 SiO2 Sr TiO2 Total LOI 1 LOI 2 ...

Sample Preparations	Totl	Sample Type	Totl	Size Fraction	Totl	Remarks
CRUSH/SPLIT & PULV.	48	DRILL CORE	48	-150	48	

Notes:

If you do not receive the entire transmission in legible form, please call us at (819) 825-0178.



**Inchcape Testing Services**  
Chimitec Ltée

CLIENT: CYPRUS CANADA INC.  
REPORT: C97-60377.1 ( PARTIAL )

PROJECT: 6008  
DATE PRINTED: 10-MAR-97 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	
577284		<0.2	<5	127	84	43	112	20	5	<5	2.48	4.28	1.7
577285		<0.2	<5	164	136	51	123	39	4	<5	2.91	5.42	1.9
577286		<0.2	<5	119	42	37	125	<2	6	<5	2.12	3.80	1.4
577287		<0.2	<5	92	57	38	148	2	5	<5	2.36	4.05	1.6
577288		<0.2	<5	49	43	127	460	<2	2	<5	2.29	3.43	2.2
577289		<0.2	<5	98	50	36	106	8	4	<5	2.10	3.59	1.5
577290		<0.2	<5	124	84	33	77	36	4	<5	1.83	3.51	1.3
577291		<0.2	<5	96	58	45	125	<2	3	<5	2.13	3.98	1.5
577292		<0.2	<5	90	49	39	140	<2	6	<5	2.17	3.90	1.6
577293		<0.2	<5	68	53	31	134	6	7	<5	1.72	3.07	1.5
577294		<0.2	<5	148	72	38	111	16	5	<5	2.08	3.82	1.5
577295		<0.2	<5	69	43	37	115	<2	5	<5	2.20	3.57	1.5
577296		<0.2	<5	85	56	36	101	3	4	<5	2.24	3.87	1.7
577297		<0.2	<5	96	49	41	125	2	5	<5	2.48	3.79	1.4
577298		<0.2	<5	144	56	43	103	<2	4	<5	2.89	4.85	1.6
7299		<0.2	<5	74	43	32	103	<2	5	<5	2.29	3.68	1.5
577300		<0.2	<5	85	57	36	108	6	4	<5	2.52	4.02	1.6
577301		<0.2	<5	135	85	41	110	6	4	<5	2.48	4.29	1.6
577302		<0.2	<5	37	45	16	108	<2	8	<5	1.71	2.82	1.3
577303		<0.2	<5	116	46	36	127	3	4	<5	2.32	3.85	1.5
577304		<0.2	<5	84	81	70	161	13	6	<5	2.47	3.98	1.8
577305		<0.2	<5	191	51	88	174	3	5	<5	2.41	4.37	1.7
577306		<0.2	<5	111	224	79	140	61	6	<5	2.03	3.69	1.6
577307		<0.2	<5	126	68	87	160	2	4	<5	2.69	4.45	2.1
577308		<0.2	<5	146	50	78	169	<2	6	<5	2.51	4.10	1.9
577309		<0.2	<5	134	49	91	161	<2	5	<5	2.77	4.36	1.9
577310		<0.2	<5	125	61	98	232	3	3	<5	2.57	4.20	1.9
577311		<0.2	<5	337	42	91	160	<2	8	<5	2.03	4.35	1.6
577312		<0.2	<5	289	60	87	139	14	5	<5	1.98	3.96	1.6
577313		<0.2	<5	185	79	91	141	30	4	<5	2.54	4.37	1.9
577314		<0.2	<5	174	53	79	130	6	4	<5	2.51	4.10	1.8
577315		<0.2	<5	41	28	63	293	3	2	<5	2.02	1.98	2.1
577316		<0.2	<5	151	50	67	155	<2	6	<5	2.45	4.04	1.7
577317		<0.2	<5	143	60	86	164	3	5	<5	2.84	4.54	1.9
577318		<0.2	<5	137	45	88	189	<2	7	<5	2.62	4.23	1.9
577319		<0.2	<5	127	41	86	137	<2	3	<5	2.53	3.90	1.7
577320		<0.2	<5	188	80	82	154	4	5	<5	2.56	4.08	1.8
77321		<0.2	<5	124	41	77	136	<2	4	<5	2.63	3.61	1.7
7322		<0.2	<5	149	52	84	139	<2	4	<5	2.60	4.47	1.8
577323		<0.2	<5	127	51	84	141	2	4	<5	2.63	4.41	1.9



**Inchcape Testing Services**  
Chimitec Ltée

CLIENT: CYPRUS CANADA INC.  
REPORT: C97-60377.1 ( PARTIAL )

PROJECT: 6008  
DATE PRINTED: 10-MAR-97 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Tl PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Pb PPM
577284		3.17	0.24	0.07	0.13	753	<0.2	24	5	<5	9	1	1
577285		2.92	0.27	0.09	0.12	885	0.2	32	7	<5	9	2	1
577286		2.97	0.23	0.07	0.13	666	<0.2	21	5	5	8	2	
577287		3.09	0.21	0.06	0.12	738	<0.2	21	6	5	9	1	1
577288		1.90	0.14	0.06	0.11	565	<0.2	21	8	<5	8	1	2
577289		3.41	0.27	0.06	0.20	649	<0.2	19	5	<5	7	1	
577290		6.24	0.23	0.05	0.12	784	0.4	19	5	7	9	3	
577291		3.65	0.34	0.06	0.14	688	0.2	23	5	<5	8	2	
577292		2.88	0.25	0.04	0.12	661	<0.2	21	4	<5	8	2	
577293		1.86	0.20	0.07	0.10	511	<0.2	13	23	5	8	10	10
577294		3.38	0.30	0.07	0.13	702	<0.2	20	9	<5	9	3	6
577295		3.80	0.24	0.06	0.12	727	<0.2	18	5	<5	8	2	7
577296		2.44	0.24	0.09	0.17	572	<0.2	20	5	<5	7	2	12
577297		2.94	0.28	0.04	0.13	655	<0.2	21	5	6	8	2	6
577298		3.88	0.25	0.05	0.14	818	<0.2	24	5	7	10	3	16
7299		4.35	0.24	0.06	0.12	748	<0.2	17	7	6	9	3	9
577300		3.49	0.26	0.07	0.16	763	<0.2	19	7	<5	8	3	7
577301		3.37	0.22	0.06	0.14	781	<0.2	23	8	<5	9	3	10
577302		1.00	0.30	0.36	0.13	348	<0.2	12	89	<5	9	21	13
577303		3.42	0.26	0.08	0.24	668	<0.2	20	7	<5	8	1	6
577304		5.12	0.05	0.31	0.21	1009	<0.2	25	51	<5	8	3	22
577305		2.94	0.09	0.02	0.27	754	<0.2	34	9	6	8	2	15
577306		2.63	0.11	0.12	0.26	644	0.4	27	21	6	8	2	14
577307		1.45	0.08	0.02	0.27	714	<0.2	32	5	<5	8	1	19
577308		2.55	0.07	0.02	0.24	779	<0.2	28	7	6	8	2	18
577309		1.90	0.08	0.02	0.30	689	<0.2	31	6	6	8	2	16
577310		1.75	0.11	0.02	0.28	665	<0.2	31	9	<5	7	2	19
577311		2.40	0.11	0.12	0.24	595	<0.2	33	25	12	6	1	14
577312		2.31	0.10	0.17	0.23	599	<0.2	32	33	5	7	2	14
577313		2.65	0.09	0.03	0.27	714	<0.2	34	14	<5	7	2	16
577314		3.99	0.08	0.05	0.27	864	<0.2	30	13	<5	8	2	16
577315		4.76	0.25	0.20	0.10	482	<0.2	17	63	<5	8	11	21
577316		6.51	0.05	0.34	0.21	1045	<0.2	27	75	<5	8	4	20
577317		2.84	0.10	0.14	0.29	770	<0.2	31	33	6	8	2	18
577318		1.51	0.08	<0.01	0.29	632	<0.2	32	5	7	8	1	15
577319		1.73	0.09	<0.01	0.29	592	<0.2	30	5	<5	6	<1	12
577320		2.96	0.07	<0.01	0.29	707	<0.2	35	5	<5	8	2	13
7321		2.01	0.09	0.01	0.29	572	<0.2	26	5	5	7	2	12
7322		3.59	0.08	<0.01	0.30	802	<0.2	32	7	<5	8	2	15
577323		2.81	0.10	<0.01	0.28	730	<0.2	30	6	<5	8	2	14



**Inchcape Testing Services**  
**Chimitec Ltée**

CLIENT: CYPRUS CANADA INC.  
 REPORT: C97-60377.1 ( PARTIAL )

PROJECT: 6008  
 DATE PRINTED: 10-MAR-97 PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
577284		<1	14	<20	10	<10	<10	114	<20	6	2
577285		<1	15	<20	8	<10	<10	120	<20	7	1
577286		<1	13	<20	9	<10	<10	102	<20	6	1
577287		<1	12	<20	8	<10	<10	101	<20	5	1
577288		<1	8	<20	10	<10	<10	66	<20	4	5
577289		<1	13	<20	12	<10	<10	104	<20	7	2
577290		<1	11	<20	16	<10	<10	90	<20	6	<1
577291		<1	16	<20	13	<10	<10	122	<20	7	2
577292		<1	12	<20	9	<10	<10	98	<20	6	1
577293		<1	6	<20	5	<10	<10	54	<20	6	10
577294		<1	14	<20	11	<10	<10	105	<20	7	2
577295		<1	12	<20	10	<10	<10	95	<20	6	2
577296		<1	12	<20	11	<10	<10	104	<20	7	2
577297		<1	13	<20	16	<10	<10	105	<20	6	2
577298		<1	13	<20	17	<10	<10	112	<20	6	1
7299		<1	12	<20	9	<10	<10	97	<20	6	2
7300		<1	14	<20	14	<10	<10	107	<20	7	2
577301		<1	12	<20	11	<10	<10	102	<20	6	2
577302		<1	<5	<20	15	<10	<10	53	<20	8	19
577303		<1	13	<20	15	<10	<10	108	<20	7	2
577304		<1	<5	<20	24	<10	<10	67	<20	3	3
577305		<1	5	<20	24	<10	<10	67	<20	3	3
577306		<1	5	<20	21	<10	<10	68	<20	3	4
577307		<1	5	<20	21	<10	<10	68	<20	3	3
577308		<1	<5	<20	23	<10	<10	62	22	3	3
577309		<1	6	<20	31	<10	<10	71	<20	4	4
577310		<1	6	<20	32	<10	<10	67	<20	4	4
577311		<1	5	<20	24	<10	<10	63	<20	4	3
577312		<1	5	<20	22	<10	<10	62	277	4	2
577313		<1	6	<20	37	<10	<10	71	<20	4	3
577314		<1	5	<20	41	<10	<10	63	<20	3	3
577315		<1	<5	<20	89	<10	<10	31	<20	2	12
577316		<1	<5	<20	60	<10	<10	62	<20	3	2
577317		<1	6	<20	46	<10	<10	75	<20	4	4
577318		<1	5	<20	31	<10	<10	70	<20	4	4
577319		<1	6	<20	38	<10	<10	67	<20	4	5
577320		<1	5	<20	35	<10	<10	66	<20	4	4
7321		<1	6	<20	44	<10	<10	67	<20	4	5
7322		<1	5	<20	33	<10	<10	66	<20	3	4
577323		<1	5	<20	32	<10	<10	67	<20	4	4



**Inchcape Testing Services**  
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CLIENT: CYPRUS CANADA INC.  
 REPORT: C97-60377.1 ( PARTIAL )

PROJECT: 6008  
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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	
577324		<0.2	<5	120	54	74	124	6	3	<5	2.48	4.04	1.6
577325		<0.2	<5	109	61	71	162	4	5	<5	3.22	4.79	2.2
577326		<0.2	<5	105	45	78	127	<2	3	<5	2.87	4.31	2.2
577327		<0.2	<5	133	43	84	163	16	6	<5	2.40	3.93	1.8
577328		<0.2	<5	112	48	78	134	4	2	<5	2.81	4.57	2.1
577329		<0.2	<5	130	49	75	178	8	6	<5	2.39	4.14	1.9
577330		<0.2	<5	64	83	72	175	5	6	<5	3.11	5.17	2.2
577331		<0.2	<5	152	47	84	148	4	4	<5	2.35	4.01	1.8





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SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM
577324		5.68	0.10	<0.01	0.27	809	<0.2	26	5	<5	7	3	1
577325		5.86	0.08	0.02	0.26	1078	<0.2	28	10	<5	11	6	2
577326		1.88	0.09	0.02	0.28	664	0.3	30	11	<5	8	3	2
577327		2.11	0.07	<0.01	0.30	588	<0.2	30	7	<5	7	3	1
577328		2.74	0.10	0.02	0.31	711	<0.2	28	9	<5	8	4	2
577329		3.93	0.06	<0.01	0.27	725	<0.2	30	10	<5	8	4	1
577330		6.15	0.06	0.01	0.23	1173	<0.2	28	12	6	10	4	2
577331		1.52	0.07	0.01	0.28	597	<0.2	30	5	<5	6	<1	1



**Inchcape Testing Services**  
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CLIENT: CYPRUS CANADA INC.  
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PROJECT: 6008  
 DATE PRINTED: 10-MAR-97 PAGE 2C

SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Ta PPM	V PPM	W PPM	Y PPM	Zr PPM
577324		<1	5	<20	35	<10	<10	63	<20	3	3
577325		<1	7	<20	68	<10	<10	87	<20	4	4
577326		<1	7	<20	58	<10	<10	79	<20	4	5
577327		<1	6	<20	49	<10	<10	67	<20	4	5
577328		<1	7	<20	58	<10	<10	81	<20	4	5
577329		<1	6	<20	51	<10	<10	73	<20	3	4
577330		<1	6	<20	41	<10	<10	88	<20	3	2
577331		<1	5	<20	28	<10	<10	66	<20	3	5



**Inchcape Testing Services**  
**Chimitec Ltee**

Or, PQ, Canada

**" U R G E N T & C O N F I D E N T I A L "**

To: CYPRUS CANADA INC.  
 Attention : R. BLAIR NEEDHAM  
 Reference : -  
 Submitter : BLAIR NEEDHAM

Our Fax No: (819) 825-0256  
 Your Fax No: 1-705-235-5700  
 Number of Pages : 5 including this page.

Report : C97-60302.1      Status : COMPLETE      Total number of samples: 71

Element Method	Totl	Element Method	Totl	Element Method	Totl
SiO2 INDUC. COUP. PLASMA	71	TiO2 INDUC. COUP. PLASMA	71	Al2O3 INDUC. COUP. PLASMA	71
Fe2O3* INDUC. COUP. PLASMA	71	MnO INDUC. COUP. PLASMA	71	MgO INDUC. COUP. PLASMA	71
CaO INDUC. COUP. PLASMA	71	Na2O INDUC. COUP. PLASMA	71	K2O INDUC. COUP. PLASMA	71
P2O5 INDUC. COUP. PLASMA	71	LOI GRAVIMETRIC	71	Total	71
Ba INDUC. COUP. PLASMA	71	Cr INDUC. COUP. PLASMA	71	Sr INDUC. COUP. PLASMA	71

Sample Preparations	Totl	Sample Type	Totl	Size Fraction	Totl	Remarks
AS RECEIVED	71	DRILL CORE	71	-150	71	

Notes:

If you do not receive the entire transmission in legible form, please call us at (819) 825-0178.



