CYPRUS CANADA INC.
OMIP REPORT #1

KERR MINE

VIRGINIATOWN, ONTARIO CANADA

David B. Stevenson
Ken Guy
Steve Parry

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Timmins Office

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SUMMARY

Cyprus Canada Inc. has recently signed a joint venture agreement with Deak Resources Corporation and GSR Mining Corporation to explore lands adjoining the Kerr Mine, Canada's third largest gold producer, with past production of more than 10 million ounces.

This report presents the results of a three month underground mapping/sampling program conducted on levels 1000, 2050 and 3850, of the Kerr Mine. This program began April 1 and continued to July 1, 1992.

The purpose of the evaluation was to determine, through detailed mapping, if there are any structural or lithologic controls to the gold mineralization at the Kerr Mine and to observe this in a lateral and vertical sense. In addition detailed panel rock chip sampling was conducted to determine where the gold is occurring and if trace element distribution is reflecting enrichment or depletion halos within or around the Kerr ore deposits. This information would then be used during the Cyprus drill program to aid in determining if any drill holes are proximal to gold mineralization. Selected samples for whole rock and petrographic analysis were also collected to aid in rock type definition and classification.

Gold mineralization at the Kerr Mine is confined within a package of altered komatiites and iron tholeiites.

More specifically, the *carbonate ore* occurs in altered komatiites where there is depleted Cr (200 to 300 ppm vs >1000 ppm), very depleted Al (<<1% vs >>1%) and at times enriched Mg (>9 to 10% vs <9%). Arsenic is enriched throughout the altered komatiitic rock types. There usually is elevated As where there is anomalous gold. Arsenic also exhibits a slightly wider halo and therefore may be used as an indication of on-strike gold mineralization if, for example, an anomalous zone of As was intersected in drill core.

Chemical characteristics for Fe tholeiite hosted *flow ore* were more difficult to obtain due to the lack of available faces to map, however, where mapped the flow ore exhibited very depleted to depleted As, Cr, Ca, Mg and enriched to very enriched Fe. The depleted Cr values are likely a function of the primary composition of the tholeiite. Chrome content is diagnostic of the tholeiitic and komatiitic suites.

Mill Zone ore is neither flow nor carbonate but instead represents a third hybrid style. Gold is associated with pyritic alteration haloes around distinctive "ladder" style veins which are perpendicular to, and restricted within, a black iron-rich mafic volcanic adjacent to a major ultramafic komatiite on the south side of the property. Since all of the previous drilling on the Mill Zone was done perpendicular to the trend of the iron-rich mafic volcanic host, and therefore parallel to the veins, it would indicate the assay data from the core would likely be unreliable in terms of defining average gold tenure and tonnage.

Faulting appears to have played an important role in the location of gold mineralization at the Kerr Mine. The Kerr Fault may have been the main conduit for hydrothermal activity which produced the carbonate and flow orebodies. This is in direct contrast to all former mine staff who believe the Kerr Fault is post-ore.

A corollary to the above is that the former operators neither recorded nor tested fault structures for gold. Mineralized faults may be high priority drill targets because of this lack of evaluation.

A new, auriferous fault, labelled the South Cross Cut (SXC) fault, was identified on the 1000 level south cross cut. This fault is on strike of a lense of gold mineralization considered to be the Mill Zone by mine staff. Our interpretation indicates the SXC fault dips south at 45 to 65°, in contrast to both stratigraphy and the main orebodies, which dip north. The intersection of the SXC fault and the Mill Zone horizon is considered to be a priority drill target.

INTRODUCTION

Cyprus Canada Inc. has recently signed a joint venture agreement with Deak Resources Corporation and GSR Mining Corporation to explore lands adjoining the Kerr Mine, Canada's third largest gold producer with past production of more than 10 million ounces.

Cyprus will earn a 50 percent interest in this property by spending $3,000,000 Cdn over a four year period. An exploration budget of $600,000 Cdn has been approved for 1992.

This report presents results of a four month underground mapping/sampling program conducted along selected sections of three levels; 1000, 2050 and 3850. The purpose of the evaluation was to determine, through detailed mapping, if there are any structural or lithologic controls to the gold mineralization at the Kerr Mine and to observe this in a lateral and vertical sense. In addition detailed panel rock chip sampling was conducted to determine where the gold is occurring and if trace element distribution is reflecting enrichment or depletion halos within or around the Kerr ore deposits. This information would then be used during the Cyprus drill program to aid in determining if one or more drill holes are proximal to gold mineralization. Selected samples for whole rock and petrographic analysis were also collected to aid in rock type definition and classification.

This report will summarize and discuss the work which has been completed to date and make conclusions based on the current database.

LOCATION AND ACCESS

The Kerr Mine property is located in Virginiatown/Kearns, northeastern Ontario, approximately 300 miles north of Toronto and three miles west of the Quebec border (Figure 1). Access is provided by an all weather, paved highway #66 which connects with the towns of Kirkland Lake to the west and Rouyn-Noranda, Quebec to the east. To the west highway #66 eventually joins with highway #11 which is part of the main throughway to northeastern Ontario from Toronto.

PROPERTY STATUS AND OWNERSHIP

Deak Resources Corporation and GSR Mining Corporation jointly own 100 percent of the Kerr Mine property. Cyprus Canada Inc. has optioned that portion of the property which is south of the number three shaft and parallel to the mine workings. The area below the number three shaft is also included in the joint venture. A section of the Mill Zone horizon, where Deak has some tonnage outlined, is excluded from the joint venture (Map 1).

KERR MINE GEOLOGY AND MINERALIZATION

Note the following descriptions are taken from an existing database based mainly on 30 year old reports.

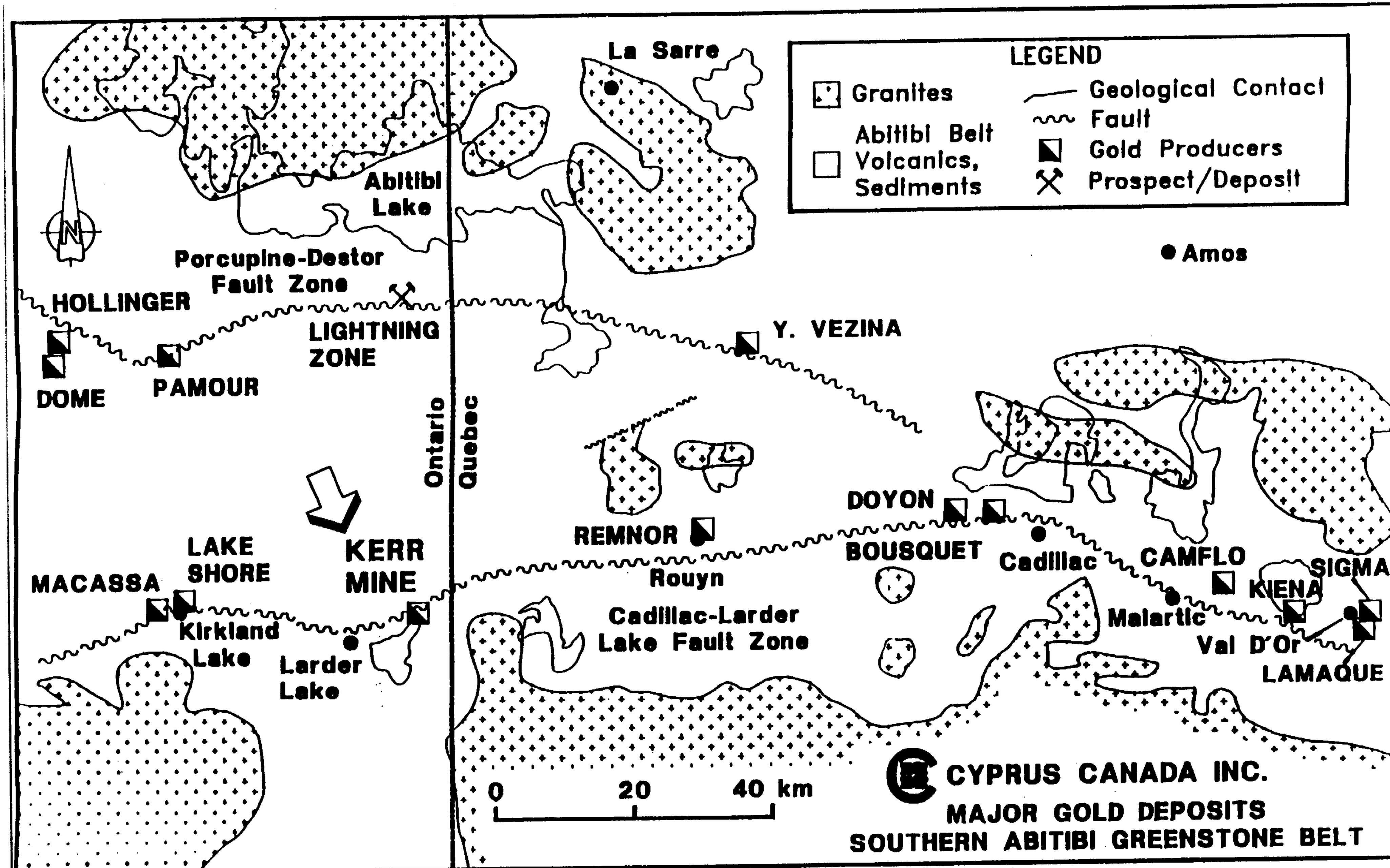

LEGEND
Granites
Abitibi Belt Volcanics, Sediments
Geological Contact
Fault
Gold Producers
Prospect/Deposit
La Sarre
Abitibi Lake
Amos
Porcupine-Destor Fault Zone
HOLLINGER
DOME
PAMOUR
LIGHTNING ZONE
Y. VEZINA
Ontario
Quebec
DOYON
REMNOR
BOUSQUET
Cadillac
CAMFLO
SIGMA
KIENA
Malartic
Val D'Or
LAMAQUE
Rouyn
Cadillac-Larder Lake Fault Zone
MACASSA
LAKE SHORE
KERR MINE
Kirkland Lake
Larder Lake
0 20 40 km
CYPRUS CANADA INC.
MAJOR GOLD DEPOSITS
SOUTHERN ABITIBI GREENSTONE BELT

Figure 1

The Kerr Mine started production in 1938 and to date has produced in excess of 10 million ounces of gold from 38 million tons grading 0.27 opt. The mine produced up to 500,000 ounces annually at peak production and led North American gold producers in the 1950's. Deak Resources is and has been operating the Kerr Mine on a salvage basis since 1990 and is mining approximately 1000 tpd at an average grade of 0.10 opt gold.

The Kerr ore deposits are hosted within a sequence of steep north dipping carbonated ultramafic and mafic volcanic rocks of Archean age (Figures 2 and 3). All ore deposits are located within or adjacent to an easterly plunging, funnel shaped envelope of carbonate alteration. The alteration continues well below the bottom of economic mineralization at 4400 feet. Top determinations suggest the stratigraphy is overturned and facing south.

There are two important fault zones on the mine property. The first is known as the *Kirkland Lake-Larder Lake Break* (KL-LL Break) which is analogous to the Destor-Porcupine Break (D-P Break), in the Timmins area. Like the D-P Break it is strike persistent (>96 miles in length) and has a multitude of gold deposits located along its length. The KL-LL Break is situated at the north end of the mine property, and separates the younger Timiskaming sediments and volcanics, to the north, from the Larder Lake Group ultramafic-mafic volcanic sequence, hosting the Kerr ore deposits, to the south. The KL-LL Break has been interpreted to parallel the east trending mine stratigraphy on strike and down dip.

The second structure is the *Kerr Fault*. This fault also trends east and dips +70° to the north. In plan this fault is a northward facing concave-shaped fault which merges into the KL-LL Break a short distance just inside the mine property boundary at its east and west extremities. The majority of the Kerr ore deposits occur within this ellipse confined by the Kerr Fault and the KL-LL Break.

Two types of ore are important at the mine - *flow ore*, consisting of pyritized and silicified mafic volcanic, and *carbonate ore*, comprised of irregular quartz veins hosted in bright green fuchsitic carbonate altered ultramafic. These ore deposits are stacked; the flow ore deposits being stratigraphically higher, and most commonly adjacent to the Kerr Fault, followed by the carbonate ore deposits to the north.

The largest individual orebody at the Kerr Mine was the 21 flow ore deposit, which produced 13 million tons grading 0.38 opt.

Grade is predictable in diamond drill data from the flow ore zones, and increases with depth. Carbonate ore grade is much more erratic, and displays a pronounced nugget effect.

EXPLORATION TARGETS

Prior to the underground mapping/sampling phase of the Kerr Mine project at least two mineralized horizons, known as the *Mill* and *South Zones*, had been identified within ultramafic and mafic volcanic stratigraphy located 2000 feet south of the main number

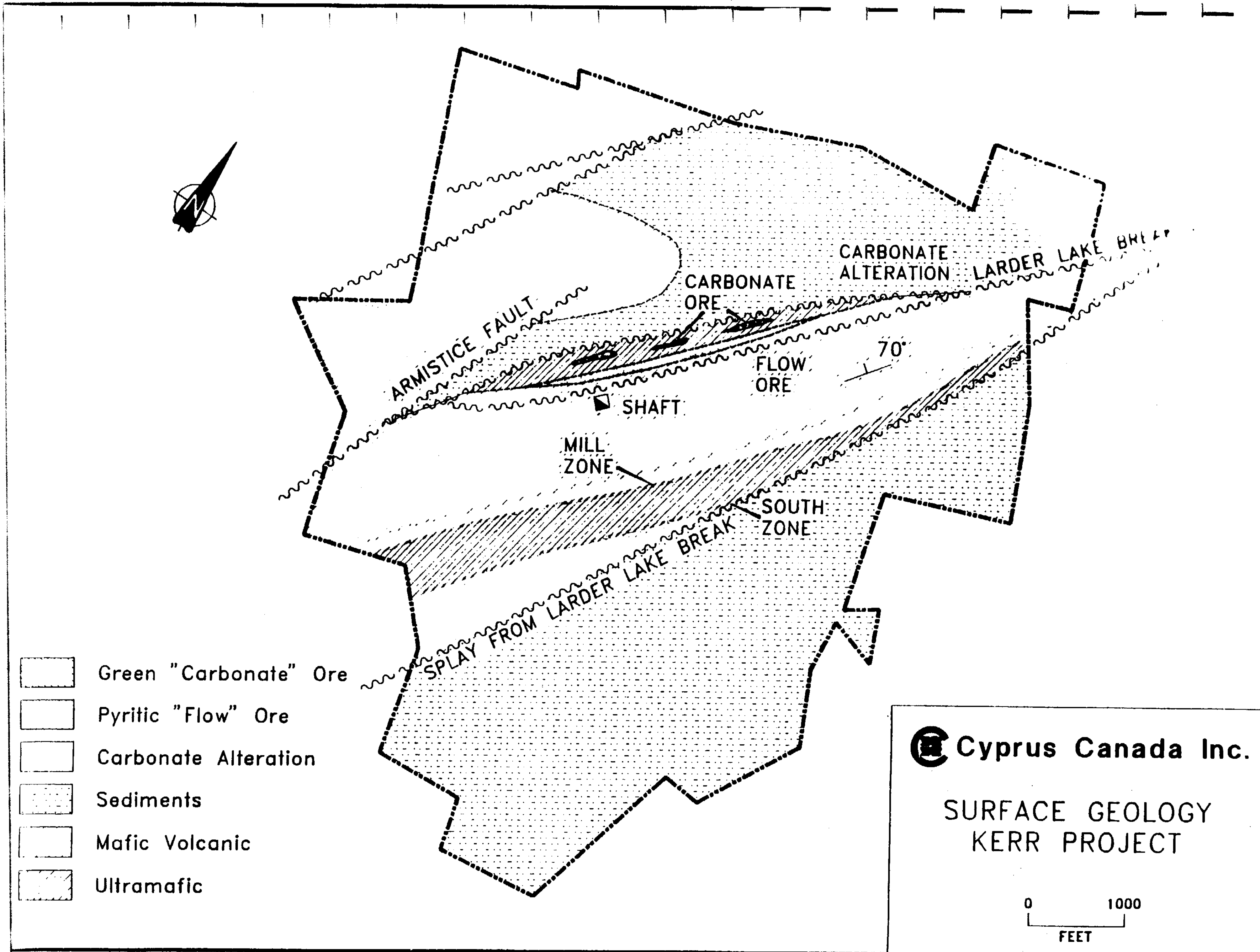
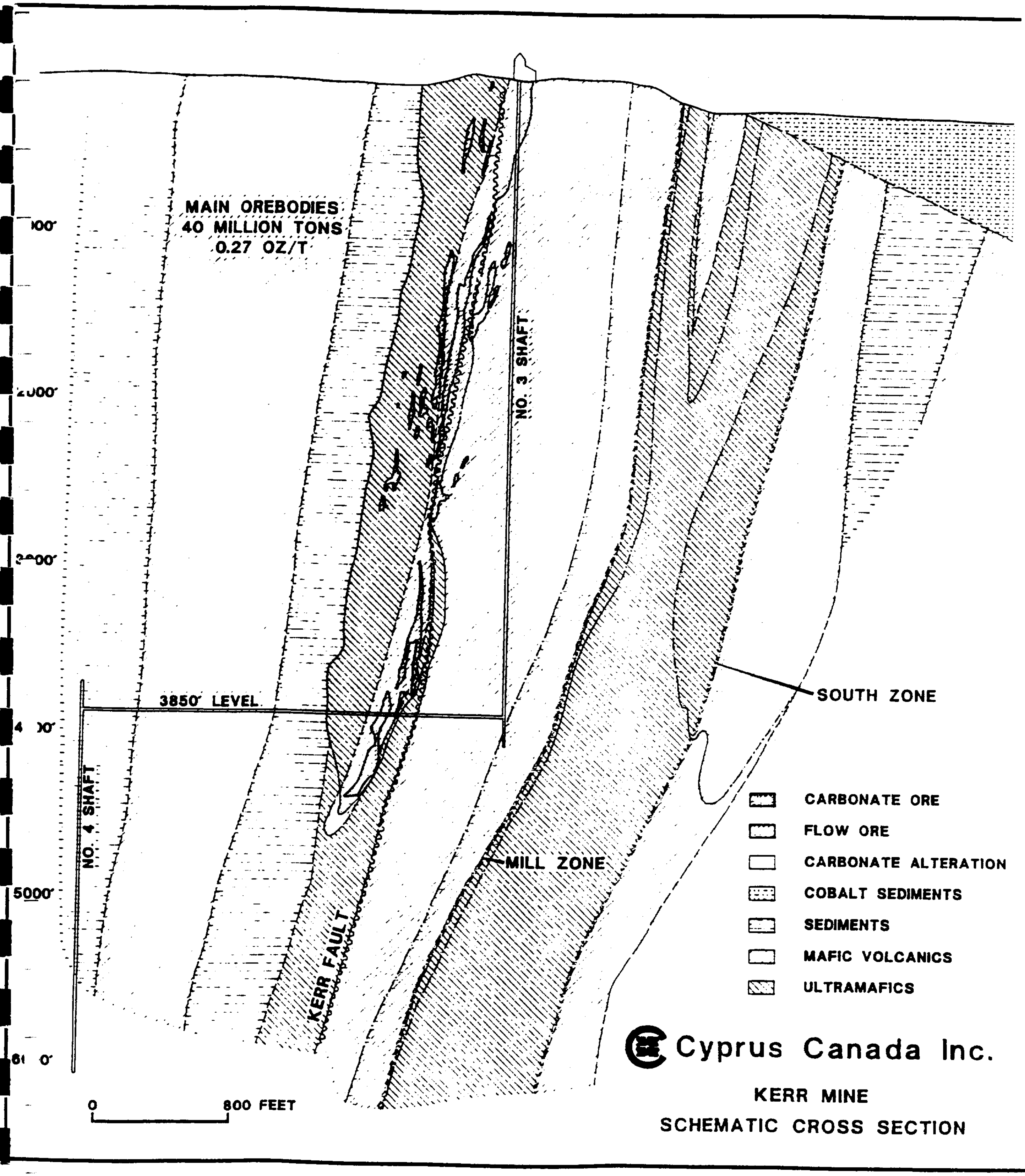

ARMISTICE FAULT
CARBONATE ORE
CARBONATE ALTERATION
LARDER LAKE BREAK
70°
FLOW ORE
SHAFT
MILL ZONE
SOUTH ZONE
SPLAY FROM LARDER LAKE BREAK
Green "Carbonate" Ore
Pyritic "Flow" Ore
Carbonate Alteration
Sediments
Mafic Volcanic
Ultramafic
Cyprus Canada Inc.
SURFACE GEOLOGY
KERR PROJECT
0
1000
FEET

FIGURE 2



MAIN OREBODIES
40 MILLION TONS
0.27 OZ/T
NO. 3 SHAFT
NO. 4 SHAFT
3850' LEVEL
KERR FAULT
MILL ZONE
SOUTH ZONE
5000'
0
800 FEET
CARBONATE ORE
FLOW ORE
CARBONATE ALTERATION
COBALT SEDIMENTS
SEDIMENTS
MAFIC VOLCANICS
ULTRAMAFICS
Cyprus Canada Inc.
KERR MINE
SCHEMATIC CROSS SECTION

FIGURE 3

three shaft. These zones were identified during a one month review of the Kerr Mine database during January and February, 1992.

Very limited prior drilling, mainly on the Mill Zone, returned generally subeconomic gold values in more than 90 percent of the holes drilled. However, several intercepts of up to 0.33 opt gold over 34 feet were intersected but were not adequately followed up to date.

The South Zone, and a postulated structure perpendicular to the stratabound mineralized zones at the mine, are virtually untested.

WORK COMPLETED

Selected sections of levels 1000, 2050 and 3850 were evaluated through detailed mapping and sampling at the Kerr Mine. A total of 5530 feet of backs and walls were washed and mapped at a 1 inch to 20 foot scale. Geological maps for level 1000, 2050 and 3850 are present in the accompanying folder and labelled Map 2, 3 and 4, respectively.

In addition 945 panel rock chip samples were collected. The panel samples were taken over an area two feet by five feet (10 feet) on the wall at approximately chest height. The rock chips were collected in a 10 inch by 12 inch plastic sample bag and eventually delivered to X-Ray Labs in Rouyn-Noranda, Quebec for gold and 31-element ICP analysis (Appendix 1).

Gold results were analysed by FADCP (Fire Assay and Plasma Emission Spectrometry) method while results for As, Cr, Al, Ca, Fe and Mg were determined by ICP (Inductively Coupled Plasma) method (Appendix 2).

A total of 65 samples were also collected and delivered to the lab for classical whole rock analysis. Whole rock analysis was conducted using X-Ray Fluorescence Spectrometry. The Al_2O_3, MgO and $Fe_2O_3+TiO_2$ results, from the whole rock analysis, were plotted on a Jensen Cation Plot to determine rock type (Appendix 3).

Hand specimens for 12 of these whole rock samples were also submitted to M.V. White and Associates for petrographic study (Appendix 4).

All geological mapping data for the three levels was entered into an Autocad database. Results for Au, As, Cr, Al, Ca, Fe and Mg have also been merged into the Autocad database. Maps for these seven elements are present at the back of the report and labelled as Maps 5 to 10. Other elements such as Ni, Sc and Zn were also found to be useful but most often were twinning one or more of the above mentioned elements and therefore were not plotted.

Based on the gold, ICP and whole rock data an interpretation of the chemistry for each level was conducted. These geochemical interpretation maps are present at the back of the report and are labelled as Maps 11 to 13.

All data for holes drilled into the southern stratigraphy, and relevant to the Mill or South Zones were entered into the Borsurv program. Forty-five cross sections spaced at 150 foot intervals, and in more densely drilled areas, spaced at 75 foot intervals, were produced. In addition longitudinal sections for the Mill Zone and South Zone were generated. These cross sections and longitudinals will be submitted in the next OMIP report.

LEVEL GEOLOGICAL MAPPING RESULTS

The geological mapping results will be presented and discussed for each level, followed by the lithogeochemical results.

Cyprus mapping agrees with what Kerr Addison and previous operators have identified as the two main ore-hosting rock types; *ultramafic and mafic volcanics*. Cyprus mapping of the 1000, 2050 and 3850 levels have, however, differed from the Kerr Addison mapping, in terms of rock type nomenclature, of the Kerr Mine rocks.

Generic terms such as "ultramafic" or "mafic volcanic" have been used in this report to group specific suites of rocks. Where these generic terms are used they imply the dominant <u>original</u> rock type present within that suite. In other words there may be mafic volcanic rocks, or their altered equivalent, within an "ultramafic" suite but the dominant rock type is ultramafic.

When the lithogeochemical results are presented the same generic labels are used. Invariably the suite of rocks which have been labelled "ultramafic" are basaltic komatiite in composition; a mafic volcanic rock. Everyone involved in this project agrees what have been labelled and mapped as ultramafic are undoubtably ultramafic rocks. Whole rock chemistry, however, disagrees as indicated above.

The obvious explanation for the difference between chemistry and what we see and have interpreted, is that the ultramafic rocks were originally ultramafic komatiites which have been altered to basaltic komatiites. Conversely, the rocks which have plotted as iron tholeiites appear to have had negligible change to their primary chemistry. In addition to the iron tholeiites and ultramafic komatiites there are rocks which plot as basaltic komatiites and visually are interpreted to be of mafic origin. These rocks have been subjected to moderate levels of alteration relative to the iron tholeiites (weakly altered) and ultramafic komatiites (strongly altered). Therefore there were three primary suites of volcanic rocks present at consolidation; ultramafic komatiites, basaltic komatiites and iron tholeiites. It is the former rock type which has been the most affected by alteration.

We have identified a total of five main rock types, specifically ultramafics, mafic volcanics/pyroclastics, interflow sediments, mafic to intermediate dykes (shoshonites) and Timiskaming sediments.

The ultramafics and mafic volcanics/pyroclastics are the dominant rock types and both have several altered and unaltered varieties. We have broken down these general rock types into specific mappable units based primarily on mineral content, alteration and texture.

Under the ultramafic heading we have defined, in decreasing order of alteration intensity, emerald green carbonate (EGC), green carbonate (GC), dull green carbonate (DGC), brown to grey carbonate, talc chlorite schist (TCS) and talc serpentine schist to massive ultramafic (TSS-UM). The EGC, GC and DGC rocks are reflecting, respectively, a decrease in intensity of green mica (fuchsite).

Under the mafic volcanic/pyroclastic heading we have defined, in decreasing order of alteration intensity, albite-sericite rock (ASR) and albite sericite chlorite (ASC) rock. Also under this heading is amphibolite, massive mafic volcanic and agglomerate.

Those rock types classed under interflow sediments are graphitic slates to shales while greywackes and graphitic slates comprise the Timiskaming sediments.

<u>1000 Level Geological Mapping Results</u>

In a section from north to south, the rocks on the 1000 level consist of, firstly, a **northern ultramafic** unit. This unit, which is over 325 feet thick, is comprised of rock types with varying intensities of green carbonate, TCS and minor ASC rock.

This sequence of ultramafics is host to the carbonate orebodies at the Kerr Mine. Alteration intensity, which is reflected in thicker sections of EGC, is noted to increase from west to east. Shoshonitic dykes present on the 1000 level are, at times intimately associated with carbonate orebodies and where they are not, they are often nearby.

This northern ultramafic is followed by a 100 foot thick section of **mixed massive mafic volcanic** and **ultramafic rocks** comprised of massive mafic volcanic and ASC-DGC rock.

The contact between the northern ultramafic and mixed mafic volcanic/ultramafic unit is separated by the Kerr Fault while in the east end it is separated by a three foot mafic to intermediate dyke. The Kerr Fault is traversing this ultramafic/mafic contact at a shallow oblique angle.

Following the mixed mafic volcanic/ultramafic unit is a 160 foot section of TCS (**central ultramafic**). The true thickness of this unit is not known as the contact with the underlying massive mafic volcanic unit is covered by shotcrete.

The **massive mafic volcanic** unit is 375 feet in thickness and monotonous in texture. There is locally moderate to abundant quartz veining and faulting present.

The massive mafic volcanic is followed by a 300 foot wide section of **mafic agglomerate.** The contact between the mafic volcanic and mafic agglomerate is separated by minor graphitic interflow sediments and a mafic dyke. Within the mafic agglomerate are other mafic dykes including thin sections of brown and grey carbonate and massive mafic volcanic.

At the northern end of the mafic agglomerate, which is the stratigraphic bottom, there is a 150 foot thick area with 2 to 15 percent pyrite which is related to a E-W trending, south dipping fault and minor ladder quartz veining. This fault has been labelled the *South Cross Cut Fault* (SXC). As will be discussed in the lithogeochemical section of this report, this section of the mafic agglomerate is strongly anomalous in gold and arsenic and is considered to be a significant exploration target particularly because it dips south toward the Mill Zone.

The mafic agglomerate is underlain by a **southern ultramafic** sequence which includes the Mill Zone. This unit consists of DGC, massive mafic volcanic, grey to brown carbonate, an amphibolitized mafic volcanic (Mill Zone) and TSS-UM. The southern ultramafic, based on sparse drilling, is about 600 feet thick. A second auriferous horizon known as the South Zone lies along the southern contact.

As the lithogeochemical part of this section will confirm, the amphibolitized mafic volcanic appears to be the primary host to the gold mineralization within the Mill Zone. This is a new and potentially very important interpretation with regard to grade. Previous and current mine operators have concentrated in defining ore in the adjacent green carbonate, which appears to be an erratic gold host at best. More importantly the gold in the amphibolitized mafic volcanic appears to be associated with north trending ladder quartz veins and pyrite haloes around these quartz veins. Since all of the previous drilling on the Mill Zone was done in a north or south direction, it would indicate the assay data from the core would likely be unreliable in terms of trying to define average gold tenure.

Quartz Veining - 1000 Level

Quartz veining on the 1000 level is generally very minor with the exception of the fuchsite-carbonate rocks (EGC, GC, DGC) and the amphibolite section of the Mill Zone. In the EGC rocks, where quartz veining is the most dense and occurs as stockworks, veining can reach up to 30 volume percent of the rock.

Shearing - 1000 Level

Shearing is generally moderate to strong north of the number three shaft and generally weak to locally strong south of the shaft. The TCS units tend to be the most sheared rocks.

Sulphide Content - 1000 Level

Sulphide content is very low throughout the 1000 level with the exception of a few short local intervals. Where these intervals occur the pyrite content, which is the only sulphide observed, may reach up to 15 volume percent. In areas where carbonate ore was mined and our sampling did return anomalous gold values, pyrite content was found to be up to three to four volume percent. Flow ore is reportedly to contain generally greater than ten volume per cent pyrite. Mine reports indicate fine grained pyrite tended to host gold more so than coarse grained pyrite.

The Mill Zone amphibolite is also locally very high in pyrite content reaching up to five volume per cent to near massive sulphide levels. The pyrite in the Mill Zone can be either fine or coarse grained.

2050 Level Geological Mapping Results

From north to south the rocks on the 2050 level begin with a **northern ultramafic** unit which is 175 to 350 feet wide. This unit consists of EGC, GC, DGC, TSS-UM and TCS. Similar to the 1000 level, the EGC-GC rocks are more dominant in the east where they attain a thickness of greater than 350 feet. Most of, and usually the larger carbonate orebodies, mined on the 2050 level are associated with the EGC zones. Shoshonitic dykes which are present on the 2050 level are intimately associated with carbonate orebodies.

The northern ultramafic is underlain by a 80 to 200 foot wide section of **mixed mafic volcanic/ultramafic-mafic agglomerate**. These rocks consist dominantly of two wide lenses of mixed mafic volcanic (DGC) and mafic agglomerate. The lenses of mafic volcanic are host to the flow orebodies. Similar to the 1000 level, the two mafic lenses are separated by a thin unit of GC-DGC (ultramafic). The Kerr fault, as it did on the 1000 level, occurs along this thin unit of ultramafic, except in the east end of the 2050 level, where it crosses into the southern mafic agglomerate-mafic volcanic lense. This same situation occurs in the same end on the 1000 level.

The mixed mafic agglomerate-mafic volcanic/ultramafic unit is underlain by a 360 foot thick **central ultramafic** which texturally look like agglomerates. Within this unit are 10 to 30 foot wide sections of TSS-UM and grey carbonate, concentrated in the north end of the unit, and massive mafic volcanic, in the south end. A 125 foot wide unit of TCS has also been mapped within the center of this agglomeratic unit but its composition is questionable as this entire unit is completely covered by shotcrete. We are basing our rock type interpretation on a few windows present within the shotcrete.

In the north end of this central ultramafic unit, there are several quartz vein swarms hosted within an ultramafic agglomerate section. As will be presented in the lithogeochemical part of this section, the most northern swarm is slightly anomalous in gold.

Following the ultramafic agglomerate is a monotonous unit of **massive mafic volcanics** with some minor, thin (<3 feet) graphitic interflow sediments. The true thickness of this unit is unknown as the south cross cut on the 2050 level terminated in this rock type.

At the contact of the ultramafic agglomerate and massive mafic volcanics is a 25 foot wide **feldspar porphyry** of granodiorite composition. All contacts are irregular but sharp with no alteration halo. This rock type was not seen elsewhere in any of the other areas mapped.

Quartz Veining - 2050 Level

With the exception of the fuchsite-carbonate rocks (EGC, GC, DGC) quartz veining is very minor. In the EGC rocks, where quartz veining is the most dense and occurs as stockworks, veining can reach up to 90 volume percent of the rock. These quartz-rich areas have been labelled *siliceous* or *"sil" breaks* by the mine staff. Such siliceous breaks can occur alone or in association with shoshonitic dykes. Examples of both of these occurrences can be seen the in the EGC rocks of the northern ultramafic unit.

Shearing - 2050 Level

Shearing is highly variable in the fuchsite-carbonate rocks of the northern ultramafic unit. However, in general, is appears there is weak shearing in the west and more moderate to locally strong shearing in the east. The mixed mafic agglomerate-mafic volcanic/ultramafic and the central ultramafic units show weak to moderate and very strong shearing, respectively. The southern mafic volcanic unit is mainly only weakly sheared.

Sulphide Content - 2050 Level

Pyrite is not often seen in the rocks of the 2050 level. However, slight increases of up to five volume percent were noted around the sil break-shoshonitic dyke and in a thin GC unit 60 feet north of the Kerr fault in the east north cross cut. The mafic agglomerate of the mixed mafic agglomerate-mafic volcanic/ultramafic unit was found to contain a consistent amount of pyrite in the two to five volume percent range. Elsewhere, the southern mafic volcanics sporadically contain two to four volume percent pyrite.

3850 Level Geological Mapping Results

From north to south the rocks on the 3850 level begin with **Timiskaming sediments** comprised of greywacke and graphitic slates.

These sediments are followed by a 260 foot wide **northern ultramafic** unit which consists of wide sections (>50 feet) of EGC and TCS. Surprisingly, the EGC on the 3850 level does not host any carbonate orebodies. There are also thinner sections of DGC, grey carbonate, TSS-UM and mafic volcanic present.

A 25 foot wide mylonite zone occurs in the northern end of this unit and 25 feet south of the contact with the Timiskaming sediments. This mylonite zone is interpreted to be the Kirkland Lake-Larder Lake Break. This interpretation is based on government literature which indicates the KL-LL Break is supposed to occur along the Timiskaming sediment-Larder Lake Group volcanic contact. In addition, at the McWatters Mine in Rouyn-Noranda, Quebec, the Cadillac-Malartic Break (which is the Quebec name for the Kirkland Lake-Larder Lake Break) has been identified in the underground workings and is identical in appearance as it is seen on the 3850 level of the Kerr Mine.

The ultramafics are followed by a 150 foot wide assemblage of **mixed mafic volcanic and ultramafic rock.** It is within this package of rocks where the high grade flow orebodies occur. The flow orebodies, like on the upper levels are interpreted to be hosted within mafic volcanic rocks. The flow orebodies on this level appear to be entirely enveloped within EGC, GC or grey carbonate rock as opposed to being in near fault contact with the Kerr fault on the 1000 and 2050 levels.

The mixed mafic volcanic/ultramafic package is underlain by a 50 foot wide section of TCS. This **central ultramafic** section is strongly schistose and as a result unstable. The entire section has been cribbed.

The central ultramafic package is underlain by a 40 foot wide section of **massive mafic volcanic** which in part is altered to grey carbonate. This unit is locally highly fractured and contains abundant barren? quartz veining. This unit is in fault contact with a 300 foot wide unit of mafic agglomerate. The fault at this contact is the Kerr fault.

The **mafic agglomerate** unit is monotonous in appearance and frequently cut by many thin faults and rarely by quartz veins.

Following the mafic agglomerates is a 500 foot wide zone of primarily ultramafic rocks. This **southern ultramafic unit** consists mainly of wide sections of DGC, TSS-UM and TCS. There are also minor sections of EGC, GC and brown to grey carbonate. Centrally located in this ultramafic section is a 80 foot wide unit of massive mafic volcanic and ASC rock. This mafic unit is immediately overlain by a thin (<5 foot) unit of interflow sediment and then by what has been mapped as a TSS-UM/DGC unit. These rocks contain two separate zones of pyrite-bearing quartz veining. This zone has been interpreted to be the down dip extension of the Mill Zone present on the 1000 level due to its position within the stratigraphic sequence. There are significant gold values associated with the Mill Zone-like pyritic quartz veins in this area.

Quartz Veining - 3850 Level

There was no quartz veining present in the mapped section of the Timiskaming sediments. However several bull quartz lenses were observed further north along the drift. In the northern ultramafic there is abundant quartz veining, up to 30 volume percent, and over a 45 foot thickness, immediately adjacent to one of the flow orebodies. Elsewhere in the unit there is locally up to two volume percent. Immediately adjacent to the flow ore in the mixed mafic volcanic/ultramafic section quartz veining is up to 15 volume percent and elsewhere there is two to four volume percent. The central ultramafic unit contains on average five volume percent quartz veining while the underlying mafic volcanic unit contains up to 20 volume percent. The mafic agglomerate contains no quartz veining except for a few local areas. Minor to moderate quartz veining in the southern ultramafic is restricted to the DGC, grey carbonate and Mill Zone rocks.

Shearing - 3850 Level

Shearing is strong in the Timiskaming sediments and for the most part moderate to strong in the northern ultramafic. The mixed mafic volcanic/ultramafic unit is weakly sheared in the fuchsite-carbonate rocks and strong elsewhere. The central ultramafic is very strongly sheared. The mafic volcanic unit is weak to locally strongly sheared while the mafic agglomerate is moderately to strongly sheared. The southern ultramafic is highly variable but for the most part is moderately sheared.

Sulphide Content - 3850 Level

No sulphides were visible in the Timiskaming sediments. The northern ultramafic unit, which contains the majority of the fuchsite-carbonate rocks, are only locally pyritiferous with up to two volume percent. Where the mixed mafic volcanic/ultramafic unit is visible next to a mined out flow orebody, there is 10 to 15 volume percent pyrite present. The central ultramafic unit does not contain any visible pyrite, however, the underlying mafic volcanic contains moderate amounts of pyrite of up to 15 volume percent. The mafic agglomerate contains on average two volume percent pyrite and locally up to ten volume percent. The southern ultramafic contains no visible sulphide except for several localized areas. Where sulphide is present there is five to ten volume percent. Not all pyritic areas are anomalous in gold but usually where there are higher percentages of sulphide, gold is weak to strongly anomalous.

LEVEL LITHOGEOCHEMICAL RESULTS

Table 1 below shows the seven primary elements used in the geochemical interpretation, their varying anomaly levels and corresponding values.

TABLE 1

ANOMALOUS THRESHOLD VALUES

	Au (ppb)	As (ppm)	Cr (ppm)	Al (%)	Ca (%)	Fe (%)	Mg (%)
Very Weak	<100	<100					
Weak	101-1000	101-300					
Moderate	1001-4000	301-600					
Strong	>4001	>601					
Very Depleted			<100	<1.00	<8.00	<5.00	<4.00
Depleted			101-500	1.01-3.00	8.01-12.00	5.01-7.00	4.01-8.00
Enriched			501-1500	3.01-4.00	12.01-1600	7.01-9.00	8.01-12.00
Very Enriched			>1501	>4.01	>16.01	>9.01	>12.01

To fully understand and follow what is being said in the lithogeochemical sections it is recommended the reader refer to the respective level geochemical map.

1000 Level Lithogeochemical Results

In summary the rocks on the 1000 level consist of, from north to south, a **northern ultramafic** unit, a **mixed mafic volcanic/ultramafic** unit, a **central ultramafic**, a **massive mafic volcanic**, **mafic agglomerate** and finally a **southern ultramafic** unit which comprises the Mill Zone.

Northern Ultramafic

Whole rock results indicate these rocks are low to high Mg-basaltic komatiites. This sequence of rocks host the carbonate orebodies of the Kerr Mine. Areas of depleted Cr content (200 to 300 ppm vs >1000 ppm) tend to host more and larger carbonate orebodies. In addition, in these depleted Cr areas, Mg tends to be enriched (>9 to 10% vs <9%) and Al very depleted (<<1% vs >>1%) relative to the surrounding non ore-hosting komatiites. The increase in EGC rocks from west to east, as noted in the previous section, is also reflected in the Mg content which ranges from weak to enriched in the west to dominantly enriched to very enriched in the east. Arsenic is invariably moderate to strong in ore-producing areas and depleted in other areas. Iron is, as to be expected, very depleted to depleted while calcium is slightly stronger in the west than in the east. This is coincident with more intense fuchsite-carbonate alteration in the east.

Mixed Mafic Volcanic/Ultramafic

This sequence of rocks consists primarily of two wide sections of iron tholeiitic mafic volcanics. These volcanics are mainly concentrated in the east and central parts of the 1000 level. As one progresses towards the west a facies change occurs as komatiite interflow units become the dominate rock type.

These two thick tholeiite units are separated by a thin continuous unit of basaltic komatiite. In the west and central areas of the 1000 level the Kerr fault is observed to occur along this komatiitic unit but in the east end the Kerr fault is observed to be south of this unit and presumably cross cutting the komatiite-tholeiite contact.

These iron tholeiite units are noted to host the flow orebodies at the Kerr Mine. All of the orebodies south of the Kerr fault are assumed to be flow orebodies and are interpreted to be part of the second stratigraphically higher iron tholeiite unit. These wide units may in fact reflect several thin lenses of iron tholeiite within Mg basaltic komatiite rocks.

The iron tholeiites are very weak to weak in As, very depleted to depleted in Cr, enriched to very enriched in Al, very depleted in Ca, enriched to very enriched in Fe, and very depleted in Mg.

In contrast the basaltic komatiites are very weak in As, enriched to very enriched in Cr, very depleted to depleted in Al, depleted to very enriched in Ca, very depleted in Fe and very depleted to depleted in Mg. Chrome seems to be diagnostic of tholeiitic and komatiitic rocks - tholeiites contain consistently less than 100 ppm Cr and komatiites greater than 1000 ppm Cr.

Central Ultramafic

Following the mixed mafic/ultramafic section is a unit of ultramafic consisting of TCS. Chemically this is a low Mg basaltic komatiite. It was noted to be very weak in As, very enriched in Cr, depleted in Al, very enriched in Ca, very depleted in Fe and very depleted in Mg.

Massive Mafic Volcanic

These rocks are typical iron tholeiites. They are very weak in As and Cr, depleted to enriched in Al, depleted in Ca, enriched in Fe and very depleted in Mg. The erratic nature of Al is unresolved but may be a primary compositional feature given the limited alteration in this unit.

Mafic Agglomerate

The mafic agglomerates, like the overlying mafic volcanics, are iron tholeiite in composition and very likely genetically related. ICP data indicates they are for the most part very weak to weak in As except for a 125 foot As-high interval which begins at the SXC fault and trends southward. This southward trend indicates the SXC fault and its hanging wall rocks are mineralized. Cyprus sampling showed this fault contains up to 0.05 opt Au and 1.1% As. Kerr Addison sampling, however, returned a grade of 0.25 opt Au from the same fault.

In terms of Cr the agglomerate is very depleted, Al is also depleted except for a 50 foot section, at the stratigraphic top of the unit, which is enriched to very enriched. This Al high area roughly corresponds with a section of increased quartz veining. Calcium is very depleted throughout the section except for the stratigraphic bottom where there is enough of an increase to rank it as depleted. Iron content in the agglomerates varies considerably. Enrichment in Fe can be attributed to a recognized increase in pyrite and/or quartz veining while areas of Fe depletion are noted to be coincident to interflow ultramafics or trace concentrations of pyrite. Magnesium is very depleted throughout the agglomerate section.

Southern Ultramafic/Mill Zone

Of the four whole rock samples taken in this section three indicated the rocks are low to high Mg-basaltic komatiites. The fourth was taken from the Mill Zone amphibolite which indicated the rock is an Fe-rich tholeiite. In house discussions have speculated this rock may in fact be a Fe-rich volcanic sediment. M.V.W. White's petrographic study of the same sample infers this is possible as well.

Two units of massive mafic volcanic have been mapped in this komatiitic section. Trace element distribution indicates the entire section is komatiitic, including the mafic rocks.

Arsenic is noted to be moderate to strong throughout the section except for the Mill Zone amphibolite and adjacent DGC where it is very weak to weak. The most southern end of this komatiitic section is also very weak in As. Like arsenic, chrome is enriched to very enriched throughout the section except it is depleted in the Mill Zone amphibolite and enriched to very enriched in the adjacent DGC. Aluminum is very depleted to depleted but very depleted within a intensely carbonated section of ultramafic immediately south of the Mill Zone amphibolite. Calcium is very depleted overall but increases slightly to the south. Iron is very depleted to depleted but as expected there is a very enriched Fe section coincident with the Mill Zone amphibolite and adjacent DGC. Another Fe-rich section is coincident with a DGC unit at the contact with the overlying agglomerate. Both of these sections have three to ten volume percent pyrite associated with them. In terms of Mg it is very depleted to depleted except for a Mg-rich section which coincides with the Al depleted-intensely carbonated ultramafic section previously mentioned.

Table 2 below summarizes the reaction of each element in the different units identified on the 1000 level.

TABLE 2

LITHOGEOCHEMICAL RESULTS BY STRATIGRAPHIC UNIT
1000 LEVEL

	As	Cr	Al	Ca	Fe	Mg
North Ultramafic	vw-s	d-ve	vd-d	vd-d	vd-d	d-ve
Mixed Mafic volcanic/ultramafic						
Iron tholeiites	vw-w	vd-d	e-ve	vd	e-ve	vd
Basaltic komatiites	vw	e-ve	vd-d	de	vd	vd-d
Central Ultramafic	vw	ve	d	ve	vd	vd
North Mafic Volcanic	vw	vd	d	d	e	vd
Mafic Agglomerate	vw-s	vd-d	vd-ve	vd-d	vd-ve	vd
Southern Ultramafic	vw-s	e-ve	vd-d	vd-e	vd-ve	vd-e
Mill Zone	m-s	d	vd	d	e-ve	d

vw - very weak w - weak m - moderate s - strong
vd - very depleted d - depleted e - enriched ve - very enriched

2050 Level Lithogeochemical Results

To summarize the above, the rocks on the 2050 level, from north to south, consist of a **northern ultramafic** unit, **mixed mafic agglomerate-mafic volcanic/ultramafic**, a **central ultramafic agglomerate**, **feldspar porphyry** and **massive mafic volcanic.**

Northern Ultramafic

According to Jensen's cation classification the rocks comprising this ultramafic section are low to high Mg basaltic komatiites. These komatiites are the down dip equivalents to the Northern Ultramafic section on 1000 level based on their chemistry and the fact they contain carbonate orebodies.

As on 1000 level the depleted Cr, enriched Mg and very depleted Al areas tend to host the larger carbonate orebodies. The increase in EGC and GC rocks is quite obvious on the 2050 level. In the west, of the 175 feet of exposed ultramafic, 110 feet of it is EGC to GC. In the east the entire 350 foot exposed width of ultramafic consists of EGC and GC rock. In part the widths are due to what has been exposed but more importantly this is emphasising wider sections of EGC-GC rocks are more likely to host pockets of economic gold mineralization.

Arsenic is moderate to strong throughout this unit, Cr is depleted to enriched (generally depleted where carbonate orebodies were mined), Al is very depleted in the carbonated rocks (EGC-GC-DGC) and slightly elevated, but still depleted, in the uncarbonated ultramafic rocks. Calcium is generally very depleted to depleted throughout most of the section but there are a few thin to thick sections (up to 40 feet) which are enriched to very enriched. These higher Ca sections are unexplained. Iron content is very depleted while Mg is generally depleted with a few enriched to very enriched sections which tend to correspond to the depleted Cr areas and where carbonate orebodies were mined.

Mixed Mafic Agglomerate-Mafic Volcanic/Ultramafic

This unit is equivalent to the mixed mafic volcanic/ultramafic unit on the 1000 level. Whole rock samples support the interpretation that these rocks are more mafic in composition than ultramafic since all three samples plotted as Fe tholeiites.

ICP analysis shows this section is very weak in As. The center of this unit is also very depleted to depleted in Cr, except for the inside contacts where the Cr content is enriched. These elevated levels are more indicative of ultramafic affinities. Aluminum is depleted throughout except for the center of the unit where Al is enriched. This enriched Al area is coincident with the area of depleted Cr. Calcium content is very erratic except in the depleted Cr-enriched Al zone where the Ca is very depleted. Iron is enriched to very enriched in the anomalous Cr-Al-Ca zone and depleted elsewhere. Mg is generally very depleted throughout.

Central Ultramafic Agglomerate

This ultramafic agglomerate is equivalent to the central ultramafic unit on the 1000 level. Chemistry indicates these rocks are low Mg-basaltic komatiites in the north end of the unit and grade to Fe-basaltic komatiites in the south, or stratigraphic top.

Megascopically these rocks were mapped mainly as ultramafic agglomerates with several thin to thick sections of TCS, TSS-UM and grey carbonate.

Arsenic is very weak throughout this unit except for a quartz vein swarm area where there is moderate to strong As. This quartz vein swarm contains up to ten volume percent pyrite and a high of 280 ppb gold. Chrome is enriched to very enriched except at the strong As zone where it is depleted. Aluminum is depleted throughout the section except for the As-Cr anomalous area where it is very depleted. The calcium content is quite erratic but there is a notable very enriched Ca area coincident with the last, southern, 75 feet of this ultramafic agglomerate. This increase in calcium is likely reflecting the strong calcite alteration in the rocks. Iron content is very depleted throughout the unit. Magnesium is depleted in the northern half of the unit and very depleted in the southern half or stratigraphic top to the unit.

Feldspar Porphyry Dyke

Occurring at the contact between the ultramafic agglomerate and overlying massive mafic volcanics is a 25 foot wide feldspar porphyry dyke. Compositionally this intrusive is a granodiorite. Chemically it is very weak in As, very depleted to depleted in Cr and very depleted in Al, Ca, Fe and Mg.

Massive Mafic Volcanic

This section is Fe tholeiitic in composition. It is equivalent to the massive mafic volcanic rocks encountered just south of the number three shaft on the 1000 level. These rocks are very weak in As, very depleted to depleted in Cr, depleted to enriched in Al and very depleted in Ca. Curiously there is enriched to very enriched Fe in the northern half of the unit while the southern half is primarily depleted in Fe. Magnesium is very depleted throughout the section.

Table 3 below summarizes the reaction of each element in the different units identified on the 2050 level.

TABLE 3

LITHOGEOCHEMICAL RESULTS BY STRATIGRAPHIC UNIT
2050 LEVEL

	As	Cr	Al	Ca	Fe	Mg
North Ultramafic	m-s	d-e	vd-d	vd-ve	vd	w-ve
Mixed Mafic Volcanic/Ultramafic	vw	vd-e	d-d	vd-ve	d-ve	vd
Central Ultramafic Agglomerate	vw-s	d-ve	vd-d	vd-ve	vd	vd-d
Feldspar Porphyry Dyke	vw	vd-d	vd	vd	vd	vd
Massive Mafic Volcanic	vw	vd-d	d-e	vd	d-ve	vd

vw - very weak **w** - weak **m** - moderate **s** - strong
vd - very depleted **d** - depleted **e** - enriched **ve** - very enriched

3850 Level Lithogeochemical Results

In cross section the rocks on the 3850 level consist of, from north to south, **Timiskaming sediments**, a **northern ultramafic section**, **mixed mafic volcanic/ultramafics**, a **central ultramafic section**, **massive mafic volcanics**, **mafic agglomerate** and a **southern ultramafic** section.

Excluding the Timiskaming sediments this sequence is identical to that occurring on the 1000 level. The northern ultramafic unit on the 3850 level is equivalent to the northern ultramafic unit on the 2050 level while the mixed mafic volcanic/ultramafic and central ultramafic rocks are equivalent to mixed mafic volcanic/ultramafic and ultramafic agglomerate section on the 2050 level. The massive mafic volcanics on 3850 are equivalent to the same on the 2050 level. The mafic agglomerate and southern ultramafic on the 3850 level are equivalent to the mafic agglomerate and southern ultramafic on the 1000 level.

Timiskaming Sediments

According to the Jensen Cation Classification these rocks are dacitic in composition. Megascopically they consist of greywackes and graphitic slates with occasional bull white quartz veins.

These rocks are very weak in As, depleted in Cr and Al, very depleted in Ca, Fe and Mg.

Northern Ultramafic

Whole rock analysis indicate these rocks are Mg basaltic komatiites. ICP indicates this unit is strong in As except for a central TCS zone which is very weak. Chrome content is depleted to enriched, Al is very depleted in the EGC zones and slightly stronger, but still depleted, in the TCS. Calcium for the most part is very depleted, Fe is very depleted to depleted and Mg is enriched to very enriched.

Mixed Mafic Volcanic/Ultramafic

Whole rock analysis shows this sequence is dominantly komatiitic but one sample taken of flow ore indicates there are tholeiitic rocks as well. This cherty flow ore sample plotted in the dacite section of the tholeiite field. Based on this whole rock analysis for the cherty flow ore sample and that the flow ore bodies on the 1000 and 2050 levels are associated to Fe tholeiite rocks, it is assumed the flow orebodies on the 3850 level are also hosted within Fe tholeiite rocks.

Approximately half of this section is heavily cribbed. The cribbed area correspond to where flow ore had been mined. Unfortunately due to the cribbing we have no assay data. Nevertheless the remaining section is strong in As, very depleted to enriched in Cr, generally very depleted in Al, very depleted to enriched in Ca, depleted in Fe and very depleted to enriched in Mg.

Central Ultramafic

This unit is a Mg-rich basaltic komatiite. The majority of this section has also been cribbed therefore very few data points are available. Indications are, however, this TCS is very weak to weak in As, depleted to very enriched in Cr, depleted in Al, very depleted to depleted in Ca and Fe and depleted in Mg.

Massive Mafic Volcanic

Megascopically this rock is mapped as a mafic volcanic which is strongly brecciated at the west end and strongly carbonated to grey carbonate in the east. Whole rock samples are conflictory as two samples indicate the unit is a Mg-basaltic komatiite while a third indicates it is Fe tholeiite in composition. ICP data shows this unit is strong in As, depleted to enriched in Cr, very depleted in Al, very depleted to enriched in Ca, depleted in Fe and depleted to enriched in Mg.

To the south this unit is in faulted contact with a mafic agglomerate. The fault at this contact is the Kerr fault. At this point it is five to seven feet wide, very graphitic and is slightly enriched in gold. Background values in the immediately vicinity are less than 100 ppb Au while in the enriched areas highs of 460 ppb and 230 ppb were reached. This fault also acts as a boundary line in terms of either enrichment or depletion of a respective element in either the mafic volcanic or underlying mafic agglomerate.

Mafic Agglomerate

This mafic agglomerate section is Fe tholeiitic in composition. It is very weak in As, very depleted to depleted in Cr and Al, very depleted in Ca, depleted to locally enriched in Fe and very depleted in Mg.

Southern Ultramafic

Whole rock sampling indicates this unit is dominantly a basaltic komatiite. There are two samples, however, which plotted as Fe tholeiites. One of these Fe tholeiite samples does correspond to a unit which was mapped as grey carbonate and is interpreted to be part of a mafic volcanic sequence within the ultramafic unit. However the second Fe tholeiite sample was taken from a unit mapped as DGC. It is assumed either the mapping or the analysis is incorrect.

Arsenic is very erratic throughout the southern ultramafic, but it is always moderate to strong in the fuchsite-carbonated rocks such as DGC and grey carbonate. These rock types, along with TCS and TSS-UM, make up the majority of the southern ultramafic section. Chrome is enriched to very enriched, except for a DGC unit at the contact with the overlying mafic agglomerate and a grey carbonate-mafic volcanic-ASR unit in the center of the southern ultramafic section. This same grey carbonate-mafic volcanic-ASR unit is very depleted to depleted in As. Aluminum is depleted throughout, Ca is coincidentally very depleted with the grey carbonate-mafic volcanic-ASR section and for the most part depleted elsewhere. Iron is very erratic ranging from very depleted to enriched.

Magnesium is generally depleted through most of the section except in the grey carbonate-mafic volcanic-ASR section where it is very depleted.

Table 4 below summarizes the reaction of each element in the different units identified on the 3850 level.

TABLE 4

LITHOGEOCHEMICAL RESULTS BY STRATIGRAPHIC UNIT
3850 LEVEL

	As	Cr	Al	Ca	Fe	Mg
Timiskaming Sediments	vw	d	d	vd	vd	vd
North Ultramafic	vw-s	d-e	vd-d	vd	vd-d	e-ve
Mixed Massive Volcanic/Ultramafic	s	vd-e	vd	vd-e	vd	vd-e
Central Ultramafic	vw-w	d-ve	d	vd-d	vd-d	d
Massive Mafic Volcanic	s	d-e	vd	vd-ve	d	d-e
Mafic Agglomerate	vw	vd-d	vd-d	vd	d-ve	vd
South Ultramafic	vw-s	d-ve	d	vd-d	vd-ve	vd-d

vw - very weak   w - weak   m - moderate   s - strong
vd - very depleted   d - depleted   e - enriched   ve - very enriched

CONCLUSIONS

The stratigraphic sequence in the Kerr Mine area begins, from north to south, with Timiskaming sediments, a northern ultramafic unit, a mixed interval of mafic volcanics and ultramafics, a central ultramafic, mafic volcanics, mafic agglomerate and a southern ultramafic. This same sequence of rocks is easily seen in each level mapped. On the 2050 level the central ultramafic is agglomeratic in texture as opposed to a flow texture as observed on the 1000 and 3850 level.

Based on whole rock analysis the ultramafics are low to high Mg-basaltic komatiites and the mafic volcanics are Fe-tholeiites. These units are easily recognizable based on their Cr content and major element chemistry. Although chemistry is indicating the ultramafics are basaltic komatiites - a mafic rock - texturally they are ultramafics and undoubtably they were, originally, ultramafics. The original chemistry of the ultramafics was ultramafic komatiite and over time these rocks have been altered to basaltic komatiites.

Two types of ore are important at the mine - *flow ore*, consisting of pyritized and silicified mafic volcanic, and *carbonate ore*, comprised of irregular quartz veins hosted in bright green fuchsitic carbonate altered ultramafic. The northern ultramafic section are host to the *carbonate orebodies* while the mafic volcanics in the mixed mafic volcanic/ultramafic section are host to the *flow orebodies*.

Trace element chemistry has shown that the carbonate orebodies occur in areas of depleted Cr (200 to 300 ppm vs >1000 ppm), very depleted Al (<<1% vs >>1%) and at times enriched Mg(>9 to 10% vs <9%). All of these elements can be used as pathfinders to alteration and gold mineralization.

Arsenic is enriched throughout the fuchsite-carbonate altered rock types. There usually is elevated As where there is anomalous gold. Arsenic also exhibits a slightly wider halo and therefore may be used as an indication of on-strike gold mineralization if, for example, an anomalous zone of As was intersected in drill core.

Of the three levels mapped only one cross section was available through what may be flow ore rocks. This section is enriched in Au (up to 0.09 opt), very depleted to depleted in As, Cr, Ca and Mg and enriched to very enriched in Fe.

Mill Zone ore is neither flow nor carbonate but instead represents a third hybrid style. Gold is associated with pyritic alteration haloes around distinctive "ladder" style veins which are perpendicular to, and restricted within, a black iron-rich mafic volcanic adjacent to a major ultramafic komatiite on the south side of the property. Since all of the previous drilling on the Mill Zone was done perpendicular to the trend of the iron-rich mafic volcanic host, it would indicate the assay data from the core would likely be unreliable in terms of defining average gold tenure and tonnage.

A characteristic of the grade distribution within the flow orebodies at the Kerr Mine is that their grade increases with depth. From our compilation and plotting of Mill Zone intercepts we find grade within this horizon also increases with depth. This confirms the potential for ore grade in these horizons below the 1000 level where most of the previous drilling is located.

There are two important fault zones on the mine property. The first is the known as the *Kirkland Lake-Larder Lake Break (KL-LL Break)* which is analogous to the Destor-Porcupine Break (D-P Break), in the Timmins area. Like the D-P Break the KL-LL Break is strike persistent (>96 miles in length) and has a multitude of gold deposits located along its length. Mine personnel and old reports frequently note that the fault has not been seen in the mine, but based on surface mapping the Break dips north at +70° north.

The Kirkland Lake-Larder Lake Break has been identified at the north end of the 3850 level near the contact between the Timiskaming sediments and northern ultramafic unit. The identification of this fault is supported by government literature which indicate the KL-LL Break is supposed to be at this lithologic contact. In addition the KL-LL Break has been recognized in the mine workings of the McWatters Mine in Rouyn-Noranda, Quebec. The

Break in this mine is identical in appearance as it is seen on the 3850 level of the Kerr Mine.

The second fault is known as the *Kerr Fault*. This fault also trends EW and dips +70° to the north. In plan this fault is a northward facing concave-shaped fault which merges into the KL-LL Break a short distance just inside the mine property boundary at its east and west extremities.

The majority of the Kerr ore deposits occur within this ellipse confined by the Kerr fault and the KL-LL Break. All ore deposits are also located within or adjacent to an easterly plunging, funnel shaped envelope of carbonate alteration which is confined within this ellipse created by the KL-LL Break and the Kerr fault. These ore deposits are also stacked; the flow ore deposits being stratigraphically higher, and most commonly adjacent to the Kerr fault, followed by the carbonate ore deposits.

Faulting appears to have played a important role in the location of gold mineralization at the Kerr Mine. The Kerr Fault may have been the main conduit for hydrothermal activity which produced the carbonate and flow orebodies. This is in direct contrast to all former mine staff who believe the Kerr Fault is post-ore.

A corollary to the above is that the former operators neither recorded nor tested fault structures for gold. Mineralized faults may be high priority drill targets because of this lack of evaluation.

A new, auriferous fault, labelled the South Cross Cut (SXC) fault, was identified on the 1000 level south cross cut. This fault is on strike of a lense of gold mineralization considered to be the Mill Zone by mine staff. Our interpretation indicates the SXC fault dips south at 45 to 65°, in contrast to both stratigraphy and the main orebodies, which dip north. The intersection of the SXC fault and the Mill Zone horizon is considered to be a priority drill target.

RECOMMENDATIONS

Confine the exploration effort to altered komatiite and Fe tholeiite rock types.

In the attempt to locate gold-bearing fuchsite-carbonate alteration zones all further sampling should be analysed for Au, As, Cr, Ca, Al, Fe and Mg. Areas of depleted Cr (200 to 300 ppm), very depleted Al (<<1%) and at times enriched Mg (>9 to 10%) are usually indicative of *proximity to carbonate ore*.

Sample all pyritized and silicified mafic volcanic rocks (Fe tholeiites) as these may be indicative of *flow ore*.

All Mill Zone drilling should be conducted at an oblique angle to the strike of the horizon in order to cut a section more perpendicular to the ladder veining and associated pyrite mineralization. These intercepts should give a better grade estimate for the Mill Zone horizon.

The area of intersection between the SXC fault and the Mill Zone horizon is recommended for drill testing.

Drill test any mineralized fault structure as the significance of these structures may have been understated by previous operators.

CYPRUS CANADA INC.
OMIP REPORT #2

KERR MINE

VIRGINIATOWN, ONTARIO
CANADA

David B. Stevenson
Kenneth Guy
David Broughton
Steve Parry

February 9, 1992
Timmins Office

SUMMARY

Cyprus Canada Inc. has recently signed a joint venture agreement with Deak Resources Corporation and GSR Mining Corporation to explore lands adjoining the Kerr Mine, Canada's third largest gold producer with past production of more than 10 million ounces.