**Inchcape Testing Services**  
**Chimitec Ltée**

CLIENT: CYPRUS CANADA INC.  
 REPORT: C97-60302.1 ( COMPLETE )

PROJECT: 6008  
 DATE PRINTED: 14-MAR-97 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT
577157		54.07	1.07	13.68	13.79	0.20	5.43	8.34	2.10	0.48	0.13	1.54	100.87
577158		50.16	1.11	14.30	14.42	0.21	5.69	7.58	1.81	0.43	0.12	1.56	97.40
577159		53.37	1.00	13.72	12.99	0.22	5.35	8.65	2.05	0.31	0.15	0.78	98.61
577160		53.79	1.01	13.19	13.57	0.21	5.20	8.35	2.02	0.63	0.12	1.56	99.69
577161		45.27	1.21	15.18	15.29	0.22	6.19	8.17	1.92	0.57	0.14	3.79	97.99
577162		48.87	1.23	16.06	15.63	0.20	5.96	6.05	2.22	0.38	0.13	3.06	99.85
577163		52.72	1.05	13.79	13.71	0.20	5.66	8.00	2.04	0.50	0.14	1.35	99.19
577164		60.60	0.74	9.87	9.92	0.14	4.00	6.99	1.27	0.63	0.10	3.37	97.68
577165		44.73	1.13	15.58	14.73	0.23	6.32	9.41	2.40	0.69	0.13	2.46	97.84
577166		46.49	1.10	15.19	15.10	0.22	5.98	8.80	2.38	0.23	0.07	3.33	98.90
577167		44.72	1.04	14.78	14.81	0.22	5.58	9.88	2.06	0.47	0.11	3.55	97.25
577168		49.07	1.10	14.60	14.56	0.22	5.88	8.98	2.32	0.64	0.11	2.29	99.80
577169		52.08	1.05	13.75	14.23	0.21	5.72	8.29	1.89	0.35	0.13	0.79	98.52
577170		50.54	0.86	12.03	11.58	0.21	4.45	11.85	1.65	0.64	0.10	5.38	99.32
577171		54.11	1.03	13.86	13.49	0.20	5.54	7.91	2.16	0.33	0.13	0.72	99.50
577172		58.57	1.27	14.97	10.67	0.15	2.81	7.18	3.69	0.66	0.33	0.59	100.93
577173		60.93	1.29	14.61	9.55	0.13	2.27	6.11	4.28	0.46	0.30	0.19	100.17
577174		54.21	1.06	14.12	13.23	0.21	5.16	7.67	2.84	0.64	0.15	0.58	99.90
577175		54.23	1.08	13.89	13.22	0.21	5.21	8.11	2.57	0.65	0.12	0.67	99.98
577176		63.08	1.12	14.12	8.98	0.14	2.29	6.31	3.68	0.35	0.30	0.44	100.84
577177		55.05	1.08	14.03	13.51	0.21	5.58	7.17	2.37	0.52	0.15	1.17	100.86
577178		48.32	0.90	12.15	11.51	0.18	4.80	9.41	4.14	2.10	0.13	5.34	99.03
577179		67.77	0.43	16.84	2.65	0.04	0.58	1.06	8.97	0.90	0.10	1.12	100.53
577180		77.69	0.17	11.24	2.23	0.05	0.15	1.80	4.93	1.31	<0.03	1.18	100.85
577181		59.78	1.39	14.89	9.23	0.14	2.08	5.47	3.71	1.85	0.35	1.23	100.20
577182		55.09	1.07	14.64	11.82	0.17	4.49	6.90	3.07	1.21	0.17	1.39	100.09
577183		49.14	1.07	15.14	13.20	0.19	6.19	8.94	2.62	0.55	0.13	1.73	98.94
577184		53.62	0.91	13.70	12.10	0.15	4.89	10.27	2.60	0.35	0.14	1.11	99.86
577185		54.05	0.80	11.27	10.07	0.18	4.67	11.36	3.02	0.48	0.12	4.03	100.10
577186		54.34	0.89	13.60	11.30	0.16	5.57	8.38	2.75	0.36	0.10	1.12	98.60
577187		52.25	0.79	14.06	10.92	0.17	6.02	9.98	2.72	0.27	0.09	1.61	98.91
577188		52.65	0.83	14.32	12.41	0.18	6.47	8.77	2.35	0.26	0.11	1.48	99.85
577189		53.31	0.74	13.15	12.62	0.18	6.14	8.85	2.16	0.32	0.11	1.52	99.13
577190		54.78	0.74	13.41	11.96	0.20	6.00	9.04	2.34	0.27	0.11	1.00	99.88
577191		55.52	0.72	12.98	10.38	0.20	5.50	9.84	2.87	0.25	0.11	1.15	99.54
577192		55.55	0.72	13.26	10.99	0.22	5.63	9.52	2.61	0.26	0.11	1.14	100.03
577193		53.48	0.73	13.78	13.28	0.20	6.05	9.93	1.16	0.12	0.10	1.41	100.26
577194		56.51	0.82	14.67	9.13	0.22	3.89	9.72	1.75	0.38	0.11	3.29	100.53
577195		55.45	0.81	14.41	13.32	0.38	3.09	9.14	1.54	0.41	0.07	2.08	100.73
577196		69.32	0.44	14.46	6.29	0.06	1.26	1.91	0.79	3.52	0.11	2.73	100.99



**Inchcape Testing Services**  
**Chimitec Ltée**

CLIENT: CYPRUS CANADA INC.  
 REPORT: C97-60302.1 ( COMPLETE )

PROJECT: 6008  
 DATE PRINTED: 14-MAR-97 PAGE 1B

AMPLE NUMBER	ELEMENT UNITS	Ba PPM	Cr PPM	Sr PPM
577157		135	114	85
577158		130	35	83
577159		76	85	93
577160		176	126	97
577161		188	39	112
577162		133	94	136
577163		166	76	111
577164		241	278	78
577165		200	<10	122
577166		36	30	121
577167		113	19	123
577168		155	38	115
577169		69	51	101
577170		216	110	117
577171		74	39	109
172		173	90	177
577173		118	232	158
577174		160	32	116
577175		146	59	115
577176		100	114	137
577177		133	44	125
577178		278	<10	130
577179		378	146	135
577180		629	244	64
577181		480	185	182
577182		406	152	167
577183		122	<10	152
577184		74	54	114
577185		171	236	74
577186		167	114	106
577187		51	90	138
577188		44	89	125
577189		<10	24	104
577190		<10	<10	116
577191		<10	30	133
577192		<10	<10	131
577193		<10	77	104
194		100	99	163
577195		67	142	161
577196		792	242	67



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SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT
577197		49.81	0.44	9.90	26.33	0.07	1.26	2.65	0.27	2.05	0.14	7.62	100.61
577198		73.07	0.35	12.52	3.80	0.06	0.98	3.04	1.39	2.44	0.15	2.39	100.27
577199		61.40	0.62	12.22	12.65	0.08	1.77	4.29	0.81	2.20	0.16	4.63	100.90
577200		67.59	0.41	12.55	8.09	0.07	1.24	3.17	0.60	2.87	0.11	3.24	100.01
577201		65.09	0.28	11.70	8.21	0.12	1.47	5.05	0.36	2.54	0.12	3.78	98.80
577202		58.40	0.47	14.49	10.53	0.18	3.15	6.19	0.89	2.68	0.15	3.30	100.49
577203		55.31	0.65	14.97	9.95	0.16	3.45	5.40	1.64	2.12	0.22	4.28	98.21
577204		65.72	0.44	13.78	7.64	0.13	1.75	3.94	0.51	3.21	0.15	2.96	100.31
577205		57.66	0.53	13.35	11.97	0.18	2.37	5.90	0.45	2.98	0.14	4.88	100.48
577206		52.71	0.68	12.94	13.34	0.26	3.10	7.71	0.99	1.55	0.05	4.91	98.29
577207		68.02	0.53	14.58	5.29	0.11	1.56	3.80	3.85	1.74	0.18	0.84	100.58
577208		59.69	1.00	15.44	9.25	0.14	2.59	5.36	3.17	2.12	0.27	1.81	100.89
577209		69.47	0.55	15.00	4.53	0.07	1.15	2.62	5.24	1.16	0.16	0.25	100.28
577210		68.20	0.46	14.08	5.14	0.09	1.21	3.28	4.38	1.33	0.14	1.24	99.61
577211		65.58	0.45	13.23	5.28	0.13	1.21	5.49	4.35	1.07	0.13	3.09	100.09
577212		57.70	1.08	15.31	11.51	0.14	2.70	5.45	3.75	1.05	0.28	1.21	100.23
577213		60.06	1.02	14.25	10.80	0.14	2.51	5.90	3.75	0.79	0.26	0.92	100.47
577214		65.89	0.52	14.59	5.22	0.08	1.20	3.67	6.21	1.07	0.17	1.93	100.61
577215		55.44	0.96	14.38	13.69	0.26	3.27	7.83	2.96	0.43	0.18	0.84	100.29
577216		54.85	0.82	15.36	13.27	0.27	4.55	7.80	1.58	0.87	0.07	1.12	100.62
577217		52.96	0.64	12.41	15.55	0.30	4.76	8.78	0.49	1.25	0.07	3.20	100.50
577218		84.53	0.18	5.18	3.55	0.05	0.92	1.29	1.32	0.24	0.03	0.60	97.95
577219		61.64	0.53	10.77	10.74	0.19	3.52	7.09	0.92	0.28	0.06	4.70	100.50
577220		53.01	0.71	13.70	12.79	0.25	5.10	9.58	1.33	0.24	0.08	3.89	100.72
577221		48.74	0.67	12.83	15.33	0.32	5.22	10.82	1.41	0.53	0.10	4.49	100.51
577222		67.55	0.69	12.21	7.25	0.11	1.78	4.77	3.47	1.18	0.20	1.32	100.60
577223		73.85	0.28	13.01	3.43	0.05	0.48	1.81	5.01	1.30	0.09	0.65	100.05
577224		74.82	0.25	12.62	3.12	0.05	0.37	1.53	4.47	1.72	0.05	1.05	100.13
577225		75.16	0.26	12.83	3.15	0.05	0.35	1.64	4.38	1.79	0.05	1.05	100.81
577226		74.70	0.26	12.63	3.19	0.05	0.39	1.79	4.28	1.89	0.07	1.30	100.64
577227		71.39	0.41	13.37	4.61	0.07	1.05	2.94	3.73	2.01	0.12	1.16	100.96



**Inchcape Testing Services**  
**Chimitec Ltée**

CLIENT: CYPRUS CANADA INC.  
 REPORT: C97-60302.1 ( COMPLETE )

PROJECT: 6008  
 DATE PRINTED: 14-MAR-97 PAGE 2B

SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	Cr PPM	Sr PPM
577197		504	237	30
577198		408	211	110
577199		296	298	99
577200		365	273	73
577201		383	324	76
577202		414	164	127
577203		340	93	195
577204		480	219	71
577205		394	172	74
577206		270	81	135
577207		400	294	93
577208		361	45	144
577209		363	278	126
577210		357	136	122
577211		340	283	115
212		304	25	213
577213		189	150	207
577214		294	111	148
577215		60	266	168
577216		150	435	83
577217		201	502	99
577218		33	478	41
577219		42	480	88
577220		12	332	98
577221		65	366	100
577222		305	158	145
577223		399	304	102
577224		466	250	106
577225		484	267	115
577226		549	240	100
577227		678	206	132

**APPENDIX IV**  
**1997 SUNDAY LAKE EXPENDITURES AND MAJOR INVOICES**



1997 Cyprus Drilling Expenditures Jan. 1 - Mar. 31 Total 921 m.  
 (SLQ) Sunday Lake (Que.) = 175.5 m = 19.1% Martinlere C (MC) = 297 m = 32.25%  
 (SLQ) Sunday Lake (Ont.) = 138 m = 15% Martinlere D (MD) = 310 m = 33.66%

CYPRUS CANADA INC.  
 PROJECT EXPENDITURES

PROJECT: NORTHERN ABITIBI 6008

CANADIAN DOLLARS

MARCH 1997

	Current Budget	EXPENDITURES		
		Month	Year To Date	
<b>GENERAL GEOLOGY</b>				
Salaries/Benefits	\$ 35,000	\$ (4,557)	\$ 4,160	SLQ 794.56 SLO 624.00 MC 1341.60 MD 1400.20
Outside Contractors		-	200	
Assaying/Sampling	3,000			SLQ 262.62 SLO 206.25
Field Expenses	2,000	175	1,375	MD 462.82 MC 443.44
	40,000	(4,382)	5,735	
<b>DIAMOND DRILLING</b>				
Salaries/Benefits	75,000	17,905	35,844	SLQ 6846.20 SLO 5376.60 MD 12065.09
Outside Contractors	132,000	91,925	192,191	MC 11,549.69 drill + helicopter
Assaying/Sampling	20,000	2,483	2,483	SLQ 1226.95
Field Expenses	5,000	1,712	6,424	SLO 963.60 MD 2162.32
	232,000	114,025	236,942	MC 2071.74
Geophysics	22,000	-	23,337	
Geochemistry				
Property Acquisitions				SLQ 309.42
Travel	40,600	470	1,620	SLO 243.00 MD 545.29
Option Payments				MC 522.45
Legal				
Property Maintenance			990	SLQ 125.87
Environmental				SLO 98.85
Other		243	659	MD 226.82
				MC 212.53
<b>TOTAL EXPENDITURES</b>	<b>334,600</b>	<b>110,356</b>	<b>269,283</b>	
<b>LESS PARTICIPANTS SHARE</b>	<b>262,900</b>	<b>87,644</b>	<b>246,571</b>	
<b>NET EXPENDITURES</b>	<b>\$ 71,700</b>	<b>\$ 22,712</b>	<b>\$ 22,712</b>	



VAL D'OR SAGAX INC.  
 50 Lamaque Boulevard  
 Val-d'Or (Quebec)  
 Canada J9P 2H6  
 Tel: (819) 874-2001  
 Fax: (819) 874-2002  
 BBS: (819) 874-2005

Facture/Invoice: #97-587

FEB 26 1997

February 24th, 1997

CYPRUS CANADA INC.  
 66 Bruce Avenue  
 Box 1120  
 South Porcupine, Ontario  
 PON 1H0

Total \$ 22,799.00

7.2km Sunday Lake (Quebec) = \$ 7874

15.6km Sunday Lake (Ontario) = \$ 14893.5

C/O: Mr. Blair Needham

96-N139

Description	Prix unitaire / Unit price	Total
-------------	-------------------------------	-------

Re: SUNDAY LAKE Project / Final Invoice  
 Northeast Ontario and Northwest Quebec

As per Agreement of November 29th, 1996

MOB. DEMOB.		1 750,00 \$
LINE CUTTING / 22.8 km	325,00 \$	7 410,00 \$
MAGNETIC SURVEY / 22.8 km	95,00 \$	2 166,00 \$
INDUCED POLARIZATION SURVEY / 15.4 km	745,00 \$	11 473,00 \$
TOTAL CONTRACT		22 799,00 \$
LESS INVOICE #97-485		- 9 575,80 \$
LESS INVOICE #97-540		- 8 663,40 \$
BALANCE		4 559,80 \$

Sous-total\Sub-total 4 559,80 \$

T.P.S.\G.S.T. (7.0%) 319,19 \$

T.V.Q.\P.S.T. (6.5%) 317,14 \$

=====

TOTAL 5 196,13 \$

8300 - 6008 BW

Termes: Net 30 jours - 1.5% d'intérêt par mois (18% par année) après 30 jours  
 Terms: Net 30 days - 1.5% interest per month (18% per year) after 30 days

T.P.S.\G.S.T.: R892394743  
 T.V.Q.\P.S.T.: 1019122031

20 Tardif, P.O. Box 815  
Rouyn, Québec  
J9X 5C7  
Tel.: (819) 762-3528  
Fax.: (819) 762-5589

forage  
**MAJOR  
HOSKING**  
drilling

6012 = Martigny A  
6008 = Martiniere C  
+  
Martiniere D  
+  
All other Northern  
Abitibi properties

**INVOICE 1351**

Cyprus Canada Inc.  
66, Bruce Ave., Box 1120  
South Porcupine (Ontario)  
P0N 1H0

March 15, 1997

GST 89895 4896  
PST 10175 04424

Att: Blair Needhan

SURFACE DIAMOND DRILLING      BO      MARCH 01-15/1997

DRILL NO. 07

Hole no. MT-97-03 Martigny A - \$7908.5

From 60,00 to 150,00 = 90,00m coring x 59,35 = 5 341,50  
From 150,00 to 192,00 = 42,00m coring x 63,50 = 2 667,00

\$7908.5-601

Hole no. MC-97-01 Martiniere C - \$18,272.7

From 0,00 to 15,00 = 15,00m casing x 59,35 = 890,25  
From 15,00 to 21,00 = 6,00m casing x 65,30 = 391,80  
From 21,00 to 150,00 = 129,00m coring x 59,35 = 7 656,15  
From 150,00 to 297,00 = 147,00m coring x 63,50 = 9 334,50

\$30,591.05-6008

Hole no. MD-97-02 Martiniere D - \$12,318.35

From 0,00 to 15,00 = 15,00m casing x 59,35 = 890,25  
From 15,00 to 28,00 = 13,00m casing x 65,30 = 848,90  
From 28,00 to 150,00 = 122,00m coring x 59,35 = 7 240,70  
From 150,00 to 201,00 = 51,00m coring x 63,50 = 3 238,50

7% GST  
6,5% PST

\$ 38 499,55  
2 694,97  
2 677,64  
\$ 43 872,16

**ANALYSES:**

MT-97-03 : Acid test at 100m 150m 192m  
MC-97-01 : Acid test at 100m 200m 297m  
MD-97-02 : Acid test at 100m 200m

CON'T

ANALYSES:

8 Acid test x 55,00 = 440,00

9165,00 - 6012  
275,00 - 6008  
MC-8165  
MD-110  
440,00  
30,80  
30,60  
\$ 501,40

7% GST  
6,5% PST

OPERATING FIELD COSTS:

March 01	: 22 man h	To cut pad, to install waterline
March 02	: 24 man h	To cut pad
March 03	: 36 man h	To move and install drill
	: 22 man h	To search for water, move
March 04	: 16 man h	To install and start waterline at 1160m
	: 22 man h	To shovel up set-up
March 05	: 18 man h	To finish to cut pad, shovel up set-up and to cut trail for waterline
March 07	: 6 man h	to drain waterline on 1160m
March 08	: 24 man h	To move drill
March 12	: 48 man h	To bring up equipment and gear at camp

238 man h x 24,50 = 5 831,00

MC-3118,5  
MD-2110,5  
7% GST  
6,5% PST  
85229-6008  
602.-6012  
\$ 5 831,00  
408,17  
405,55  
\$ 6 644,72

MATERIAL LEFT IN HOLE:

MT-97-03	: 16 BW casing 3m	x 104,75 = 1 676,00
	: 1 BW casing shoe	x 185,00 = 185,00
	: 3 NW casing 3m	x 120,00 = 360,00
	: 1 NW casing shoe	x 230,00 = 230,00
MC-97-01	: 1 NW casing 3m	x 120,00 = 120,00
	: 1 NW casing shoe	x 230,00 = 230,00
MD-97-02	: 6 BW casing 3m	x 104,75 = 628,50
	: 1 BW casing shoe	x 185,00 = 185,00
	: 5 NW casing 3m	x 120,00 = 600,00
	: 1 NW casing shoe	x 230,00 = 230,00

2451-6012  
350-6008-MC  
1643,5-6008  
MD

CON'T

MATERIAL LEFT IN HOLE:

10% Service Charge	\$ 151.00 6012	} → \$ 4 444,50
7% GST		
6,5% PST		
MC# 175	\$ 293,45 6008	→ 444,45c
MD# 118		→ 342,23
		→ 340,03
		\$ 5 571,21

MISCELLANEOUS:

30 trays core boxes BQ with cover  
 Room & board for 4 persons while  
 54 days at 37,50 each  
 Core shack rental 750,00 x 0,5  
 Office rental 450,00 x 0,5  
 Bill of bus for analyses  
 Demobilization, as per agreement