This report presents the results of Phase 2 - a 5.5 month underground diamond drilling program conducted on levels 1300, 2050 and 2500, of the Kerr Mine. This program began July 1 and ended December 15, 1992.

The drill program was based on a compilation and interpretation of old Kerr Addison drill hole data south of the #3 shaft. This compilation and interpretation was conducted initially during January-February and later in more detail during May-June, 1992. In addition, Phase 1 of our program, which consisted of a four month underground mapping/sampling program, was conducted from April to July to determine if there were any structural or lithologic controls to the gold mineralization and to observe this a vertical and lateral sense. Please refer to "OMIP REPORT #1" dated August 25, 1992 for a summary of the results from Phase 1.

Our objective for the 1992 diamond drill program was to test the on-strike and down-dip potential of the Mill and South Zone horizons. Of the eight holes drilled all successfully intersected the Mill Zone horizon. Three of these eight holes were drilled to also intersect the South Zone. Only two of these three holes were successful in reaching their targeted depth. One hole was abandoned due to drilling problems.

A total strike length of approximately 3000 feet and a vertical length of 2400 feet was tested. Total footage drilled was 11,040 feet.

Contrary to our initial interpretation, the Mill Zone is not a single entity and does not precisely follow the northern contact of the Southern Ultramafic Unit, but rather occurs as three en-echelon horizons within a 100 foot to 300 foot wide transition zone between the Southern Ultramafic and the overlying Massive Mafic Volcanic/Agglomerate Unit. In a section from north to south these horizons are present and known as the "G" Zone, Mill Zone-1 and Mill Zone-2.

Both the "G" Zone and Mill Zone 2 horizon are strike and depth persistent structures as they can be traced from one end of the property to the other. The Mill Zone 1 horizon appears to have the greatest potential for hosting a near-term economic deposit.

C-25-1, which was one of two holes put into the Mill Zone 1 horizon, intersected 0.114 oz/t gold over a true width of 32.2 feet. The second hole returned 0.037 oz/t gold over 32.6 feet. Although these intercepts are at best subeconomic they are considered to be very exciting as the consistency of similar gold values seen in these holes is found only in flow ore mineralization in the Kerr Mine area. Our interpretation relates these gold values

to a major flexure along the mafic volcanic/ultramafic contact. The crest of this flexure has not been drilled to date and is considered to be a high priority drill target for 1993.

Of the three holes planned to test the South Zone only two were successful in reaching their targeted depth. Of these two holes one intersected the South Zone and the strong carbonate alteration system identified in prior Kerr drilling. C-25-3 intersected a 128 foot (true width) alteration zone consisting dominantly of grey to brown carbonate and minor green carbonate. Green carbonate sections are strongly silicified, contain minor white to grey quartz veins and trace to minor pyrite and chalcopyrite. These sections strongly resemble the main Kerr alteration package.

Stratigraphically below the green carbonate zones, but still within the grey to brown carbonate alteration zone, is a 13.9 foot zone of mineralized, silicified mafic volcanic. This unit contains minor smoky grey quartz veins and locally minor pyrite and trace chalcopyrite. This unit is texturally similar to the flow ore mineralization at the Kerr Mine.

The grey to brown or green carbonate zones are not anomalous in gold, however, the silicified mafic volcanic did return a value of 0.027 oz/t over 13.9 feet which included a high of 0.091 oz/t gold over 2.1 feet.

The position of the green carbonate in the hangingwall and mafic volcanic in the footwall is very encouraging as this is the same relationship between the green carbonate and flow ore deposits in the Kerr Mine.

A 15,000 foot, 12 hole program is recommended to test the tonnage and grade potential of the Mill Zone 1 horizon around the C-25-1 intercept and the South Zone horizon around the C-25-3 intercept. Additional drilling on the "G" Zone east of the Kerr #3 shaft may be warranted.

A budget of $420,000 is recommended. Approximately $330,000 will be spent on diamond drilling, $70,000 on rehabilitation and $20,000 on overhead.

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FIGURES

TABLE

APPENDICES (In Folder)

MAPS (In Folder)

1.0 INTRODUCTION

Cyprus Canada Inc. has recently signed a joint venture agreement with Deak Resources Corporation and GSR Mining Corporation to explore lands adjoining the Kerr Mine, Canada's third largest gold producer with past production of more than 10 million ounces.

Cyprus will earn a 50 percent interest in this property by spending Cdn $3,000,000 over a four year period. Approximately $600,000 Cdn has been spent to date of which half has been provided by OMIP funding, including the grant covered by this report.

This report presents the results of a 5.5 month underground drilling program conducted on levels 1300, 2050 and 2500 of the historic Kerr Mine. All holes, except for the 1300 and 2050 level holes were put in to test the gold potential of the Mill and South Zones on the west side of the #3 Shaft. The 1300 and 2050 level drilling tested only the Mill Zone, on the east side of the #3 Shaft. A total strike length of approximately 3000 feet and a vertical length of 2400 feet was tested. Total footage drilled was 11,040 feet in 8 diamond drill holes.

This report will summarize and discuss the results of the 1992 drill program only. Please refer to "OMIP REPORT #1" dated August 25, 1992 for a detailed summary of the underground mapping/sampling program.

2.0 LOCATION AND ACCESS

The Kerr Mine property is located in Virginiatown/Kearns, northeastern Ontario, approximately 500 km north of Toronto and 5 km west of the Quebec border (Figure 1).

Access is provided by an all weather paved highway #66 which connects with the towns of Kirkland Lake to the west and Rouyn-Noranda, Quebec to the east. To the west highway #66 eventually joins with highway #11 which is part of the main throughway to northeastern Ontario from Toronto.

3.0 PROPERTY STATUS AND OWNERSHIP

Deak Resources Corporation and GSR Mining Corporation jointly own 100 percent of the Kerr Mine property. Cyprus Canada Inc. has optioned that portion of the property which is south of the #3 Shaft and parallel to the mine workings. The area below the #3 Shaft is also included in the joint venture. A section of the Mill Zone horizon, where Deak has some tonnage outlined, is excluded from the joint venture (Map 1).

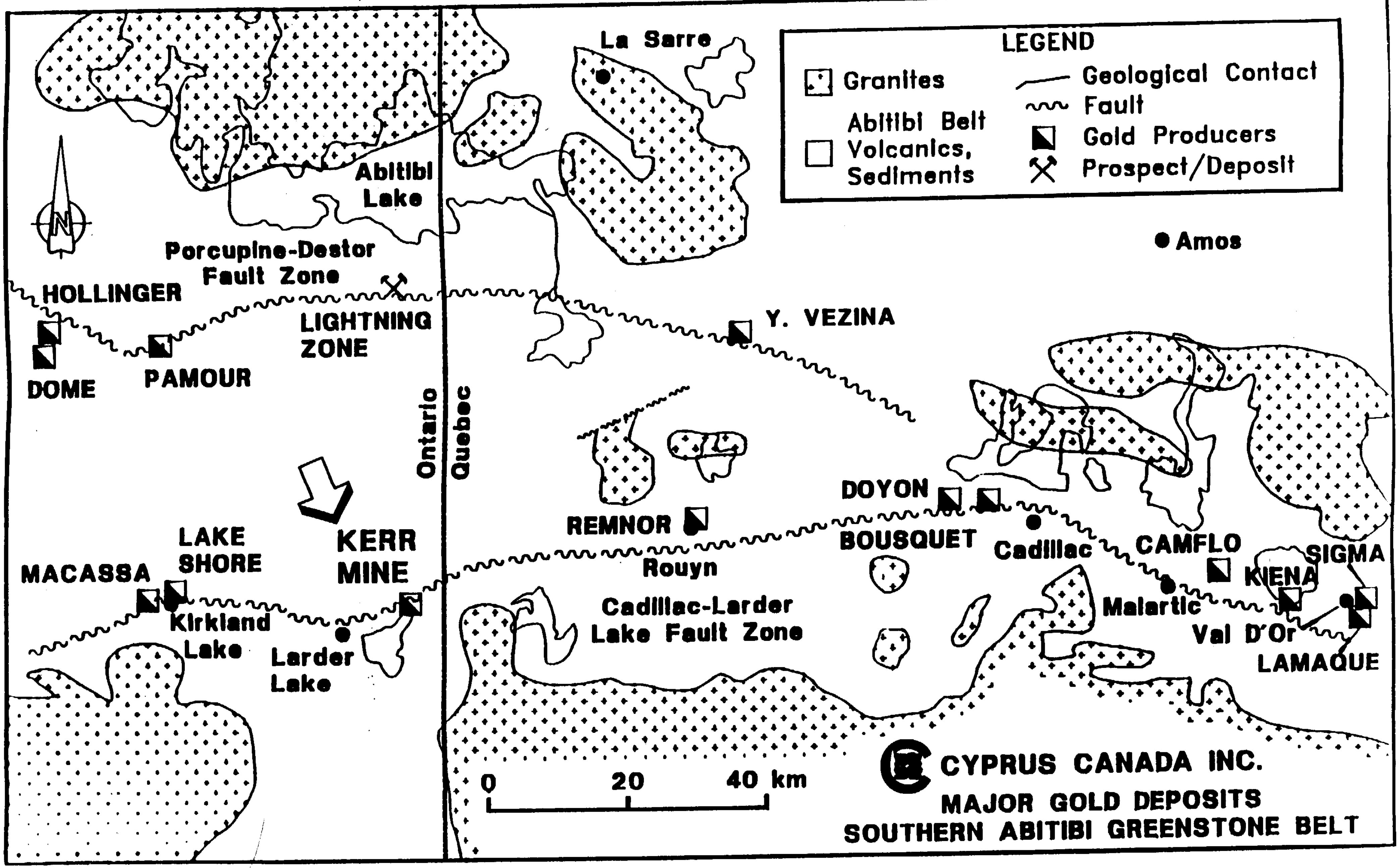

LEGEND
Granites
Abitibi Belt Volcanics, Sediments
Geological Contact
Fault
Gold Producers
Prospect/Deposit
La Sarre
Abitibi Lake
Amos
Porcupine-Destor Fault Zone
HOLLINGER
DOME
PAMOUR
LIGHTNING ZONE
Y. VEZINA
Ontario
Quebec
REMNOR
DOYON
BOUSQUET
Cadillac
CAMFLO
SIGMA
KIENA
Malartic
Val D'Or
LAMAQUE
LAKE SHORE
MACASSA
Kirkland Lake
KERR MINE
Larder Lake
Rouyn
Cadillac-Larder Lake Fault Zone
0
20
40 km
CYPRUS CANADA INC.
MAJOR GOLD DEPOSITS
SOUTHERN ABITIBI GREENSTONE BELT

Figure 1

4.0 KERR MINE GEOLOGY AND MINERALIZATION

Note the following descriptions are taken from an existing database based mainly on 30 year old reports.

The Kerr Mine started production in 1938 and to date has produced in excess of 10 million ounces of gold from 38 million tons grading 0.27 opt. The mine produced up to 500,000 ounces annually at peak production and led North American gold producers in the 1950's. Deak Resources is and has been operating the Kerr Mine on a salvage basis since 1990 and is mining approximately 1000 tpd at an average grade of 0.10 opt gold.

The Kerr ore deposits are hosted within a sequence of steep north dipping carbonated ultramafic and mafic volcanic rocks of Archean age (Figures 2 and 3). All ore deposits are located within or adjacent to an easterly plunging, funnel shaped envelope of carbonate alteration. The alteration continues well below the bottom of economic mineralization at 4400 feet. Top determinations suggest the stratigraphy is overturned and facing south.

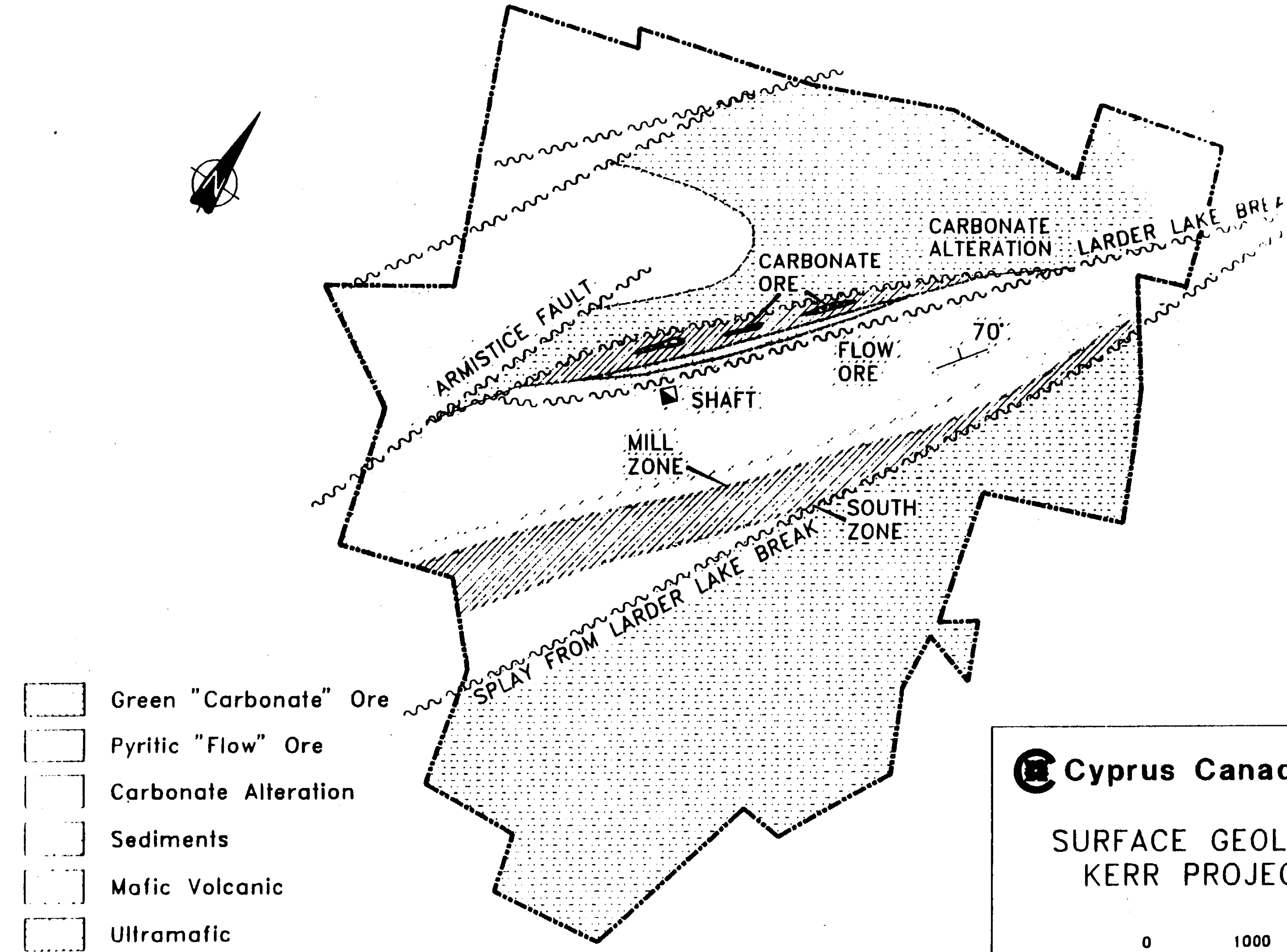
There are two important fault zones on the mine property. The first is known as the *Kirkland Lake-Larder Lake Break* which is analogous to the Destor-Porcupine Break, in the Timmins area. Like the Destor-Porcupine it is strike persistent (> 160 km in length) and has a multitude of gold deposits located along its length. The KL-LL Break is situated at the north end of the mine property, and separates the younger Timiskaming sediments and volcanics, to the north, from the Larder Lake Group ultramafic-mafic volcanic sequence, hosting the Kerr ore deposits, to the south. The KL-LL Break has been interpreted to parallel the east trending mine stratigraphy on strike and down dip.

The second structure is the *Kerr Fault*. This fault also trends east and dips 75 degrees to the north. In plan this fault is a northward facing concave-shaped fault which merges into the KL-LL Break a short distance just inside the mine property boundary at its east and west extremities. The majority of the Kerr ore deposits occur within this ellipse confined by the Kerr Fault and the KL-LL Break. The Kerr Fault may merge with the Break at depth, below the Kerr orebodies.

Two types of ore are important at the mine - *flow ore*, consisting of pyritized and silicified mafic volcanic, and *carbonate ore*, comprised of irregular quartz veins hosted in bright green fuchsitic carbonate altered ultramafic. These ore deposits are stacked; the flow ore deposits lie to the south, in the structural footwall of the carbonate ore, and most commonly adjacent to the Kerr Fault, followed by the carbonate ore deposits to the north.

The largest individual orebody at the Kerr Mine was the 21 flow ore deposit, which produced 13 million tons grading 0.38 opt.

Grade is predictable in diamond drill data from the flow ore zones, and increases with depth. Carbonate ore grade is much more erratic, and displays a pronounced nugget effect.



Cyprus Canada Inc.

SURFACE GEOLOGY
KERR PROJECT

0 1000
FEET

FIGURE 2

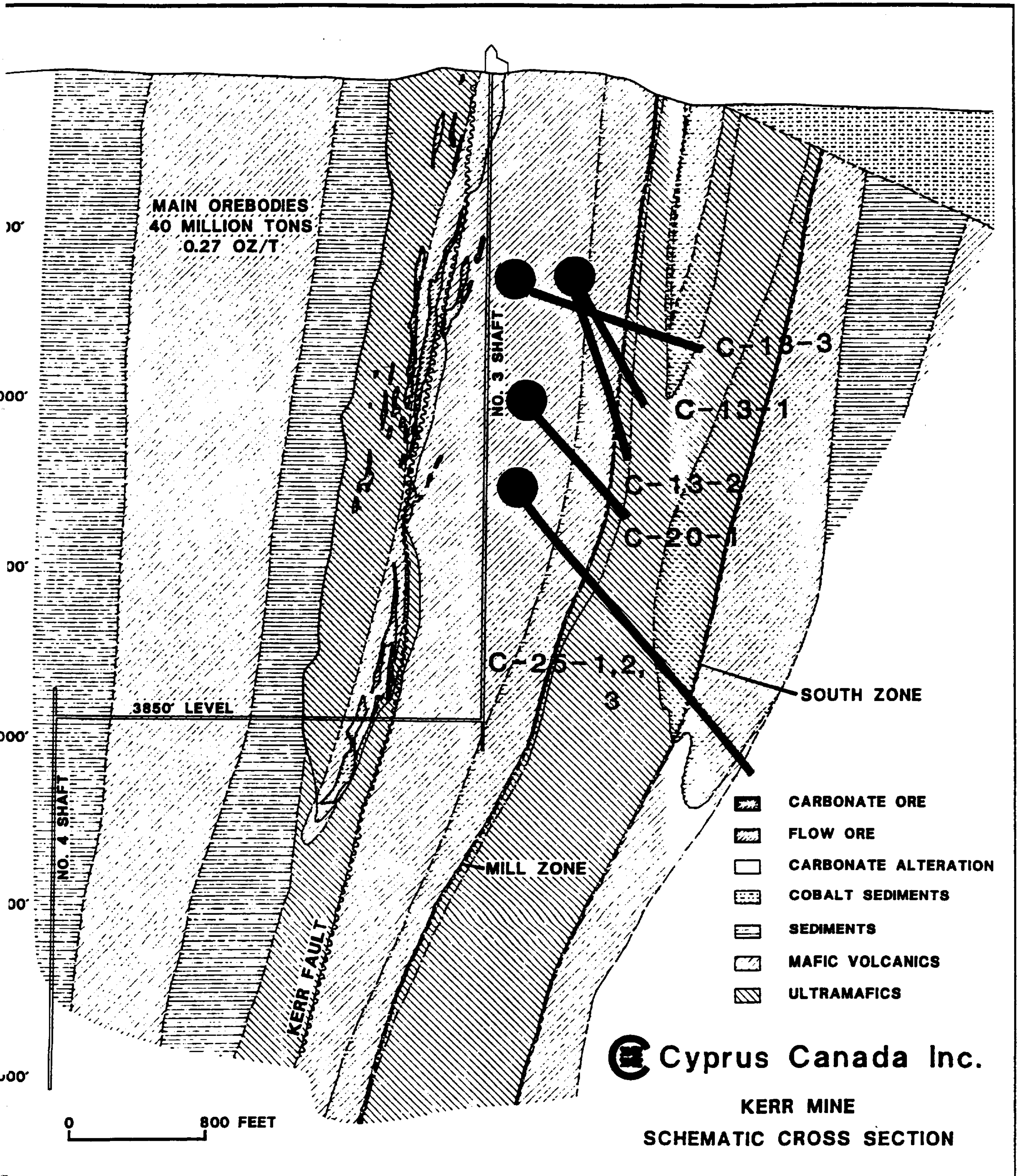

MAIN OREBODIES
40 MILLION TONS
0.27 OZ/T
NO. 3 SHAFT
NO. 4 SHAFT
3850' LEVEL
2000'
4000'
C-13-3
C-13-1
C-13-2
C-20-1
C-25-1,2,
3
SOUTH ZONE
MILL ZONE
KERR FAULT
CARBONATE ORE
FLOW ORE
CARBONATE ALTERATION
COBALT SEDIMENTS
SEDIMENTS
MAFIC VOLCANICS
ULTRAMAFICS
0
800 FEET
Cyprus Canada Inc.
KERR MINE
SCHEMATIC CROSS SECTION

Figure 3

5.0 EXPLORATION TARGETS AND TARGET SIZE

Two mineralized horizons, known as the *Mill* and *South Zones*, have been identified by diamond drilling within ultramafic and mafic volcanic stratigraphy located within 2,000 feet south of the main No. 3 shaft. This drilling was done over a vertical range of nearly 5,000 feet and a strike length of more than 9,000 feet. These zones were identified during a one month review of the Kerr Mine database during January-February and later defined in more detail in May-June, 1992.

Very limited prior drilling, mainly on the Mill Zone, returned generally subeconomic gold values in more than 90 percent of the holes drilled. However, several intercepts of up to 0.33 oz/t gold over 34 feet were intersected but were not adequately followed up to date.

The South Zone has been intersected by only ten holes and is virtually untested over most of the Kerr property. The best hole to date is 0.06 oz/t gold over 40.0 feet.

The minimum target size is a 2-3 MMT deposit averaging 0.25 oz/t Au or better. Such a target at a average thickness of 30 feet would cover a strike length of 600 feet and a dip length of 1,500 feet (2.2 MMT). Numerous zones of this size could be fit between the small number of holes on the Mill Zone. A zone as big as the entire aggregate of the old Kerr deposits could be fit into the marginally tested South Zone.

6.0 1992 DRILL PROGRAM

During 1992 a total of 11,040 feet of NQ, BQ and AQ diamond drilling was conducted in 8 holes from levels 1300, 2050 and 2500 of the Kerr Mine. Prior to drilling, a total of 1000 feet of rehab work (installation of water and air pipe and railway track) was completed in addition to the establishment of six drill stations. A total of 9744 cubic feet of rock was excavated to establish the drill stations.

The rehab work and drill station establishment were done by Kerr Mine personnel while the diamond drilling was done by Morissette Canada Inc. of Haileybury, Ontario.

All core samples were sent to Assayers and X-Ray Labs in Rouyn-Noranda, Quebec for gold and 31 element ICP analysis. Check assays were done on 10 percent to 15 percent of the rejects from each hole. Assayers and Bourlamaque Labs, of Val D'Or, Quebec did the check assaying on the drill core.

Gold results were analysed by FAAA (Fire Assay with Atomic Absorption Finish) at Assayers and by FADCP (Fire Assay and Plasma Emission Spectrometry) method at X-Ray Labs. Results for As, Cr, Al, Ca, Fe and Mg were determined by ICP (Inductively Coupled Plasma) method at both labs. Copies of all drill core assay data are attached in Appendix 1 while the analytical procedures for gold and ICP are presented in Appendix 2.

Drill core for all eight holes is stored in metal core racks at the Kerr Mine site.

All data for holes drilled into the southern stratigraphy, and relevant to the Mill or South Zones were entered into the Borsurv program. Forty-five cross sections spaced at 150 foot intervals, and in more densely drilled areas, spaced at 75 foot intervals, were produced for internal use.

Cross sections for all eight holes are located in the attached folder and labelled Maps 2 to 9.

In addition longitudinal sections for the "G" Zone, Mill Zone and South Zone were generated. The longitudinal sections for each zone are labelled Maps 10 to 12 and can be found in the same folder.

7.0 DRILL HOLE SUMMARY - GEOLOGY

The summary given below for each major rock unit is based on the summarized drill logs located in Appendix 4. This section is intended to summarize the geology, alteration and mineralization for each major rock unit, on a property scale.

7.1 Mixed Mafic Volcanic/Ultramafic Unit

C-13-3 drilled through a small portion of the Mixed Mafic Volcanic/Ultramafic Unit which hosts the #21 and #16 flow orebodies of the Kerr Mine. This Mixed Volcanic/Ultramafic Unit is identical in appearance to the mafic volcanics intersected in the Massive Mafic Volcanic/Agglomerate Unit described below and will therefore not be describe here.

7.2 Central Ultramafic/Agglomerate Unit

Holes C-13-3, 20-1 and 25-3 intersected rocks comprising the Central Ultramafic Unit. In C-13-3 the Central Ultramafic Unit is entirely comprised of a mafic agglomerate. As one proceeds down section and westward altered ultramafics were intersected in C-20-1. Weak calcite, chlorite, talc and serpentine are present along with strong iron dolomite/ankerite. It is presumed a facies change has occurred from C-13-3 to C-20-1 as our mapping on level 2050, a position intermediate to both holes, has shown the presence of ultramafic flows, ultramafic agglomerates and mafic agglomerates. Progressing further down section and westward to C-25-3 the ultramafics are moderately altered to talc, chlorite, calcite and iron dolomite/ankerite. These ultramafic flows also contain minor interbedded mafic flows. No sulphide or quartz veining is present.

The clasts in the mafic/ultramafic agglomerates are noted to be altered to calcite and to a lesser degree sericite and iron dolomite/ankerite. The hosting matrix can be composed of either calcite, chlorite, fuchsite, sericite or graphite. Only trace to 5 percent pyrite was noted with graphitic interflow units, if present in the agglomerates. No quartz veins were noted.

7.3 Massive Mafic Volcanic/Agglomerate Unit

All drill holes intersected variable thicknesses of this rock unit. It is comprised of mafic flows, tuff, agglomerates and is host to the "G" Zone and Mill Zone 1 auriferous horizons.

There appears to be 3 mafic agglomerate horizons present within this unit.

The upper agglomerate, as identified in C-13-3, grades to tuffs with depth and westward towards the 2500 level holes. East of this hole the agglomerate thins out as only a thin section of agglomerate was intersected in C-20-1.

The middle agglomerate can be traced in holes 25-1, 25-2 and 25-3. It occurs approximately in the center of the Massive Mafic Volcanic/Agglomerate sequence. To the east and upwards towards the 2050 and 1300 level drill holes, this agglomerate unit may be grading into mafic tuffs. Old Kerr Addison holes indicate the agglomerates continue westward and eventually grade into tuffs towards the Deak/Armistice boundary. An increase in the frequency of interbedded interflow graphitic sediments was noted to be occurring from east to west in the middle agglomerate unit.

The lower agglomerate is present only in holes C-13-1, 13-2, 13-3 and 20-1. This agglomerate is characterized by occurring directly at the Massive Mafic Volcanic/Agglomerate and Southern Ultramafic contact. Quartz veins and pyrite-pyrrhotite were only occasionally seen in this unit.

Alteration and mineralization in all 3 mafic agglomerates units is very similar. The clasts were noted to be altered to calcite and to a lesser degree sericite, chlorite and iron dolomite/ankerite. A change from calcite to iron dolomite/ankerite was noted in C-20-1 towards the contact with the Central Ultramafic. Most frequently the hosting matrix is graphitic argillite but calcite, chlorite, fuchsite and sericite can also be present in variable amounts. Trace to locally 5 percent pyrite and/or pyrrhotite were noted in the agglomerates, primarily in association with graphitic interflow sediments. Rare quartz veins were noted.

The mafic flows and tuffs, which host the mafic agglomerate lenses, are frequently interbedded with one another and can not be accurately traced from hole to hole in a vertical or lateral sense.

East of the #3 Shaft, which includes only the 1300 and 2050 level drilling, there is a larger volume of mafic tuffs than flows versus west of the #3 Shaft where mafic flows tend to dominate. West of the #3 Shaft there is also a progressive increase in the volume of debris flows, hyaloclastite and variolitic flows. Pillows selvages are common in the flows while the tuffs are often fine to coarsely bedded. In the Kerr Mine area variolitic flows are intimately associated with the flow orebodies while at Hemlo Gold's Lightening Zone hyaloclastites and debris flows are host to the pyritic gold mineralization. In addition variolitic flows are present at the Hollinger-McIntyre and Dome mines and either host or are marker horizons to gold mineralization.

Alteration within the mafic flows and tuffs is highly variable. Inevitably they are weak to strongly chloritized with varying degrees of calcite and/or iron dolomite/ankerite alteration. The tuffs at times are biotitic. A steady increase in iron dolomite/ankerite alteration is noted towards mineralized zones, particularly around the "G" Zone and Mill Zone 1 horizons. Quartz-calcite and/or iron dolomite/ankerite veins and veinlets are common throughout these rocks, however, quartz veins are gashes are only locally observed and often associated with strong iron dolomite/ankerite or silicified alteration zones. Sulphide content is overall low throughout these rock types except for local intervals where 5 percent to 15 percent pyrite and trace to 3 percent arsenopyrite may be present. These mineralized zones tend to occur with the stronger altered zones and with the quartz veins and gashes.

The "G" Zone is hosted by a mafic volcanic flow which has been weak to strongly altered to grey carbonate with minor green carbonate and dull green carbonate. The main alteration minerals are iron dolomite/ankerite. Less than 10 percent quartz and quartz-carbonate veins and veinlets are present. Sulphide content ranges from trace to 10 percent pyrite and nil to 3 percent arsenopyrite. Pyrrhotite was seen in only C-25-4 and occurred in up to 1 percent amounts.

The Mill Zone 1 horizon occurs directly at the Massive Mafic Volcanic/Agglomerate and Southern Ultramafic contact. It is intersected in only holes C-25-1 and 25-4. This horizon resembles a mafic volcanic which has been moderately to strongly silicified and carbonatized to iron dolomite/ankerite and/or calcite. Minor amounts of dull green carbonate may be present. Abundant smoky grey quartz veins and near massive amounts of pyrite, minor arsenopyrite and trace chalcopyrite are common. In C-25-1 two small clusters of visible gold were observed to be associated with the quartz veins.

7.4 Southern Ultramafic Unit

This rock unit includes, in decreasing alteration intensity, green carbonate, dull green carbonate, grey to brown carbonate, carbonatized ultramafic, chlorite carbonate schist, talc carbonate schist, talc chlorite carbonate schist, talc chlorite schist, talc chlorite ultramafic, ultramafic breccia, ultramafic tuff to agglomerate, ultramafic flows and minor mafic volcanics and interflow sediments.

All of the above, with the exception of the mafic volcanics and interflow sediments are interpreted to be of ultramafic origin as polysutures, spinifex and polygonal jointing are occasionally present. Each ultramafic rock type has been affected by varying degrees of deformation and alteration resulting in the many different descriptive names. Individual rock types were not traceable from hole to hole. All of the ultramafic rocks, except green carbonate, dull green carbonate and grey to brown carbonate, are weak to at times strongly altered to iron dolomite/ankerite and/or calcite. The unit names are describing the main alteration minerals which are affecting it. This group of rocks also tend to have a high percentage (up to 40%) of foliation parallel calcite and/or iron dolomite/ankerite veins and veinlets. Quartz veining and sulphide content is usually nil to trace, but rare localized amounts of much less than 20 percent quartz veining, 10 percent pyrite or pyrrhotite, 1 percent arsenopyrite, and trace chalcopyrite, magnetite can occur.

The green carbonate, dull green carbonate and grey to brown carbonates often occur together and are the only units, other than the mafic volcanics and interflow sediments, which are traceable from hole to hole within the Southern Ultramafic. These types of alteration are reflecting a continuous altered and at time auriferous feature which is easily discernable from the other rock types. The Mill Zone 2 and South Zone are comprised, in part, of these alteration types.