375,00	\$ 247.05 - 6008	MC# 163
	\$ 127.95 - 6012	MD# 84
2 025,00	\$ 1334.07 - 6008	MC# 795,64
	\$ 690.93 - 6012	MD# 538,4
375,00		
225,00	\$ 2740.45 - 6008	* see bel.
59,75		
3 500,00	\$ 1419.30 - 6012	

\* Taxes are included

7% GST  
 6,5% PST

\$ 6 559,75  
 455,00  
 452,08  
 \$ 7 466,83

Contract no. H1224  
 Footage drilled 2067'  
 Meters drilled 630,00m

**SUMMARY**  
 Invoiced \$ 55 774,80  
 10% Service charge 444,45  
 7% GST 3 931,17  
 8% PST 3 905,90  
**TOTAL..... \$ 64 056,32**

1230,86

13364,68 + 151 + prov tax = 14,746,54 8220-6012

42#10 .12 + 293.45 + 2675.04 = 45378,61 8220-6008

\* General Expenditures for 1997 drill program

Martigny A - 34,1% \* 4159.75 = 1419.30 Martiniere C - 21,2% - 881,87  
 Sunday Lake (Quebec) - 12,5% - 519.97 Martiniere D - 22,2% - 923,46  
 Sunday Lake (Ontario) - 9,9% - 411,81

... 80.75

20 Tardif, P.O. Box 815  
 Rouyn, Québec  
 J9X 5C7  
 Tel.: (819) 762-3528  
 Fax.: (819) 762-5589



*Project Abbreviat.*  
 SL(Qwe) - Sunday Lake Q.  
 SL(ONT) - Sunday Lake (On.  
 MT - Martigny  
 MC - Martiniere C  
 MD - Martiniere D

**INVOICE 1347**

Cyprus Canada Inc.  
 66, Bruce Ave., Box 1120  
 South Porcupine (Ontario)  
 PON 1H0

February 28, 1997

GST 89895 4896  
 PST 10175 04424

Att: Blair Needhan

SURFACE DIAMOND DRILLING BO FEBRUARY 16-28/1997

DRILL NO. 07

Hole no. SL-97-02

From 0,00 to 9,00 = 9,00m casing x 59,35 = 534,15  
 From 9,00 to 138,00 = 129,00m coring x 59,35 = 7 656,15

*Sunday Lake (On*  
 } 8190,30

Hole no. MT-97-01

From 0,00 to 8,00 = 9,00m casing x 59,35 = 474,80  
 From 8,00 to 141,00 = 133,00m coring x 59,35 = 7 893,55

Hole no. MT-97-02

From 0,00 to 15,00 = 15,00m casing x 59,35 = 890,25  
 From 15,00 to 28,00 = 13,00m casing x 65,30 = 848,90  
 From 28,00 to 144,00 = 116,00m coring x 59,35 = 6 884,60

*Martigny A.*  
 } 20,594,75

Hole no. MT-97-03

From 0,00 to 15,00 = 15,00m casing x 59,35 = 890,25  
 From 15,00 to 22,00 = 7,00m casing x 65,30 = 457,10  
 From 22,00 to 60,00 = 38,00m coring x 59,35 = 2 255,30

7% GST  
 6,5% PST

\$ 28 785,05  
 2 014,95  
 2 002,00  
 \$ 32 802,00

ANALYSES:

SL-97-02 : Acid test at 100m 138m  
 MT-97-01 : Acid test at 50m 100m  
 MT-97-02 : Acid test at 100m 144m

MAR 07 1997

Page 002  
No. 1347

CON'T

ANALYSES:

6 Acid test x 55,00 = 330,00

7% GST  
6,5% PST

SL(ont) 110 6008-  
MT - 220 6012

\$ 330,00  
23,10  
22,95  
\$ 376,05

OPERATING FIELD COSTS:

Feb. 16 : 50 man h	Move at cost
Feb. 17 : 16 man h	To cut pad
Feb. 18 : 20 man h	To shovel up the set-up, to cut pad
Feb. 19 : 20 man h	To cut pad for pump, doing set-up
Feb. 20 : 16 man h	To start to cut pad, bad weather
_____ : 32 man h	To start moving, bad weather
Feb. 21 : 22 man h	To finish to cut pad and shovel up set-up
_____ : 44 man h	To move on 20 miles
Feb. 22 : 22 man h	to start to cut pad
_____ : 10 man h	To instal water line
Feb. 23 : 22 man h	To cut pad
Feb. 24 : 22 man h	To shovel up the set-up, to finish to cut pad
Feb. 25 : 54 man h	To move and to install drill
Feb. 26 : 22 man h	To cut pad
Feb. 27 : 26 man h	To move the drill
_____ : 22 man h	To shovel up set-up and move
Feb. 28 : 24 man h	To cut a pad, to do a trail for waterline

Sunday Lake  
123 hours  
= 3013.50

Martigny  
321 hours  
= 7864.50

444 man h x 24,50 = 10 878,00

123 hours x 24.5 = 3013.50

\$ 10 878,00

321 hours x 24.5 = 7864.50

7% GST  
6,5% PST

761,46  
756,56

\$ 12 396,02

MATERIAL LEFT IN HOLE:

MT-97-02 : 9 BW casing 3m	x 104,75 =	942,75
: 1 BW casing 2'	x 39,50 =	39,50
: 1 BW casing shoe	x 185,00 =	185,00

MT = 1283,98

10% Service Charge  
7% GST  
6,5% PST

\$ 1 167,25  
116,73  
89,88  
89,30  
\$ 1 463,16

MAR 07 1997

6008 = 988  
 MC - \$318.63  
 MD - \$332.80 Page 003  
 SL(ONT) - \$198.21 1347  
 SL(QUE) - \$188.71

CON'T

MISCELLANEOUS:

120 trays core boxes BQ with cover 1 500,00  
 Room & board for 4 persons while  
 12 days at 37,50 each 1 950,00 X

6012 \$ 655  
 6008 9/285

7% GST \$1285 → MC - \$414.41 \$ 3 450,00  
 6,5% PST MD - \$432,53 241,50  
 SL(ONT) - \$192.75 \$ 3 931,45  
 SL(QUE) - \$245.44

Contract no. H1224  
 Footage drilled 1585'  
 Meters drilled 483,00m

SUMMARY	
Invoiced	\$ 44 610,30
10% Service charge	116,73
7% GST	3 130,89
8% PST	3 110,76
TOTAL.....	\$ 50 968,68

532.12 8220 6008 BN  
 7305.67 8220 6012 BN  
 1837.79

REFERENCE #		VENDOR #	
ACCOUNT		AMOUNT	
G.L.	PROJECT		
1290	G.S.T.	3,130	29
8220	6008	14,532	12
8220	6012	33,305	67
TOTAL	March 1997	50 968	68
APPROVED: B. Jeffrey		CHECKED: S.F.	
		SHERRY FAULKNER	

SL  
 8190  
 110  
 3013.5  
 988  
 1285  
 13586.5 + tax

MT  
 20594.75  
 220  
 = 512  
 7864.50  
 1167.25  
 6627 + tax



20 Tardif, P.O. Box 815  
 Rouyn, Québec  
 J9X 5C7  
 Tel.: (819) 762-3528  
 Fax.: (819) 762-5589

forage

**MAJOR**  
**HOSKING**  
 drilling

Project Abbreviation

MD = Martiniere L

SL(Qué) = Sunday Lake(Q)

SL(ont) = Sunday Lake(O)

MT = Martigny

MD = Martiniere

MC = Martiniere

INVOICE 1338

Cyprus Canada Inc.  
 66, Bruce Ave., Box 1120  
 South Porcupine (Ontario)  
 P0N 1H0

February 15, 1997

GST 89895 4896  
 PST 10175 04424

Att: Blair Needhan

SURFACE DIAMOND DRILLING    BO    FEBRUARY 01-15/1997

DRILL NO. 07

Hole no. MD-97-01

From 0,00 to 15,00 = 15,00m casing x 59,35 =	890,25
From 15,00 to 30,00 = 15,00m casing x 65,30 =	979,50
From 30,00 to 45,00 = 15,00m casing x 75,10 =	1 126,50
From 45,00 to 51,00 = 6,00m casing at costs	
From 51,00 to 109,00 = 58,00m coring x 59,35 =	3 442,30

Martiniere D

\$ 6438.55

Hole no. SL-97-01

From 0,00 to 9,00 = 9,00m casing x 59,35 =	534,15
From 9,00 to 150,00 = 141,00m coring x 59,35 =	8 368,35
From 150,00 to 175,00 = 25,00m coring x 63,50 =	1 587,50

Sunday Lake(Qué)

\$ 10490.00

7% GST  
 6,5% PST

\$ 16 928,55  
 1 185,00  
 1 177,38  
 \$ 19 290,93

ANALYSES:

MD-97-01 : Acid test at 100m  
 SL-97-01 : Acid test at 100m 175m

MD = \$ 55.00  
 SL(ONT) = \$ 110.00

3 Acid test x 55,00 = 165,00

7% GST  
 6,5% PST

\$ 165,00  
 11,55  
 11,48  
 \$ 188,03

MAR 07 1997

Page 002  
No. 1338

CON'T

OPERATING FIELD COSTS:

Feb. 04 : 36 man h	Set-up: to cut pad	) Martiniere \$3150.5
Feb. 05 : 50 man h	Set-up: to cut pad, move & install drill	
Feb. 06 : 15 man h	To finish to move drill	
Feb. 07 : 8 man h	To drill casing of hole MD-97-01	
: 4 drill h	Idem	) Sunday Lake Quebec 240 hours = 5880 Sunday Quebec
: 16 man h	To cut one pad	
Feb. 08 : 20 man h	To do set-up for next hole	) Sunday L Ontario 58 hours = 142
Feb. 09 : 20 man h	To finish set-up for next hole	
Feb. 10 : 56 man h	To move the drill	
Feb. 11 : 66 man h	To finish to move drill, to install waterline	
Feb. 12 : 20 man h	To do set-up for next hole	
Feb. 13 : 20 man h	To finish set-up for next hole	
Feb. 14 : 38 man h	To move the drill	
Feb. 15 : 8 man h	To finish to move drill	
: 50 man h	Helicopter was broken, stand-by	

423 man h	x 24,50 =	10 363,50
4 drill h	x 22,00 =	88,00

7% GST  
6,5% PST

\$ 10 451,50  
731,61  
726,90  
\$ 11 910,01

MATERIAL LEFT IN HOLE:

MD-97-01 : 1 NQ clean out bit	x 225,00 =	225,00
: 1 20 kg of mud	x 134,00 =	134,00

Martiniere D  
\$ 394,90

15% Service Charge  
7% GST  
6,5% PST

\$ 359,00  
35,90  
27,64  
27,47  
\$ 6 618,03

MISCELLANEOUS:

205 litres of gaz	130,00
Mobilization, as per agreement	5 475,00
Monthly rental of core shack (Feb.)	750,00
Monthly rental of office (Feb.)	450,00
Room & board for 4 persons while 15 days at 37,50 each	2 250,00

SL Que. \$684  
SL Ont \$548  
MT 71862  
NC 71167  
MD 71214  
SL Que \$150  
SL Ont \$120  
MT 2477  
NC 256  
MD 266  
SL Que \$900  
Martiniere D \$1350

CON'T

MISCELLANEOUS:

	\$ 9 055,00
7% GST	633,85
6,5% PST	629,78
	<u>\$ 10 318,63</u>

Contract no. H1224  
Footage drilled 932'  
Meters drilled 284,00m

<b>SUMMARY</b>	
Invoiced	\$ 36 959,05
10% Service charge	35,90
7% GST	2 589,65
8% PST	2 573,01
TOTAL.....	<u>\$ 42 157,61</u>

*\$ 37,164.96*  
*2,403.00*

*8220 6008 BN*  
*8220 6012 BN.*

REFERENCE #		VENDOR #	
ACCOUNT		AMOUNT	
G.L.	PROJECT		
1290	G.S.I.		
TOTAL			
APPROVED:		CHECKED:	
BRUCE D. JEFFERY		SHERRY FAULKNER	

MAR 10 1997

Page 00  
No. 133

CON'T

MISCELLANEOUS:

	\$ 9 055,00
7% GST	633,85
6,5% PST	629,78
	<u>\$ 10 318,63</u>

Contract no. H1224  
 Footage drilled 932'  
 Meters drilled 284,00m

<b>SUMMARY</b>	
Invoiced	\$ 36 959,05
10% Service charge	35,90
7% GST	2 589,65
8% PST	2 573,01
<b>TOTAL.....</b>	<u><b>\$ 42 157,61</b></u>

REFERENCE #		VENDOR #	
ACCOUNT		AMOUNT	
G.L.	PROJECT		
1290	G.S.T.	2,589	65
8220	6008	37,164	96
8220	6012	2,403	00
<b>TOTAL</b>	March 10 1997	<b>42,157</b>	<b>61</b>
APPROVED: <i>R. Jeffrey</i>		CHECKED: <i>Sherry</i>	
		SHERRY FAULKNER	

**GLENTEL**

MAR 25 1997



Account Number: 300000087  
Account Name: Cyprus Canada Incorporated

Billing Date: Mar 13, 1997  
Page: 1 of 11

Cyprus Canada Incorporated  
66 Bruce Avenue  
P.O. Box 1120  
South Porcupine, ON P0N 1H0

**What's New!**

For as little as \$199 per month and \$1.99 per minute you can rent a Westinghouse or Mitsubishi satellite telephone. A limited supply of fax boxes are now available for an additional \$150 per month. Call 1-800-GLENTEL for details.

**Statement of Account**

Balance Information	
Previous Balance	267.84
Payment Received	267.84
Adjustments	0.00
Balance after Payments and Adjustments	0.00
Current Billing	4,150.15
Total Taxes	622.53

**Total Amount Due: \$ 4,772.68**

**Due Date: Apr 12, 1997**

**Questions? Comments?**

Call 1-800-700-0017 between 6:30 am and 5:00 pm PST for any questions you have about your statement.

**Moving? Changing Banks?**

Our operators are standing by to update your account with all your current information. Call us now at 1-800-700-0017.

Note: Please make your cheque payable to Gintel Inc. Payable at most financial institutions.

Martigny A 8240 6008  
8240 6012  
Customer Copy

GST.  
\$ 3140.42 - 20% = 2936.87  
\$ 1632.26 - 86.97 = 1545.29

GST Registration Number: R102109451

GLENTEL INC.  
P.O. Box 80650  
Burnaby, B.C.  
V5H 3Y1

Account Number: 300000087  
Billing Date: Mar 13, 1997  
Due Date: Apr 12, 1997

Cyprus Canada Incorporated  
66 Bruce Avenue  
P.O. Box 1120  
South Porcupine, ON P0N 1H0

Amount Due: \$ 4,772.68

Amount Paid: 4,772.68

\* 2936.87 subdivided as follows  
Sunday L. (Ont) 15% = \$ 440.53  
Sunday L. (Que) 19.1% = \$ 560.94  
Martiniere C 32.25% = \$ 947.14  
Martiniere D 33.66% = \$ 988.55



LTEE  
LTD

C.P. 188 - 341, rte 111 Ouest  
LA SARRÉ (Québec) Canada J0Z 2X5  
Tél: (819) 333-4047 Fax: (819) 333-9894

JAN 20 1997

888 435 4224

*Val d'Or Geophysical.*

FACTURE - INVOICE	
DATE	N°
97/01/08	FAA- 473

ENDU A - SOLD TO

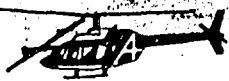
CYPRUS CANADA INC.  
66 Bruce Avenue  
Box 1120  
South Porcupine, Ont  
PON 1H0

N° T.P.S. (G.S.T.): 140635699  
N° T.V.Q. (Q.S.T.): 1017793221TQ0001  
N° CONTRAT:  
CONTRACT NO: A-302  
N° CLIENT:  
CUSTOMER NO: 306

DATE	REFERENCE	DESCRIPTION	HRS	TAUX/RATE	TPS/TVQ GST/OST	MONTANT/AMOUNT
97.01.08	20198	AIRCRAFT: C-GRYS 206L Flight time Fuel Jet-B 4.0 hrs x 125L x 1.00 Room and meals	4.00	760.00		3040.00 500.00 13.00
<p><i>Linecutting camps mob/demob (#4048.82)</i></p> <p><i>Sunday Lake (Ont) - 68.4% based on kilometres cut. = \$ 2769.39</i></p> <p><i>Sunday Lake (Que) - 31.6% based on kilometres cut = \$ 1279.43</i></p> <p><i>8300-6008 DN</i></p>						
REFERENCE #		VENDOR #				
ACCOUNT		AMOUNT				
G.L.	PROJECT					
1290	G.S.T.		248	71		
8300	6008		3,800	11		
TOTAL		Jan 28 1997		4,048		82
APPROVED: <i>[Signature]</i>		CHECKED: <i>[Signature]</i>				
BRUCE D. JEFFERY		SHERRY FAULKNER				
Total de vol/Flight time			4.0			
S-TOTAL / SUB-TOTAL		TPS - GST		TVQ - PST		TOTAL
3 53.00		248.71		247.11		4048.82

CLIENT - CUSTOMER

par/Prepared by: YMELANCON



LES HELICOPTERES  
**ABITIBI**  
HELICOPTERS

LTEE

LTD

C.P. 188 - 341, rue 1<sup>re</sup> Ouest  
LA SARRE (Québec) Canada J5Z 2X5

Tél.: (819) 333-4047 Fax: (819) 333-9894

MAR 10 1997

VENDU À - SOLD TO

CYPRUS CANADA INC.  
66 Bruce Avenue  
Box 1120  
South Porcupine, Ont  
PON 1H0

**FACTURE - INVOICE**  
DATE: 97/02/28  
N°: FAA- 4  
N° TPS (G.S.T.) 140635699  
N° TVQ (Q.S.T.) 1017793221100  
N° CONTRAT: A-310  
CONTRACT NO:  
N° CLIENT: 30  
CUSTOMER NO:

DATE	REFERENCE	DESCRIPTION	HRS	TAUX/RATE	TPS/TVQ GST/QST	MONTANT/AMT
APPAREIL: C-FHAJ 350D						
97.02.16	21205	Flight time	4.20	765.00		3213.
97.02.17	21206	Flight time	1.90	765.00		1453.
97.02.18	21207	Flight time	2.30	765.00		1759.
97.02.19	21208	Flight time	4.40	765.00		3366.
97.02.20	21209	Flight time	6.20	765.00		4743.
97.02.21	21210	Flight time	6.60	765.00		5049.
97.02.22	21211	Flight time	6.50	765.00		4972.
97.02.23	21212	Flight time	2.60	765.00		1989.
97.02.24	21213	Flight time	0.60	765.00		459.
97.02.24	20869	Flight time	3.70	765.00		2830.
97.02.25	20870	Flight time	5.90	765.00		4513.
97.02.26	20871	Flight time	3.00	765.00		2295.
97.02.27	20872	Flight time	6.60	765.00		5049.
97.02.28	20873	Flight time	2.40	765.00		1836.

SL (CONT)

19 hours

\$14,535.1 tax

Martigny A

MI

37.9 hours =

\$28,993.50

PN 8220 6008 15,546.64  
8220 6012 31,009.27

REFERENCE #		VENDOR #	
ACCOUNT		AMOUNT	
G.L.	PROJECT		
1290	G.S.T.	3,047	02
8220	6008	15,546	64
8220	6012	31,009	27
TOTAL		49,602	93
APPROVED: <i>[Signature]</i>		CHECKED: <i>[Signature]</i>	
BRUCE D. JEFFERY		SHERRY FAULKNER	

Total de vol/Flight time 56.9

SOUS-TOTAL / SUB-TOTAL	TPS - GST	TVQ - PST	TOTAL
43528.50	3047.02	3027.41	49602.93

CLIENT - CUSTOMER

Préparé par/Prepared by: YMELANCON

16.96%

46,555.91



LES HELICOPTERES  
**ABITIBI**  
 HELICOPTERS

LTEE

LTD

C.P. 188 - 341, rte 111 Ouest  
 LA SARRE (Québec) Canada J9Z 2X5

Tél.: (819) 333-4047 Fax: (819) 333-9894

MAR 25 1997

FACTURE - INVOICE

DATE N°

97/03/13 FAA- 496

VENDU À - SOLD TO

CYPRUS CANADA INC.  
 66 Bruce Avenue  
 Box 1120  
 South Porcupine, Ont  
 PON 1H0

N° TPS (G.S.T.): 140635699  
 N° T.V.Q (Q.S.T.) 1017793221TQ0001

N° CONTRAT  
 CONTRACT NO A-310

N° CLIENT  
 CUSTOMER NO 306

DATE	REFERENCE	DESCRIPTION	HRS	TAUX/RATE	TPS/TVO GST/PST	MONTANT/AMOUNT
		AIRCRAFTS: C-FHAJ 350D C-GHSL 350D				
97.03.01	20874	Flight time Martigny A 13.1 hours	3.10	765.00		2371.50
97.03.02	20875	Flight time = #10,021.5	2.50	765.00		1912.50
97.03.03	21652	Flight time	7.50	765.00		5737.50
97.03.04	21653	Flight time Martiniere C	4.30	765.00		3289.50
97.03.05	21654	Flight time 17.6 hours = #13,464	2.50	765.00		1912.50
97.03.06	21655	Flight time	2.10	765.00		1606.50
97.03.07	21656	Flight time	3.50	765.00		2677.50
97.03.08	21657	Flight time	5.20	765.00		3978.00
97.03.09	21658	Flight time Martiniere D	1.80	765.00		1377.00
97.03.10	21659	Flight time 21 hours = #16,065	1.10	765.00		841.50
97.03.11	21660	Flight time	7.10	765.00		5431.50
97.03.12	21661	Flight time	9.60	765.00		7344.00
97.03.13	21662	Flight time	1.40	765.00		1071.00

REFERENCE #		VENDOR #	
ACCOUNT		AMOUNT	
G.L.	PROJECT		
1290	G.S.T.		

REFERENCE #		VENDOR #	
ACCOUNT		AMOUNT	
G.L.	PROJECT		
1290	G.S.T.		
8220	6012	2,768	58
8220	6008	10,719	00
		31,582	24
TOTAL		45,081	82
APPROVED: <i>[Signature]</i>		CHECKED: <i>[Signature]</i>	
SHERIDAN JEFFERY		SHERIDAN JEFFERY	

Total de vol/Flight time 51.7

SOUS-TOTAL / SUB-TOTAL	TPS - GST	TVO - PST	TOTAL
39550.50	2768.58	2750.74	45069.8

LF-582

CLIENT - CUSTOMER

Préparé par/Prepared by: YMELANCON







# LES HELICOPTERES ABITIBI HELICOPTERS

LTEE  
LTD

C.P. 188 - 341, rue 111 Ouest  
LA SARRE (Québec) Canada J4Z 2X5

Tél.: (819) 333-4047 Fax: (819) 333-9894

FEB 26 1997

FACTURE - INVOICE	
DATE	N°
97/02/15	FAA- 48

VENDU A - SOLD TO

CYPRUS CANADA INC.  
66 Bruce Avenue  
Box 1120  
South Porcupine, Ont  
PON 1H0

N° T.P.S. (G.S.T.): 140635699  
N° T.V.O. (Q.S.T.): 1017793221TQ000

N° CONTRAT  
CONTRACT NO. A-310

N° CLIENT  
CUSTOMER NO: 306

DATE	REFERENCE	DESCRIPTION	HRS	TAUX/RATE	TPS/TVO GST/PST	MONTANT/AMOU
		AIRCRAFTS: C-GHSL 350D C-FHAJ 350D				
97.02.01	20465	Flight time	3.00	765.00		2295.00
97.02.02	20466	Flight time	3.30	765.00		2524.50
97.02.03	20467	Flight time	2.00	765.00		1530.00
97.02.04	20468	Flight time	4.50	765.00		3442.50
97.02.05	20469	Flight time	6.80	765.00		5202.00
97.02.06	20470	Flight time	8.30	765.00		6349.50
97.02.07	20471	Flight time	4.20	765.00		3213.00
97.02.08	20472	Flight time	4.90	765.00		3748.50
97.02.09	20473	Flight time	3.00	765.00		2295.00
97.02.10	20474	Flight time	6.80	765.00		5049.00
97.02.11	20475	Flight time	7.60	765.00		5814.00
97.02.12	21201	Flight time	7.30	765.00		5584.50
97.02.13	21202	Flight time	5.60	765.00		4284.00
97.02.14	21203	Flight time	3.00	765.00		2295.00
97.02.15	21204	Flight time	1.30	765.00		994.50
		<b>Total de vol/Flight time</b>	<b>71.4</b>			
SOUS-TOTAL / SUB-TOTAL		TPS - GST	TVO - PST		TOTAL	
54621.00		3823.50	3798.90		62243.40	

97.02.01 20465 Flight time 3.00 765.00 2295.00  
 97.02.02 20466 Flight time 3.30 765.00 2524.50  
 97.02.03 20467 Flight time 2.00 765.00 1530.00  
 97.02.04 20468 Flight time 4.50 765.00 3442.50  
 97.02.05 20469 Flight time 6.80 765.00 5202.00  
 97.02.06 20470 Flight time 8.30 765.00 6349.50  
 97.02.07 20471 Flight time 4.20 765.00 3213.00  
 97.02.08 20472 Flight time 4.90 765.00 3748.50  
 97.02.09 20473 Flight time 3.00 765.00 2295.00  
 97.02.10 20474 Flight time 6.80 765.00 5049.00  
 97.02.11 20475 Flight time 7.60 765.00 5814.00  
 97.02.12 21201 Flight time 7.30 765.00 5584.50  
 97.02.13 21202 Flight time 5.60 765.00 4284.00  
 97.02.14 21203 Flight time 3.00 765.00 2295.00  
 97.02.15 21204 Flight time 1.30 765.00 994.50

Sunday Lake (Ontario) - geophy. 3.6 hours = \$3505.94  
 Sunday Lake (Que) - geophy 3.1 hours = \$2344.88  
 Martigny A - geophy 1.8 hours = \$6615.  
 Martiniere D - drilling 8.9 hours = \$14,458.5  
 Sunday Lake (Que) drilling 10.5 hours = \$23,791.5  
 Sunday Lake (Ont) drilling 1.3 hours = \$994.5

REFERENCE #	VENDOR #	ACCOUNT	AMOUNT
1290		G.S.T.	3,823.50
8300		6012	7,304.57
8300		6008	7,612.93
8220		6008	43,502.40
TOTAL			62,243.40
APPROVED: BRUCE D. JEFFERY		CHECKED: SHERRY FAULKNER	

7,304.57 8300-6012  
 7,612.93 8300-6008  
 43,502.40  
 47,325.5 8220-6008





LES HELICOPTERES  
**ABITIBI**  
HELICOPTERS

LTEE

LTD

C.P. 188 - 341, de 111 Oue  
LA SARRE (Québec) Canada J9Z 2X5

Tél: (819) 333-4047 Fax: (819) 333-9894

**FEB 07 1997**

VENDU À - SOLD TO

CYPRUS CANADA INC.  
66 Bruce Avenue  
Box 1120  
South Porcupine, Ont  
PON 1H0

**FACTURE - INVOICE**  
DATE: 97/01/27 N°: FAA- 47  
N° TPS (G.S.T.): 140635699  
N° T.V.Q. (Q.S.T.): 1017793221T000  
N° CONTRAT: A-311  
CONTRACT NO:  
N° CLIENT: 306  
CUSTOMER NO:

DATE	REFERENCE	DESCRIPTION	HRS	TAUX/RATE	TPS/TVO GST/OST	MONTANT/AMOI																								
97.01.27	20852	AIRCRAFT: C-FNJY 350BA Flight time Fuel Jet-B as per fuel report Room and meals	4.10	925.00		3792. 566. 13.																								
<p><i>Linecutting camps mob/demob. (\$4981.91)</i>  <i>Sunday Lake (Quebec) - 68.4% = \$3407.63 &amp; 300 - 6008.</i>  <i>Sunday Lake (Ontario) - 31.6% = \$1574.28</i></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">REFERENCE #</th> <th colspan="2">VENDOR #</th> </tr> <tr> <th colspan="2">ACCOUNT</th> <th colspan="2">AMOUNT</th> </tr> <tr> <th>G.L.</th> <th>PROJECT</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1290</td> <td>G.S.T.</td> <td></td> <td>306 03</td> </tr> <tr> <td>8300</td> <td>6008</td> <td></td> <td>4,675 88</td> </tr> <tr> <td>TOTAL</td> <td>Feb 12/97</td> <td></td> <td>4,981 91</td> </tr> </tbody> </table> <p>APPROVED: <i>B. Jeffrey</i> CHECKED: <i>BBB</i> COPY FAULKNER</p>							REFERENCE #		VENDOR #		ACCOUNT		AMOUNT		G.L.	PROJECT			1290	G.S.T.		306 03	8300	6008		4,675 88	TOTAL	Feb 12/97		4,981 91
REFERENCE #		VENDOR #																												
ACCOUNT		AMOUNT																												
G.L.	PROJECT																													
1290	G.S.T.		306 03																											
8300	6008		4,675 88																											
TOTAL	Feb 12/97		4,981 91																											
Total de vol/Flight time			4.1																											
SOUS-TOTAL / SUB-TOTAL		TPS - GST	TVO - PST		TOTAL																									
4371.82		306.03	304.06		4981.91																									

LF-582

CLIENT - CUSTOMER

Préparé par/Prepared by: YMELANCON

**GLENTEL**

**MAR 25 1997**



Account Number: 300000087  
Account Name: Cyprus Canada Incorporated

Billing Date: Mar 13, 1997  
Page: 1 of 11

Cyprus Canada Incorporated  
66 Bruce Avenue  
P.O. Box 1120  
South Porcupine, ON P0N 1H0

**What's New!**

For as little as \$199 per month and \$1.99 per minute you can rent a Westinghouse or Mitsubishi satellite telephone. A limited supply of fax boxes are now available for an additional \$150 per month. Call 1-800-GLENTEL for details.

**Statement of Account**

Balance Information	
Previous Balance	267.84
Payment Received	267.84
Adjustments	0.00
Balance after Payments and Adjustments	0.00
Current Billing	4,150.15
Total Taxes	622.53

**Total Amount Due: \$ 4,772.68**

**Due Date: Apr 12, 1997**

**Questions? Comments?**

Call 1-800-700-0017 between 6:30 am and 5:00 pm PST for any questions you have about your statement.

**Moving? Changing Banks?**

Our operators are standing by to update your account with all your current information. Call us now at 1-800-700-0017.

Note: Please make your cheque payable to Glentel Inc. **Payable at most financial institutions.**

8240 6008  
Martigny A 8240 6012

Customer Copy

GST Registration Number: R102109451

GST.  
\$ 3140.42 - 20% GST = 2936.87 \* See bel.  
\$ 1632.26 - 86.97 = 1545.29

**GLENTEL INC.**  
P.O. Box 80650  
Burnaby, B.C.  
V5H 3Y1

Account Number: 300000087

Billing Date: Mar 13, 1997

Due Date: Apr 12, 1997

Amount Due: **\$ 4,772.68**

Amount Paid: **4,772.68**

Cyprus Canada Incorporated  
66 Bruce Avenue  
P.O. Box 1120  
South Porcupine, ON P0N 1H0

\* 2936.87 subdivided as follows  
Sandy L. (Ont) 15% = \$ 440.53  
Sandy L. (Que) 19.1% = \$ 560.94  
Martiniere C 32.25% = \$ 947.14  
Martiniere D 33.66% = \$ 988.55

Personal informal Mining Act, the in Questions about 933 Ramsey Lak



32L04SE0009 2.17530 SUNDAY LAKE

and 66(3) of the Mining Act. Under section 8 of the ent work and correspond with the mining land holder, of Northern Development and Mines, 6th Floor,

900

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240. - Please type or print in ink.

2.17530

1. Recorded holder(s) (Attach a list if necessary)

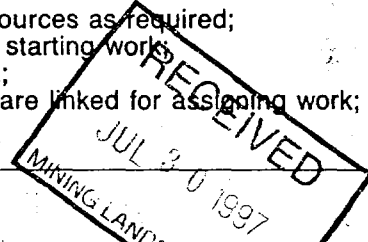
Form with fields for Name, Address, Client Number, Telephone Number, Fax Number for Cyprus Canada Inc.

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs) Physical: drilling, stripping, trenching and associated assays Rehabilitation

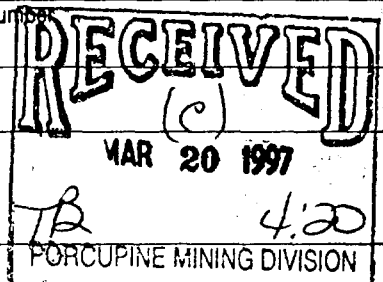
Form with fields for Work Type (Linecutting, Ground Mag, IP), Dates Work Performed, Township/Area (Sunday Lake), Mining Division (Porcupine), Resident Geologist (Timmins).

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assaying work; - include two copies of your technical report.



3. Person or companies who prepared the technical report (Attach a list if necessary)

Form with fields for Name, Address, Telephone Number, Fax Number for Blair Needham and Mark Ben.



4. Certification by Recorded Holder or Agent

I, Blair Needham, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

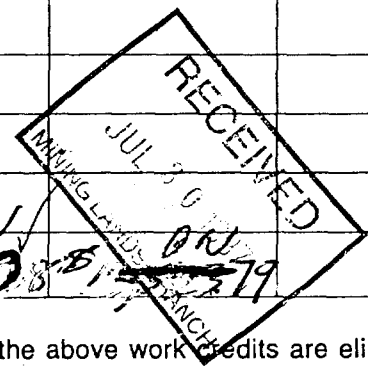
Form with fields for Signature of Recorded Holder or Agent, Date (Mar 19, 97), Agent's Address, Telephone Number, Fax Number.