The main alteration mineral in the Mill Zone 2 and South Zone horizons is iron dolomite/ankerite with lesser calcite and fuchsite. Fuchsite content is usually less than 10 percent. As observed in the overlying Massive Mafic Volcanic/Agglomerate Unit, calcite is gradually replaced by iron dolomite/ankerite towards these intense iron dolomite/ankerite zones. Particularly in the Mill Zone 2 horizon, ladder-style quartz and quartz-carbonate veins are abundant (up to 60%) and are haloed by less than 2 percent to near massive amounts of fine to coarse grained pyrite, arsenopyrite and trace chalcopyrite. The vein widths are less than 2 inches. The South Zone contains only very minor (less than 5%) quartz veining and trace to 4 percent pyrite and trace chalcopyrite.

The Mill Zone 2 horizon is a strike and depth persistent feature and was easily traced from one end of the property to the other.

Insufficient drilling has been done on the South Zone to accurately describe its location, however, the indication is that it widens to the west and may pinch out to the east.

7.5 Southern Sediment/Volcanic Unit

Only C-25-2 and 25-3 intersected the Southern Sediment/Volcanic Unit. These consist mainly of interbedded and reworked greywackes, graphitic argillites and mafic tuffs/flows.

The sediments were noted to be non to weakly calcitic with minor calcite veinlets and rare foliation parallel quartz veins. Trace to 1 percent pyrite and pyrrhotite is present. Top determinations suggest tops are to the north, which is in contrast to those observed in the volcanics.

The mafic tuffs/flows are weak to locally strongly calcitic and rarely weakly fuchsitic. At times these rocks may contain up to 3 percent grey quartz veins and trace to locally 2 percent pyrite and pyrrhotite.

8.0 DRILL HOLE SUMMARY - ASSAY RESULTS

The table on the following page shows the 1992 diamond drilling results. All eight holes intersected the Mill Zone horizon. Contrary to our initial interpretation, the Mill Zone is not a single entity and does not precisely follow the northern contact of the Southern Ultramafic Unit, but rather occurs as three en-echelon horizons within a 100 foot to 300 foot wide transition zone between the Southern Ultramafic and the overlying Massive Mafic Volcanic/Agglomerate Unit. In a section from north to south these horizons are present and known as the "G" Zone, Mill Zone-1 (MZ-1) and Mill Zone-2 (MZ-2).

The "G" Zone horizon occurs only in the hangingwall Massive Mafic Volcanic/Agglomerate Unit while the MZ-2 horizon occurs only in footwall Southern Ultramafic Unit. The MZ-1 horizon has a relatively short strike length, less than 900 feet, and occurs directly at the Massive Mafic Volcanic/Agglomerate and Southern Ultramafic contact.

The "G" Zone and MZ-2 horizons are strike and depth persistent structures as both can be traced from one end of the property to the other in a lateral and vertical sense. The vertical extent of the MZ-1 is not known due to the lack of drilling in the area of C-25-1 and C-25-4.

The "G" Zone and MZ-2 horizons appear to cross cut sub-units within the 100 foot to 300 foot transition zone suggesting they are structurally controlled. These horizons converge and overlap with the MZ-1 horizon only in the C-25-1 area. Coincidentally a major flexure of the Massive Mafic Volcanic/Agglomerate and Southern Ultramafic contact is present in the C-25-1 area which produced the best intersection of the Mill Zone to date. This hole intersected a 32 foot width of consistently mineralized rock grading 0.114 oz/t gold. This consistency of similar gold values is found only in flow ore mineralization in the Kerr Mine area. Additional drilling will have to be done to determine if better grades and thicknesses of gold mineralization are present in the crest of this flexure.

As shown on the "G" Zone longitudinal there are several significant ore grade intercepts in prior drilling. The best grades occur within an ore shoot below the 4200 level and include values of 0.33 oz/t over 34 feet, 1.55 oz/t over 5 feet and 0.85 oz/t over 5 feet.

Of the three holes planned to test for the southern alteration system (South Zone), only C-25-2 and 3 were successful in reaching their targeted depth. Hole C-25-1 was abandoned at 1330 feet due to caving.

TABLE 1
KERR MINE PROJECT - DRILL HOLE ASSAY SUMMARY
TO DECEMBER 7, 1992

DRILL HOLE	LENGTH (ft)	ASSAY INTERVAL	CORE LENGTH	TRUE WIDTH	AU (opt)	ZONE
C-13-1	632	325.3 to 342.7	17.4	12.3	0.123	?
		394.7 to 399.0	4.3	2.6	0.056	?
		437.7 to 433.0	5.3	3.8	0.103	Mill
C-13-2	990	812.5 to 820.0	9.5	4.3	0.036	Mill
		834.0 to 854.0	20.0	11.5	0.055	Mill
C-13-3	1,241	885.0 to 889.5	4.5	4.4	0.155	Mill
		903.0 to 914.7	11.7	11.3	0.041	Mill
C-20-1	1,047	879.6 to 882.2	2.6	2.0	0.092	Mill
C-25-1	1,330	431.0 to 465.3	34.3	32.2	0.114	Mill
		incl 438.7 to 453.0	14.3	13.4	0.151	Mill
C-25-2	2,440	839.5 to 860.0	20.0	19.3	0.026	Mill
C-25-3	2,736	930.3 to 955.8	25.5	22.1	0.026	Mill
		2,420.0 to 2,525.0	105.0	101.4	<0.001	South
		incl 2433.8 to 2456.3	22.5	22.2	0.0005	South
		incl 2487.0 to 2493.0	6.0	5.9	0.0004	South
		incl 2497.0 to 2511.1	14.1	13.9	0.027	South
C-25-4	624	449.0 to 485.0	36.0	32.6	0.037	Mill
TOTAL FOOTAGE	11,040					

C-25-2 did not intersect the South Zone, however C-25-3 did intersect a 128 foot alteration zone consisting dominantly of grey to brown carbonate. Presumably C-25-2 drilled either under or over of the plunge of South Zone. Within the South Zone, C-25-3 intersected two zones of green carbonate alteration, one of which has a width of 22.2 feet while the other has a width of 5.9 feet. Both green carbonate zones are strongly silicified and contain minor white to grey quartz veins and trace to minor pyrite and chalcopyrite.

Stratigraphically below the green carbonate zones, but still within the grey to brown carbonate alteration zone, is a 13.9 foot zone of mineralized, silicified mafic volcanic. This unit contains minor smoky grey quartz veins and locally minor pyrite and trace chalcopyrite. This unit is texturally similar to the flow ore mineralization at the Kerr Mine.

The grey to brown or green carbonate zones are not anomalous in gold, however, the silicified mafic volcanic did return a value of 0.027 oz/t over 13.9 feet which included a high of 0.091 oz/t gold over 2.1 feet.

The position of the green carbonate in the hangingwall and mafic volcanic in the footwall is directly analogous to the green carbonate and flow ore deposits in the Kerr Mine. This remains a very significant exploration target.

9.0 PROPOSED EXPLORATION PROGRAM

A 15,000 foot, 12 hole program is recommended to test the tonnage and grade potential of the Mill Zone horizon around the C-25-1 intercept and the South Zone horizon around the C-25-3 intercept.

A total of three - 3000 foot holes is proposed for the C-25-3 area while nine - 700 foot holes will test the potential around the C-25-1 intercept.

This drill program would start approximately April 15, 1993 and be completed by June 15, 1992.

10.0 PROPOSED BUDGET

A budget of $420,000 is recommended. Approximately $330,000 will be spent on diamond drilling, $70,000 on rehabilitation and $20,000 on overhead.

APPENDICES

APPENDIX 1

GEOCHEMICAL RESULTS - GOLD, ICP AND WHOLE ROCK

XRAL

X-RAY ASSAY LABORATORIES

A DIVISION OF SGS SUPERVISION SERVICES INC.
1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA
TEL: (416)445-5755 TELEX: 06-986947 FAX: (416)445-4152

CERTIFICATE OF ANALYSIS

REPORT 18964

TO: CYPRUS CANADA
ATTN: STEVE PARRY
66 BRUCE AVE., P.O. BOX 1120
SOUTH PORCUPINE, ONTARIO
PON 1HO

CUSTOMER No. 2294

DATE SUBMITTED
28-Apr-92

REF. FILE 12150-D5

Total Pages 12

110 ROCKS Proj. KERR MINE

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.
AU G/MT	FA	.03
LI PPM	ICP	1.
BE PPM	ICP	.5
NA %	ICP	.01
MG %	ICP	.01
AL %	ICP	.01
P %	ICP	.01
K %	ICP	.01
CA %	ICP	.01
SC PPM	ICP	.5
TI %	ICP	.01
V PPM	ICP	2.
CR PPM	ICP	1.
MN %	ICP	.01
FE %	ICP	.01
CO PPM	ICP	1.

	METHOD	DETECTION LIMIT
NI PPM	ICP	1.
CU PPM	ICP	.5
ZN PPM	ICP	.5
AS PPM	ICP	3.
SR PPM	ICP	.5
Y PPM	ICP	.1
ZR PPM	ICP	.5
MO PPM	ICP	1.
AG PPM	ICP	.1
CD PPM	ICP	1.
SN PPM	ICP	10.
SB PPM	ICP	5.
BA PPM	ICP	1.
W PPM	ICP	10.
PB PPM	ICP	2.
BI PPM	ICP	3.

DATE 11-MAY-92

CERTIFIED BY ....
Jean H.L. Opdebeeck, General Manager

SAMPLE	AU PPB	AU G/MT	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
60701	2900	--	11	.9	.03	11.3	.47	<.01	.06
60702	670	--	11	.9	.03	11.5	.48	<.01	.05
60703	39	--	27	.9	.02	11.1	1.96	<.01	<.01
60704	2	--	14	.9	.02	10.5	2.09	<.01	<.01
60705	10	--	13	.8	.02	9.49	2.13	<.01	<.01
60706	1900	--	7	.9	.03	10.4	.36	<.01	.11
60707	140	--	12	.8	.02	8.84	1.95	<.01	<.01
60708	220	--	8	.8	.02	9.78	1.52	<.01	<.01
60709	30	--	8	.8	.02	10.4	1.63	<.01	<.01
60710	8	--	10	.8	.02	9.78	1.83	<.01	<.01
60711	350	--	14	.8	.02	8.07	2.24	<.01	<.01
60712	2000	--	12	.9	.03	6.55	.80	<.01	.07
60713	140	--	33	.9	.02	7.75	1.81	<.01	.02
60714	150	--	17	.9	.03	6.89	.88	<.01	.09
60715	86	--	32	.9	.03	6.53	1.33	<.01	.05
60716	200	--	28	.9	.02	9.13	1.89	<.01	<.01
60717	450	--	25	.9	.02	8.66	1.99	<.01	<.01
60718	61	--	30	.9	.02	8.00	2.45	<.01	<.01
60719	95	--	26	.9	.02	8.05	2.25	.02	<.01
60720	9	--	22	.9	.03	7.24	1.42	<.01	<.01
60721	86	--	25	.9	.03	6.41	1.54	<.01	<.01
60722	>10000	15.30	25	1.0	.03	5.75	1.66	<.01	.03
60723	160	--	10	.9	.03	5.62	.69	.02	.02
60724	11	--	21	.9	.02	8.41	2.09	<.01	<.01
60725	13	--	19	.9	.02	8.13	2.36	<.01	<.01
60726	5	--	16	.9	.02	8.03	2.08	<.01	<.01
60727	32	--	25	1.0	.02	8.98	2.36	<.01	<.01
60728	11	--	21	.9	.02	8.28	2.28	<.01	<.01
60729	48	--	25	1.0	.03	8.15	2.23	<.01	<.01
60730	29	--	28	1.0	.03	8.05	2.18	<.01	<.01
60731	40	--	38	1.1	.03	8.52	2.81	<.01	<.01
60732	45	--	10	.9	.03	5.19	.58	.02	.08
60733	130	--	28	1.1	.04	3.72	1.71	.03	.05
60734	440	--	18	1.0	.09	2.11	1.20	.07	.09
60735	27	--	41	1.4	.04	2.80	2.38	.05	.12
60736	23	--	46	1.6	.04	3.25	3.35	.05	.05
60737	4	--	25	2.1	.03	3.50	3.96	.05	<.01
60738	11	--	28	2.0	.04	3.44	4.30	.05	<.01
60739	10	--	28	1.7	.04	3.50	4.02	.05	<.01
60740	3	--	16	.9	.03	6.74	1.82	<.01	<.01
60741	2	--	16	.9	.03	6.67	1.52	<.01	<.01
60742	7	--	13	.9	.03	6.04	.80	<.01	.08
60743	10	--	14	.9	.03	7.03	.89	<.01	.08
60744	6	--	18	.9	.02	7.61	1.50	<.01	.05
60745	38	--	19	.9	.03	7.33	1.40	<.01	.02
60746	10	--	18	.9	.03	6.63	1.38	<.01	<.01
60747	13	--	14	.9	.02	7.21	1.37	<.01	<.01
60748	23	--	32	1.6	.03	4.61	3.97	.04	<.01
60749	16	--	30	1.6	.04	3.07	3.59	.05	<.01
60750	9	--	26	1.3	.04	3.11	2.99	.05	.02

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	AU PPB	AU G/MT	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
60751	4	--	28	1.6	.04	2.92	3.12	.05	.02
60752	7	--	16	1.2	.04	3.41	1.77	.04	.03
60753	4	--	3	.7	.03	4.25	.22	<.01	.09
60754	11	--	6	.8	.02	6.44	.30	<.01	.09
60755	190	--	8	.8	.03	5.86	.50	.02	.09
60756	27	--	22	.9	.02	6.78	1.42	<.01	.03
60757	6	--	15	.9	.02	5.76	.89	<.01	.09
60758	2	--	14	.7	.02	4.76	1.00	<.01	.07
60759	2	--	21	.9	.02	3.63	1.95	<.01	.02
60760	17	--	19	1.2	.03	2.24	2.60	.02	<.01
60761	4	--	19	.7	.02	2.83	2.09	<.01	<.01
60762	24	--	16	.6	.02	2.76	2.06	<.01	<.01
60763	24	--	14	.7	.02	2.97	1.98	<.01	<.01
60764	35	--	23	.8	.02	3.58	2.14	<.01	<.01
60765	49	--	16	.7	.02	3.35	2.28	<.01	.03
60766	18	--	19	.9	.02	8.05	1.93	<.01	<.01
60767	22	--	22	.9	.02	8.43	1.70	<.01	<.01
60768	44	--	14	.7	.03	7.15	1.06	<.01	<.01
60769	80	--	28	.9	.02	8.60	2.16	<.01	<.01
60770	160	--	24	.9	.02	8.26	1.99	<.01	<.01
60771	360	--	30	1.1	.03	6.07	2.30	<.01	<.01
60772	250	--	25	1.1	.03	6.19	2.15	.02	<.01
60773	46	--	27	1.2	.02	7.13	2.97	<.01	<.01
60774	26	--	23	1.1	.02	7.03	2.42	.02	<.01
60775	28	--	23	1.0	.03	5.99	1.81	.02	<.01
60776	48	--	23	.9	.03	6.79	1.80	<.01	<.01
60777	12	--	22	.9	.03	6.07	1.79	<.01	<.01
60778	16	--	16	.9	.02	7.10	1.59	<.01	<.01
60779	17	--	20	.9	.03	6.78	1.81	<.01	<.01
60780	56	--	21	.9	.03	7.67	1.53	<.01	<.01
60781	34	--	29	1.0	.02	7.76	2.42	<.01	<.01
60782	25	--	19	.9	.02	7.37	1.52	<.01	<.01
60783	17	--	19	.9	.03	7.17	1.36	<.01	<.01
60784	12	--	19	.9	.02	7.22	1.65	.02	<.01
60785	16	--	15	.9	.02	8.09	1.93	<.01	<.01
60786	43	--	10	.9	.02	8.17	1.97	<.01	<.01
60787	350	--	10	.8	.02	7.91	1.60	<.01	<.01
60788	10	--	17	.9	.02	8.57	2.76	<.01	<.01
60789	9	--	13	.9	.02	8.11	2.43	<.01	<.01
60790	7	--	27	2.3	.02	3.91	5.22	.05	<.01
60791	10	--	19	2.1	.03	3.70	4.45	.05	<.01
60792	3	--	26	2.4	.02	3.97	5.18	.05	<.01
60793	4	--	31	2.1	.03	3.47	4.70	.05	<.01
60794	4	--	35	2.0	.03	3.60	4.48	.05	<.01
60795	52	--	31	1.8	.04	3.42	3.41	.05	.02
60796	17	--	32	1.6	.03	3.35	2.91	.04	.05
60797	48	--	26	1.3	.05	2.39	2.09	.06	.12
60798	36	--	15	1.5	.04	2.64	1.28	.04	.10
60799	87	--	14	1.5	.05	2.33	1.47	.05	.12
60800	25	--	13	1.3	.04	2.25	1.24	.05	.09

SAMPLE	AU PPB	AU G/MT	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
60801	17	--	43	.9	.02	10.2	1.35	<.01	<.01
60802	18	--	38	.9	.02	10.2	1.21	<.01	.03
60803	54	--	10	.8	.03	9.12	.39	<.01	.08
60804	19	--	11	.9	.02	8.70	.42	.03	.06
60805	5100	--	33	.9	.02	9.78	1.07	<.01	.04
60806	>10000	800.0	32	.8	.02	9.60	1.04	<.01	.02
60807	>10000	460.0	29	.9	.02	12.0	1.00	<.01	.03
60808	>10000	160.0	27	.9	.03	8.30	1.05	<.01	<.01
60809	190	--	20	.7	.03	6.63	.81	<.01	<.01
60810	85	--	40	1.1	.02	11.1	1.79	<.01	<.01

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
60701	4.50	13.0	<.01	27	412	.09	5.04	64
60702	8.67	12.1	<.01	30	396	.11	4.48	55
60703	4.03	15.1	<.01	78	1140	.09	4.96	57
60704	4.89	15.5	<.01	79	1435	.09	4.89	61
60705	8.72	13.6	<.01	79	1302	.13	4.48	57
60706	3.76	11.9	<.01	21	326	.09	4.77	60
60707	11.1	14.1	<.01	76	1264	.16	4.29	65
60708	6.94	11.8	<.01	62	1178	.09	4.56	64
60709	5.30	14.3	<.01	69	1216	.09	4.74	56
60710	7.64	13.3	<.01	72	1282	.11	4.74	63
60711	9.43	15.4	<.01	85	1226	.14	4.31	48
60712	12.0	11.3	<.01	44	647	.28	4.61	68
60713	10.9	14.0	<.01	69	1216	.20	4.46	67
60714	11.8	12.7	<.01	44	713	.16	4.68	124
60715	9.69	13.9	<.01	54	1036	.16	3.95	72
60716	7.73	15.8	<.01	80	1406	.12	4.63	65
60717	9.69	14.3	<.01	77	1377	.12	4.42	82
60718	9.01	15.1	<.01	95	1615	.13	4.71	72
60719	9.60	14.4	<.01	86	1397	.15	4.28	55
60720	14.1	13.3	<.01	87	1368	.34	5.14	62
60721	11.3	14.9	<.01	97	1605	.37	5.78	73
60722	9.78	15.9	<.01	103	1862	.27	5.79	98
60723	11.1	12.2	<.01	63	1036	.30	4.63	57
60724	10.9	14.0	<.01	86	1435	.18	4.62	60
60725	9.88	15.5	<.01	103	1700	.17	4.94	65
60726	9.97	13.7	<.01	88	1444	.18	4.38	55
60727	11.5	13.2	<.01	87	1339	.21	5.43	56
60728	9.88	13.1	<.01	89	1492	.19	5.13	62
60729	10.3	12.5	<.01	83	1397	.24	5.23	67
60730	10.5	12.0	<.01	81	1321	.21	5.16	54
60731	9.78	15.2	<.01	108	1729	.21	5.38	60
60732	10.8	7.5	<.01	29	488	.29	4.56	48
60733	6.42	8.5	<.01	76	846	.25	5.83	49
60734	3.91	7.4	<.01	60	294	.15	5.29	37
60735	5.99	15.6	<.01	186	66	.28	7.88	34
60736	4.79	24.7	<.01	287	52	.26	8.60	38
60737	4.94	27.4	<.01	294	57	.34	10.9	33
60738	4.25	31.4	<.01	346	55	.29	10.7	37
60739	3.43	33.7	<.01	371	59	.20	9.40	48
60740	9.50	12.1	<.01	74	1178	.28	4.57	44
60741	11.0	13.7	<.01	91	1548	.25	4.95	61
60742	12.3	9.3	<.01	48	835	.34	4.95	67
60743	13.1	9.6	<.01	45	740	.29	4.76	55
60744	12.3	11.5	<.01	67	1054	.25	5.12	61
60745	12.1	11.8	<.01	70	1169	.29	4.82	57
60746	11.6	14.5	<.01	96	1558	.42	5.25	67
60747	12.9	9.4	<.01	61	1036	.46	5.56	43
60748	5.85	29.6	<.01	311	513	.33	9.41	51
60749	4.44	33.9	<.01	355	93	.29	9.34	35
60750	4.44	32.8	<.01	349	143	.24	7.85	48

XRAL

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
60751	5.02	32.3	<.01	354	53	.27	9.18	40
60752	7.40	24.3	<.01	241	104	.28	7.10	43
60753	17.9	6.4	<.01	18	250	.32	4.27	52
60754	15.7	6.7	<.01	20	344	.28	4.38	62
60755	14.0	9.6	<.01	33	581	.31	4.67	60
60756	11.1	14.4	<.01	77	1282	.26	5.07	70
60757	12.9	9.0	<.01	33	828	.23	4.87	70
60758	17.0	7.9	<.01	40	997	.31	4.16	75
60759	18.0	12.2	<.01	79	1510	.36	4.80	76
60760	7.92	8.6	<.01	75	555	.35	7.24	37
60761	22.3	13.8	<.01	89	1530	.29	3.76	57
60762	24.6	14.8	<.01	95	1615	.30	3.56	68
60763	21.9	13.8	<.01	84	1444	.31	3.59	67
60764	18.7	14.3	<.01	91	1520	.30	3.85	65
60765	19.6	14.7	<.01	95	1530	.27	3.74	62
60766	10.5	14.3	<.01	80	1254	.17	4.28	61
60767	12.1	11.4	<.01	69	1064	.19	4.39	47
60768	11.6	7.6	<.01	52	721	.26	3.84	27
60769	11.1	13.2	<.01	86	1292	.19	4.66	66
60770	11.6	14.2	<.01	88	1377	.23	5.14	67
60771	8.15	19.6	<.01	147	2299	.29	5.95	89
60772	8.75	18.2	<.01	133	1853	.29	5.88	51
60773	8.30	22.5	<.01	163	1986	.26	6.63	62
60774	9.29	16.8	<.01	122	2156	.26	6.19	73
60775	9.19	19.5	<.01	126	1492	.33	5.57	66
60776	10.1	12.3	<.01	84	1330	.35	5.06	49
60777	8.73	13.7	<.01	93	1530	.32	4.88	47
60778	11.0	12.4	<.01	81	1397	.33	5.04	44
60779	10.2	14.9	<.01	103	1700	.30	5.41	59
60780	12.7	14.8	<.01	93	1368	.40	5.49	54
60781	10.3	19.2	<.01	115	1663	.21	5.84	61
60782	11.5	11.4	<.01	67	1036	.25	5.06	47
60783	11.9	14.2	<.01	86	1349	.28	5.13	45
60784	10.6	12.4	<.01	83	1254	.23	4.80	49
60785	10.7	12.5	<.01	91	1264	.17	4.60	53
60786	10.5	13.1	<.01	84	1368	.15	4.58	55
60787	11.0	10.8	<.01	70	1102	.17	4.22	44
60788	9.40	18.8	<.01	125	1510	.16	5.34	49
60789	9.43	16.0	<.01	101	1776	.16	5.17	63
60790	3.52	35.0	<.01	400	55	.20	11.5	43
60791	4.05	28.8	<.01	326	56	.34	11.1	36
60792	4.00	31.4	<.01	359	60	.31	12.5	39
60793	4.46	34.7	<.01	381	54	.28	10.9	46
60794	3.87	31.1	<.01	347	83	.22	10.7	39
60795	5.51	28.3	<.01	318	63	.29	9.60	39
60796	6.36	17.8	<.01	226	69	.31	9.19	35
60797	5.21	16.5	<.01	174	84	.23	7.17	43
60798	7.59	11.5	<.01	75	122	.32	7.48	33
60799	6.68	14.5	<.01	113	71	.27	7.60	34
60800	6.55	13.4	<.01	92	106	.28	6.86	34

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
60801	4.50	14.2	<.01	63	1026	.09	4.76	67
60802	3.97	14.0	<.01	54	979	.09	4.96	73
60803	4.86	9.4	<.01	24	437	.09	4.30	60
60804	3.32	8.9	<.01	22	419	.08	4.28	45
60805	3.17	12.1	<.01	47	841	.08	4.62	50
60806	3.12	10.7	<.01	45	825	.08	4.06	47
60807	2.88	11.8	<.01	43	825	.09	4.79	62
60808	3.17	12.8	<.01	75	1111	.08	4.41	46
60809	2.84	8.4	<.01	55	833	.07	3.27	33
60810	3.66	16.8	<.01	87	1302	.09	5.25	59

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
60701	949	14.3	42.9	1377	126.	2.2	1.2	<1
60702	770	11.8	30.0	1054	230.	4.8	.9	<1
60703	717	35.8	36.3	80	74.3	1.2	<.5	<1
60704	807	24.7	40.8	4	78.8	1.1	<.5	<1
60705	827	26.5	34.0	31	147.	2.5	<.5	<1
60706	797	30.1	35.9	1054	116.	2.0	.8	<1
60707	1064	61.0	31.4	101	161.	3.3	<.5	<1
60708	1083	19.9	30.1	37	112.	1.6	.8	<1
60709	807	39.8	31.8	<3	82.3	1.6	.8	<1
60710	854	37.6	31.4	10	113.	1.9	.9	<1
60711	674	23.8	35.8	32	143.	3.3	<.5	<1
60712	745	70.4	21.3	913	112.	4.3	<.5	<1
60713	988	37.3	38.8	950	204.	4.5	<.5	<1
60714	1530	13.9	29.0	2451	208.	4.6	<.5	<1
60715	969	31.4	27.7	1244	143.	3.5	<.5	<1
60716	935	39.7	32.4	631	126.	3.1	<.5	<1
60717	1169	40.9	31.1	950	166.	3.7	<.5	<1
60718	969	41.9	37.4	312	141.	3.3	<.5	<1
60719	788	35.4	36.9	241	121.	3.7	<.5	<1
60720	749	38.3	30.2	145	66.3	4.8	<.5	<1
60721	842	59.8	38.1	184	68.5	5.5	.8	<1
60722	1216	54.5	44.5	352	49.3	4.0	<.5	<1
60723	802	50.0	23.1	347	59.2	5.0	.9	<1
60724	898	49.9	38.7	216	102.	4.3	.9	<1
60725	960	46.1	45.7	163	82.2	3.5	<.5	<1
60726	852	48.3	41.5	121	124.	4.2	<.5	<1
60727	825	36.6	37.6	350	180.	5.5	.6	<1
60728	920	35.3	35.6	218	102.	4.2	<.5	<1
60729	930	52.5	34.8	476	136.	6.1	<.5	<1
60730	763	17.6	39.2	571	158.	6.3	<.5	<1
60731	815	31.6	54.9	525	113.	6.0	.6	<1
60732	591	15.8	28.1	854	85.3	6.6	<.5	<1
60733	466	130.	56.3	567	54.2	4.2	4.2	<1
60734	101	50.0	53.1	163	40.5	4.2	11.5	2
60735	45	74.3	80.1	65	42.6	4.8	2.8	<1
60736	49	66.6	94.8	71	29.9	4.8	2.8	<1
60737	32	86.3	89.4	40	35.8	5.6	3.1	<1
60738	40	85.6	103.	39	30.0	5.1	3.2	<1
60739	83	107.	105.	91	21.8	5.7	2.8	<1
60740	623	27.1	40.9	77	50.3	4.7	<.5	<1
60741	861	52.7	44.1	48	62.5	3.9	.7	<1
60742	854	56.8	34.0	526	47.1	4.6	.6	<1
60743	807	35.5	34.7	240	73.3	4.3	<.5	<1
60744	796	27.1	43.9	81	78.3	4.0	<.5	<1
60745	882	42.7	40.3	34	71.3	5.2	1.3	<1
60746	852	32.6	75.6	165	76.9	6.2	1.0	<1
60747	563	72.3	749.	116	84.1	7.9	.8	<1
60748	274	75.0	83.7	24	55.2	5.6	2.6	<1
60749	59	85.9	76.8	24	24.6	4.0	2.7	<1
60750	158	86.3	81.1	43	21.9	4.3	2.2	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
60751	55	94.7	82.1	23	33.8	2.9	2.9	<1
60752	219	74.0	68.0	96	44.2	4.5	1.6	<1
60753	790	65.3	33.8	108	59.3	4.3	.9	<1
60754	928	27.9	30.5	169	70.8	3.6	<.5	<1
60755	773	37.4	26.1	125	58.8	4.8	1.1	<1
60756	889	41.1	43.6	144	70.0	4.8	.6	<1
60757	1045	39.0	40.8	38	68.9	4.2	.7	<1
60758	969	44.8	48.5	6	83.0	4.7	<.5	<1
60759	1083	42.0	68.8	13	85.3	4.4	.7	<1
60760	326	59.7	79.6	10	72.1	4.0	3.8	<1
60761	818	35.5	49.4	13	127.	4.1	<.5	<1
60762	960	35.2	48.7	8	129.	4.5	<.5	<1
60763	934	33.4	46.8	6	138.	4.2	<.5	<1
60764	904	53.4	54.4	<3	154.	4.7	.6	<1
60765	827	36.1	51.0	<3	133.	4.2	<.5	<1
60766	726	29.8	33.3	208	167.	3.7	<.5	<1
60767	660	23.8	30.1	519	275.	5.3	<.5	<1
60768	390	19.4	21.3	297	197.	9.5	.6	<1
60769	890	62.0	36.7	715	228.	5.4	.7	<1
60770	838	82.4	48.8	453	88.7	6.2	.9	<1
60771	1397	240.	55.4	588	41.8	7.4	<.5	<1
60772	730	222.	45.4	331	43.4	6.9	.8	<1
60773	706	139.	79.4	162	42.0	5.5	1.8	<1
60774	960	79.1	56.9	311	44.9	4.8	.9	<1
60775	739	118.	45.3	564	42.8	7.5	.9	<1
60776	789	32.1	40.7	264	42.4	8.5	.6	<1
60777	931	46.2	39.6	220	36.0	9.4	<.5	<1
60778	769	48.5	39.3	332	45.2	6.1	.7	<1
60779	928	26.6	44.2	324	42.4	7.7	.7	<1
60780	674	26.9	41.4	302	56.9	8.6	.8	<1
60781	637	8.0	63.4	221	66.2	5.5	1.1	<1
60782	569	13.5	43.7	391	67.9	6.5	.9	<1
60783	700	6.7	40.7	364	58.6	6.9	<.5	<1
60784	675	15.9	42.0	398	76.9	5.3	.7	<1
60785	777	39.1	38.7	284	117.	4.2	.6	<1
60786	814	34.3	37.1	151	97.8	3.6	.9	<1
60787	602	32.4	37.7	133	107.	3.9	.6	<1
60788	534	36.1	44.6	125	134.	5.2	1.0	<1
60789	863	49.2	39.5	109	103.	3.8	<.5	<1
60790	63	92.3	136.	40	24.3	4.5	3.6	<1
60791	58	67.4	106.	32	37.9	4.2	3.6	<1
60792	49	91.8	125.	31	44.6	4.1	3.5	<1
60793	65	85.6	136.	42	37.0	4.7	2.8	<1
60794	59	98.8	115.	48	26.6	4.5	3.3	<1
60795	60	71.2	99.7	64	44.1	4.2	2.2	<1
60796	48	63.5	101.	47	52.9	4.4	2.6	<1
60797	67	106.	643.	100	71.1	3.8	2.8	<1
60798	61	69.3	194.	137	87.7	4.2	2.8	<1
60799	51	83.8	216.	1501	68.9	3.7	2.2	<1
60800	49	55.1	179.	353	69.3	3.3	2.2	<1

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
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SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
60801	727	34.4	37.2	150	146.	1.1	<.5	<1
60802	808	36.0	36.2	311	128.	1.2	<.5	<1
60803	691	33.8	26.4	751	216.	1.5	<.5	<1
60804	550	38.9	30.5	538	144.	2.0	4.8	<1
60805	632	25.6	34.3	331	132.	1.6	2.7	<1
60806	643	27.4	29.1	334	128.	1.4	<.5	<1
60807	969	17.2	31.5	739	107.	1.2	.8	<1
60808	566	20.6	35.5	145	132.	1.3	<.5	<1
60809	403	16.2	27.7	49	104.	1.0	<.5	<1
60810	690	37.0	51.8	43	113.	1.2	<.5	<1

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
60701	.9	<1	<10	17	18	<10	<2	<3
60702	.5	<1	<10	17	16	<10	<2	4
60703	.5	<1	<10	11	7	<10	<2	5
60704	.3	<1	<10	12	11	<10	<2	6
60705	.3	<1	<10	12	19	<10	<2	6
60706	.9	<1	<10	29	18	<10	<2	6
60707	.6	<1	<10	14	11	<10	<2	<3
60708	.5	<1	<10	30	10	<10	<2	4
60709	.3	<1	<10	13	25	<10	<2	<3
60710	.4	<1	<10	16	12	<10	<2	<3
60711	.5	<1	<10	11	7	<10	<2	<3
60712	.9	<1	<10	20	14	<10	<2	<3
60713	.5	<1	<10	18	10	<10	<2	<3
60714	.4	<1	<10	25	19	<10	<2	<3
60715	.4	<1	<10	20	11	<10	<2	<3
60716	.6	<1	<10	18	5	<10	<2	7
60717	.7	<1	<10	17	5	<10	<2	<3
60718	.5	<1	<10	16	5	<10	<2	<3
60719	.6	<1	<10	12	4	<10	<2	<3
60720	.6	<1	<10	17	4	<10	<2	<3
60721	.9	<1	<10	19	6	<10	<2	<3
60722	1.5	<1	<10	21	15	<10	<2	<3
60723	.6	<1	<10	22	9	<10	<2	<3
60724	.4	<1	<10	24	5	<10	<2	6
60725	.5	<1	<10	21	4	<10	<2	<3
60726	.7	<1	<10	19	4	<10	<2	<3
60727	.8	<1	<10	21	6	<10	<2	4
60728	.5	<1	<10	31	5	<10	<2	4
60729	.4	<1	<10	27	6	<10	<2	<3
60730	.6	<1	<10	29	8	<10	<2	<3
60731	.6	<1	<10	32	5	<10	<2	<3
60732	.7	<1	<10	38	20	<10	<2	<3
60733	.6	<1	<10	17	10	<10	<2	<3
60734	.5	<1	<10	7	21	<10	12	<3
60735	.4	2	<10	<5	29	<10	<2	<3
60736	.5	2	<10	<5	22	<10	<2	4
60737	.9	3	<10	<5	9	<10	<2	7
60738	.6	3	<10	<5	12	<10	<2	6
60739	.2	2	<10	<5	4	<10	<2	5
60740	.6	<1	<10	10	5	<10	16	<3
60741	.6	<1	<10	14	10	<10	<2	<3
60742	.9	<1	<10	41	32	<10	<2	<3
60743	.8	<1	<10	29	25	<10	<2	<3
60744	.6	<1	<10	19	19	<10	<2	<3
60745	.7	<1	<10	16	13	<10	<2	<3
60746	.8	<1	<10	18	5	<10	<2	<3
60747	<.1	6	<10	9	5	<10	78	<3
60748	.7	3	<10	6	4	<10	<2	4
60749	.4	3	<10	<5	4	<10	<2	4
60750	.5	2	<10	<5	9	<10	<2	<3

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
60751	.6	2	<10	<5	9	<10	<2	<3
60752	.9	2	<10	<5	11	<10	<2	<3
60753	.6	<1	<10	<5	29	<10	<2	<3
60754	.8	<1	<10	38	26	<10	<2	<3
60755	.2	<1	<10	22	28	<10	<2	<3
60756	.7	<1	<10	51	12	<10	<2	<3
60757	.8	<1	<10	11	28	<10	<2	<3
60758	.8	<1	<10	8	32	<10	3	<3
60759	.8	<1	<10	12	16	<10	<2	<3
60760	<.1	2	<10	<5	5	<10	<2	4
60761	.7	<1	<10	12	14	<10	<2	<3
60762	.7	<1	<10	13	26	<10	<2	<3
60763	.9	<1	<10	11	26	<10	<2	<3
60764	.5	<1	<10	12	17	<10	<2	<3
60765	.5	<1	<10	13	259	<10	<2	<3
60766	.7	<1	<10	19	6	<10	<2	<3
60767	.6	<1	<10	22	7	<10	<2	<3
60768	.6	<1	<10	13	8	<10	<2	<3
60769	.5	<1	<10	33	7	<10	<2	<3
60770	.7	2	<10	22	13	<10	<2	<3
60771	.5	2	<10	86	7	<10	<2	<3
60772	.8	<1	<10	29	9	<10	<2	<3
60773	.7	2	<10	17	6	<10	<2	<3
60774	.8	2	<10	23	5	<10	<2	<3
60775	.6	<1	<10	21	6	<10	<2	<3
60776	.6	<1	<10	16	5	<10	<2	<3
60777	.7	<1	<10	15	5	<10	<2	<3
60778	.9	<1	<10	20	5	<10	<2	<3
60779	.7	<1	<10	18	5	<10	<2	<3
60780	.8	<1	<10	15	6	<10	<2	<3
60781	.7	<1	<10	15	5	<10	<2	<3
60782	.5	2	<10	14	7	<10	<2	<3
60783	.4	<1	<10	20	6	<10	<2	<3
60784	.5	<1	<10	18	14	<10	<2	<3
60785	.6	<1	<10	15	4	<10	<2	4
60786	.4	<1	<10	14	3	<10	<2	<3
60787	.5	<1	<10	10	4	<10	<2	<3
60788	.5	<1	<10	12	4	<10	<2	5
60789	.5	<1	<10	13	11	<10	<2	4
60790	.2	4	<10	<5	6	<10	<2	8
60791	.9	4	<10	<5	4	<10	<2	6
60792	.7	4	<10	<5	4	<10	<2	8
60793	.4	4	<10	<5	3	<10	<2	9
60794	.6	3	<10	<5	4	<10	<2	9
60795	.2	3	<10	<5	10	<10	<2	4
60796	.5	3	<10	<5	17	<10	<2	9
60797	.5	3	<10	<5	29	<10	<2	6
60798	.5	3	<10	<5	29	<10	<2	5
60799	.5	3	<10	<5	31	<10	<2	6
60800	.6	3	<10	<5	23	<10	3	6

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
60801	<.1	<1	<10	10	19	<10	3	<3
60802	.3	<1	<10	10	10	<10	4	<3
60803	.5	<1	<10	7	28	<10	<2	4
60804	.2	<1	<10	7	20	<10	<2	<3
60805	.5	<1	<10	10	14	<10	<2	7
60806	22.4	<1	<10	10	8	<10	<2	4
60807	26.5	<1	<10	7	13	<10	<2	<3
60808	7.4	<1	<10	11	4	<10	<2	5
60809	<.1	<1	<10	7	13	<10	<2	6
60810	.4	<1	<10	12	62	<10	<2	6

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
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XRAL

X-RAY ASSAY LABORATORIES
A DIVISION OF SGS SUPERVISION SERVICES INC.
1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA
TEL: (416)445-5755 TELEX: 06-986947 FAX: (416)445-4152

CERTIFICATE OF ANALYSIS

REPORT 18994

TO: CYPRUS CANADA
ATTN: D. STEVENSON
66 BRUCE AVE., P.O. BOX 1120
SOUTH PORCUPINE, ONTARIO
PON 1HO

CUSTOMER No. 2294

DATE SUBMITTED
4-May-92

REF. FILE 12177-S6

Total Pages 14

104 ROCKS Proj. KERR MINE

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.
LI PPM	ICP	1.
BE PPM	ICP	.5
NA %	ICP	.01
WRMAJ %	WR	.01
MG %	ICP	.01
AL %	ICP	.01
P %	ICP	.01
K %	ICP	.01
CA %	ICP	.01
SC PPM	ICP	.5
TI %	ICP	.01
V PPM	ICP	2.
CR PPM	ICP	1.
MN %	ICP	.01
FE %	ICP	.01
CO PPM	ICP	1.

	METHOD	DETECTION LIMIT
NI PPM	ICP	1.
CU PPM	ICP	.5
ZN PPM	ICP	.5
AS PPM	ICP	3.
WRMIN PPM	WR	10.
SR PPM	ICP	.5
Y PPM	ICP	.1
ZR PPM	ICP	.5
MO PPM	ICP	1.
AG PPM	ICP	.1
CD PPM	ICP	1.
SN PPM	ICP	10.
SB PPM	ICP	5.
BA PPM	ICP	1.
W PPM	ICP	10.
PB PPM	ICP	2.
BI PPM	ICP	3.

DATE 14-MAY-92

CERTIFIED BY ....
Jean H.L. Opdebeeck, General Manager

SAMPLE	AU PPB	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
60901	17	30	1.6	.03	2.16	3.30	.04	.12
60902	5	20	1.4	.04	2.11	2.17	.05	.14
60903	5	25	1.7	.04	2.33	3.00	.04	.14
60904	7	24	1.5	.04	2.26	2.69	.05	.10
60905	9	20	1.4	.05	1.98	2.43	.05	.11
60906	5	18	1.1	.05	1.71	2.02	.05	.16
60907	6	21	1.6	.04	2.17	2.64	.04	.15
60908	<1	20	1.5	.04	2.03	3.03	.04	.01
60909	<1	19	1.6	.05	2.09	3.21	.04	<.01
60910	1	18	1.4	.04	1.98	2.97	.04	<.01
60911	<1	18	1.5	.05	2.21	2.97	.05	<.01
60912	6	18	1.6	.04	1.98	3.28	.05	.02
60913	5	16	1.7	.04	1.86	3.32	.06	.06
60914	9	21	1.6	.03	2.02	3.34	.05	.01
60915	6	25	1.5	.04	2.15	3.26	.04	.01
60916	7	20	1.0	.04	2.91	1.82	.13	.17
60917	15	25	1.5	.05	2.23	3.16	.05	.04
60918	12	19	1.6	.05	2.19	2.47	.05	.06
60919	1	23	1.5	.05	2.06	2.90	.05	.03
60920	3	27	1.6	.04	2.25	3.26	.05	.03
60921	5	21	1.3	.04	2.33	2.29	.04	.10
60922	5	25	1.4	.04	2.50	2.91	.04	.12
60923	9	30	1.7	.04	2.61	3.50	.04	.08
60924	2	24	1.6	.04	2.30	2.94	.05	.11
60925	3	25	1.7	.04	2.29	3.16	.05	.11
60926	3	23	1.6	.03	2.18	3.06	.05	.10
60927	4	30	1.8	.04	2.59	3.81	.05	.04
60928	7	34	2.0	.02	2.93	4.39	.04	<.01
60929	8	18	1.0	.02	2.68	1.59	.03	.17
60930	5	14	.7	.02	1.88	1.14	.08	.28
60931	4	45	1.2	.02	5.90	3.25	.17	.09
60932	2	36	1.1	.03	5.50	2.63	.19	.09
60933	3	31	1.1	.04	4.92	2.43	.20	.10
60934	6	30	1.0	.02	4.70	2.25	.16	.15
60935	21	10	1.1	.03	1.53	1.10	.07	.37
60936	37	12	1.6	.04	1.51	1.59	.04	.21
60937	11	23	1.5	.03	1.99	2.52	.05	.18
60938	10	30	1.7	.03	2.09	2.97	.05	.15
60939	8	39	1.9	.03	2.30	3.57	.04	.10
60940	2	30	1.6	.03	1.92	2.86	.04	.13
60941	9	25	1.7	.03	2.31	2.45	.05	.12
60942	40	14	1.0	.05	1.91	1.05	.10	.14
60943	15	7	1.0	.05	3.13	.61	.10	.17
60944	39	13	.9	.02	2.44	.95	.09	.12
60945	9	12	.9	.03	3.50	.88	.10	.19
60946	7	13	.9	.03	2.86	.96	.12	.21
60947	4	15	.6	.02	2.49	.93	.06	.08
60948	3	20	<.5	.02	1.77	1.10	<.01	.03
60949	4	31	1.1	.05	1.70	2.49	.05	.07
60950	10	26	1.4	.03	1.91	2.32	.05	.15

XRAL

SAMPLE	AU PPB	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
60951	9	29	1.6	.04	2.16	2.58	.05	.08
60952	22	32	1.6	.04	2.15	2.66	.05	.10
60953	13	31	1.5	.03	2.66	2.28	.09	.12
60954	1000	5	.9	.06	1.43	.51	.06	.10
60955	1600	13	1.5	.04	1.59	1.14	.03	.08
60956	620	25	1.7	.04	1.81	2.39	.05	.06
60957	43	26	1.3	.05	1.89	2.25	.05	.08
60958	34	28	1.2	.04	1.93	2.11	.05	.10
60959	180	21	1.0	.05	1.72	1.41	.05	.11
60960	390	24	1.1	.05	1.88	1.55	.05	.10
60961	1100	13	1.0	.07	1.52	.79	.06	.06
60962	85	41	1.1	.05	2.32	2.35	.06	.08
60963	42	33	1.0	.05	1.98	2.02	.06	.08
60964	8	29	1.0	.05	1.46	1.94	.06	.11
60965	13	31	1.0	.05	1.80	1.99	.05	.09
60966	630	19	1.0	.05	1.79	1.20	.05	.11
60967	18	35	1.1	.06	1.82	2.27	.06	.08
60968	13	32	1.1	.04	2.51	1.97	.04	.06
60969	3	41	1.1	.03	1.74	2.82	.05	.04
60970	<1	70	1.8	.02	3.19	4.71	.05	<.01
60971	20	42	1.3	.04	1.73	2.71	.05	.08
60972	<1	56	1.5	.04	2.15	3.82	.05	.02
60973	30	45	1.3	.04	1.89	3.06	.04	.02
60974	5	52	1.4	.04	2.13	3.53	.05	.05
60975	5	40	1.0	.04	1.56	2.74	.06	.16
60976	370	37	1.3	.02	3.69	2.30	<.01	.07
60977	10	46	1.4	.03	3.28	2.85	.02	.07
60978	4	23	.9	.02	6.05	1.58	<.01	.03
60979	6	10	.9	.02	4.42	.58	<.01	.11
60980	16	35	1.4	.02	3.94	2.31	.01	.08
60981	91	26	1.0	.02	2.88	1.69	<.01	.08
60982	130	14	1.1	.02	4.30	1.02	<.01	.08
60983	18	28	.7	.02	4.55	1.42	<.01	.05
60984	1200	17	1.3	.04	2.12	1.24	.03	.15
60985	10	47	1.9	.02	2.41	4.32	.04	<.01
60986	270	30	1.6	.02	3.33	2.58	<.01	.03
60987	230	29	1.9	.02	3.61	2.57	.01	.04
60988	5	40	1.0	.03	3.60	2.02	.01	.09
60989	38	45	1.2	.02	4.38	2.17	.01	.09
60990	4400	8	1.9	.03	4.50	.41	<.01	.10
60991	27	27	.9	.02	9.41	1.08	<.01	<.01
60992	17	14	.7	.02	9.26	.58	<.01	<.01
WR-1	--	--	--	--	--	--	--	--
WR-2	--	--	--	--	--	--	--	--
WR-3	--	--	--	--	--	--	--	--
WR-4	--	--	--	--	--	--	--	--
WR-5	--	--	--	--	--	--	--	--
WR-6	--	--	--	--	--	--	--	--
WR-7	--	--	--	--	--	--	--	--
WR-8	--	--	--	--	--	--	--	--

SAMPLE	AU PPB	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
WR-9	--	--	--	--	--	--	--	--
WR-10	--	--	--	--	--	--	--	--
WR-11	--	--	--	--	--	--	--	--
WR-12	--	--	--	--	--	--	--	--

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
60901	5.50	19.3	<.01	266	64	.22	8.85	38
60902	6.01	15.8	<.01	211	64	.21	7.36	40
60903	4.88	19.6	.01	243	55	.26	9.65	33
60904	3.72	21.6	<.01	294	75	.15	8.23	42
60905	3.49	21.7	.02	291	65	.14	7.51	42
60906	3.68	16.3	.02	241	64	.15	6.14	41
60907	4.08	19.7	.02	256	61	.19	8.85	40
60908	4.88	34.3	.03	394	50	.16	8.28	40
60909	4.48	34.9	.04	397	52	.17	8.72	40
60910	5.87	35.4	.03	398	54	.11	7.25	45
60911	5.43	36.0	.04	407	44	.12	7.59	45
60912	3.31	37.9	.04	400	65	.08	8.05	41
60913	3.44	36.8	.03	390	46	.09	8.61	39
60914	5.21	35.1	.03	390	55	.14	8.04	35
60915	5.17	31.9	.02	367	74	.13	7.62	35
60916	3.90	5.5	<.01	57	189	.09	4.06	24
60917	4.48	28.7	.02	343	49	.10	7.95	41
60918	5.59	24.9	.02	302	81	.15	7.58	35
60919	5.06	31.0	.02	372	46	.14	7.85	42
60920	5.67	32.3	.01	366	52	.15	8.46	39
60921	3.79	17.7	<.01	238	125	.17	7.14	31
60922	4.46	18.6	<.01	248	53	.25	7.53	32
60923	5.88	23.5	.02	298	36	.34	9.38	38
60924	4.05	19.2	.01	270	46	.28	8.18	36
60925	4.60	20.9	.01	282	35	.25	8.88	35
60926	5.04	20.8	.01	273	46	.28	8.43	37
60927	4.41	30.8	.02	366	42	.22	9.04	39
60928	6.17	31.6	.02	344	379	.31	10.4	50
60929	9.49	6.5	<.01	68	634	.30	4.96	56
60930	2.39	2.8	<.01	25	299	.08	2.72	23
60931	4.70	9.7	<.01	91	712	.15	5.63	42
60932	5.45	9.8	<.01	79	466	.14	4.67	34
60933	5.19	9.2	<.01	79	414	.13	5.07	34
60934	5.26	7.1	<.01	65	315	.16	5.35	29
60935	2.97	3.1	<.01	32	151	.13	5.69	38
60936	3.41	5.8	<.01	82	138	.20	9.09	43
60937	4.00	9.6	<.01	156	65	.24	8.48	39
60938	3.58	9.7	<.01	176	67	.21	9.25	40
60939	4.84	14.1	<.01	227	70	.25	10.3	39
60940	4.78	11.4	<.01	189	57	.28	8.97	39
60941	5.05	11.2	<.01	172	76	.31	9.31	39
60942	3.09	4.3	<.01	37	201	.11	5.10	31
60943	6.67	7.2	<.01	30	177	.13	4.83	31
60944	4.03	5.7	<.01	23	286	.10	4.25	34
60945	6.30	7.0	<.01	25	226	.13	4.08	32
60946	5.13	4.8	<.01	24	209	.10	3.95	28
60947	18.9	6.3	<.01	38	527	.30	3.57	50
60948	26.5	6.6	<.01	43	757	.38	2.88	39
60949	5.24	19.8	<.01	257	61	.16	6.26	36
60950	4.70	13.8	<.01	170	58	.19	7.21	38

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
60951	4.63	20.6	<.01	257	67	.20	8.82	35
60952	3.61	16.3	<.01	228	64	.15	8.80	39
60953	4.42	11.0	<.01	148	118	.13	7.73	41
60954	4.09	8.6	<.01	48	92	.13	5.36	41
60955	7.55	11.5	<.01	89	118	.24	8.29	31
60956	4.62	22.3	<.01	256	62	.29	9.25	56
60957	3.98	16.9	<.01	226	60	.22	7.36	49
60958	3.06	13.6	<.01	210	57	.14	6.28	38
60959	3.16	10.8	<.01	150	105	.13	5.13	42
60960	2.82	12.4	<.01	178	78	.12	5.81	45
60961	2.99	12.2	<.01	77	110	.13	5.76	47
60962	2.35	15.2	<.01	201	69	.10	5.71	66
60963	3.51	14.0	<.01	178	66	.12	5.50	57
60964	3.65	11.9	<.01	153	78	.16	5.17	53
60965	4.21	14.7	<.01	222	80	.16	5.39	52
60966	3.71	11.0	<.01	141	80	.16	5.53	47
60967	3.51	18.1	<.01	254	66	.16	6.15	43
60968	4.93	15.6	<.01	168	131	.23	6.05	33
60969	7.06	21.8	<.01	249	63	.26	6.22	34
60970	3.45	33.7	<.01	387	48	.20	9.65	41
60971	6.89	19.7	<.01	231	82	.18	6.51	35
60972	5.01	29.7	.01	335	63	.18	8.25	41
60973	6.14	21.9	<.01	262	80	.22	7.22	43
60974	4.20	24.4	<.01	319	66	.19	7.60	41
60975	4.22	10.9	<.01	148	76	.18	5.90	51
60976	7.96	14.3	<.01	104	1170	.35	7.78	73
60977	7.22	15.2	<.01	145	711	.38	8.25	54
60978	9.31	11.2	<.01	70	1250	.18	4.92	56
60979	10.9	8.9	<.01	27	466	.25	5.15	50
60980	7.43	15.8	<.01	108	1130	.38	8.59	89
60981	7.64	11.4	<.01	73	1410	.37	6.67	78
60982	10.9	10.0	<.01	47	896	.32	6.69	72
60983	13.5	9.6	<.01	57	1180	.24	4.69	63
60984	5.76	11.0	<.01	114	127	.24	6.77	48
60985	6.22	31.8	.02	354	42	.37	10.3	38
60986	6.72	17.6	<.01	125	2090	.54	9.85	89
60987	5.70	16.4	<.01	122	2080	.58	11.8	65
60988	5.89	12.7	<.01	96	1870	.23	6.31	103
60989	7.37	14.5	<.01	100	1200	.28	7.28	100
60990	8.93	11.0	<.01	39	463	.66	11.3	85
60991	8.98	11.4	<.01	59	1540	.15	5.02	68
60992	5.54	7.8	<.01	34	1020	.10	3.86	51
WR-1	--	--	--	--	--	--	--	--
WR-2	--	--	--	--	--	--	--	--
WR-3	--	--	--	--	--	--	--	--
WR-4	--	--	--	--	--	--	--	--
WR-5	--	--	--	--	--	--	--	--
WR-6	--	--	--	--	--	--	--	--
WR-7	--	--	--	--	--	--	--	--
WR-8	--	--	--	--	--	--	--	--

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
WR-9	--	--	--	--	--	--	--	--
WR-10	--	--	--	--	--	--	--	--
WR-11	--	--	--	--	--	--	--	--
WR-12	--	--	--	--	--	--	--	--

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
60901	32	90.8	120.	5	83.2	3.9	2.0	<1
60902	36	76.9	97.4	28	109.	7.9	1.5	<1
60903	24	82.9	113.	12	69.4	3.1	2.5	<1
60904	35	90.4	151.	11	67.3	2.9	2.3	<1
60905	41	86.8	143.	<3	68.7	3.2	1.8	<1
60906	42	101.	144.	<3	67.9	3.4	1.8	<1
60907	39	95.2	234.	5	64.3	3.3	2.3	<1
60908	29	111.	120.	<3	100.	3.0	2.0	<1
60909	26	85.4	131.	<3	108.	2.8	2.8	<1
60910	48	79.5	105.	5	132.	3.6	2.2	<1
60911	50	95.3	114.	<3	126.	3.8	2.2	<1
60912	42	69.7	128.	<3	95.9	5.0	3.0	<1
60913	27	59.3	143.	<3	134.	5.1	2.2	<1
60914	26	96.7	119.	<3	176.	4.0	2.4	<1
60915	30	74.6	112.	<3	212.	4.0	2.6	<1
60916	85	14.0	58.8	9	206.	6.3	23.3	<1
60917	35	108.	115.	<3	187.	4.0	2.5	<1
60918	29	76.4	98.9	<3	190.	4.6	2.0	<1
60919	50	77.7	120.	9	149.	4.5	2.1	<1
60920	31	88.5	122.	10	142.	4.4	2.5	<1
60921	30	51.4	85.6	20	86.3	3.4	1.6	<1
60922	38	76.3	98.1	4	68.5	4.8	2.2	<1
60923	41	80.2	128.	<3	73.6	3.7	2.5	<1
60924	41	83.9	124.	<3	59.5	2.8	2.4	<1
60925	30	77.3	107.	<3	68.1	3.0	1.9	<1
60926	40	83.7	136.	18	77.0	3.0	1.9	<1
60927	40	87.8	131.	<3	88.1	3.5	2.5	<1
60928	153	80.9	118.	17	161.	3.2	3.0	<1
60929	558	97.0	101.	193	163.	4.4	4.5	8
60930	155	115.	174.	71	88.1	4.6	21.8	1
60931	279	87.3	356.	50	218.	7.7	33.9	<1
60932	112	72.2	239.	34	270.	9.5	41.1	<1
60933	139	60.9	153.	64	368.	9.1	36.2	<1
60934	83	102.	218.	93	348.	8.8	39.1	<1
60935	211	131.	247.	275	145.	4.9	24.4	1
60936	105	112.	619.	87	124.	3.0	7.0	3
60937	99	90.8	218.	54	81.4	3.5	3.5	1
60938	101	87.9	159.	39	61.6	3.4	3.7	<1
60939	79	84.9	165.	31	73.4	3.7	3.1	<1
60940	86	79.5	174.	38	76.3	3.9	3.0	<1
60941	63	74.1	156.	61	108.	4.1	3.5	<1
60942	82	192.	959.	110	168.	4.4	15.5	2
60943	100	80.6	289.	164	396.	6.2	21.2	2
60944	159	139.	1540.	152	236.	6.7	21.2	<1
60945	184	60.4	141.	126	331.	6.5	22.2	<1
60946	171	64.7	157.	89	196.	6.4	28.8	<1
60947	565	36.6	48.6	67	181.	5.4	8.6	<1
60948	408	25.8	43.5	66	238.	4.3	<.5	<1
60949	47	87.1	111.	53	84.3	4.9	2.1	<1
60950	74	74.6	146.	109	86.5	3.9	1.5	<1

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
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SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
60951	77	74.7	160.	100	105.	3.5	2.6	<1
60952	125	80.8	199.	298	93.4	3.5	2.2	<1
60953	111	79.3	297.	141	133.	5.3	8.4	<1
60954	4440	45.4	755.	11200	95.7	4.5	1.0	<1
60955	73	148.	461.	9310	187.	10.3	4.1	<1
60956	105	84.3	140.	6050	94.0	3.4	2.0	<1
60957	100	90.4	181.	275	72.7	3.7	2.3	<1
60958	77	96.5	219.	123	64.2	3.7	1.9	<1
60959	81	85.3	246.	1630	73.7	3.3	2.0	1
60960	100	92.4	242.	4140	67.0	4.0	2.6	<1
60961	187	35.1	219.	13000	68.4	4.9	3.1	<1
60962	275	35.9	149.	1270	46.7	4.8	2.5	<1
60963	289	30.5	155.	838	56.6	4.9	2.7	<1
60964	143	34.5	189.	254	57.5	7.4	1.9	<1
60965	111	75.2	168.	150	69.8	6.6	1.7	<1
60966	84	90.7	154.	7030	65.8	5.5	1.6	<1
60967	65	61.7	98.0	108	58.5	7.1	2.4	<1
60968	38	71.2	183.	57	63.5	6.6	2.0	<1
60969	38	92.5	204.	19	107.	7.3	2.4	<1
60970	35	96.9	196.	<3	63.6	3.5	3.0	<1
60971	54	87.2	112.	71	137.	10.1	3.8	<1
60972	53	96.9	122.	20	69.0	7.1	2.5	<1
60973	55	140.	102.	63	95.9	7.1	2.9	<1
60974	55	93.5	131.	33	57.5	6.0	2.2	<1
60975	90	37.8	149.	102	56.5	7.0	2.4	<1
60976	481	61.0	104.	2050	82.1	6.3	.8	<1
60977	400	75.5	139.	411	55.1	3.7	1.3	<1
60978	677	39.4	72.4	815	94.3	4.1	<.5	<1
60979	492	45.4	44.2	589	86.8	4.7	<.5	<1
60980	582	78.5	95.1	416	64.7	2.3	1.0	<1
60981	646	70.3	51.3	380	65.9	3.4	.5	<1
60982	699	70.3	42.1	457	75.6	4.4	<.5	<1
60983	742	40.9	51.4	81	72.5	4.6	<.5	<1
60984	155	115.	136.	9700	70.5	4.3	1.7	<1
60985	28	87.3	128.	10	124.	3.8	2.7	<1
60986	715	66.8	70.2	276	61.6	2.2	1.1	<1
60987	610	103.	65.8	209	53.7	2.2	1.8	<1
60988	718	76.1	60.1	207	42.7	2.4	<.5	<1
60989	544	92.9	61.7	450	53.8	3.5	.5	<1
60990	754	171.	39.1	1860	96.0	4.7	1.6	<1
60991	973	11.0	39.0	1400	87.3	3.0	<.5	<1
60992	816	8.4	27.0	1130	59.9	2.3	<.5	<1
WR-1	--	--	--	--	--	--	--	--
WR-2	--	--	--	--	--	--	--	--
WR-3	--	--	--	--	--	--	--	--
WR-4	--	--	--	--	--	--	--	--
WR-5	--	--	--	--	--	--	--	--
WR-6	--	--	--	--	--	--	--	--
WR-7	--	--	--	--	--	--	--	--
WR-8	--	--	--	--	--	--	--	--

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
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SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
WR-9	--	--	--	--	--	--	--	--
WR-10	--	--	--	--	--	--	--	--
WR-11	--	--	--	--	--	--	--	--
WR-12	--	--	--	--	--	--	--	--

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
60901	.4	1	<10	<5	25	<10	<2	7
60902	.3	<1	<10	<5	27	<10	<2	<3
60903	.7	2	<10	<5	29	<10	<2	4
60904	.4	1	<10	<5	23	<10	<2	6
60905	.4	<1	<10	<5	29	<10	<2	7
60906	.4	<1	<10	<5	41	<10	7	4
60907	.5	2	<10	<5	40	<10	98	5
60908	.3	1	<10	<5	7	<10	2	5
60909	.2	2	<10	<5	9	<10	<2	6
60910	<.1	1	<10	<5	6	<10	<2	<3
60911	.2	1	<10	<5	6	<10	<2	6
60912	<.1	<1	<10	<5	11	<10	<2	6
60913	.2	1	<10	<5	15	<10	<2	7
60914	.4	1	<10	<5	8	<10	<2	4
60915	.5	<1	<10	<5	7	<10	7	5
60916	.5	<1	<10	<5	40	<10	<2	4
60917	.5	1	<10	<5	13	<10	12	4
60918	.4	1	<10	<5	21	<10	<2	4
60919	.4	1	<10	<5	11	<10	<2	7
60920	.6	1	<10	<5	10	<10	<2	9
60921	.5	<1	<10	<5	23	<10	2	4
60922	.5	1	<10	<5	27	<10	<2	<3
60923	.8	1	<10	<5	16	<10	<2	4
60924	.5	<1	<10	<5	20	<10	<2	<3
60925	.3	1	<10	<5	20	<10	<2	6
60926	.4	<1	<10	<5	22	<10	<2	5
60927	.3	1	<10	<5	14	<10	<2	7
60928	.7	2	<10	<5	5	<10	<2	8
60929	.9	<1	<10	9	99	<10	5	<3
60930	.6	<1	<10	6	162	<10	6	<3
60931	.6	<1	<10	15	60	<10	3	4
60932	.4	<1	<10	6	63	<10	8	<3
60933	.5	<1	<10	<5	60	<10	17	<3
60934	1.0	<1	<10	<5	63	<10	17	6
60935	1.0	1	<10	<5	108	<10	26	6
60936	.9	2	<10	<5	53	<10	11	7
60937	.7	2	<10	<5	38	<10	4	5
60938	.5	1	<10	<5	32	<10	6	7
60939	.6	2	<10	<5	21	<10	8	8
60940	.7	2	<10	<5	28	<10	<2	7
60941	.8	2	<10	<5	30	<10	4	6
60942	.4	2	<10	<5	48	<10	10	<3
60943	.6	1	<10	<5	48	<10	5	<3
60944	.8	3	<10	<5	33	<10	9	7
60945	.7	<1	<10	6	49	<10	7	<3
60946	.4	<1	<10	<5	53	<10	6	<3
60947	.9	<1	<10	5	18	<10	4	<3
60948	.8	<1	<10	8	9	<10	<2	<3
60949	.4	<1	<10	<5	16	<10	<2	<3
60950	.5	<1	<10	<5	28	<10	<2	<3