5. Work to be recorded and distributed. Work can only be assigned to claims (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form. W. 9760-00219

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 1202714	16	4742 <sup>BN</sup>	4742 <sup>BN</sup>		
2 1202716	12	3556 <sup>BN</sup>	3556 <sup>BN</sup>		
3 1202718	16	4742 <sup>BN</sup>	4742 <sup>BN</sup>		
4 1202717	12	3556 <sup>BN</sup>	3556 <sup>BN</sup>		
5 1202715	16	4742 <sup>BN</sup>	4742 <sup>BN</sup>		
6 1202720	16	4742 <sup>BN</sup>	4742 <sup>BN</sup>		
7					
8					
9					
10					
11					
12					
13					
14					
15					

2.17530

Column Totals \$26,080<sup>BN</sup> \$26,080<sup>BN</sup>



I, Blair Needham (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: Mar 19, 97

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Please cut back starting with claims listed last working backwards:  
 1) 1202716 4) 1202715 7) 1202717 10) 1200000  
 2) 1202714 5) 1202720 8) 1202688 11) 1202689  
 3) 1202690 6) 1205459 9) 1202718 12) 1202728 13) 1205458

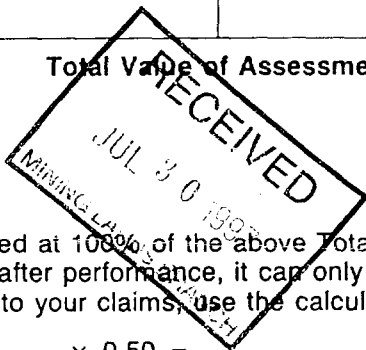
Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only Received Stamp	<b>RECEIVED</b> (c) MAR 20 1997 TB 4:20	Deemed Approved Date	Date Notification Sent
		Date Approved	Total Value of Credit Approved
		Approved for Recording by Mining Recorder (Signature)	

9760.00220

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
Diamond Drilling	3 138 metres, 56 samples	\$120.58	\$16,639.80
Linecutting	15.6 km	\$325/km	\$5070.00
Geophysics mag	15.6 km	\$95/km	\$1482.00
IP	9.55 km	\$745/km	47114.75
Cyprus Supervision			\$3103.37
Associated Costs (e.g. supplies, mobilization and demobilization).			
Field supplies			\$706.80
Travel			\$172.50
Geophysics mob/demob (camp)			1226.75
Transportation Costs	linecutting		\$6140.73
	geophysics		\$5045.94
	drilling		\$23,791.50
Food and Lodging Costs			
2.17530			
Total Value of Assessment Work			\$70,494.14



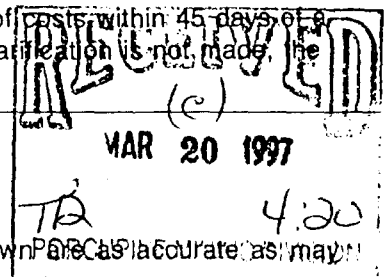
Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK  $\times 0.50 =$  Total \$ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.



Certification verifying costs:

I, B Needham (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Senior Geologist I am authorized (recorded holder, agent, or staff company position with signing authority) to make this certification.

Signature: B Needham Date: Mar 19, 97



Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) W.9760.00220 Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240. - Please type or print in ink.

2.17530

1. Recorded holder(s) (Attach a list if necessary)

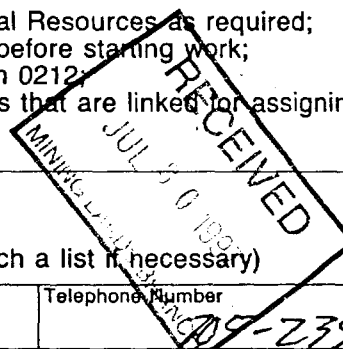
Name: Cyprus Canada Inc, Client Number: 123286, Address: 66 Bruce Ave Box 1120, Telephone Number: 705-235-5800, South Porcupine, Ontario P0N1H0, Fax Number: 705-235-5700

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs) [ ] Physical: drilling, stripping, trenching and associated assays [X] Rehabilitation [ ]

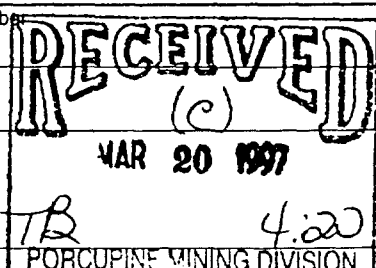
Work Type: Diamond Drilling, Office Use, Commodity, Total \$ Value of Work Claimed: 44,412.00, Dates Work Performed: From 15 02 97 To 20 02 97, NTS Reference, Global Positioning System Data, Township/Area: Sunday Lake, Mining Division: Porcupine, M. or G-Plan Number: 6-1677, Resident Geologist District: Timmins

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report.



3. Person or companies who prepared the technical report (Attach a list if necessary)

Name: Blair Needham, Telephone Number: 705-235-5128, Address: 1209 David Ave, Box 16 S. Porcupine Ont P0N1H0, Fax Number, Name: Mark Ben, Telephone Number: 705-264-1708, Address: 250, 8th Ave, Timmins, Ont P4N5S2, Fax Number



4. Certification by Recorded Holder or Agent

I, BLAIR NEEDHAM, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: [Signature], Date: Mar 19, 97, Agent's Address: 66 Bruce Ave Box 1120 S. Porcupine, Telephone Number: 705-235-5800, Fax Number: 705-235-5700

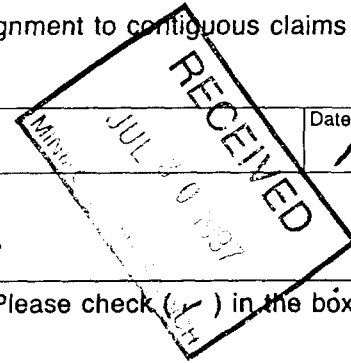
5. Work to be recorded and assigned to claims that are being... the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W. 9760-00330

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 1202716	12	\$16,639 (Drill) BN	\$2,000 BN	\$5303 BN	9,336
2 1202716	12	\$3103 (S, P, etc) BN	-	\$3,103 BN	
3 1202716	12	\$23,791 (Heliport) BN	-	\$23,791 BN	
4 1202716	12	\$879 (Misc) BN	-	\$879 BN	
5 1202689	16		\$400 x		
6 1202688	16		\$400 x		
7 1200000	4		1600 x		
8 1205459	3		1200 x		
9 1202690	16		6400 x 2		
10 1202714	16		1658 x		
11 1202715	16		1658 x		
12 1202718	16		1658 x		
13 1202717	12		1244 x		
14 1202720	16		1658 x		
15 1205458	4		1600 x		
16 1202728	4		1600 x		
Column Totals		44412	35076	33,016	9336

I, Blair Needham, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: B Needham Date: Mar 19, 97



6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (x) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Please cut back starting with claims listed last working backwards:  
 1) 1202714 4) 1202720 7) 1202688 10) 1202689  
 2) 1202690 5) 1205459 8) 1202718 11) 1202728  
 3) 1202715 6) 1202717 9) 1200000 12) 1205458

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	



Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines



Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9846  
Fax: (705) 670-5863

August 7, 1997

BLAIR NEEDHAM  
CYPRUS CANADA INC.  
66 BRUCE AVENUE  
BOX 1120  
SOUTH PORCUPINE, ONTARIO  
P0N-1H0

Dear Sir or Madam:

**Submission Number:** 2.17530

**Status**

**Subject: Transaction Number(s):** W9760.00219 Deemed Approval  
W9760.00220 Deemed Approval

---

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in **DUPLICATE** to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at [jerome\\_l@torv05.ndm.gov.on.ca](mailto:jerome_l@torv05.ndm.gov.on.ca) or by telephone at (705) 670-5858.

Yours sincerely,

A handwritten signature in black ink that reads "Blair Kite".

ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

---

**Submission Number:** 2.17530

**Date Correspondence Sent:** August 07, 1997

**Assessor:** Lucille Jerome

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9760.00219	1202714	SUNDAY LAKE	Deemed Approval	June 18, 1997

**Section:**

14 Geophysical IP  
14 Geophysical MAG

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9760.00220	1202716	SUNDAY LAKE	Deemed Approval	June 18, 1997

**Section:**

10 Physical PDRILL

**Correspondence to:**

Resident Geologist  
South Porcupine, ON

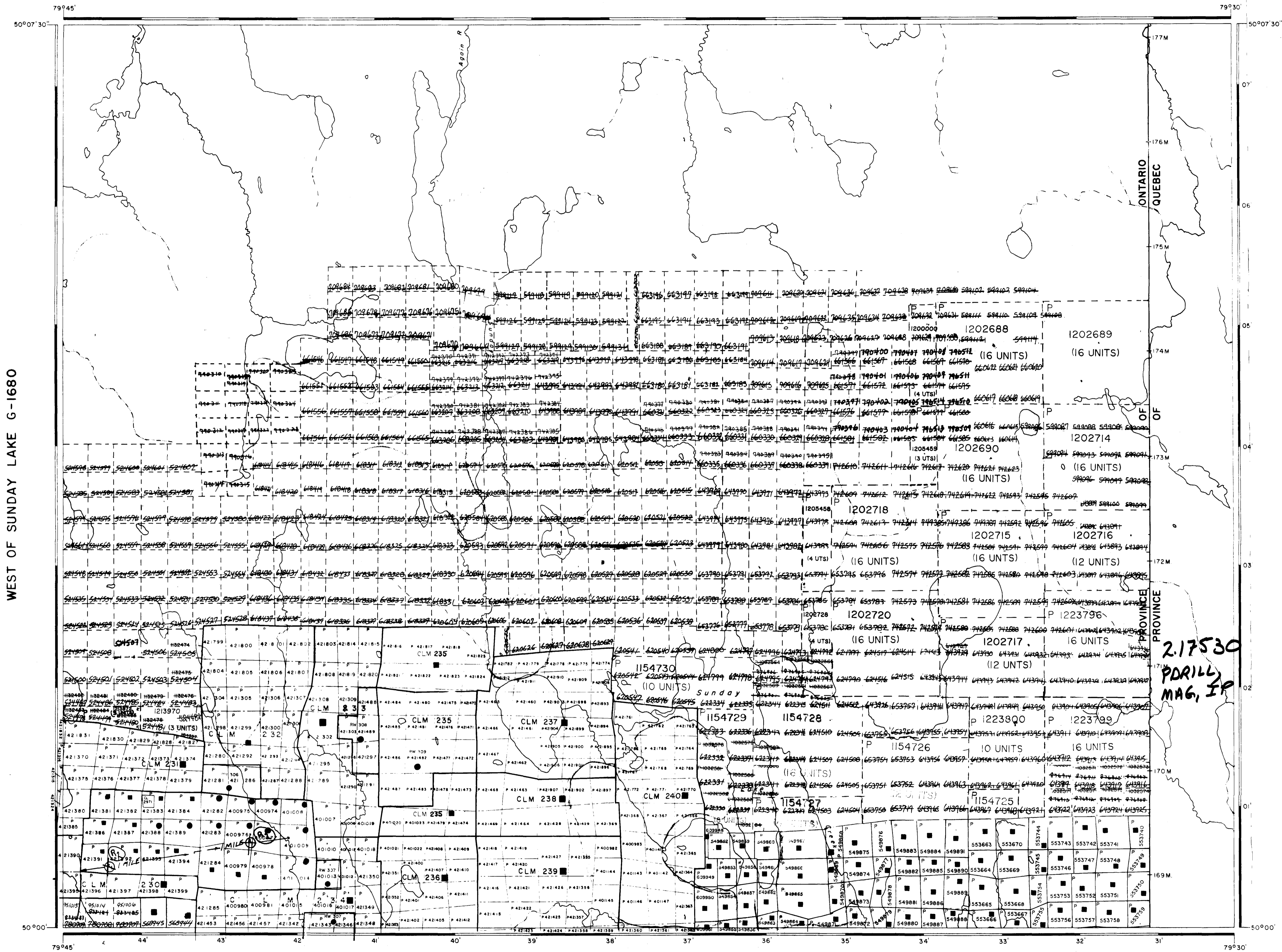
**Recorded Holder(s) and/or Agent(s):**

BLAIR NEEDHAM  
CYPRUS CANADA INC.  
SOUTH PORCUPINE, ONTARIO

Assessment Files Library  
Sudbury, ON

---

SOUTH PART AGAIN RIVER G-1670



REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY  
 S.R.O. - SURFACE RIGHTS ONLY  
 M. + S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
(R2)	N.R.W./81	15/1/81	SR	100511
	NRO 27/85	22/7/85	SR0	

THIS TOWNSHIP IS SUBJECT TO FORESTRY OPERATIONS IN 1986/87 FURTHER INFORMATION ON FILE

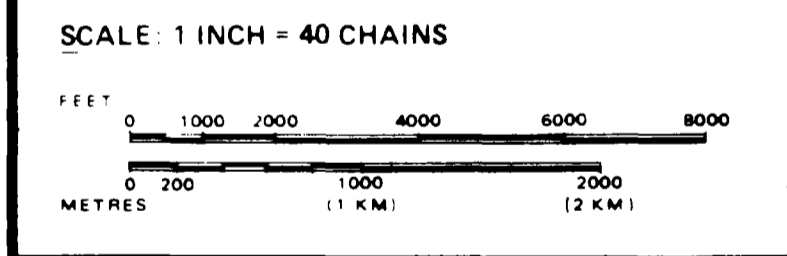
LEGEND

HIGHWAY AND ROUTE No	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, BASE LINES, ETC	
LOTS, MINING CLAIMS, PARCELS, ETC	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
... SURFACE RIGHTS ONLY	○
... MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	◑
... SURFACE RIGHTS ONLY	◒
... MINING RIGHTS ONLY	◓
LICENCE OF OCCUPATION	○
ORDER-IN-COUNCIL	◔
RESERVATION	◕
CANCELLED	◖
SAND & GRAVEL	◗

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP. 380, SEC. 63 SUBSEC 1



AREA

**SUNDAY LAKE**

M.N.R. ADMINISTRATIVE DISTRICT  
 COCHRANE

MINING DIVISION  
 PORCUPINE

LAND TITLES / REGISTRY DIVISION  
 COCHRANE

Ontario Ministry of Natural Resources Land Management Branch

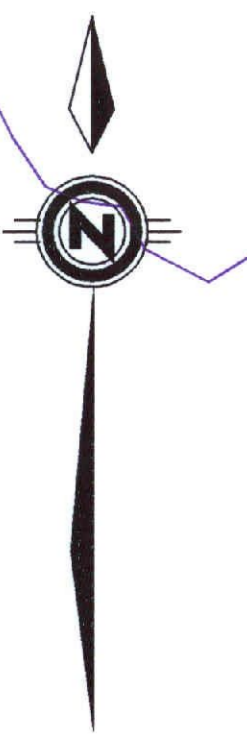
Date: DECEMBER 1982 Number: **G-1677**

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.







1205458

BL 0

1202720

1202717

LO 1

1600M

1800M

DETOUR SPLAY FAULT

602700E  
5545000N

VLF  
VLF  
VLF  
VLF

Note: 15.6km of linecutting and geophysics on the Sunday Lake (Ontario) property (i.e. 68% of total)

# SUNDAY LAKE (ONTARIO) (Southern Portion)

INTRUSIONS		MODIFIERS		SYMBOLS	
I4	GABRO	D3	DIVERGENT	V5	VENED
I4	MAFIC INTRUSION	F2	FAULT ZONE	VV3	NEARLY VENED
I5	MAFIC TO A TRAMIC INTRUSION	M2	MINERALIZED ZONE	VV2	MODERATELY VENED
I6	QUARTZ FELDSPAR PORPHYRY DYKE	BX	BRECCIA ZONE	DV3	STRONGLY VENED
I7	FELDSPAR PORPHYRY DYKE				
SEDIMENTARY ROCKS		VOLCANIC ROCKS		MINERALS AND ALTERATION	
S	SEDIMENT	V1	FELIC VOLCANIC	AN	ANKERITIZED
S3	SEDIMENT	V2	FELIC PHYLIC	BCH	BLANCKITIZED
S4	ARILLITE	V3	INTERMEDIATE VOLCANIC	CA	CALCITIZED
S40	ARILLITE	V4	INTERMEDIATE TO FELIC PHYLIC	CA	CALCITIZED
S8	CHERT	V7	MAFIC VOLCANIC	CP	COPPERITIZED
S8	ULTRINE	V8	MAFIC PHYLIC	FP	FERRUGINITIZED
S11	RODOLITE	V9	ULTRAMAFIC VOLCANIC	FR	FERRUGINITIZED
F2	DIKE FORMATION			PR	PIRITIZED
				SR	SILICIFIED
				SL	SILICIFIED

RECEIVED  
JUL 30 1997  
MINING LAB. TORONTO

1 2.17530

Map 1b

Cyprus Canada Inc.

SUNDAY LAKE ONTARIO PROPERTY  
(Southern Portion)  
Property Sketch and DDH Location Map

Drawn: B.N./M.H.	Checked: [ ]	Scale: 1:5,000	Drawing: SL-ONTSS.DWG
Date: November 1995	Revised: March 1997	Province: Ontario	NTS: 32E/16, L/1

0 125 250M

601000E

5542000N

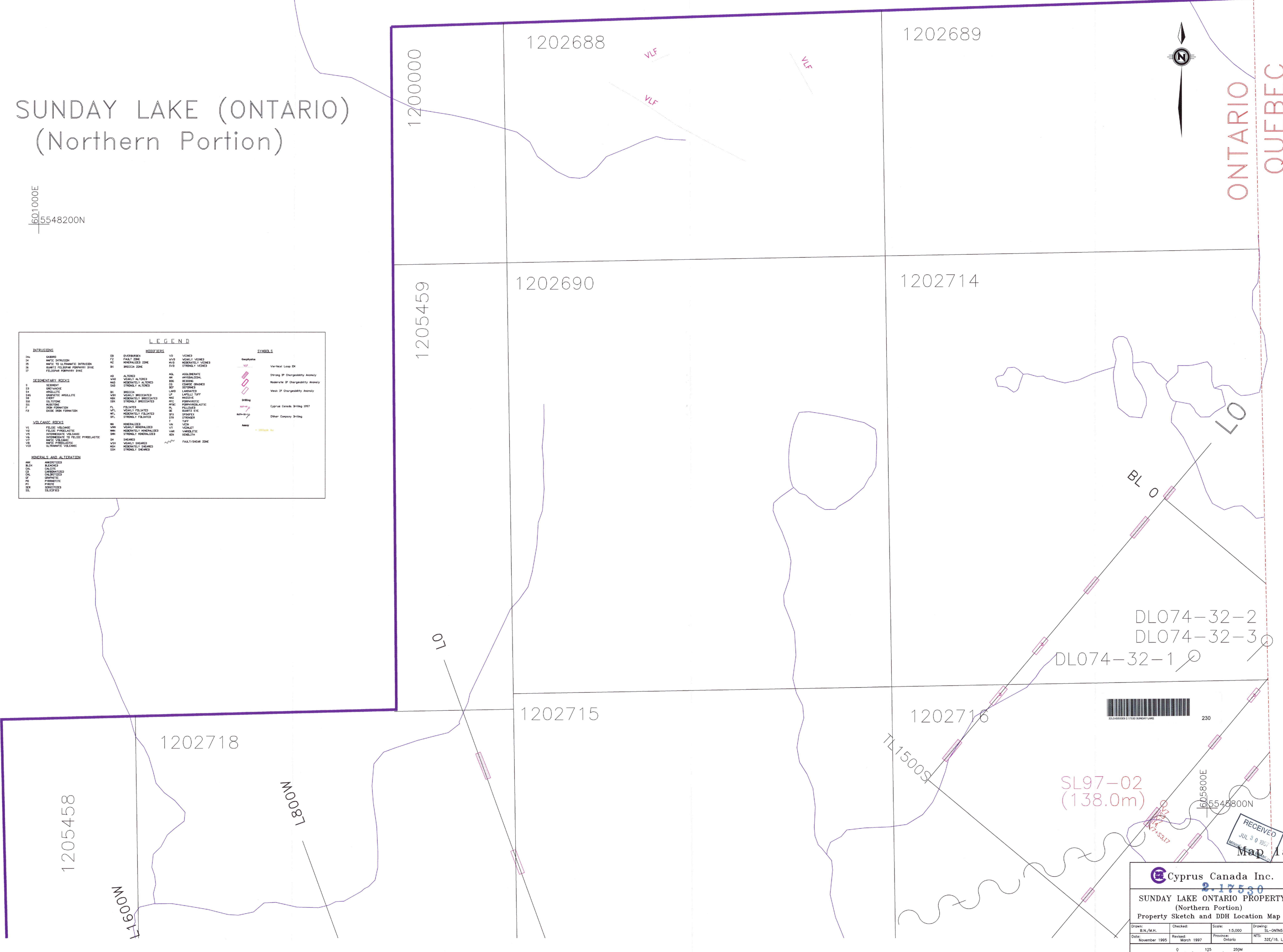
# SUNDAY LAKE (ONTARIO) (Northern Portion)

601000E  
65548200N

ONTARIO  
QUEBEC



LEGEND		
<b>INTRUSIONS</b>	<b>HORIFERS</b>	<b>SYMBOLS</b>
14a GABBRO	D3 OVERBURN	Geophysics
14 MAFIC INTRUSION	FZ FAULT ZONE	VLF Vertical Loop EM
15 MAFIC TO ULTRAMAFIC INTRUSION	KZ KILN ZONE	Strong IP Chargeability Anomaly
16 QUARTZ FELDSPAR PORPHYRY DYKE	K1 BRECCIA ZONE	Moderate IP Chargeability Anomaly
17 FELDSPAR PORPHYRY DYKE	K2 BRECCIA ZONE	Weak IP Chargeability Anomaly
<b>SEDIMENTARY ROCKS</b>		<b>Drilling</b>
S SEDIMENT	A0 ALTERED	CC-Cyprus Canada Drilling 1997
S3 GYPSUM	A10 WEAKLY ALTERED	Other Company Drilling
S4 ARGILLITE	A11 MODERATELY ALTERED	
S4S GRANITIC ARGILLITE	A12 STRONGLY ALTERED	
S5 CHERT	D6 BRECCIA	
S6 SILTSTONE	D7 WEAKLY BRECCIATED	
S8 MUDSTONE	D8 MODERATELY BRECCIATED	
F1 IRON FORMATION	D9 STRONGLY BRECCIATED	
F2 COKE IRON FORMATION	M1 FOLIATED	
	M2 WEAKLY FOLIATED	
	M3 MODERATELY FOLIATED	
	M4 STRONGLY FOLIATED	
<b>VOLCANIC ROCKS</b>		
V1 FELSIC VOLCANIC	M5 WEAKLY SHEARED	
V2 FELSIC PYROCLASTIC	M6 MODERATELY SHEARED	
V3 INTERMEDIATE VOLCANIC	M7 STRONGLY SHEARED	
V4 INTERMEDIATE TO FELSIC PYROCLASTIC	M8 WEAKLY SHEARED	
V5 MAFIC TO ULTRAMAFIC	M9 MODERATELY SHEARED	
V6 MAFIC PYROCLASTIC	M10 STRONGLY SHEARED	
V7 ULTRAMAFIC		
<b>MINERALS AND ALTERATION</b>		
AK ARKATISITE		
BLCH BLEACHED		
CL CALCITE		
CR CARBONATIZED		
CS CALCIFIED		
OP OPHANITIC		
PI PYRITIC		
SP SERPENTINIZED		
SL SULFIDIZED		



SL97-02  
(138.0m)

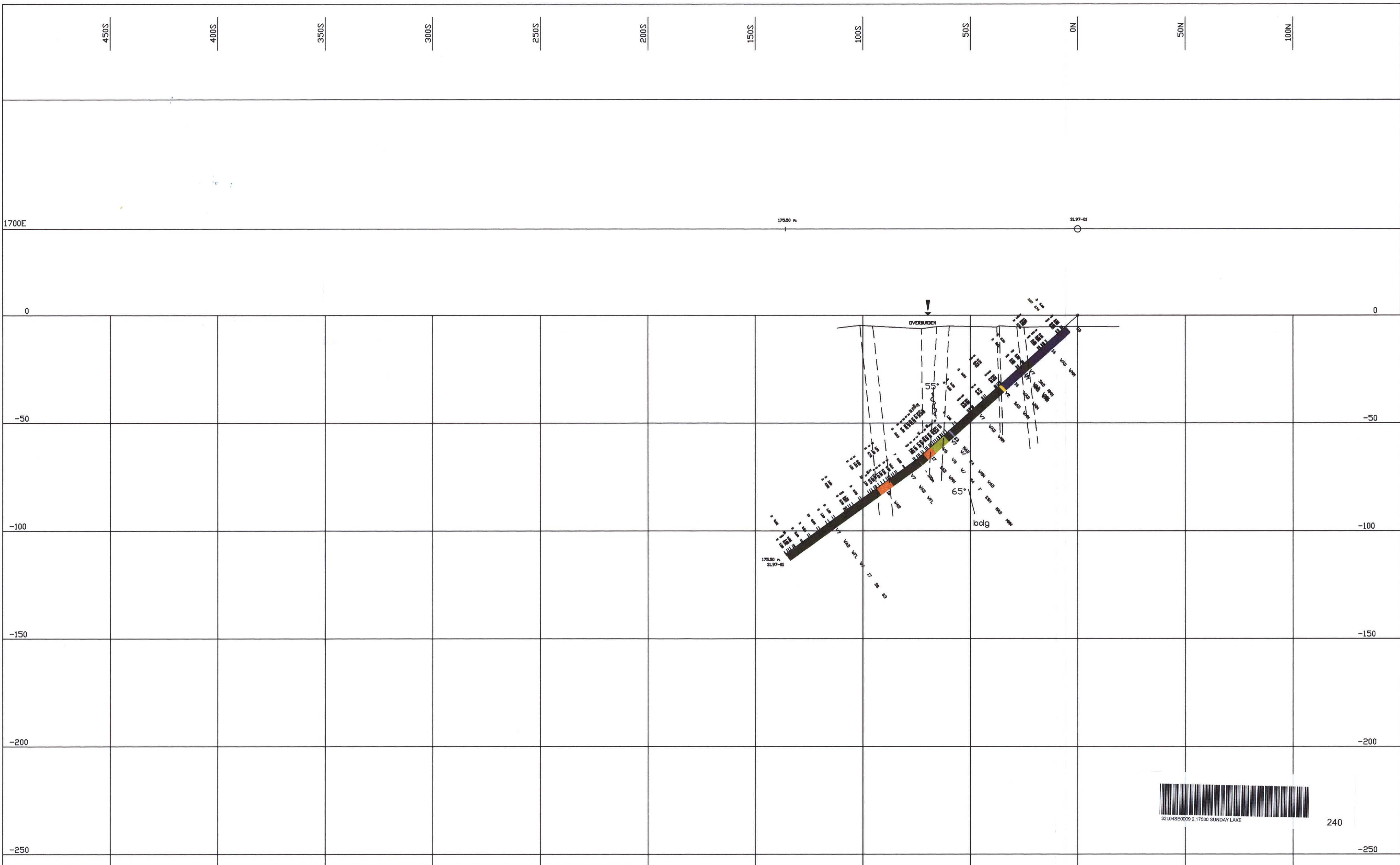
RECEIVED  
JUL 30 1997  
Map 1a

**Cyprus Canada Inc.**  
2-17530

**SUNDAY LAKE ONTARIO PROPERTY**  
(Northern Portion)  
Property Sketch and DDH Location Map

Drawn: B.N./M.H.	Checked:	Scale: 1:5,000	Drawing: SL-ONTINS.DWG
Date: November 1995	Revised: March 1997	Province: Ontario	NTS: 32E/16, U/1

0 125 250M



240

RECEIVED  
JUL 30 1997  
MINING LANDS BRANCH

2.17530

Map 2

INTRUSIONS		MODIFIERS		SYMBOLS	
I4a	GABBRO	DB	DIVERBURDEN	VD	VEINED
I4	MAFIC INTRUSION	FZ	FAULT ZONE	VVD	WEAKLY VEINED
I5	MAFIC TO ULTRAMAFIC INTRUSION	NZ	MINERALIZED ZONE	MVD	MODERATELY VEINED
I6	QUARTZ FELDSPAR PORPHYRY DYKE	BX	BRECCIA ZONE	SVD	STRONGLY VEINED
I7	FELDSPAR PORPHYRY DYKE				
SEDIMENTARY ROCKS		AD	ALTERED	AGL	AGGLOMERATE
S	SEDIMENT	WAD	WEAKLY ALTERED	AM	AMYGDALOIDAL
S3	GREYWACKE	MAD	MODERATELY ALTERED	BDG	BEDDING
S4	ARGILLITE	SAD	STRONGLY ALTERED	CG	COARSE GRAINED
S4G	GRAPHITIC ARGILLITE			DEF	DEFORMED
S9	CHERT	BX	BRECCIA	LAND	LAMINATED
S10	SILTSTONE	WBX	WEAKLY BRECCIATED	LP	LAPILLI TUFF
S11	MUDSTONE	HBX	MODERATELY BRECCIATED	MAS	MASSIVE
F	IRON FORMATION	SBX	STRONGLY BRECCIATED	PFC	PORPHYRITIC
F2	OXIDE IRON FORMATION			PFBC	PORPHYROBLASTIC
VOLCANIC ROCKS		FL	FOLIATED	PL	FOLLOVED
V1	FELSIC VOLCANIC	MFL	WEAKLY FOLIATED	GE	QUARTZ EYE
V2	FELSIC PYROCLASTIC	SFL	STRONGLY FOLIATED	SHR	SHEAR
V5	INTERMEDIATE VOLCANIC			SFX	SPINIFEX
V6	INTERMEDIATE TO FELSIC PYROCLASTIC	MN	MINERALIZED	STR	STRONGER
V7	MAFIC VOLCANIC	WNN	WEAKLY MINERALIZED	T	TUFF
V8	MAFIC PYROCLASTIC	MNN	MODERATELY MINERALIZED	VN	VEIN
V13	ULTRAMAFIC VOLCANIC	SHN	STRONGLY MINERALIZED	VT	VEINLET
MINERALS AND ALTERATION		SH	SHEARED	VAR	VARIOLITIC
ANK	ANKERITIZED	WSH	WEAKLY SHEARED	XEN	XENOLITH
BLCH	BLEACHED	SSH	STRONGLY SHEARED		
CAL	CALCITE				
CB	CARBONATIZED				
CHL	CHLORITIZED				
GF	GRAPHITIC				
PD	PYRRHOTITE				
PY	PYRITE				
SER	SERICITIZED				
SIL	SILICIFIED				

ASSAY	
Au ASSAY	drill hole trace
115 15	
(ppb Au) (g)	
ASSAY COLOUR CODE	
Au Assay	
2 10ppb - 99ppb Au	
10ppb - 199ppb Au	
200ppb - 499ppb Au	
2 500ppb Au	

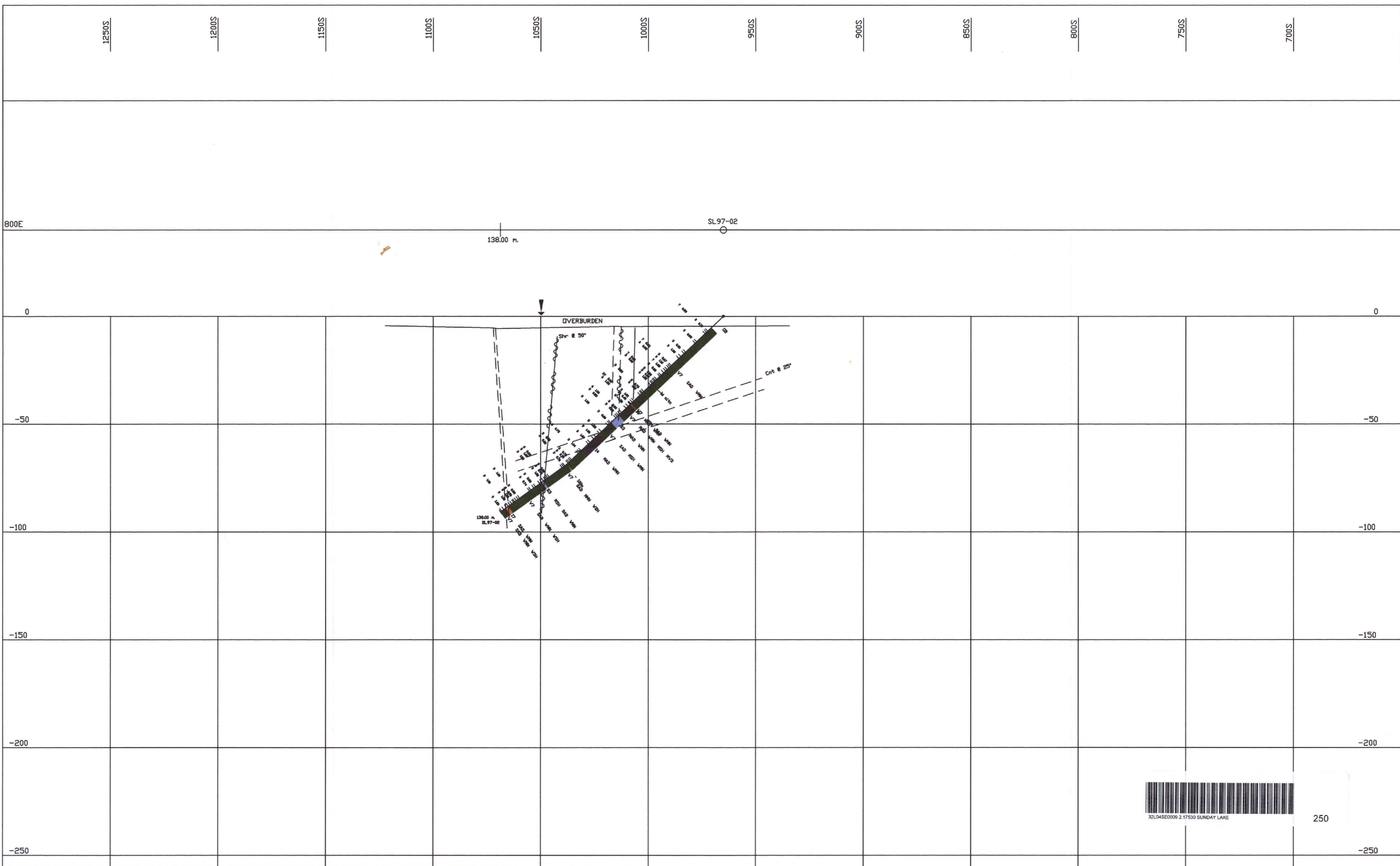
**Cyprus Canada Inc.**  
A Cyprus Amax Company

**SUNDAY LAKE (QUEBEC) PROPERTY**  
Looking 310 Degrees

SECTION: 1700E DDH: SL97-01

Drawn: B.N./M.H.	Checked:	Scale: 1:1000	Drawing: SL97-01.DWG
Date: March 1997	Revised:	Province: Quebec	NTS: 32L/3,4

0 25 50m



### LEGEND

<b>INTRUSIONS</b>		<b>MODIFIERS</b>		<b>SYMBOLS</b>	
14a	GABBRO	DB	DIVERBURDEN	VD	VEINED
14	MAFIC INTRUSION	FZ	FAULT ZONE	VVD	WEAKLY VEINED
15	MAFIC TO ULTRAMAFIC INTRUSION	MZ	MINERALIZED ZONE	MVD	MODERATELY VEINED
16	QUARTZ FELDSPAR PORPHYRY DYKE	BX	BRECCIA ZONE	SVD	STRONGLY VEINED
17	FELDSPAR PORPHYRY DYKE				
<b>SEDIMENTARY ROCKS</b>		AD	ALTERED	AGL	AGGLOMERATE
S	SEDIMENT	WAD	WEAKLY ALTERED	AM	AMYGDALOIDAL
S3	GREYWACK	MAD	MODERATELY ALTERED	BDG	BEDDING
S4	ARGILLITE	SAD	STRONGLY ALTERED	CG	COARSE GRAINED
S4G	GRAPHITIC ARGILLITE			DEF	DEFORMED
S9	CHERT	BX	BRECCIA	LAMD	LAMINATED
S10	SILTSTONE	WBX	WEAKLY BRECCIATED	LP	LAPILLI TUFF
S11	MUDSTONE	HXB	MODERATELY BRECCIATED	MAS	MASSIVE
F	IRON FORMATION	SBX	STRONGLY BRECCIATED	PFC	PORPHYRITIC
F2	OXIDE IRON FORMATION			PFBC	PORPHYROBLASTIC
<b>VOLCANIC ROCKS</b>		FL	FOLIATED	FL	FOLIATED
V1	FELSIC VOLCANIC	WFL	WEAKLY FOLIATED	FL	FOLDED
V2	FELSIC PYROCLASTIC	MFL	MODERATELY FOLIATED	GE	QUARTZ EYE
V5	INTERMEDIATE TO FELSIC PYROCLASTIC	SFL	STRONGLY FOLIATED	SHR	SHEAR
V6	INTERMEDIATE TO FELSIC PYROCLASTIC			SFX	SPINFEX
V7	MAFIC VOLCANIC			STR	STRINGER
V8	MAFIC PYROCLASTIC			T	TUFF
V9	ULTRAMAFIC VOLCANIC			VN	VEIN
<b>MINERALS AND ALTERATION</b>		HN	MINERALIZED	VT	VEINLET
ANK	ANKERITIZED	WN	WEAKLY MINERALIZED	VAR	VARIABLE
BLCH	BLEACHED	MWN	MODERATELY MINERALIZED	XEN	XENOLITH
CAL	CALCITE	SN	STRONGLY MINERALIZED		
CB	CARBONATIZED				
CHL	CHLORITIZED	SH	SHEARED		
GP	GRAPHITIZED	WSH	WEAKLY SHEARED		
PD	PYRRHOTITE	HSH	MODERATELY SHEARED		
PY	PYRITE	SSH	STRONGLY SHEARED		
SER	SERICITIZED				
SIL	SILICIFIED				