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
60951	.6	1	<10	<5	14	<10	<2	7
60952	.4	1	<10	<5	22	<10	2	6
60953	.7	1	<10	<5	26	<10	5	6
60954	.7	<1	<10	160	22	<10	7	<3
60955	.9	2	<10	9	22	<10	8	5
60956	.8	2	<10	5	14	<10	3	6
60957	.6	1	<10	<5	18	<10	<2	4
60958	.2	<1	<10	<5	18	<10	<2	4
60959	.3	<1	<10	<5	19	<10	7	<3
60960	.6	1	<10	<5	16	<10	4	<3
60961	.7	<1	<10	11	10	<10	7	<3
60962	.2	<1	<10	7	14	<10	<2	3
60963	.4	<1	<10	6	14	<10	<2	4
60964	.3	<1	<10	13	22	<10	<2	<3
60965	.2	<1	<10	10	16	<10	<2	<3
60966	.8	<1	<10	7	19	<10	5	<3
60967	.4	<1	<10	<5	22	<10	<2	5
60968	.6	<1	<10	<5	15	<10	4	<3
60969	.6	1	<10	<5	13	<10	<2	<3
60970	.5	2	<10	<5	7	<10	<2	6
60971	.4	<1	<10	<5	24	<10	6	<3
60972	.5	<1	<10	<5	8	<10	<2	4
60973	.8	<1	<10	<5	11	<10	3	4
60974	.5	1	<10	<5	14	<10	2	3
60975	.6	<1	<10	<5	39	<10	<2	<3
60976	1.1	1	<10	14	29	<10	14	8
60977	.9	1	<10	11	29	<10	6	5
60978	.6	<1	<10	21	11	<10	<2	4
60979	.8	<1	<10	11	23	<10	<2	<3
60980	.9	1	<10	13	21	<10	<2	<3
60981	1.0	<1	<10	15	39	<10	<2	3
60982	.7	1	<10	17	43	<10	<2	<3
60983	.7	<1	<10	11	22	<10	<2	<3
60984	.7	1	<10	7	34	<10	16	<3
60985	.7	2	<10	<5	4	<10	<2	5
60986	1.3	2	<10	19	32	<10	<2	<3
60987	1.3	2	<10	21	29	<10	3	4
60988	.7	<1	<10	16	45	<10	<2	5
60989	1.0	<1	<10	14	31	<10	<2	5
60990	2.0	2	<10	10	55	<10	5	<3
60991	.7	<1	<10	36	5	<10	2	5
60992	.4	<1	<10	29	4	<10	<2	3
WR-1	--	--	--	--	--	--	--	--
WR-2	--	--	--	--	--	--	--	--
WR-3	--	--	--	--	--	--	--	--
WR-4	--	--	--	--	--	--	--	--
WR-5	--	--	--	--	--	--	--	--
WR-6	--	--	--	--	--	--	--	--
WR-7	--	--	--	--	--	--	--	--
WR-8	--	--	--	--	--	--	--	--

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
WR-9	--	--	--	--	--	--	--	--
WR-10	--	--	--	--	--	--	--	--
WR-11	--	--	--	--	--	--	--	--
WR-12	--	--	--	--	--	--	--	--

SAMPLE \ %	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3	MNO	TIO2	P2O5	CR2O3	LOI	SUM
WR-1	34.7	4.75	4.61	19.6	.11	1.17	8.43	.14	.273	.03	.27	26.0	100.1
WR-2	34.5	4.72	9.68	18.6	.04	<.01	8.58	.15	.270	.02	.31	23.2	100.1
WR-3	28.9	4.39	16.5	16.4	<.01	<.01	7.69	.23	.224	.02	.26	25.1	99.7
WR-4	33.6	4.65	17.4	11.1	.17	1.15	5.58	.34	.250	.02	.28	24.9	99.5
WR-5	31.1	4.51	8.46	20.1	.06	.03	9.94	.19	.357	.02	.34	25.2	100.3
WR-6	34.7	3.83	16.2	11.4	.43	.02	9.62	.49	.230	.03	.23	22.2	99.4
WR-7	35.3	2.48	20.2	9.31	.02	.58	5.99	.39	.150	.03	.16	25.5	100.1
WR-8	32.9	5.23	25.1	6.16	<.01	.05	7.98	.40	.303	.03	.30	21.4	99.9
WR-9	40.1	8.24	11.8	7.61	.50	1.10	12.5	.42	.497	.04	.23	17.2	100.3
WR-10	24.9	4.14	6.97	6.16	.85	.80	30.8	1.54	.263	.02	.20	22.4	99.2
WR-11	29.8	2.72	4.55	25.0	<.01	.05	9.55	.15	.182	.02	.45	27.8	100.3
WR-12	43.8	5.84	7.28	20.6	.25	.45	11.5	.17	.380	.03	.36	9.62	100.3

XRF W.R.A. SUMS INCLUDE ALL ELEMENTS DETERMINED. FOR SUMMATION, ELEMENTS ARE CALCULATED AS OXIDES

SAMPLE \ PPM	RB	SR	Y	ZR	NB	BA
WR-1	52	130	<10	<10	17	249
WR-2	16	128	<10	18	33	115
WR-3	17	181	<10	19	10	51
WR-4	37	140	24	<10	24	161
WR-5	17	101	<10	10	23	97
WR-6	<10	59	21	17	<10	22
WR-7	33	93	<10	<10	14	126
WR-8	12	128	<10	15	18	<10
WR-9	28	55	<10	17	10	343
WR-10	49	16	<10	<10	25	1030
WR-11	22	39	16	<10	25	118
WR-12	54	23	<10	20	34	114

XRAL

X-RAY ASSAY LABORATORIES
A DIVISION OF SGS SUPERVISION SERVICES INC.
1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA
TEL: (416)445-5755 TELEX: 06-986947 FAX: (416)445-4152

CERTIFICATE OF ANALYSIS

REPORT 19190

TO: CYPRUS CANADA
ATTN: D. STEVENSON
66 BRUCE AVE., P.O. BOX 1120
SOUTH PORCUPINE, ONTARIO
PON 1HO

CUSTOMER No. 2294

DATE SUBMITTED
12-May-92

REF. FILE 12237-E5

Total Pages 20

229 ROCKS Proj. KERR MINE

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.
AU G/MT	FA	.03
LI PPM	ICP	1.
BE PPM	ICP	.5
NA %	ICP	.01
MG %	ICP	.01
AL %	ICP	.01
P %	ICP	.01
K %	ICP	.01
CA %	ICP	.01
SC PPM	ICP	.5
TI %	ICP	.01
V PPM	ICP	2.
CR PPM	ICP	1.
MN %	ICP	.01
FE %	ICP	.01
CO PPM	ICP	1.

	METHOD	DETECTION LIMIT
NI PPM	ICP	1.
CU PPM	ICP	.5
ZN PPM	ICP	.5
AS PPM	ICP	3.
SR PPM	ICP	.5
Y PPM	ICP	.1
ZR PPM	ICP	.5
MO PPM	ICP	1.
AG PPM	ICP	.1
CD PPM	ICP	1.
SN PPM	ICP	10.
SB PPM	ICP	5.
BA PPM	ICP	1.
W PPM	ICP	10.
PB PPM	ICP	2.
BI PPM	ICP	3.

DATE 10-JUN-92

CERTIFIED BY ....
Jean H.L. Opdebeeck, General Manager

SAMPLE	AU PPB	AU G/MT	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
60811	320	--	31	1.0	.02	10.6	1.47	<.01	<.01
60812	1000	--	27	1.1	.09	5.08	.93	.15	<.01
60813	140	--	30	.9	.02	10.9	1.57	<.01	<.01
60814	82	--	29	.9	.02	10.8	1.66	<.01	<.01
60815	720	--	30	.9	.02	10.7	1.71	<.01	<.01
60816	50	--	29	.9	.02	11.1	1.67	<.01	<.01
60817	27	--	27	.8	.02	10.9	1.53	<.01	<.01
60818	14	--	28	.8	.02	11.4	1.56	<.01	<.01
60819	10	--	32	.8	.02	11.2	1.67	<.01	<.01
60820	14	--	23	.7	.03	8.53	.98	<.01	<.01
60821	12	--	31	.9	.03	10.5	1.19	<.01	<.01
60822	10	--	26	.9	.02	11.7	.93	<.01	.03
60823	45	--	14	.8	.02	9.22	.50	<.01	.06
60824	6	--	19	.8	.02	11.0	.66	<.01	.05
60825	14	--	32	.9	.02	11.1	1.09	<.01	.05
60826	7	--	27	.7	.03	8.86	.95	<.01	.03
60827	4800	--	30	.9	.04	8.95	1.17	<.01	.01
60828	24	--	27	.8	.03	10.6	1.24	<.01	<.01
60829	4	--	29	.8	.02	11.4	1.31	<.01	<.01
60830	540	--	29	.9	.03	10.3	1.80	<.01	<.01
60831	6	--	22	.9	.02	9.99	2.04	<.01	<.01
60832	4	--	11	.5	.02	9.27	.95	<.01	<.01
60833	3	--	12	<.5	.02	8.46	.99	<.01	<.01
60834	3	--	19	.8	.02	9.73	1.68	<.01	<.01
60835	27	--	28	.9	.02	10.2	1.75	<.01	<.01
60836	61	--	29	.8	.02	9.74	1.20	<.01	<.01
60837	92	--	23	.9	.02	11.3	.89	<.01	.02
60838	170	--	19	.8	.02	10.2	.70	<.01	.07
60839	390	--	7	.6	.03	7.94	.34	<.01	.07
60840	210	--	15	.8	.03	9.91	.55	<.01	.06
60841	210	--	15	.7	.03	9.20	.54	<.01	.03
60842	160	--	39	.9	.03	10.4	1.68	<.01	<.01
60843	23	--	42	1.0	.02	11.6	1.74	<.01	<.01
60844	270	--	45	1.0	.03	11.0	1.81	<.01	<.01
60845	>10000	12.1	19	.8	.03	8.77	.72	<.01	.01
60846	140	--	37	.9	.02	11.3	1.24	<.01	.01
60847	13	--	38	.9	.02	11.0	1.33	<.01	<.01
60848	90	--	36	.9	.02	10.5	1.20	<.01	.02
60849	38	--	29	.8	.02	9.48	.92	<.01	.03
60850	9	--	41	1.0	.02	10.5	1.30	<.01	.03
60851	19	--	51	.8	.02	8.27	1.64	<.01	.01
60852	7600	--	28	.7	.02	7.12	1.17	<.01	<.01
60853	32	--	38	1.0	.02	9.79	2.18	<.01	<.01
60854	14	--	21	.8	.02	9.87	1.86	<.01	<.01
60855	10	--	21	.8	.02	10.6	1.91	<.01	<.01
60856	110	--	25	1.0	.03	9.88	1.33	<.01	<.01
60857	13	--	25	.9	.02	11.0	1.31	<.01	<.01
60858	4	--	30	.9	.02	12.2	1.39	<.01	<.01
60859	36	--	26	.8	.01	12.1	1.29	<.01	<.01
60860	6	--	28	.8	.02	11.1	1.53	<.01	<.01

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	AU PPB	AU G/MT	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
60861	39	--	35	.9	.02	10.9	1.56	<.01	<.01
60862	69	--	8	.9	.02	11.3	.47	<.01	.09
60863	48	--	3	.9	.02	12.2	.19	<.01	.09
60864	300	--	1	.9	.02	9.83	.16	<.01	.11
60865	1300	--	1	.8	.02	8.38	.16	<.01	.08
60866	34	--	3	1.0	.02	12.9	.19	<.01	.09
60867	490	--	2	.8	.02	9.02	.18	<.01	.08
60868	1300	--	1	1.1	.02	9.36	.19	.04	.12
60869	2300	--	1	1.1	.03	8.80	.20	.02	.12
60870	440	--	1	1.1	.03	8.85	.20	.05	.12
60871	290	--	3	.8	.03	11.3	.22	<.01	.07
60872	3100	--	7	.6	.03	5.94	.32	<.01	.05
60873	3400	--	2	1.1	.05	3.68	.24	.03	.10
60874	180	--	3	.9	.04	6.66	.27	.09	.12
60875	>10000	16.0	2	.7	.03	6.50	.19	.04	.07
60876	2300	--	2	.9	.03	10.4	.20	<.01	.09
60877	74	--	1	.9	.03	13.2	.16	<.01	.08
60878	3000	--	1	.9	.03	11.5	.17	<.01	.11
60879	92	--	1	1.0	.03	12.0	.17	<.01	.09
60880	280	--	1	.9	.03	11.2	.18	<.01	.09
60881	290	--	3	.7	.02	9.97	.20	<.01	.06
60882	35	--	26	.8	.02	11.0	1.00	<.01	.05
60883	250	--	22	.8	.02	9.72	.75	.01	.05
60884	480	--	16	.9	.02	7.97	.60	.02	.07
60885	130	--	16	.8	.02	9.34	.58	.02	.06
60886	400	--	8	.7	.02	8.04	.36	.03	.06
60887	35	--	23	.8	.02	6.87	1.04	.25	.03
60888	18	--	13	.8	.03	4.17	1.38	<.01	<.01
60889	81	--	10	.6	.02	3.38	1.61	<.01	<.01
60890	130	--	18	.8	.02	3.47	2.15	<.01	<.01
60891	7	--	11	.6	.02	2.67	1.62	<.01	<.01
60892	230	--	11	.6	.02	1.83	1.55	<.01	<.01
60893	2900	--	23	1.5	.05	2.39	2.32	.05	.05
60894	13	--	27	1.9	.04	2.37	4.06	.05	<.01
60895	3	--	16	1.3	.07	1.78	3.09	.06	<.01
60896	4	--	28	2.1	.02	2.55	4.62	.04	<.01
60897	6	--	21	1.5	.05	2.10	3.46	.05	<.01
60898	17	--	24	1.8	.03	2.29	4.24	.05	<.01
60899	11	--	31	1.7	.06	2.28	3.83	.05	.01
60900	16	--	26	1.6	.05	2.31	3.75	.05	<.01
60993	15	--	11	.5	.02	8.60	.59	<.01	<.01
60994	6	--	15	.8	.02	10.5	.79	<.01	<.01
60995	14	--	19	.8	.02	9.18	.91	<.01	<.01
60996	11	--	28	.7	.08	3.24	1.81	.04	.27
60997	1	--	24	.7	.05	3.72	2.09	<.01	.54
60998	3	--	14	.7	.03	5.13	1.98	<.01	<.02
60999	2	--	46	.6	.04	6.52	2.13	<.01	.01
61000	520	--	7	3.0	.06	3.82	.96	<.01	.24
61001	110	--	37	1.3	.03	3.57	2.32	<.01	.05
61002	10	--	52	1.2	.03	3.84	2.63	<.01	.07

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	AU PPB	AU G/MT	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61003	230	--	50	1.3	.03	4.50	2.40	.01	.07
61004	250	--	23	1.8	.02	4.31	1.33	.02	.09
61005	94	--	32	1.7	.03	4.39	1.87	<.01	.06
61006	460	--	45	1.3	.03	4.63	2.24	<.01	.06
61007	32	--	44	1.6	.02	4.02	2.22	.01	.08
61008	27	--	49	1.3	.02	3.90	2.24	.01	.07
61009	53	--	57	1.0	.03	4.33	2.29	.01	.06
61010	900	--	29	2.0	.04	4.18	2.24	<.01	.13
61011	550	--	44	1.7	.03	3.97	2.83	<.01	.05
61012	2800	--	44	1.7	.02	3.48	2.82	<.01	<.01
61013	170	--	50	1.8	.03	4.32	3.24	<.01	.01
61014	180	--	47	2.1	.03	4.55	3.65	<.01	.04
61015	56	--	58	1.9	.02	4.52	3.75	.01	.01
61016	48	--	42	1.5	.02	4.34	3.28	.01	.02
61017	100	--	35	1.3	.03	3.55	2.62	<.01	.03
61018	77	--	66	1.3	.03	4.17	3.65	.01	.02
61019	71	--	70	1.2	.04	4.52	3.73	.01	.08
61020	930	--	33	2.0	.14	4.60	3.66	<.01	.56
61021	140	--	34	1.9	.17	4.52	3.76	<.01	.65
61022	1200	--	29	2.2	.08	5.01	4.12	<.01	.28
61023	840	--	15	2.2	.15	4.38	2.87	<.01	.62
61024	1100	--	9	2.0	.26	4.15	2.54	<.01	1.13
61025	>10000	12.5	7	2.0	.10	3.33	1.41	<.01	.47
61026	2900	--	11	1.5	.06	2.42	1.47	<.01	.20
61027	1000	--	9	.9	.06	2.50	1.24	.01	.22
61028	>10000	16.4	13	2.1	.08	3.53	1.70	<.01	.32
61029	4300	--	5	2.2	.27	3.56	1.68	<.01	1.21
61030	>10000	43.8	22	1.9	.17	4.28	3.00	<.01	.76
61031	3000	--	17	1.3	.10	3.28	2.18	<.01	.42
61032	7000	--	27	1.6	.06	3.76	2.77	<.01	.21
61033	3200	--	20	2.1	.13	4.03	2.62	<.01	.58
61034	1600	--	33	1.9	.12	5.14	3.83	<.01	.55
61035	280	--	50	1.7	.03	5.58	4.75	<.01	.04
61036	88	--	48	1.9	.05	5.91	5.29	.01	.14
61037	210	--	51	1.9	.06	5.82	5.05	.01	.18
61038	41	--	33	1.4	.13	3.88	3.30	<.01	.49
61039	240	--	19	1.6	.21	3.99	2.76	<.01	.83
61040	310	--	21	1.3	.13	3.68	2.64	<.01	.47
61041	13	--	27	1.0	.06	4.40	2.90	<.01	.16
61042	220	--	14	.6	.02	2.53	1.56	<.01	.02
61043	420	--	15	.5	.03	3.02	1.76	<.01	.05
61044	52	--	17	.6	.04	3.53	2.03	<.01	.09
61045	12	--	13	<.5	.04	2.91	1.62	<.01	.07
61046	19	--	17	.5	.03	3.38	1.93	<.01	.05
61047	16	--	16	<.5	.03	3.22	1.81	<.01	.06
61048	7	--	16	<.5	.04	3.29	1.87	<.01	.06
61049	5	--	14	<.5	.03	3.20	1.75	<.01	.03
61050	7	--	19	.6	.02	3.68	2.06	<.01	.02
61051	3	--	14	<.5	.03	2.91	1.54	<.01	.02
61052	390	--	37	.9	.03	3.85	2.42	.07	.03

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	AU PPB	AU G/MT	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61053	110	--	19	.6	.02	3.04	1.72	.09	.02
61054	110	--	17	.6	.03	3.72	2.15	<.01	.05
61055	1800	--	42	1.3	.09	4.64	3.06	.01	.28
61056	270	--	36	.7	.04	2.98	1.80	<.01	.08
61057	120	--	13	.6	.02	5.06	.89	<.01	<.01
61058	95	--	16	.7	.02	5.91	.98	<.01	<.01
61059	250	--	8	1.0	.03	3.61	.44	.01	.04
61060	38	--	16	.7	.02	6.33	.86	<.01	<.01
61061	1200	--	22	1.8	.06	4.54	2.12	<.01	.23
61062	700	--	16	1.3	.03	3.33	1.25	<.01	.12
61063	>10000	9.83	14	1.7	.03	3.06	1.19	<.01	.06
61064	530	--	15	2.1	.07	3.74	1.71	<.01	.27
61065	56	--	19	1.7	.03	3.85	1.46	<.01	.10
61066	160	--	14	1.4	.02	3.28	.93	<.01	.08
61067	1400	--	10	1.7	.03	3.68	.68	<.01	.10
61068	370	--	4	2.3	.02	3.87	.26	<.01	.10
61069	8900	--	3	1.7	.02	2.71	.20	<.01	.10
61070	3200	--	4	1.7	.02	2.51	.14	<.01	.08
61071	400	--	4	.9	.02	2.21	.23	<.01	.05
61072	6300	--	6	1.8	.02	2.97	.35	<.01	.07
61073	2300	--	2	.9	.02	3.07	.14	<.01	.07
61074	1300	--	8	1.9	.02	4.58	.51	<.01	.08
61075	32	--	22	1.0	.02	5.55	1.11	.25	.07
61076	67	--	18	.9	.02	5.04	.88	<.01	.08
61077	22	--	4	.8	.03	4.47	.22	.07	.07
61078	1000	--	23	1.5	.02	4.94	1.26	<.01	.04
61079	530	--	9	2.3	.02	3.99	.55	.03	.08
61080	150	--	8	2.4	.02	3.85	.52	<.01	.13
61081	37	--	51	1.3	.03	4.21	2.52	.01	.06
61082	16	--	62	1.2	.02	4.47	2.91	<.01	.08
61083	210	--	31	2.0	.02	4.41	1.38	<.01	.09
61084	480	--	7	2.7	.02	4.20	.29	<.01	.13
61085	920	--	4	2.3	.02	3.82	.25	<.01	.13
61086	160	--	6	2.2	.02	3.84	.48	<.01	.14
61087	>10000	32.6	9	2.1	.02	3.76	.67	<.01	.10
61088	930	--	43	1.4	.02	4.40	2.42	<.01	.03
61089	230	--	46	1.3	.02	4.30	2.30	<.01	.04
61090	1800	--	7	1.4	.02	2.97	.43	<.01	.07
61091	1200	--	26	1.3	.02	3.02	1.78	<.01	.05
61092	43	--	58	1.4	.02	3.96	3.00	.01	.03
61093	60	--	65	1.6	.02	4.33	3.49	<.01	.03
61094	980	--	24	1.7	.02	3.95	1.53	<.01	.12
61095	23	--	44	1.1	.04	4.22	2.07	.01	.07
61096	23	--	60	1.7	.02	4.46	3.11	.01	.04
61097	1000	--	15	1.7	.11	3.80	1.47	<.01	.46
61098	110	--	45	1.7	.03	4.16	3.12	<.01	.06
61099	6200	--	21	1.9	.09	3.77	1.94	<.01	.32
61100	1000	--	19	2.1	.10	3.28	2.00	<.01	.45
61101	23	--	26	1.8	.04	2.64	3.90	.05	<.01
61102	19	--	18	1.8	.04	2.28	3.59	.05	<.01

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	AU PPB	AU G/MT	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61103	910	--	18	2.0	.05	2.68	3.41	.04	<.01
61104	260	--	19	1.6	.04	1.92	3.26	.04	<.01
61105	3200	--	25	1.8	.04	2.57	2.98	.05	.07
61106	>10000	19.9	12	1.5	.05	1.94	1.54	.09	.10
61107	9400	--	5	1.2	.05	1.76	.65	.04	.12
61108	330	--	14	1.0	.03	5.59	1.43	.07	.03
61109	140	--	16	1.0	.03	6.00	1.96	.07	<.01
61110	2500	--	25	1.4	.03	5.19	1.97	.03	.05
61111	6700	--	16	1.4	.04	2.76	1.08	.07	.11
61112	4100	--	30	2.0	.03	3.65	2.11	.05	.07
61113	1200	--	30	1.3	.02	3.09	2.18	<.01	.03
61114	1100	--	27	1.6	.08	4.45	2.28	<.01	.33
61115	730	--	31	1.2	.02	3.96	1.80	<.01	.05
61116	30000	--	40	1.6	.14	4.05	3.22	.02	.55
61117	140	--	18	.6	.05	3.92	2.27	<.01	.12
61118	2800	--	18	1.6	.08	3.39	2.26	<.01	.30
61119	2100	--	25	2.0	.08	4.74	3.58	<.01	.29
61120	40	--	6	<.5	.02	1.64	.29	.03	<.01
61121	55	--	22	.8	.02	5.97	1.16	<.01	.02
61122	260	--	3	<.5	.03	1.73	.16	<.01	.02
61123	320	--	22	1.4	.03	4.88	1.55	<.01	.07
61124	470	--	3	<.5	.03	.75	.25	<.01	.03
61125	1400	--	25	1.9	.04	4.35	2.02	<.01	.16
61126	1300	--	1	<.5	.02	.88	.07	<.01	.03
61127	3200	--	3	2.5	.02	3.73	.19	<.01	.13
61128	220	--	<1	<.5	.02	.45	.05	<.01	.01
61129	420	--	13	1.4	.02	4.48	.74	<.01	.06
61130	200	--	4	<.5	.02	1.31	.22	<.01	<.01
61131	170	--	25	1.6	.02	5.33	1.28	<.01	.06

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
60811	3.14	16.6	<.01	73	1030	.10	5.12	51
60812	4.47	15.6	.01	108	482	.09	5.08	30
60813	3.43	15.7	<.01	70	1160	.10	5.01	52
60814	3.48	15.8	<.01	73	1230	.10	5.08	52
60815	3.54	16.2	<.01	79	1320	.09	5.09	54
60816	3.91	16.3	<.01	76	1290	.10	5.22	54
60817	3.49	14.4	<.01	68	1190	.09	4.89	56
60818	3.36	15.6	<.01	74	1150	.09	5.09	57
60819	3.21	16.2	<.01	79	1270	.09	5.02	56
60820	3.02	12.4	<.01	61	981	.07	3.99	42
60821	3.18	15.5	<.01	75	1140	.09	5.08	50
60822	3.29	13.1	<.01	51	870	.09	5.05	58
60823	3.04	10.1	<.01	28	524	.08	4.35	49
60824	2.69	11.2	<.01	30	560	.09	4.89	58
60825	3.04	13.8	<.01	48	954	.09	5.50	64
60826	2.32	10.1	<.01	43	855	.07	4.08	48
60827	3.41	16.6	<.01	83	1260	.09	5.42	51
60828	4.40	14.2	<.01	71	1100	.10	4.77	53
60829	2.61	13.9	<.01	72	1160	.08	4.92	58
60830	3.73	17.1	<.01	103	1520	.10	5.61	59
60831	3.44	17.4	<.01	96	1380	.10	5.33	52
60832	3.96	10.3	<.01	43	811	.11	3.63	30
60833	2.44	10.7	<.01	41	886	.09	3.42	29
60834	4.17	15.5	<.01	76	1230	.10	4.91	46
60835	4.31	17.8	<.01	90	1300	.10	5.28	55
60836	5.58	12.8	<.01	63	1000	.09	4.39	48
60837	3.63	13.1	<.01	60	919	.09	5.15	58
60838	3.34	11.5	<.01	37	661	.08	4.95	57
60839	2.72	7.6	<.01	24	465	.06	3.72	40
60840	3.66	10.0	<.01	36	626	.08	4.46	57
60841	3.63	9.3	<.01	44	790	.08	3.97	43
60842	3.18	15.5	<.01	86	1280	.08	5.07	55
60843	3.17	15.7	<.01	81	1250	.10	5.43	62
60844	3.66	17.7	<.01	96	1280	.10	5.64	59
60845	3.36	10.6	<.01	48	764	.08	4.12	46
60846	2.92	13.6	<.01	66	1100	.09	5.20	66
60847	3.32	15.1	<.01	78	1210	.10	5.29	60
60848	2.99	13.3	<.01	62	1060	.08	5.12	59
60849	4.14	12.7	<.01	49	822	.09	4.68	49
60850	3.24	14.1	<.01	59	1050	.09	5.28	56
60851	8.13	14.4	<.01	75	1040	.11	4.35	43
60852	7.26	12.0	<.01	60	981	.09	3.63	50
60853	4.94	14.4	<.01	81	1240	.10	5.10	52
60854	5.57	14.9	<.01	74	1190	.09	4.68	48
60855	4.93	15.5	<.01	75	1190	.10	4.99	53
60856	3.75	18.6	<.01	86	1330	.11	5.97	59
60857	3.24	15.7	<.01	74	1220	.10	5.34	58
60858	2.68	14.9	<.01	70	1200	.09	5.19	61
60859	3.62	13.8	<.01	60	976	.09	4.94	57
60860	3.90	15.2	<.01	70	1090	.10	4.97	51

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
60861	3.71	15.1	<.01	73	1170	.10	5.31	60
60862	3.39	11.7	<.01	32	430	.09	5.34	53
60863	3.39	11.3	<.01	22	290	.09	5.19	53
60864	4.14	10.0	<.01	21	236	.10	5.11	47
60865	4.35	10.5	<.01	18	215	.09	4.58	41
60866	3.57	11.9	<.01	24	273	.10	5.53	65
60867	6.19	9.7	<.01	21	214	.10	4.57	41
60868	3.39	13.7	<.01	21	212	.10	6.34	57
60869	3.95	13.9	<.01	21	185	.11	6.15	50
60870	4.61	14.0	<.01	22	196	.11	5.96	57
60871	3.31	10.1	<.01	22	304	.08	4.56	59
60872	2.76	7.0	<.01	17	395	.06	3.38	42
60873	3.85	13.8	<.01	25	112	.11	6.36	29
60874	5.39	11.2	<.01	22	275	.10	4.80	35
60875	6.04	8.0	<.01	16	214	.09	3.89	31
60876	3.66	11.2	<.01	20	253	.09	5.28	62
60877	3.38	11.9	<.01	23	237	.09	5.34	62
60878	3.96	10.8	<.01	23	263	.09	5.36	56
60879	4.91	12.9	<.01	25	245	.10	5.55	65
60880	5.91	12.5	<.01	23	236	.11	5.43	61
60881	4.03	8.8	<.01	19	262	.09	4.52	51
60882	3.43	14.1	<.01	48	830	.10	5.28	68
60883	5.49	11.0	<.01	38	848	.10	5.11	59
60884	6.87	10.6	<.01	32	643	.13	5.06	61
60885	4.99	9.2	<.01	31	718	.09	4.88	58
60886	6.68	8.2	<.01	24	453	.10	4.36	49
60887	10.7	10.9	<.01	50	1060	.16	4.92	59
60888	17.3	14.9	<.01	102	1680	.22	4.84	64
60889	22.1	11.6	<.01	78	1330	.26	4.18	65
60890	19.3	15.5	<.01	108	1720	.30	5.24	63
60891	22.9	13.4	<.01	91	1480	.31	4.25	62
60892	21.8	11.5	<.01	76	1300	.34	4.07	48
60893	7.68	22.8	<.01	253	39	.35	8.59	34
60894	6.06	31.5	.02	354	47	.27	10.3	40
60895	5.44	29.9	.02	358	54	.22	7.60	39
60896	6.22	30.4	.02	337	39	.27	11.7	36
60897	6.75	30.0	.02	321	51	.23	8.37	37
60898	7.18	31.4	.02	351	34	.26	10.4	56
60899	5.56	32.7	.02	372	51	.28	9.90	43
60900	7.47	33.7	.02	365	47	.26	9.09	41
60993	6.80	7.2	<.01	32	818	.10	3.29	47
60994	4.01	8.4	<.01	40	1060	.09	4.33	59
60995	6.94	9.4	<.01	46	1080	.10	4.25	60
60996	12.5	15.6	.01	102	1540	.17	3.71	59
60997	10.5	15.0	.08	105	1430	.14	3.83	30
60998	13.1	15.8	.03	102	1830	.17	4.28	47
60999	8.23	14.4	.01	92	1670	.11	3.98	45
61000	9.01	6.3	<.01	48	661	1.50	17.5	61
61001	5.53	16.4	<.01	119	2220	.33	8.06	86
61002	5.65	17.9	<.01	137	2500	.24	7.16	100