### ASSAY

Au ASSAY  
115 1.5  
ppb Au 00

drill hole trace

### ASSAY COLOUR CODE

Au Assay  
 > 10ppb - 99ppb Au  
 100ppb - 1999ppb Au  
 2000ppb - 4999ppb Au  
 > 5000ppb Au



RECEIVED  
JUL 30 1997  
MINING LANDS BRANCH

2.17530

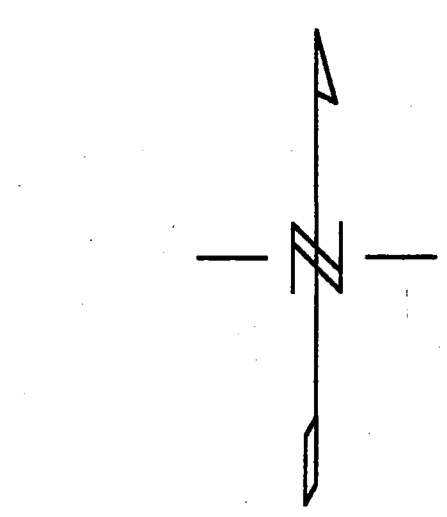
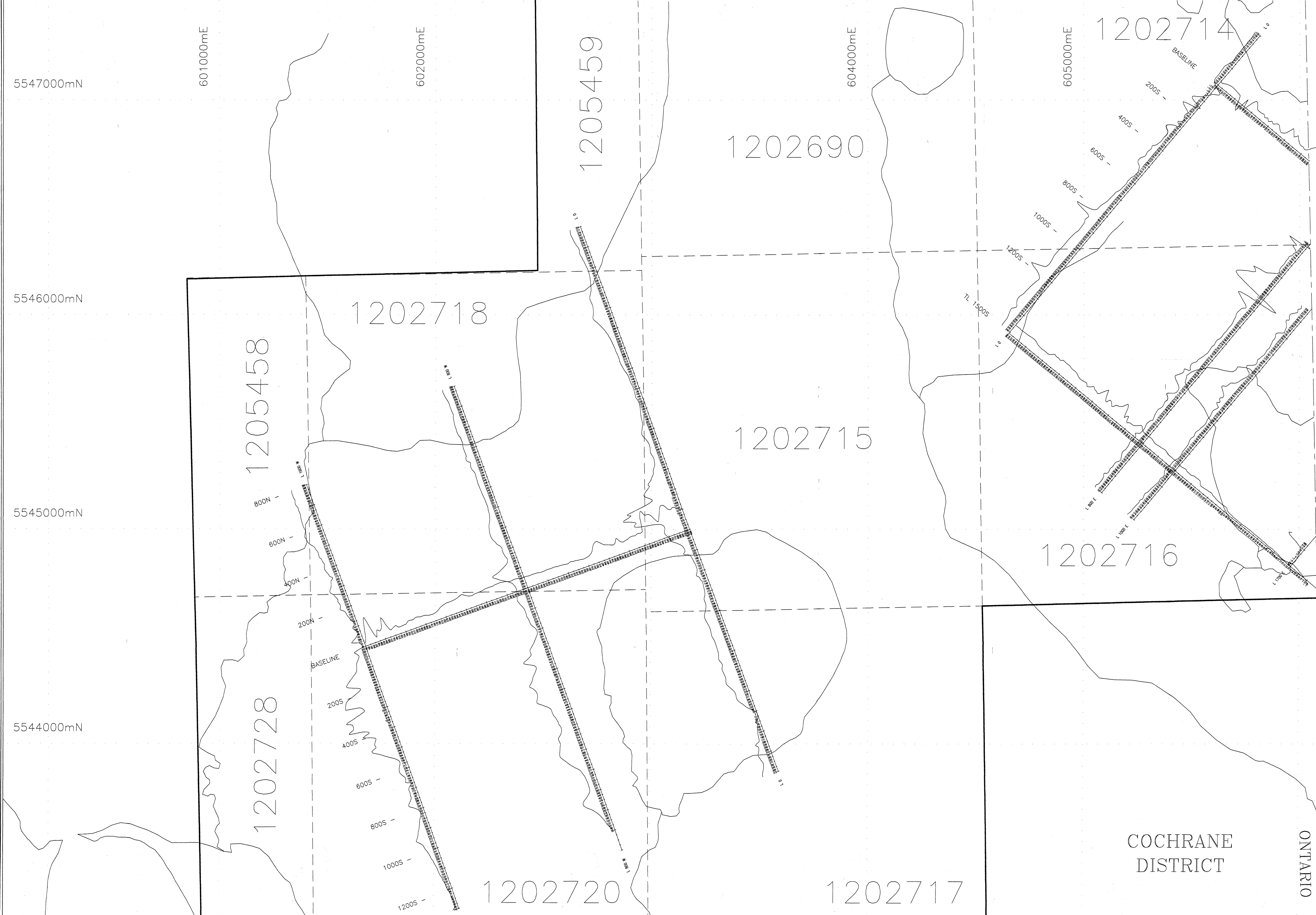
Map 3

**Cyprus Canada Inc.**  
A Cyprus Ammax Company

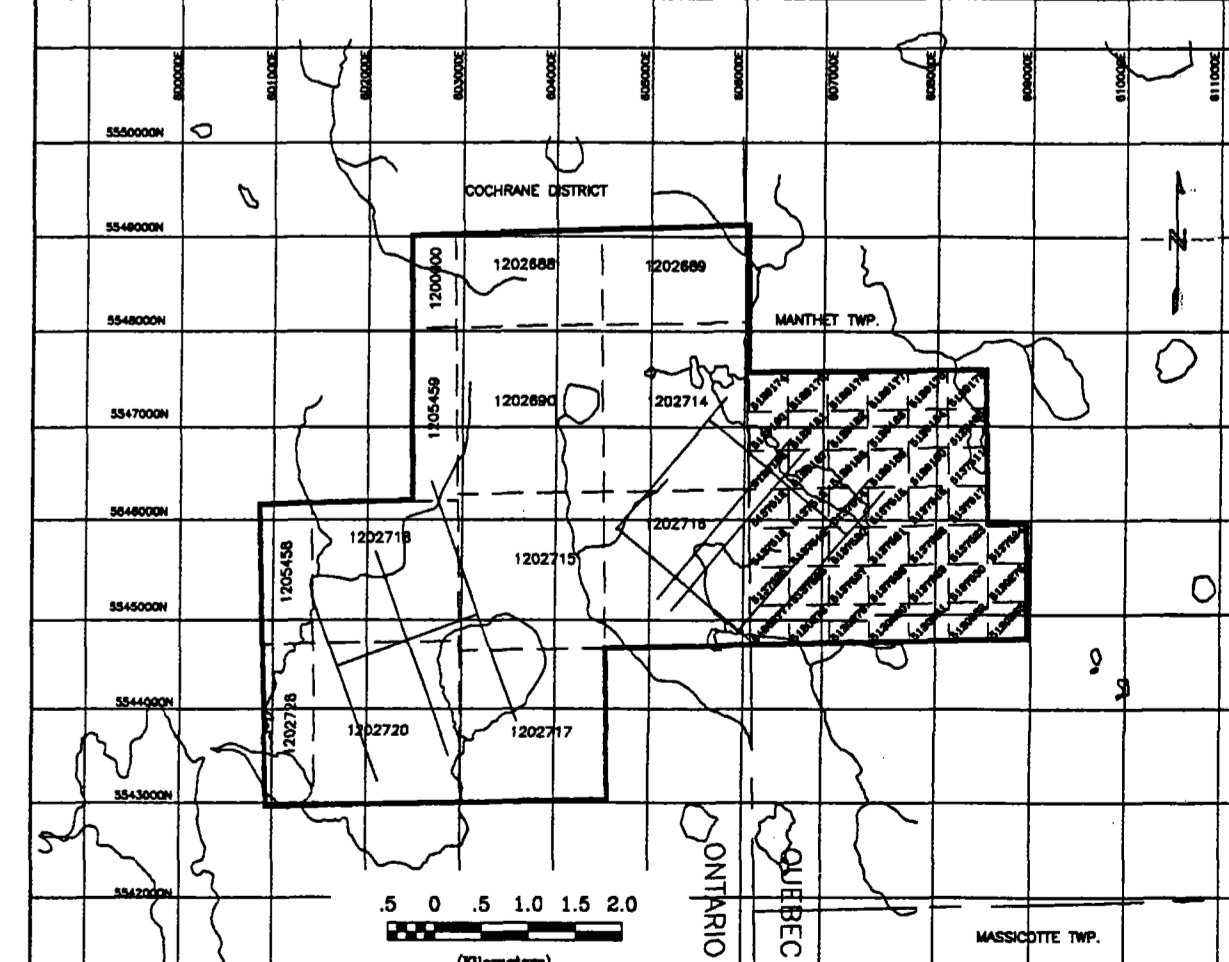
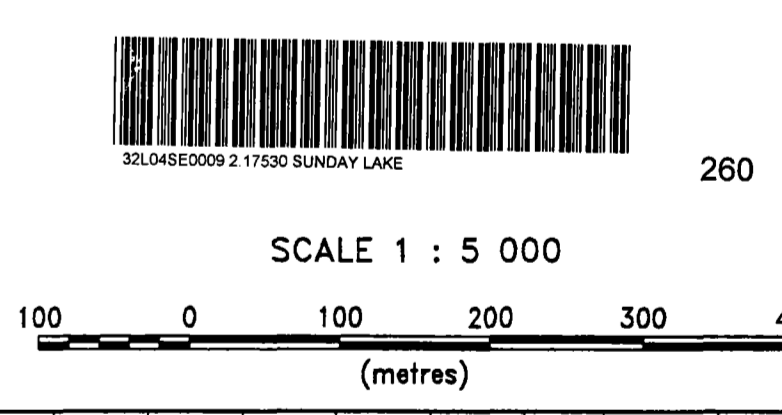
**SUNDAY LAKE (ONTARIO) PROPERTY**  
Looking 310 Degrees

SECTION: 800E		DDH: SL97-02	
Drawn: B.N./M.H.	Checked:	Scale: 1:1000	Drawing: SL97-02.DWG
Date: March 1997	Revised:	Province: Quebec	NTS: 32L/3,4
0		25	
50m			





**LEGEND**  
**MAGNETIC PROFILES**  
 Readings: Total field - 58000 nT  
 + 300  
 - 250  
 1 cm = 250 nT  
 58000  
 Instrument: Magnetometer EDA, OMM-PLUS



COCHRANE  
 DISTRICT

ONTARIO  
 QUEBEC

**CYPRUS CANADA INC.**  
**SUNDAY LAKE PROPERTY**  
**EAST AND WEST GRIDS**  
 MAGNETIC SURVEY 2.17530  
 TOTAL FIELD PROFILES  
 VAL D'OR SAGAX INC.  
 Interpreted by : P. Boileau, Eng. Date: 03/97  
 Scale 1 : 5 000 Drawing no: 96-N139-1\_2W