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61003	7.22	19.4	<.01	128	1050	.28	7.67	102
61004	6.10	14.7	<.01	75	931	.63	11.6	99
61005	5.66	19.0	<.01	121	1110	.49	10.8	128
61006	7.24	18.7	<.01	117	887	.28	7.58	89
61007	8.91	17.0	<.01	116	1040	.47	10.3	106
61008	8.46	16.1	<.01	110	965	.38	7.96	105
61009	6.55	18.3	<.01	122	1290	.24	6.31	112
61010	7.58	18.8	<.01	127	1330	.56	11.5	93
61011	5.61	22.0	<.01	152	2050	.43	10.0	102
61012	6.88	20.1	<.01	133	2020	.31	9.26	98
61013	7.73	22.2	<.01	146	1520	.34	9.42	92
61014	8.74	23.9	<.01	167	2000	.39	11.1	134
61015	7.47	27.3	<.01	188	1990	.31	9.85	98
61016	7.04	22.9	<.01	154	2540	.29	8.94	82
61017	8.53	19.1	<.01	128	2000	.34	8.14	75
61018	8.67	26.5	<.01	179	1960	.28	7.42	109
61019	7.91	25.3	<.01	167	1510	.26	6.76	108
61020	8.02	21.8	<.01	182	1890	.51	11.4	132
61021	5.50	23.1	<.01	177	1860	.47	10.9	106
61022	5.16	23.5	.01	186	2020	.42	12.2	120
61023	5.16	18.0	<.01	147	1900	.64	13.2	96
61024	5.55	15.6	<.01	123	1620	.72	12.7	94
61025	6.54	9.2	<.01	74	1010	.84	13.0	52
61026	2.89	6.6	<.01	58	1270	.29	8.79	93
61027	14.1	8.7	<.01	53	1060	.41	5.20	59
61028	6.15	9.0	<.01	84	1540	.44	12.3	91
61029	6.11	10.3	<.01	81	1020	.72	13.5	140
61030	5.70	16.1	<.01	131	1500	.57	11.6	154
61031	6.74	14.0	<.01	97	1190	.47	8.26	92
61032	5.78	14.4	<.01	108	1200	.36	9.41	95
61033	5.94	14.5	<.01	111	1190	.53	12.1	115
61034	7.52	23.0	<.01	177	1500	.62	11.4	132
61035	6.82	29.6	.01	206	2130	.36	9.51	139
61036	3.04	32.7	.01	246	1990	.25	10.6	168
61037	5.42	30.5	.01	228	1610	.32	10.3	167
61038	6.79	20.6	<.01	156	2480	.38	8.35	92
61039	7.76	17.2	<.01	134	2120	.50	9.60	70
61040	8.58	16.6	<.01	121	1740	.41	7.68	63
61041	11.7	17.4	<.01	132	1990	.24	5.17	71
61042	11.5	10.8	<.01	57	1370	.27	3.01	79
61043	13.0	11.8	<.01	73	1290	.16	3.05	67
61044	12.0	13.7	.02	88	1530	.16	3.28	63
61045	14.2	11.6	.03	67	1190	.15	2.62	46
61046	11.9	12.1	.02	78	1410	.15	2.97	60
61047	11.9	12.2	.03	76	1420	.14	2.85	57
61048	21.0	12.4	.04	75	1340	.22	3.02	50
61049	14.6	12.5	.03	72	1230	.16	2.78	56
61050	11.2	13.0	.03	84	1520	.13	3.20	59
61051	16.2	11.3	.02	63	1140	.18	2.50	42
61052	12.3	14.7	<.01	91	1690	.22	4.72	72

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61053	9.04	10.6	.01	68	1390	.18	3.35	57
61054	11.1	14.0	.02	86	1640	.17	3.55	68
61055	9.54	18.6	<.01	128	1390	.24	6.59	84
61056	16.6	12.8	<.01	77	1310	.23	3.61	61
61057	8.13	8.9	<.01	45	1140	.15	2.96	55
61058	10.3	8.1	<.01	49	1170	.18	3.46	51
61059	8.95	8.9	<.01	31	573	.42	5.89	65
61060	10.7	7.3	<.01	41	1020	.18	3.93	47
61061	7.79	17.3	<.01	120	2130	.61	10.3	110
61062	6.72	13.2	<.01	76	1500	.41	7.52	99
61063	6.23	9.5	<.01	70	1290	.55	10.3	62
61064	7.21	11.9	<.01	84	1300	.83	12.4	90
61065	6.44	15.0	<.01	80	1340	.56	10.3	117
61066	5.79	11.6	<.01	57	1200	.43	8.47	121
61067	6.05	10.7	<.01	43	729	.57	10.3	123
61068	7.20	7.4	<.01	25	303	.87	13.9	100
61069	6.62	6.0	<.01	18	291	.62	10.3	72
61070	5.89	5.2	<.01	14	232	.62	10.5	57
61071	6.29	5.5	<.01	18	491	.44	6.21	43
61072	6.77	6.6	<.01	28	418	.73	11.4	73
6 073	7.55	4.6	<.01	12	261	.43	5.74	38
6 074	8.26	8.8	<.01	30	436	.61	11.3	72
61075	9.17	13.2	<.01	57	1800	.23	5.99	79
61076	8.25	12.8	<.01	45	1490	.22	5.32	82
61077	10.7	8.6	<.01	19	268	.31	4.86	43
61078	8.06	11.4	<.01	55	938	.45	8.74	65
61079	4.66	9.3	<.01	38	689	.80	14.1	105
61080	4.17	9.4	<.01	36	382	.66	14.1	100
61081	6.47	17.6	<.01	133	948	.28	8.02	121
61082	5.61	15.0	<.01	128	1870	.23	7.80	94
61083	6.35	14.7	<.01	81	793	.60	11.8	124
61084	6.24	8.2	<.01	25	260	.95	16.5	109
61085	6.18	8.1	<.01	22	260	.75	13.6	111
61086	4.26	9.8	<.01	31	448	.64	13.3	111
61087	7.88	10.3	<.01	43	708	.71	12.4	113
61088	6.71	20.4	<.01	134	1580	.33	8.32	106
61089	6.55	18.8	<.01	129	1130	.33	7.60	102
61090	6.29	7.5	<.01	28	574	.51	8.43	90
61091	4.99	15.3	<.01	91	1780	.34	7.86	120
61092	5.78	19.3	<.01	138	2490	.30	8.35	104
61093	5.72	22.6	<.01	164	2610	.33	9.54	121
61094	6.33	14.9	<.01	78	1500	.47	10.3	147
61095	6.83	17.9	<.01	110	1240	.30	6.78	112
61096	6.98	20.3	<.01	145	1230	.42	10.1	127
61097	7.18	12.6	<.01	70	1310	.62	9.95	124
61098	5.73	22.3	<.01	148	2220	.50	10.1	100
61099	6.95	15.9	<.01	108	1610	.64	11.1	110
61100	6.28	13.8	<.01	101	1490	.60	11.8	102
61101	5.16	33.6	.02	353	34	.20	9.40	40
61102	5.52	32.1	.02	361	38	.23	9.79	38

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61103	4.62	33.3	.02	355	47	.23	10.8	40
61104	7.54	30.8	.02	325	39	.19	8.73	33
61105	4.16	22.3	.01	254	53	.21	9.92	38
61106	5.35	13.2	<.01	150	64	.21	8.46	36
61107	3.40	5.8	<.01	53	186	.12	6.37	19
61108	8.39	12.2	<.01	73	1010	.16	5.03	56
61109	7.26	15.8	<.01	110	963	.13	4.75	57
61110	7.87	17.1	<.01	128	848	.20	6.89	77
61111	5.75	11.6	<.01	100	92	.20	7.41	58
61112	7.04	19.4	<.01	191	55	.26	9.80	53
61113	9.95	14.8	<.01	102	1780	.30	6.87	98
61114	7.76	16.4	<.01	112	1920	.56	9.79	118
61115	10.6	13.5	<.01	80	1640	.44	7.01	95
61116	3.93	18.4	<.01	148	1400	.28	9.05	114
61117	13.9	15.0	.01	97	1750	.20	4.09	67
61118	4.74	13.4	<.01	109	1720	.33	9.08	91
61119	5.04	20.8	.01	179	2140	.50	11.6	119
61120	5.99	3.0	<.01	14	468	.10	1.40	14
61121	8.89	10.2	<.01	54	1340	.17	3.93	73
61122	4.55	5.2	<.01	14	413	.20	2.94	28
61123	9.29	16.3	<.01	101	1680	.46	8.23	131
61124	1.74	2.7	<.01	16	452	.13	2.21	21
61125	7.54	17.0	<.01	109	1980	.54	10.9	133
61126	2.97	2.4	<.01	7	263	.20	2.65	15
61127	7.38	5.9	<.01	19	207	1.01	15.4	98
61128	1.20	1.0	<.01	5	323	.07	1.22	7
61129	8.04	9.0	<.01	47	1050	.51	8.67	66
61130	2.74	3.4	<.01	16	432	.16	2.43	7
61131	8.69	12.4	<.01	56	821	.55	9.49	71

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
60811	574	37.0	40.0	25	96.6	.9	1.2	<1
60812	190	46.0	45.8	23	219.	4.2	19.9	12
60813	628	35.6	54.9	19	103.	.8	.7	<1
60814	651	28.9	44.3	13	101.	.8	.7	<1
60815	664	53.0	46.1	28	112.	.9	<.5	<1
60816	666	34.5	42.5	20	119.	.9	<.5	<1
60817	698	32.5	39.4	30	92.7	1.0	1.2	<1
60818	682	49.7	41.2	44	105.	1.0	.8	<1
60819	690	17.2	42.4	30	96.7	1.0	<.5	<1
60820	476	19.5	34.5	83	96.8	.9	.8	<1
60821	585	15.5	42.3	255	93.9	1.4	<.5	<1
60822	808	34.0	44.8	826	100.	2.0	.6	<1
60823	654	20.1	33.1	802	108.	1.3	<.5	<1
60824	821	21.9	32.1	963	74.0	1.3	<.5	<1
60825	787	27.6	44.3	637	64.0	1.4	<.5	<1
60826	599	28.2	36.6	292	65.8	1.1	<.5	<1
60827	509	45.8	33.4	82	67.6	1.1	.9	<1
60828	640	41.8	40.9	119	85.3	1.2	<.5	<1
60829	773	30.7	45.2	186	60.3	1.1	.5	<1
60830	665	29.3	50.4	83	75.2	1.3	.8	<1
60831	568	39.3	37.8	33	79.3	1.1	<.5	<1
60832	312	9.9	16.5	5	283.	1.1	<.5	<1
60833	321	6.3	16.1	<3	88.0	.7	<.5	<1
60834	547	26.3	33.8	7	128.	.8	<.5	<1
60835	548	41.7	45.8	48	146.	.9	<.5	<1
60836	649	24.9	37.7	165	152.	1.4	1.3	<1
60837	719	18.2	36.5	447	64.6	1.1	1.2	<1
60838	712	20.8	35.6	700	62.5	1.1	.8	<1
60839	564	19.7	28.3	659	67.8	1.0	<.5	<1
60840	755	26.5	29.6	892	97.8	1.2	.7	<1
60841	557	35.1	20.6	607	101.	1.2	1.3	<1
60842	711	52.0	42.3	261	82.1	1.0	<.5	<1
60843	813	19.9	50.8	247	114.	.9	<.5	<1
60844	616	32.2	51.8	216	126.	1.8	.6	<1
60845	586	9.8	37.6	608	91.6	1.2	<.5	<1
60846	887	29.2	42.9	462	60.6	1.3	<.5	<1
60847	634	41.2	43.2	136	63.0	1.4	<.5	<1
60848	723	20.6	41.8	316	65.0	1.2	<.5	<1
60849	577	41.8	36.9	531	100.	1.5	<.5	<1
60850	780	16.5	44.8	768	89.3	1.6	.6	<1
60851	557	14.9	37.6	381	223.	2.3	.9	<1
60852	782	11.7	31.5	697	234.	1.9	<.5	<1
60853	774	24.4	53.1	117	149.	1.3	.7	<1
60854	670	36.8	41.1	49	261.	1.4	.7	<1
60855	652	43.4	43.7	30	137.	1.1	<.5	<1
60856	585	84.1	44.4	40	79.8	1.6	.5	<1
60857	664	43.1	44.0	31	57.3	1.4	<.5	<1
60858	830	32.4	40.9	22	41.0	1.4	<.5	<1
60859	761	28.4	40.7	17	102.	1.1	<.5	<1
60860	602	37.0	41.7	10	67.5	.8	.5	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
60861	736	28.6	48.4	51	57.2	1.1	.7	<1
60862	681	30.3	41.1	738	56.1	1.3	.7	<1
60863	831	23.1	65.2	1220	53.5	1.5	<.5	<1
60864	600	38.9	47.7	928	89.3	1.6	1.5	<1
60865	512	18.0	35.3	793	94.8	1.8	1.3	<1
60866	1040	7.0	40.1	1470	73.1	1.7	1.2	<1
60867	559	31.0	32.6	815	149.	2.2	1.3	<1
60868	724	49.7	50.9	1020	92.5	2.7	7.6	<1
60869	565	62.6	47.5	762	100.	3.5	15.9	<1
60870	664	119.	50.1	910	113.	3.4	12.5	<1
60871	921	23.4	33.8	1070	64.4	1.8	<.5	<1
60872	535	75.8	28.2	556	56.0	1.1	.9	<1
60873	50	103.	41.3	65	91.2	3.2	1.9	<1
60874	397	91.3	38.9	490	163.	4.0	15.5	<1
60875	373	58.4	28.6	451	164.	3.0	5.2	<1
60876	867	15.8	30.7	1180	75.2	2.1	5.2	<1
60877	968	14.1	30.9	1280	63.4	1.8	<.5	<1
60878	807	35.3	39.5	1160	80.6	2.0	<.5	<1
60879	905	39.6	40.7	1260	88.7	2.4	<.5	<1
60880	821	15.6	32.8	1100	103.	2.3	<.5	<1
60881	711	20.3	24.3	801	61.8	1.5	<.5	<1
60882	823	36.6	32.9	26	45.6	1.1	<.5	<1
60883	810	37.6	40.5	727	67.5	1.6	<.5	<1
60884	753	172.	34.4	534	75.4	1.8	<.5	<1
60885	844	29.8	38.1	835	69.7	1.5	<.5	<1
60886	728	24.0	30.6	889	99.3	1.9	<.5	<1
60887	865	42.6	35.5	346	81.2	3.4	.7	<1
60888	790	45.8	45.0	63	65.9	4.0	.7	<1
60889	828	32.7	40.7	49	102.	4.9	.6	<1
60890	742	45.2	51.3	56	98.5	4.3	<.5	<1
60891	731	42.3	47.3	24	110.	5.0	<.5	<1
60892	560	35.0	35.7	42	133.	4.8	<.5	<1
60893	71	80.9	77.4	49	53.7	4.4	5.4	<1
60894	105	72.2	119.	12	88.7	3.5	4.4	<1
60895	89	84.1	99.1	<3	104.	4.2	3.5	<1
60896	35	75.7	130.	<3	80.3	4.7	4.2	<1
60897	67	72.5	106.	<3	95.4	5.1	2.8	<1
60898	189	74.6	133.	19	82.4	6.3	2.7	<1
60899	106	61.5	118.	<3	64.1	5.5	5.9	<1
60900	77	83.9	124.	<3	68.9	6.2	3.2	<1
60993	822	8.8	24.3	1130	73.5	2.5	<.5	<1
60994	896	20.8	27.2	1050	48.1	1.8	<.5	<1
60995	860	28.0	29.1	1140	79.6	2.1	<.5	<1
60996	497	39.6	31.1	406	130.	3.8	<.5	<1
60997	286	39.5	27.2	5	74.7	3.7	<.5	<1
60998	533	45.5	28.1	15	144.	5.7	<.5	<1
60999	584	49.6	32.2	<3	114.	4.9	<.5	<1
61000	924	47.2	31.5	2240	81.0	4.2	3.0	<1
61001	640	78.4	71.2	270	39.7	2.4	<.5	<1
61002	712	85.3	72.1	391	34.4	2.8	.7	<1

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61003	471	89.1	67.8	397	43.5	3.4	2.2	<1
61004	675	59.1	53.8	735	56.7	2.9	<.5	<1
61005	786	86.0	60.9	901	44.7	2.3	.9	<1
61006	479	79.5	63.9	923	42.6	3.0	.8	<1
61007	558	148.	61.3	254	45.9	2.8	1.2	<1
61008	572	131.	73.9	147	44.8	3.4	1.0	<1
61009	581	83.9	88.6	200	37.5	2.7	<.5	<1
61010	508	133.	56.9	513	72.6	3.2	.9	<1
61011	651	87.9	66.8	831	47.8	2.3	1.0	<1
61012	640	75.6	75.9	914	39.5	4.3	.6	<1
61013	552	54.0	72.8	856	48.5	4.3	<.5	<1
61014	849	50.3	123.	1320	58.9	4.9	.8	<1
61015	581	70.9	67.0	712	53.8	4.5	.9	<1
61016	696	69.3	66.5	517	44.3	3.1	.8	<1
61017	643	70.8	59.2	717	60.5	3.3	<.5	<1
61018	623	137.	73.7	871	88.0	2.7	.6	<1
61019	608	71.8	76.9	771	97.7	2.1	<.5	<1
61020	645	105.	77.6	2050	98.0	3.3	1.1	<1
61021	613	61.4	71.9	1080	55.7	2.2	1.3	<1
61022	702	43.8	73.5	3760	44.1	2.0	1.7	<1
61023	661	113.	61.5	3600	41.4	3.1	1.0	<1
61024	675	64.7	72.9	1280	40.1	4.1	1.0	<1
61025	453	101.	51.5	5540	44.3	4.5	1.8	<1
61026	849	91.4	39.0	19200	26.0	1.7	<.5	<1
61027	610	31.9	92.4	8760	150.	3.5	.6	<1
61028	938	106.	43.8	22100	48.0	3.5	1.6	<1
61029	942	302.	56.1	11000	56.7	4.0	.7	<1
61030	893	121.	72.1	7350	61.2	3.1	1.3	<1
61031	519	104.	50.3	2060	71.4	2.5	.8	<1
61032	510	42.6	53.1	4410	66.7	2.7	.7	<1
61033	608	97.2	54.8	9210	60.1	3.1	1.1	<1
61034	706	58.1	83.5	2420	84.2	3.7	.6	<1
61035	736	43.7	125.	3550	100.	2.2	.7	<1
61036	839	79.4	101.	1440	41.2	1.2	.8	<1
61037	844	68.5	97.8	1490	70.5	2.0	.6	<1
61038	602	61.0	77.8	848	68.4	1.9	<.5	<1
61039	517	51.9	59.1	780	76.3	3.8	.8	<1
61040	484	94.2	49.7	731	80.6	3.1	.9	<1
61041	593	60.7	67.8	248	117.	4.0	<.5	<1
61042	1050	39.1	24.6	3040	88.5	6.7	<.5	<1
61043	838	41.8	45.0	3470	72.2	3.4	<.5	<1
61044	580	40.3	26.6	893	85.6	3.0	<.5	<1
61045	369	29.6	19.7	399	146.	2.8	<.5	<1
61046	497	41.1	24.9	516	116.	1.8	<.5	<1
61047	413	69.6	32.7	343	79.8	2.2	<.5	<1
61048	406	46.9	24.4	284	150.	3.3	<.5	<1
61049	331	41.6	22.5	218	93.6	3.0	<.5	<1
61050	409	42.5	25.8	265	123.	2.0	<.5	<1
61051	322	27.3	29.2	274	130.	2.7	<.5	<1
61052	720	26.1	64.0	7170	128.	4.0	<.5	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61053	645	33.0	209.	2400	112.	3.2	<.5	<1
61054	659	39.5	33.7	879	95.9	2.0	<.5	<1
61055	699	84.1	87.2	3940	68.2	3.3	<.5	<1
61056	722	30.6	38.6	4640	115.	3.8	<.5	<1
61057	832	21.6	33.5	1960	80.2	2.8	<.5	<1
61058	813	21.3	26.1	1750	76.4	3.6	<.5	<1
61059	733	33.1	22.7	2000	61.5	3.8	<.5	<1
61060	760	8.3	27.7	1410	85.1	3.6	<.5	<1
61061	996	30.0	50.0	1870	73.7	3.5	.7	<1
61062	835	95.2	38.2	1680	59.9	3.4	<.5	<1
61063	567	258.	35.4	1390	56.0	3.6	1.0	<1
61064	772	134.	39.8	1300	68.4	3.3	1.2	<1
61065	771	115.	42.0	948	58.4	2.3	.8	<1
61066	725	48.5	41.0	1070	54.0	2.2	<.5	<1
61067	800	74.8	34.0	1350	54.9	2.4	<.5	<1
61068	936	202.	31.7	1460	62.0	3.1	.5	<1
61069	758	195.	26.1	1450	61.3	3.4	<.5	<1
61070	623	167.	25.0	724	57.2	3.4	<.5	<1
61071	455	234.	21.8	545	64.4	3.1	<.5	<1
61072	845	183.	27.8	1200	62.9	3.8	.5	<1
61073	588	35.7	16.0	941	47.6	2.2	<.5	<1
61074	892	93.7	31.6	1460	69.6	3.5	<.5	<1
61075	1190	35.0	38.8	2180	84.3	6.2	<.5	<1
61076	1240	35.8	36.1	2340	74.3	3.0	<.5	<1
61077	535	7.4	21.0	1050	75.1	4.0	<.5	<1
61078	737	125.	47.4	6020	74.7	2.9	.8	<1
61079	1100	139.	49.8	2750	43.7	2.9	1.9	<1
61080	881	94.4	47.8	1150	43.6	2.5	.9	<1
61081	533	77.7	65.3	502	45.8	2.2	.6	<1
61082	574	89.8	71.1	184	39.3	2.4	1.4	<1
61083	747	91.1	56.6	1260	53.7	2.4	1.0	<1
61084	955	201.	48.2	1210	59.2	3.1	1.7	<1
61085	867	179.	42.9	1140	65.1	3.4	.5	<1
61086	879	57.7	43.9	1420	41.2	2.0	1.1	<1
61087	850	112.	39.0	1640	65.9	4.5	1.1	<1
61088	560	114.	59.3	406	44.6	2.2	1.1	<1
61089	545	92.7	60.2	349	38.3	2.1	.6	<1
61090	598	194.	28.7	972	57.7	2.6	<.5	<1
61091	670	70.5	40.9	537	44.9	1.5	<.5	<1
61092	670	69.2	60.4	399	38.0	2.3	1.0	<1
61093	780	73.1	71.8	334	39.6	2.1	1.0	<1
61094	928	51.1	53.7	1270	55.0	2.5	.9	<1
61095	623	84.5	66.7	159	39.4	3.0	.7	<1
61096	632	91.1	83.5	183	44.6	2.4	<.5	<1
61097	836	78.4	53.4	1650	70.8	3.8	.5	<1
61098	732	58.0	61.3	961	52.0	2.1	1.1	<1
61099	787	108.	51.6	1580	62.0	4.5	1.0	<1
61100	828	187.	46.6	947	54.6	3.6	1.0	<1
61101	66	70.5	133.	<3	40.0	5.1	2.7	<1
61102	43	80.7	111.	<3	105.	4.3	2.9	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61103	30	82.8	124.	25	102.	3.5	3.9	<1
61104	28	66.0	102.	<3	101.	4.8	3.5	<1
61105	36	99.6	253.	32	39.1	3.3	3.6	<1
61106	38	101.	68.5	73	40.2	3.5	2.7	<1
61107	87	54.9	121.	138	43.4	2.2	5.5	<1
61108	697	73.2	50.7	298	139.	3.6	2.8	<1
61109	658	84.2	50.2	164	136.	4.6	8.4	<1
61110	917	47.2	55.9	147	130.	5.6	1.0	<1
61111	206	58.1	38.6	135	65.9	4.4	2.7	<1
61112	183	117.	220.	174	68.1	5.0	2.5	<1
61113	930	58.4	51.0	1780	44.3	6.3	<.5	<1
61114	1290	51.8	57.1	3130	46.9	4.0	1.6	<1
61115	980	39.9	59.8	6220	81.3	4.5	.6	<1
61116	628	98.3	74.8	1100	47.2	2.0	.5	<1
61117	659	40.7	63.0	851	160.	2.6	<.5	<1
61118	902	43.2	48.4	27300	48.5	1.9	.9	<1
61119	710	62.2	72.7	6740	46.9	2.7	1.5	<1
61120	215	43.8	10.5	457	39.5	4.2	<.5	<1
61121	1130	36.4	31.0	2200	81.8	3.1	.6	<1
61122	267	24.4	10.8	589	36.5	2.9	<.5	<1
61123	1500	61.9	43.1	3210	67.8	3.6	<.5	<1
61124	187	26.5	9.1	362	15.9	1.1	<.5	<1
61125	1090	118.	53.0	2200	68.4	3.9	1.5	<1
61126	167	33.1	8.9	240	28.5	1.6	<.5	<1
61127	1090	145.	33.5	1170	64.7	3.7	1.6	<1
61128	104	9.9	12.2	133	12.3	.8	<.5	<1
61129	1070	48.1	46.3	1860	58.3	2.8	.7	<1
61130	82	28.1	11.9	251	30.3	1.6	<.5	<1
61131	830	127.	58.4	1740	80.0	3.3	1.1	<1

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
60811	.5	<1	<10	13	183	<10	<2	<3
60812	.2	<1	<10	7	115	<10	8	7
60813	.4	<1	<10	14	148	<10	<2	6
60814	.3	<1	<10	13	125	<10	<2	7
60815	.3	<1	<10	18	192	<10	<2	6
60816	<.1	<1	<10	15	93	<10	<2	5
60817	.3	<1	<10	14	72	<10	<2	5
60818	.3	<1	<10	14	199	<10	<2	8
60819	.3	<1	<10	14	204	<10	3	5
60820	<.1	<1	<10	11	97	<10	2	5
60821	.2	<1	<10	13	4	<10	<2	4
60822	.5	<1	<10	11	19	<10	3	6
60823	.2	<1	<10	7	15	<10	<2	6
60824	.3	<1	<10	9	13	<10	2	9
60825	.3	<1	<10	11	9	<10	3	8
60826	.3	<1	<10	12	13	<10	2	6
60827	.4	<1	<10	16	60	<10	2	8
60828	.3	<1	<10	14	66	<10	<2	6
60829	.5	<1	<10	15	76	<10	8	5
60830	.3	<1	<10	16	35	<10	2	4
60831	.3	<1	<10	18	57	<10	5	6
60832	.3	<1	<10	8	251	<10	<2	<3
60833	.2	<1	<10	9	106	<10	2	5
60834	.3	<1	<10	13	173	<10	<2	5
60835	<.1	<1	<10	16	239	<10	<2	7
60836	<.1	<1	<10	12	6	<10	<2	5
60837	.2	<1	<10	10	13	<10	<2	6
60838	.4	<1	<10	10	6	<10	4	7
60839	.2	<1	<10	9	8	<10	<2	<3
60840	.1	<1	<10	11	11	<10	<2	6
60841	.4	<1	<10	11	10	<10	3	5
60842	.3	<1	<10	13	4	<10	<2	6
60843	<.1	<1	<10	13	2	<10	<2	6
60844	.3	<1	<10	13	2	<10	<2	6
60845	.4	<1	<10	10	6	<10	2	<3
60846	.3	<1	<10	14	3	<10	<2	9
60847	.5	<1	<10	17	3	<10	<2	<3
60848	.2	<1	<10	14	4	<10	2	7
60849	.3	<1	<10	14	5	<10	<2	<3
60850	.1	<1	<10	14	5	<10	4	4
60851	.3	<1	<10	11	3	<10	<2	6
60852	.3	<1	<10	11	3	<10	<2	3
60853	<.1	<1	<10	12	2	<10	<2	7
60854	.4	<1	<10	11	545	<10	<2	5
60855	.4	<1	<10	16	47	<10	<2	4
60856	.4	<1	<10	13	10	<10	3	4
60857	.2	<1	<10	15	173	<10	<2	9
60858	.2	<1	<10	19	18	<10	<2	9
60859	.2	<1	<10	15	279	<10	<2	4
60860	.1	<1	<10	17	358	<10	<2	<3

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
60861	.4	<1	<10	11	24	<10	<2	9
60862	.4	<1	<10	17	41	<10	5	4
60863	.4	<1	<10	20	10	<10	2	6
60864	.5	<1	<10	28	16	<10	2	<3
60865	.6	<1	<10	15	18	<10	<2	7
60866	.6	<1	<10	14	13	<10	3	8
60867	<.1	<1	<10	14	12	<10	2	<3
60868	.5	<1	<10	26	19	68	2	<3
60869	.6	<1	<10	22	18	<10	4	8
60870	.3	<1	<10	41	18	<10	4	<3
60871	.3	<1	<10	31	9	<10	<2	8
60872	.4	<1	<10	19	9	<10	<2	<3
60873	.5	<1	<10	<5	27	<10	3	<3
60874	.3	<1	<10	15	24	<10	5	<3
60875	1.0	<1	<10	14	13	<10	3	4
60876	.6	<1	<10	19	13	<10	4	7
60877	.5	<1	<10	21	10	<10	3	4
60878	.4	<1	<10	23	12	<10	3	5
60879	.1	<1	<10	35	12	<10	2	4
60880	.4	<1	<10	14	11	<10	6	6
60881	<.1	<1	<10	13	10	<10	2	3
60882	.3	<1	<10	10	7	<10	<2	3
60883	.5	<1	<10	16	8	<10	4	8
60884	.8	<1	<10	11	10	<10	<2	<3
60885	.5	<1	<10	16	9	<10	3	5
60886	.2	<1	<10	16	9	260	3	<3
60887	.3	<1	<10	13	7	777	<2	<3
60888	.5	<1	<10	17	5	<10	4	<3
60889	.7	<1	<10	14	5	<10	2	<3
60890	.5	<1	<10	18	4	<10	<2	5
60891	.3	<1	<10	14	25	<10	3	<3
60892	.8	<1	<10	15	6	<10	<2	<3
60893	.8	<1	<10	<5	29	<10	<2	6
60894	<.1	1	<10	<5	4	<10	<2	9
60895	.2	<1	<10	<5	4	<10	<2	5
60896	.2	1	<10	<5	4	<10	<2	10
60897	<.1	<1	<10	<5	4	<10	<2	5
60898	.5	1	<10	<5	4	<10	<2	9
60899	.3	<1	<10	<5	9	<10	<2	7
60900	.2	<1	<10	<5	6	<10	<2	7
60993	<.1	<1	<10	36	4	<10	3	4
60994	.3	<1	<10	46	3	<10	3	<3
60995	<.1	<1	<10	30	4	<10	<2	8
60996	.3	<1	<10	20	57	<10	<2	<3
60997	.5	<1	<10	14	46	<10	<2	<3
60998	.2	<1	<10	21	16	<10	<2	5
60999	.2	<1	<10	17	15	<10	<2	4
61000	2.2	3	<10	12	154	<10	21	<3
61001	.5	<1	<10	26	31	<10	<2	<3
61002	.3	<1	<10	27	32	<10	4	4

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61003	1.0	<1	<10	14	31	<10	13	3
61004	1.1	1	<10	13	56	<10	3	<3
61005	1.0	<1	<10	18	34	<10	2	4
61006	.6	<1	<10	12	26	<10	<2	<3
61007	.8	1	<10	13	45	<10	<2	<3
61008	.8	<1	18	14	34	<10	28	<3
61009	.4	<1	<10	22	27	<10	2	<3
61010	.9	1	<10	17	110	<10	4	<3
61011	1.0	<1	<10	22	37	<10	59	3
61012	.9	<1	<10	25	6	<10	8	7
61013	.5	<1	<10	18	11	<10	<2	<3
61014	.9	1	<10	24	28	<10	<2	9
61015	.4	<1	<10	22	11	<10	<2	6
61016	.5	<1	<10	28	12	<10	<2	5
61017	.8	<1	<10	23	21	<10	<2	<3
61018	.3	<1	<10	24	15	<10	<2	<3
61019	.4	<1	<10	22	31	<10	<2	<3
61020	1.1	1	<10	21	280	<10	<2	4
61021	.5	<1	<10	22	324	<10	2	<3
61022	.9	1	<10	23	104	<10	<2	9
61023	1.3	1	<10	21	252	<10	3	<3
61024	1.5	<1	<10	19	580	<10	<2	<3
61025	2.9	2	<10	14	194	<10	7	<3
61026	.9	<1	<10	23	106	<10	3	<3
61027	.7	<1	<10	16	168	<10	5	<3
61028	1.8	1	<10	25	75	<10	6	<3
61029	1.4	1	<10	20	275	<10	9	<3
61030	3.0	<1	<10	20	169	<10	<2	<3
61031	.4	<1	<10	16	110	<10	<2	<3
61032	1.1	<1	<10	15	61	<10	3	4
61033	1.0	<1	<10	18	150	<10	4	<3
61034	1.1	1	<10	17	185	<10	2	<3
61035	.7	<1	<10	25	84	<10	<2	8
61036	.3	<1	<10	25	41	<10	<2	10
61037	.4	<1	<10	19	56	<10	<2	7
61038	.7	<1	<10	26	114	<10	<2	4
61039	1.0	<1	<10	24	203	<10	3	<3
61040	.7	<1	<10	20	126	<10	<2	<3
61041	.1	<1	<10	22	103	<10	<2	<3
61042	.5	<1	<10	18	11	<10	<2	<3
61043	.3	<1	<10	16	15	<10	<2	<3
61044	<.1	<1	<10	18	24	<10	<2	<3
61045	.3	<1	<10	13	23	<10	<2	<3
61046	.2	<1	<10	16	42	<10	<2	<3
61047	.4	<1	<10	15	19	<10	<2	<3
61048	.5	<1	<10	15	103	<10	<2	<3
61049	.3	<1	<10	12	15	<10	<2	<3
61050	<.1	<1	<10	17	29	<10	<2	4
61051	.3	<1	34	14	25	<10	46	<3
61052	.2	<1	<10	22	92	29	12	<3