5547000mN

601000mE

602000mE

1205459

5546000mN

1202718

1205458

5545000mN

800N -

600N -

400N -

200N -

BASELINE

200S -

400S -

600S -

800S -

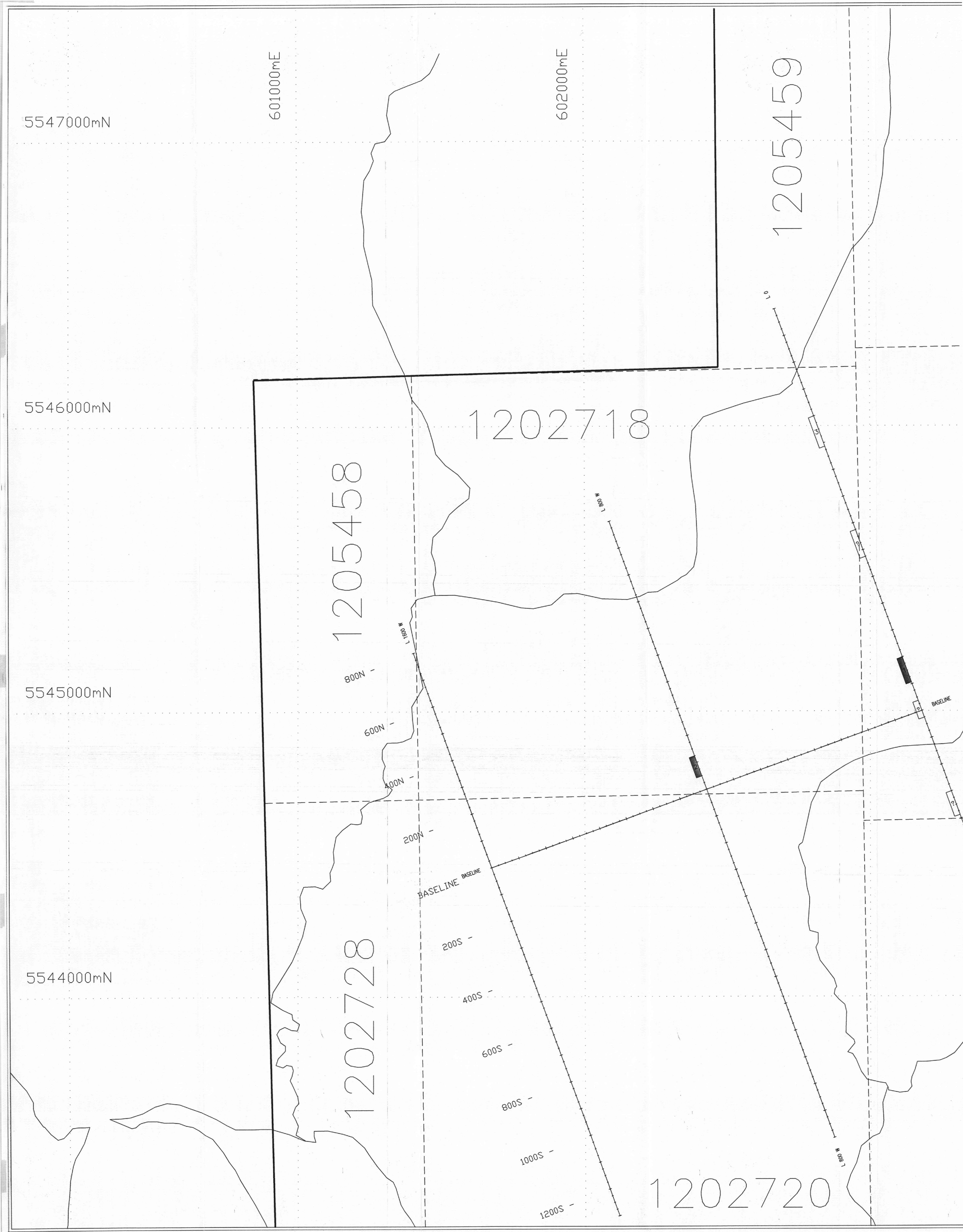
1000S -

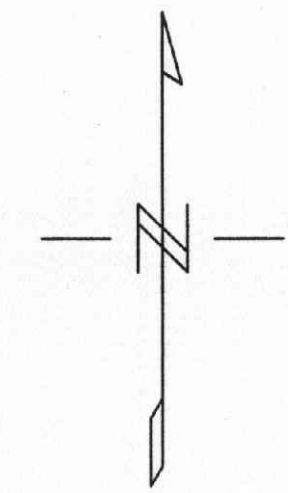
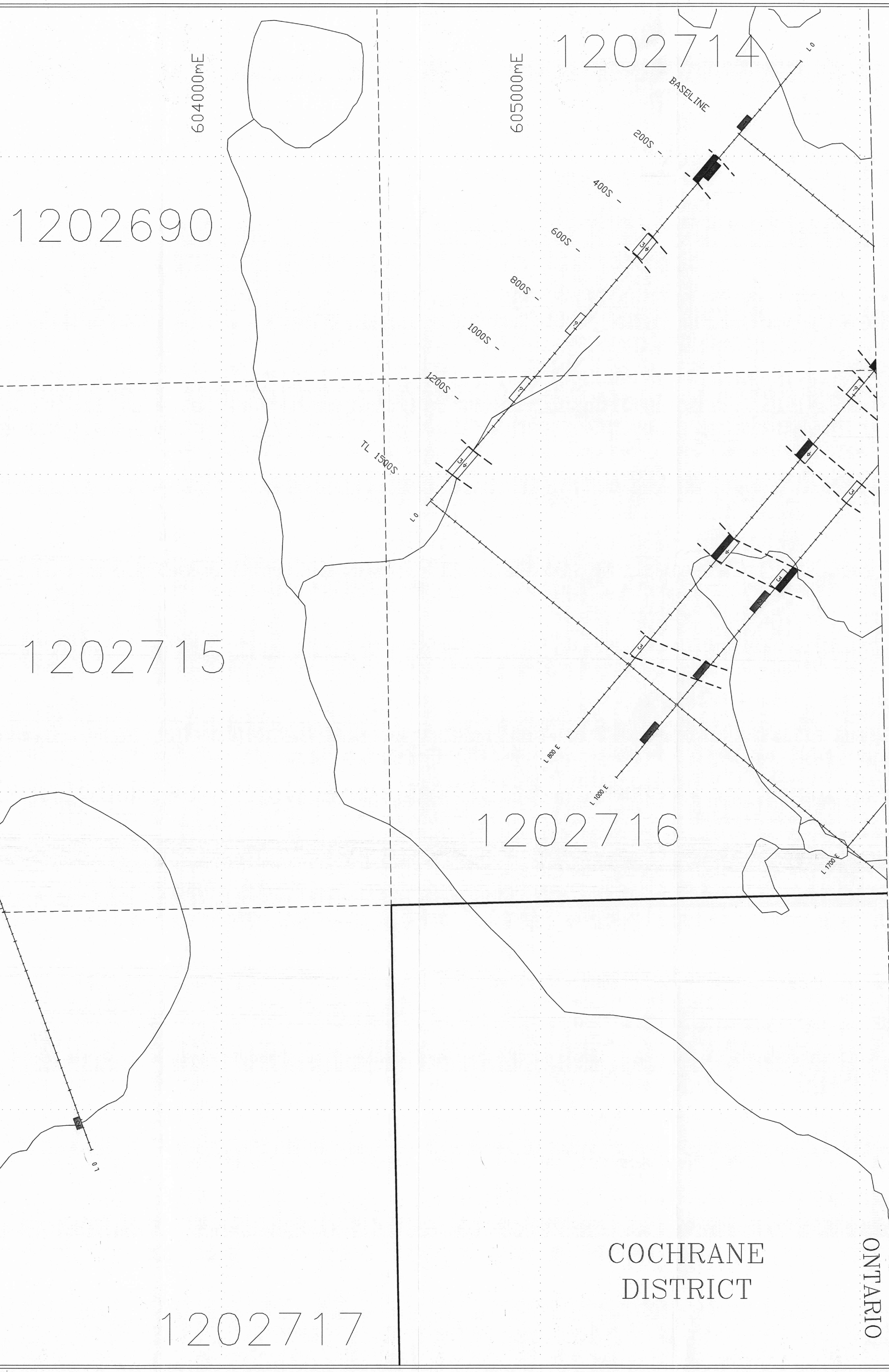
1200S -

5544000mN

1202728

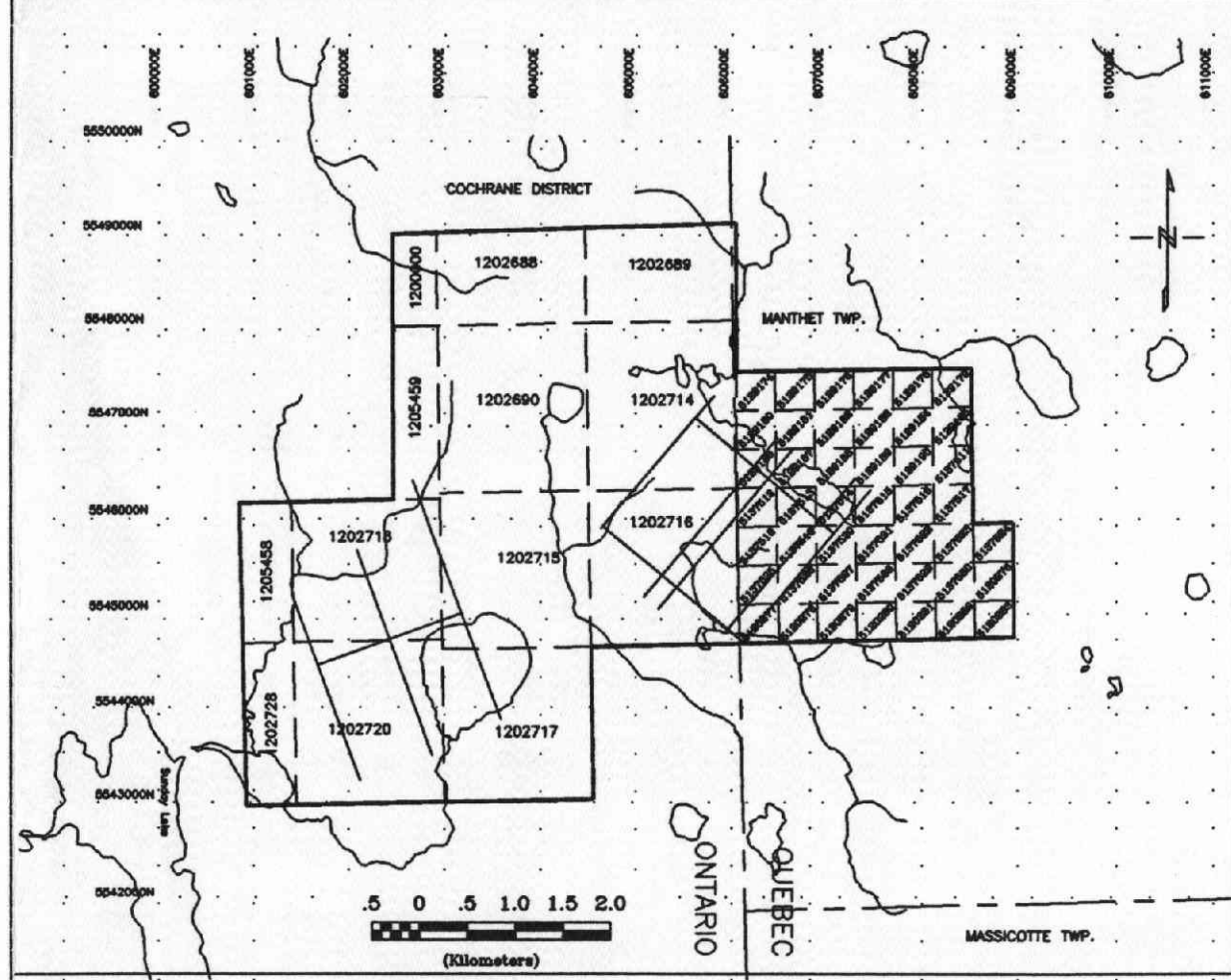
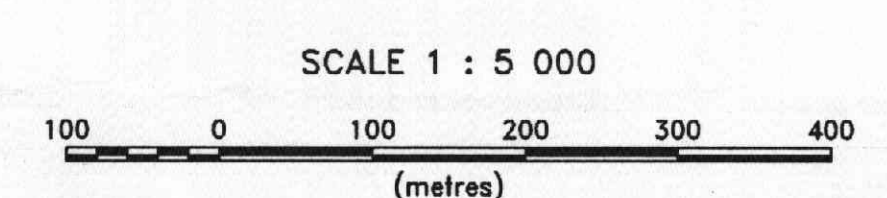
1202720





**LEGEND**  
INDUCED POLARIZATION

POLARIZATION	RESISTIVITY
Very high	Very resistive
High	Resistive
Moderate	Conductive
Weak	Very conductive
Marginal	



COCHRANE DISTRICT

ONTARIO

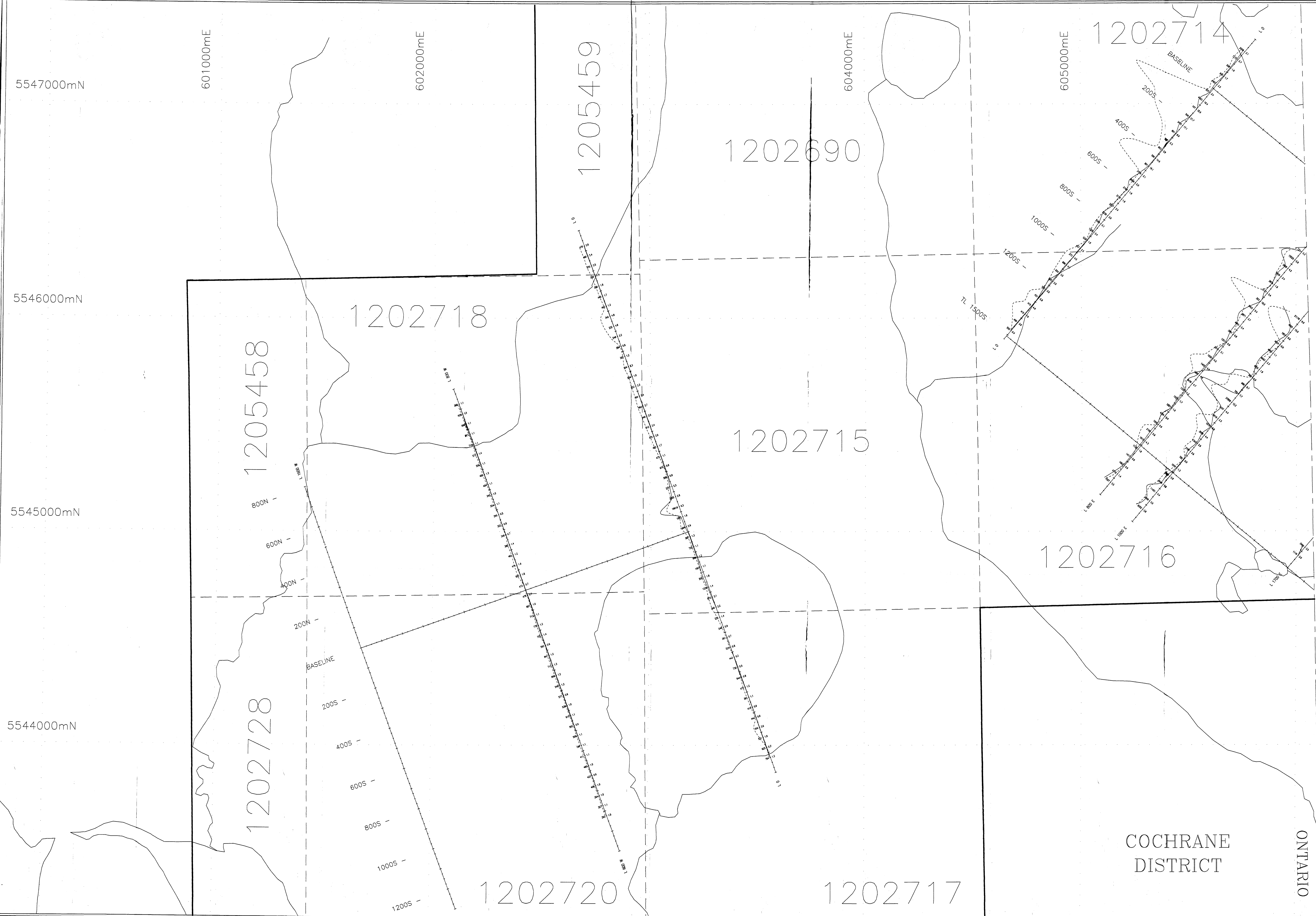
QUEBEC

CYPRUS CANADA INC.  
SUNDAY LAKE PROPERTY  
EAST AND WEST GRIDS

GEOPHYSICAL INTERPRETATION <sup>2.17530</sup>

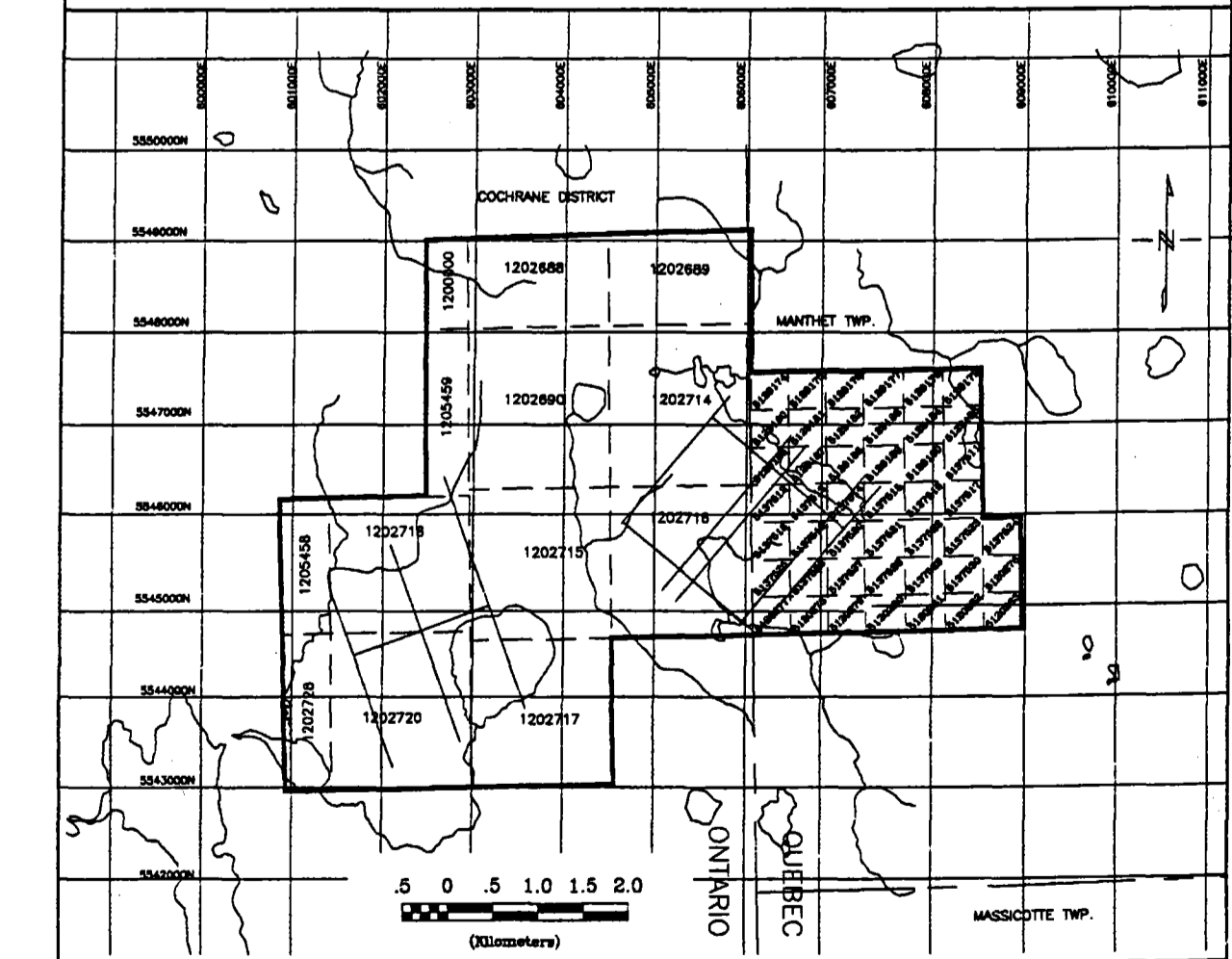
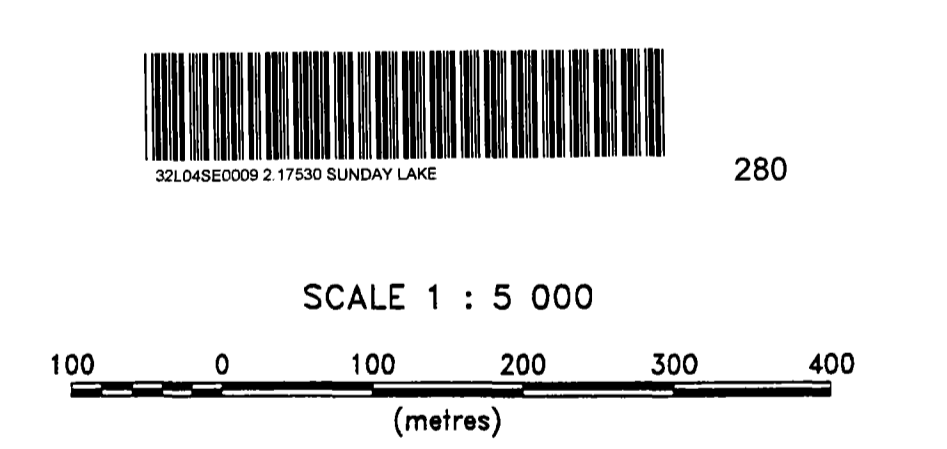
VAL D'OR SAGAX INC.

Interpreted by : P. Boileau, Eng. Date: 03/97  
Scale 1 : 5 000 Drawing no: 96-N139-7\_OW



**LEGEND**  
 RESISTIVITY & POLARISABILITY PROFILES (N = 1)  
 Profiles: Resistivity Polarisability

1 cm = 10000 (Ohm-m)      1 cm = 5 (mv/V)  
 Instruments: IRS ELREC-6, PHOENIX IPT-1, M2-1  
 Time cycle: 2 sec.



**CYPRUS CANADA INC.**  
 SUNDAY LAKE PROPERTY  
 EAST AND WEST GRIDS 21730

**INDUCED POLARIZATION SURVEY**  
 RESISTIVITY & POLARISABILITY PROFILES

VAL D'OR SAGAX INC.

Interpreted by: P. Boileau, Eng.      Date: 03/97  
 Scale 1 : 5 000      Drawing no: 96-N139-4-1W

COCHRANE DISTRICT

ONTARIO  
 QUEBEC