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61053	<.1	1	<10	21	10	<10	4	<3
61054	<.1	<1	<10	19	54	<10	<2	<3
61055	.7	<1	<10	18	240	52	43	<3
61056	.4	<1	<10	18	54	<10	4	<3
61057	.1	<1	<10	17	9	<10	2	<3
61058	.7	<1	<10	17	6	<10	7	3
61059	.7	<1	<10	14	30	<10	3	<3
61060	.4	<1	<10	15	7	<10	5	<3
61061	.8	<1	<10	36	159	<10	3	<3
61062	1.1	<1	<10	23	100	<10	100	3
61063	2.0	1	<10	22	48	<10	5	<3
61064	1.6	1	<10	18	172	<10	3	<3
61065	1.0	1	<10	26	55	<10	<2	<3
61066	.7	<1	<10	22	38	<10	3	<3
61067	1.0	<1	<10	21	54	<10	4	<3
61068	1.7	2	<10	10	63	<10	7	<3
61069	1.5	1	<10	7	54	<10	8	<3
61070	1.7	1	<10	6	49	<10	6	<3
61071	1.0	<1	<10	7	29	<10	4	<3
61072	2.0	1	<10	8	50	<10	5	<3
61073	.9	<1	<10	10	35	<10	3	<3
61074	1.1	1	<10	10	50	<10	4	<3
61075	.4	<1	<10	27	19	<10	3	3
61076	.6	<1	<10	29	16	<10	3	<3
61077	.5	<1	<10	10	24	<10	<2	<3
61078	1.1	<1	<10	17	22	<10	4	<3
61079	2.1	2	<10	14	43	<10	6	<3
61080	1.2	2	<10	9	69	<10	5	<3
61081	.2	<1	<10	14	19	<10	<2	4
61082	.4	<1	<10	20	34	<10	<2	5
61083	1.5	1	<10	13	53	<10	3	<3
61084	2.1	3	31	6	72	<10	51	<3
61085	1.8	2	<10	6	63	<10	6	<3
61086	1.2	2	<10	11	73	<10	4	<3
61087	2.2	2	<10	11	58	<10	8	<3
61088	.8	<1	<10	17	16	<10	3	<3
61089	.4	<1	<10	13	19	<10	<2	<3
61090	1.1	<1	<10	10	33	<10	5	<3
61091	.5	<1	<10	20	28	<10	3	4
61092	.4	<1	<10	27	19	<10	3	7
61093	.4	<1	<10	28	18	<10	<2	6
61094	1.0	1	<10	19	50	<10	4	3
61095	.5	<1	<10	17	33	<10	<2	<3
61096	.7	<1	<10	16	18	<10	2	<3
61097	1.5	1	<10	22	366	<10	<2	<3
61098	.8	<1	<10	26	54	<10	<2	5
61099	1.5	1	<10	24	266	<10	3	<3
61100	1.4	1	<10	19	294	<10	8	<3
61101	.1	<1	<10	<5	5	<10	<2	5
61102	<.1	<1	<10	<5	5	<10	<2	5

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61103	.2	<1	<10	<5	5	<10	<2	4
61104	.1	<1	<10	<5	8	<10	<2	5
61105	.4	<1	<10	<5	20	<10	2	10
61106	1.5	<1	<10	<5	26	<10	5	7
61107	.8	<1	<10	<5	36	<10	6	7
61108	.1	<1	<10	13	12	<10	3	3
61109	.2	<1	<10	12	6	<10	2	<3
61110	.6	<1	<10	11	14	<10	9	5
61111	1.2	<1	<10	<5	19	<10	6	<3
61112	.7	3	<10	<5	14	<10	7	5
61113	.8	<1	<10	28	20	<10	12	<3
61114	1.0	1	<10	27	168	<10	3	<3
61115	.8	<1	<10	21	19	<10	6	<3
61116	.5	<1	<10	15	190	<10	<2	4
61117	.5	<1	<10	20	58	<10	5	<3
61118	.5	<1	<10	27	73	<10	4	<3
61119	1.0	1	<10	21	124	<10	<2	4
61120	<.1	<1	<10	<5	6	<10	13	<3
61121	.3	<1	<10	20	8	<10	10	<3
61122	.4	<1	<10	6	14	<10	2	<3
61123	.7	1	<10	32	41	<10	4	<3
61124	.3	<1	<10	<5	19	<10	<2	<3
61125	1.3	1	<10	28	91	<10	2	<3
61126	.3	<1	<10	<5	26	<10	<2	<3
61127	2.2	3	<10	5	73	<10	9	<3
61128	.2	<1	<10	<5	5	<10	<2	<3
61129	1.1	<1	<10	21	25	<10	<2	<3
61130	.4	<1	<10	<5	4	<10	4	<3
61131	.9	1	<10	14	39	<10	3	<3

XRAL

X-RAY ASSAY LABORATORIES
A DIVISION OF SGS SUPERVISION SERVICES INC.
1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA
TEL: (416)445-5755 TELEX: 06-986947 FAX: (416)445-4152

CERTIFICATE OF ANALYSIS

REPORT 19361

TO: CYPRUS CANADA
ATTN: D. STEVENSON
66 BRUCE AVE., P.O. BOX 1120
SOUTH PORCUPINE, ONTARIO
PON 1HO

CUSTOMER No. 2294

DATE SUBMITTED
3-Jun-92

REF. FILE 12389-G2

Total Pages 18

202 ROCKS Proj. KERR MINE

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.
LI PPM	ICP	1.
BE PPM	ICP	.5
NA %	ICP	.01
WRMAJ. %	WR	.01
MG %	ICP	.01
AL %	ICP	.01
P %	ICP	.01
K %	ICP	.01
CA %	ICP	.01
SC PPM	ICP	.5
TI %	ICP	.01
V PPM	ICP	2.
CR PPM	ICP	1.
MN %	ICP	.01
FE %	ICP	.01
CO PPM	ICP	1.

	METHOD	DETECTION LIMIT
NI PPM	ICP	1.
CU PPM	ICP	.5
ZN PPM	ICP	.5
AS PPM	ICP	3.
WRMIN PPM	WR	10.
SR PPM	ICP	.5
Y PPM	ICP	.1
ZR PPM	ICP	.5
MO PPM	ICP	1.
AG PPM	ICP	.1
CD PPM	ICP	1.
SN PPM	ICP	10.
SB PPM	ICP	5.
BA PPM	ICP	1.
W PPM	ICP	10.
PB PPM	ICP	2.
BI PPM	ICP	3.

DATE 19-JUN-92

CERTIFIED BY ....
Jean H.L. Opdebeeck, General Manager

SAMPLE	AU PPB	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61201	31	51	1.9	.09	2.80	4.56	.05	<.01
61202	10	31	1.1	.06	1.87	2.80	.04	<.01
61203	10	30	1.1	.08	1.78	2.82	.04	.02
61204	21	28	.9	.05	1.63	2.53	.04	.07
61205	13	28	1.0	.08	1.67	2.52	.04	.01
61206	10	27	1.0	.07	1.77	2.37	.04	.02
61207	28	22	1.0	.08	1.44	1.93	.04	.05
61208	60	14	.8	.08	1.40	1.27	.04	.08
61209	610	11	.9	.09	1.24	1.16	.04	.06
61210	300	18	1.3	.10	1.90	2.04	.06	.05
61211	10	36	1.1	.04	4.81	2.83	.01	.05
61212	8	21	1.1	.04	3.74	3.06	<.01	.07
61213	11	13	.7	.02	6.87	1.80	<.01	<.01
61214	23	20	.8	.02	6.23	1.83	<.01	<.01
61215	90	34	1.1	.03	5.96	2.53	<.01	<.01
61216	85	15	.8	.02	7.09	1.89	<.01	<.01
61217	62	8	.7	.03	7.01	1.15	<.01	<.01
61218	270	14	.7	.02	7.57	1.20	<.01	<.01
61219	16	14	.8	.02	8.12	1.68	<.01	<.01
61220	10	11	.8	.02	8.14	1.55	<.01	<.01
61221	10	10	.8	.02	8.39	1.27	<.01	<.01
61222	33	14	.8	.02	8.51	1.20	<.01	<.01
61223	360	17	.9	.02	8.27	1.07	<.01	.05
61224	44	10	1.0	.02	6.23	.59	.01	.17
61225	1200	7	1.1	.02	7.13	.36	<.01	.20
61226	330	4	.8	.03	6.35	.24	.02	.15
61227	220	24	1.5	.02	4.39	.97	.01	.22
61228	36	3	1.8	.06	2.91	.42	.04	.20
61229	40	23	1.7	.06	2.34	2.04	.04	.21
61230	19	26	1.4	.05	2.15	2.31	.05	.20
61231	26	14	1.1	.04	1.79	1.23	.04	.27
61232	41	9	1.4	.05	2.04	1.01	.04	.37
61233	180	4	1.2	.05	1.78	.52	.04	.31
61234	200	4	1.7	.05	2.20	.62	.05	.37
61235	24	2	1.6	.04	2.18	.36	.04	.32
61236	75	5	1.4	.04	2.21	.57	.09	.29
61237	73	6	1.3	.04	2.13	.63	.06	.23
61238	12	24	1.4	.06	2.36	2.24	.06	.17
61239	14	18	1.3	.07	1.83	1.72	.05	.10
61240	16	25	1.1	.05	3.58	1.72	.14	.16
61241	12	13	1.2	.05	2.30	1.07	.08	.18
61242	17	14	1.1	.05	2.79	1.19	.12	.20
61243	15	18	1.4	.04	2.27	1.72	.07	.17
61244	19	24	1.7	.04	2.06	2.39	.05	.21
61245	19	21	1.4	.04	2.19	1.95	.05	.23
61246	15	17	1.3	.04	2.39	1.63	.04	.22
61247	24	15	1.3	.06	2.17	1.48	.05	.22
61248	17	28	1.4	.09	2.25	2.47	.05	.10
61249	33	29	1.4	.08	2.14	2.63	.05	.10
61250	17	26	1.3	.08	2.04	2.38	.05	.13

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	AU PPB	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61251	13	19	1.2	.06	1.81	1.78	.05	.15
61252	8	30	1.2	.03	3.92	2.08	.11	.17
61253	22	20	1.3	.04	3.35	1.66	.10	.19
61254	11	41	1.3	.06	4.39	2.54	.17	.12
61255	11	45	1.7	.04	3.44	3.32	.07	.06
61256	15	26	1.3	.05	2.38	2.08	.06	.17
61257	13	40	1.4	.04	3.61	2.41	.08	.08
61258	29	17	1.3	.06	1.88	1.30	.05	.10
61259	50	7	1.4	.08	1.84	.71	.05	.14
61260	460	12	1.8	.06	2.29	.95	.07	.15
61261	63	13	1.2	.04	5.83	.65	<.01	.14
61262	28	7	1.2	.04	5.98	.33	<.01	.14
61263	24	43	1.4	.05	6.39	1.76	<.01	.06
61264	310	37	1.5	.07	4.73	1.87	.01	.02
61265	70	14	1.3	.03	5.94	.64	.04	.11
61266	18	16	1.0	.05	6.06	.79	.01	<.01
61267	8	42	1.0	.02	6.65	1.82	<.01	<.01
61268	22	36	1.5	.04	3.57	2.35	.08	.05
61269	45	20	1.6	.04	2.13	1.73	.04	.12
61270	140	30	1.4	.04	2.73	2.16	.05	.12
61271	10	8	1.1	.05	1.80	.83	.05	.19
61272	10	20	1.4	.05	1.80	1.81	.05	.14
61273	15	24	1.6	.06	2.00	2.17	.05	.09
61274	17	21	1.4	.05	1.91	1.93	.05	.15
61275	50	25	1.4	.05	2.55	1.98	.07	.15
61276	4	46	1.3	.04	4.52	2.50	.12	.08
61277	6	24	1.4	.06	2.11	1.96	.05	.18
61278	13	9	1.4	.06	1.97	.79	.06	.14
61279	120	6	1.7	.06	2.09	.62	.05	.14
61280	230	9	1.0	.11	1.37	.49	.07	.03
61281	13	19	1.1	.03	9.43	1.13	<.01	<.01
61282	13	10	1.2	.02	8.42	.63	<.01	.09
61283	44	3	1.2	.03	6.15	.21	.02	.13
61284	83	11	.9	.04	6.40	.47	<.01	.04
61285	150	4	1.0	.08	5.08	.26	<.01	.01
61286	40	21	1.1	.05	7.29	1.34	.03	<.01
61287	16	38	1.1	.03	7.75	3.02	<.01	<.01
61288	10	14	.8	.05	6.64	1.93	<.01	<.01
61289	10	10	1.0	.05	7.14	1.54	.01	<.01
61290	5	12	1.0	.04	6.35	1.70	.04	.03
61291	5	15	1.2	.10	5.20	2.34	.24	.10
61292	17	16	1.1	.02	7.70	1.97	<.01	<.01
61293	64	21	1.1	.03	6.85	1.18	.02	<.01
61294	19	26	1.0	.02	8.04	2.05	.01	<.01
61295	140	39	1.0	.02	9.39	1.57	.02	<.01
61296	180	37	.9	.02	8.97	1.50	<.01	<.01
61297	72	30	1.0	.02	9.70	1.32	<.01	<.01
61298	84	24	1.0	.02	8.90	.96	<.01	.02
61299	110	20	1.1	.01	9.60	.93	<.01	.03
61300	9800	31	1.1	.07	4.00	1.51	.17	.03

SAMPLE	AU PPB	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61301	150	30	1.1	.05	4.29	1.35	.20	.04
61302	440	14	.8	.03	3.27	.64	.12	.05
61303	200	14	.9	.02	4.97	.62	.35	.07
61304	380	5	1.0	.03	6.16	.32	.21	.10
61305	240	11	.9	.02	7.02	.56	.03	.05
61306	190	14	.9	.02	9.55	.70	<.01	.05
61307	170	20	.8	.02	9.96	.95	<.01	.03
61308	30	22	.8	.02	10.3	1.00	<.01	.03
61309	110	5	.9	.04	7.62	.30	.04	.06
61310	4100	2	1.1	.04	6.10	.19	<.01	.09
61311	7600	<1	.6	.13	1.27	.14	.02	.01
61312	200	30	.9	.03	8.33	1.27	.04	.03
61313	45	3	.9	.03	9.02	.19	<.01	.10
61314	45	6	.9	.02	8.83	.33	<.01	.11
61315	33	5	.9	.02	9.54	.26	.03	.07
61316	35	1	.6	.03	6.73	.09	<.01	.06
61317	56	<1	1.0	.02	11.3	.11	<.01	.08
61318	65	<1	.9	.03	12.4	.11	<.01	.08
61319	38	5	1.0	.03	11.3	.31	<.01	.11
61320	72	2	1.1	.03	10.4	.18	<.01	.12
61321	33	15	1.0	.02	13.0	.68	<.01	.06
61322	19	12	.9	.02	12.0	.56	<.01	.06
61323	32	20	.9	.03	12.1	.84	<.01	.04
61324	98	5	.9	.04	12.6	.28	<.01	.07
61325	15	12	.9	.03	12.3	.61	<.01	.06
61326	26	11	.9	.03	11.1	.52	<.01	.03
61327	28	11	.9	.03	12.0	.57	<.01	.04
61328	21	14	1.0	.02	12.2	.74	<.01	.03
61329	40	17	1.0	.03	13.1	.97	<.01	.02
61330	14	18	1.0	.03	13.1	.96	<.01	<.01
61331	20	17	.9	.03	12.2	1.18	<.01	<.01
61332	4	15	.7	.03	10.3	1.18	<.01	<.01
61333	4	14	.7	.04	9.38	1.23	<.01	<.01
61334	2	9	.6	.03	8.06	.84	<.01	<.01
61335	8	15	.7	.05	8.20	1.34	<.01	<.01
61336	31	13	.7	.05	7.57	1.23	<.01	<.01
61337	26	17	.7	.04	8.26	1.37	<.01	<.01
61338	19	20	.9	.05	8.62	1.61	<.01	<.01
61339	180	22	1.0	.04	10.6	1.52	<.01	<.01
61340	19	19	.9	.04	11.0	1.13	<.01	<.01
61341	7	25	1.0	.03	10.6	1.08	<.01	.02
61342	14	9	1.0	.03	13.1	.47	<.01	.07
61343	16	8	1.0	.03	12.4	.46	<.01	.13
61344	13	9	1.1	.03	14.1	.44	<.01	.10
61345	27	15	1.0	.03	12.0	.71	<.01	.08
61346	19	27	1.0	.03	11.1	1.55	<.01	.01
61347	10	31	.9	.03	10.3	1.82	<.01	<.01
61348	10	31	1.1	.03	11.8	1.89	<.01	<.01
61349	10	9	1.2	.03	12.0	.41	<.01	.05
61350	890	<1	<.5	.13	1.76	.11	<.01	<.01

SAMPLE	AU PPB	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61351	63	11	1.1	.03	11.5	.51	<.01	.08
61352	32	6	.9	.03	12.1	.28	<.01	.08
61353	23	15	1.0	.02	12.5	.58	<.01	.08
61354	17	34	.9	.03	10.2	1.14	<.01	.03
61355	90	64	1.0	.04	10.6	2.19	.04	.02
61356	11	40	.9	.04	10.2	1.34	<.01	.01
61357	14	45	.9	.04	10.1	1.57	<.01	<.01
61358	13	51	1.0	.03	10.6	1.83	<.01	<.01
61359	7	36	.9	.02	12.0	1.43	<.01	<.01
61360	22	31	.9	.02	11.6	1.60	<.01	<.01
61361	11	25	.9	.02	9.37	1.62	<.01	<.01
61362	21	10	.8	.04	10.8	1.43	<.01	<.01
61363	12	10	.9	.03	8.83	1.91	.03	<.01
61364	9	9	.8	.04	8.30	1.90	<.01	<.01
61365	8	11	1.0	.03	9.25	2.22	<.01	<.01
61366	12	25	1.1	.03	8.15	2.96	<.01	<.01
61367	12	71	1.4	.07	5.53	3.25	.24	<.01
61368	8	45	1.3	.02	8.20	3.34	.05	<.01
61369	5	36	1.1	.03	8.02	2.46	.09	<.01
61370	20	24	.9	.03	7.48	2.09	.01	<.01
61371	11	35	.9	.04	2.15	2.27	.08	.20
61372	14	26	.9	.04	2.39	1.87	.07	.20
61373	56	31	.8	.07	2.04	2.06	.07	.17
61374	18	30	.8	.06	2.10	2.08	.08	.18
61375	19	32	.8	.07	1.98	2.17	.08	.13
61376	20	30	.9	.08	1.86	2.11	.08	.11
61377	13	23	.9	.07	2.10	1.64	.06	.11
61378	6	27	1.3	.08	1.97	2.42	.05	.11
61379	14	19	1.1	.08	1.81	1.72	.05	.13
61380	27	18	1.1	.08	1.88	1.63	.05	.07
61381	33	15	1.2	.10	1.81	1.46	.06	.10
61382	170	15	1.1	.09	1.87	1.39	.05	.08
61383	75	33	1.1	.08	2.62	2.09	.06	.08
61384	99	58	1.7	.04	4.24	3.13	.10	.12
61385	93	54	1.5	.02	5.33	2.91	.04	.05
61386	100	41	1.3	.02	4.31	2.38	.01	.05
61387	360	31	1.5	.02	4.27	1.87	<.01	.10
61388	47	65	1.2	.02	5.48	2.90	<.01	.03
61389	59	34	1.3	.02	5.78	1.98	<.01	.06
61390	8400	15	1.1	.02	4.82	.92	<.01	.08
61391	1400	14	1.1	.04	3.94	.82	<.01	.13
WR-13	--	--	--	--	--	--	--	--
WR-14	--	--	--	--	--	--	--	--
WR-15	--	--	--	--	--	--	--	--
WR-16	--	--	--	--	--	--	--	--
WR-17	--	--	--	--	--	--	--	--
WR-18	--	--	--	--	--	--	--	--
WR-19	--	--	--	--	--	--	--	--
WR-20	--	--	--	--	--	--	--	--
WR-21	--	--	--	--	--	--	--	--

SAMPLE	AU PPB	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
WR-22	--	--	--	--	--	--	--	--
WR-23	--	--	--	--	--	--	--	--

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61201	4.37	35.0	.06	400	49	.21	10.0	38
61202	3.54	24.8	.03	274	40	.15	5.96	27
61203	3.96	24.3	.02	289	26	.15	6.14	29
61204	3.75	14.5	.02	202	56	.15	5.40	29
61205	3.50	25.0	.02	277	48	.12	5.55	30
61206	3.00	22.3	.01	270	44	.11	5.71	33
61207	2.54	17.9	.02	232	63	.11	5.72	34
61208	2.99	13.2	.01	158	61	.11	4.90	29
61209	2.45	14.2	.01	130	68	.10	5.05	23
61210	3.70	24.2	.03	230	73	.18	8.30	37
61211	8.28	20.9	<.01	144	1180	.27	7.14	77
61212	10.6	20.8	.01	141	1920	.30	6.91	70
61213	15.2	13.5	<.01	82	1540	.15	4.72	58
61214	9.98	15.6	<.01	97	1450	.13	4.94	58
61215	8.05	21.2	<.01	139	1540	.19	6.66	68
61216	8.46	14.5	<.01	88	1690	.14	5.01	63
61217	9.93	9.8	<.01	53	1260	.13	4.02	48
61218	11.3	10.3	<.01	58	1490	.16	4.46	53
61219	10.9	12.4	<.01	76	1750	.17	4.96	60
61220	9.26	11.4	<.01	72	1970	.13	4.79	60
61221	9.79	10.5	<.01	58	1690	.11	4.59	54
61222	9.63	10.6	<.01	56	1300	.13	4.60	46
61223	11.5	11.8	<.01	52	1040	.15	5.03	51
61224	7.04	12.1	<.01	29	389	.11	5.66	52
61225	7.29	12.3	<.01	22	312	.14	6.45	69
61226	8.61	10.1	<.01	17	383	.15	4.80	71
61227	5.83	10.1	<.01	31	445	.32	8.77	101
61228	6.58	12.5	<.01	48	102	.40	11.1	27
61229	4.73	12.9	.01	156	123	.31	9.71	37
61230	4.20	13.1	<.01	174	85	.23	7.97	37
61231	4.07	7.2	<.01	78	53	.21	6.25	30
61232	5.04	7.6	<.01	66	98	.30	7.86	37
61233	4.12	6.0	<.01	40	166	.22	6.75	32
61234	4.21	7.8	<.01	51	110	.36	9.67	33
61235	4.21	6.7	<.01	35	103	.33	9.03	32
61236	3.78	6.8	<.01	35	81	.20	7.82	32
61237	4.71	7.1	<.01	48	67	.26	7.45	32
61238	4.38	11.6	<.01	158	77	.23	8.17	37
61239	4.03	14.5	.01	172	68	.22	7.41	34
61240	6.08	10.3	<.01	90	167	.17	5.84	34
61241	3.87	7.7	<.01	62	102	.17	6.43	32
61242	6.14	8.3	<.01	76	91	.20	5.83	28
61243	5.58	10.1	.01	122	64	.36	8.08	33
61244	4.54	11.4	.02	156	65	.42	9.93	32
61245	4.36	9.1	<.01	112	80	.26	7.92	29
61246	5.30	8.2	<.01	93	62	.26	7.46	28
61247	3.46	10.6	<.01	103	70	.17	7.47	45
61248	3.33	20.1	.02	259	67	.16	7.81	41
61249	2.84	20.0	.02	280	73	.15	7.74	48
61250	3.31	17.5	.01	238	57	.19	7.55	40

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61251	3.81	11.7	<.01	152	77	.23	6.73	34
61252	6.18	11.5	<.01	122	223	.20	6.22	40
61253	6.61	11.4	<.01	119	171	.25	6.78	39
61254	5.96	13.0	.01	132	326	.20	6.56	36
61255	4.71	20.8	.01	249	222	.35	9.57	37
61256	4.50	10.7	<.01	139	90	.21	7.27	34
61257	5.43	13.1	<.01	140	291	.17	7.58	33
61258	4.56	14.6	<.01	136	54	.17	7.43	35
61259	4.04	13.7	<.01	113	84	.17	7.49	49
61260	4.00	12.0	<.01	105	102	.15	9.16	42
61261	18.9	12.0	<.01	41	227	.28	6.24	63
61262	18.7	12.4	<.01	20	232	.32	6.10	70
61263	10.1	20.0	<.01	110	655	.22	6.41	62
61264	6.90	27.3	<.01	178	415	.22	7.39	45
61265	13.0	14.1	<.01	58	559	.32	6.49	88
61266	10.8	18.8	<.01	84	606	.21	5.40	67
61267	8.10	15.6	<.01	104	1140	.15	4.87	50
61268	5.44	15.7	<.01	162	276	.29	8.67	49
61269	4.31	11.2	<.01	127	67	.34	9.28	30
61270	3.62	13.6	<.01	141	127	.24	8.31	31
61271	6.45	7.8	<.01	60	57	.40	6.60	33
61272	4.73	11.4	<.01	143	55	.36	8.35	30
61273	5.20	15.4	<.01	167	54	.43	9.78	31
61274	4.70	11.4	<.01	131	74	.34	8.16	38
61275	5.53	11.7	<.01	130	128	.34	8.00	37
61276	5.78	15.2	<.01	139	452	.23	6.50	38
61277	4.91	12.8	<.01	152	59	.27	8.07	43
61278	4.85	9.7	<.01	75	100	.26	7.69	57
61279	4.83	11.2	<.01	77	59	.29	9.08	39
61280	3.58	8.2	<.01	62	122	.09	4.77	38
61281	13.6	17.8	<.01	112	1030	.19	5.70	63
61282	12.9	15.0	<.01	53	532	.23	6.43	79
61283	13.7	12.2	<.01	21	193	.24	6.33	78
61284	6.32	16.2	<.01	57	513	.13	5.44	56
61285	5.73	18.4	<.01	60	249	.13	5.83	50
61286	7.20	20.8	<.01	127	883	.16	6.78	77
61287	6.31	22.3	<.01	140	1260	.14	6.28	68
61288	7.28	16.2	<.01	102	1600	.13	4.49	48
61289	10.9	20.2	<.01	124	2060	.19	5.46	70
61290	7.96	18.0	<.01	118	1680	.16	5.22	67
61291	5.55	27.1	.02	228	270	.14	6.27	38
61292	9.57	15.7	<.01	99	1610	.16	5.27	76
61293	12.3	20.3	<.01	110	1950	.28	6.35	96
61294	7.92	15.7	<.01	95	1510	.15	5.05	74
61295	8.96	16.6	<.01	88	1120	.14	5.35	108
61296	8.27	15.1	<.01	80	1330	.14	4.90	66
61297	7.42	15.1	<.01	88	1310	.13	5.37	78
61298	9.88	13.6	<.01	72	982	.16	5.04	116
61299	8.97	12.3	<.01	81	870	.14	5.37	81
61300	6.39	14.1	<.01	81	316	.13	5.30	44

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61301	8.05	13.0	<.01	81	406	.18	5.27	165
61302	15.7	8.4	<.01	43	610	.31	4.87	142
61303	13.5	8.4	<.01	35	406	.28	5.02	112
61304	15.6	8.4	<.01	25	335	.31	5.98	111
61305	13.9	11.0	<.01	38	597	.24	5.40	75
61306	10.5	11.6	<.01	39	668	.17	5.25	65
61307	9.48	12.8	<.01	48	881	.17	5.37	62
61308	6.06	11.9	<.01	49	921	.12	5.02	63
61309	8.71	12.3	<.01	25	254	.16	5.10	38
61310	9.68	11.9	<.01	21	223	.23	6.75	100
61311	2.53	3.1	<.01	7	99	.09	3.72	20
61312	7.66	14.0	<.01	63	1190	.15	5.30	64
61313	9.73	11.1	<.01	21	213	.17	5.50	68
61314	9.67	11.1	<.01	24	330	.18	5.35	68
61315	8.59	10.5	<.01	21	295	.16	5.51	61
61316	5.50	7.6	<.01	15	154	.09	3.58	39
61317	4.58	11.1	<.01	21	177	.10	5.32	60
61318	5.45	10.6	<.01	21	161	.12	5.34	77
61319	3.86	11.1	<.01	22	238	.10	5.66	60
61320	4.68	12.4	<.01	20	212	.11	5.91	53
61321	4.23	12.8	<.01	37	619	.11	5.46	65
61322	2.80	12.5	<.01	32	584	.09	5.31	60
61323	3.23	12.8	<.01	41	779	.09	5.04	57
61324	3.25	11.6	<.01	27	384	.09	5.36	58
61325	3.19	14.1	<.01	36	580	.10	5.40	58
61326	6.37	11.3	<.01	34	565	.11	4.73	53
61327	2.79	12.1	<.01	41	601	.08	4.90	60
61328	3.05	14.3	<.01	52	820	.09	5.54	66
61329	3.49	13.9	<.01	64	992	.10	5.39	63
61330	3.88	14.9	<.01	68	1060	.11	5.57	65
61331	3.76	13.7	<.01	63	1080	.10	4.98	57
61332	3.80	12.1	<.01	58	913	.10	4.23	42
61333	2.59	12.9	<.01	58	989	.09	4.31	40
61334	3.23	9.4	<.01	38	759	.09	3.20	25
61335	3.29	13.9	<.01	62	1090	.10	4.24	39
61336	3.68	12.7	<.01	53	930	.10	3.85	30
61337	3.97	14.2	<.01	62	885	.10	4.20	35
61338	3.50	17.0	<.01	81	1020	.10	5.08	45
61339	4.63	16.0	<.01	80	886	.10	5.28	53
61340	4.73	13.3	<.01	65	1080	.10	4.95	55
61341	5.27	15.1	<.01	69	1100	.11	5.59	58
61342	3.14	12.3	<.01	34	423	.10	5.57	64
61343	3.60	11.0	<.01	30	450	.10	5.37	63
61344	4.77	12.5	<.01	33	356	.11	6.13	68
61345	5.48	13.6	<.01	39	542	.11	5.50	65
61346	3.48	15.2	<.01	74	1150	.09	5.26	61
61347	4.05	16.1	<.01	77	1110	.10	5.05	55
61348	3.84	18.8	<.01	82	1230	.11	5.87	78
61349	8.93	15.3	<.01	42	398	.16	5.79	58
61350	2.36	4.7	<.01	6	86	.03	2.16	9

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61351	4.62	12.7	<.01	33	491	.11	5.44	63
61352	4.09	9.8	<.01	23	292	.09	4.48	56
61353	3.03	11.5	<.01	33	555	.09	5.20	62
61354	6.45	11.4	<.01	50	868	.10	4.65	57
61355	5.40	15.1	<.01	81	1030	.10	5.42	52
61356	9.61	12.4	<.01	58	997	.13	4.72	49
61357	9.14	13.1	<.01	67	1130	.12	4.72	56
61358	5.68	15.2	<.01	83	1250	.10	5.07	59
61359	4.58	13.3	<.01	67	1040	.09	4.91	59
61360	3.94	14.9	<.01	73	1100	.10	5.13	58
61361	5.92	14.4	<.01	67	1040	.09	4.55	53
61362	17.0	10.2	<.01	57	858	.17	3.98	39
61363	10.6	11.9	<.01	70	941	.11	3.99	48
61364	8.83	14.1	<.01	77	1240	.10	4.48	59
61365	6.39	18.1	<.01	92	1430	.10	5.20	54
61366	7.53	19.0	<.01	115	1340	.10	5.21	56
61367	4.51	18.2	<.01	129	387	.09	5.37	33
61368	6.72	20.4	<.01	128	1180	.12	5.52	54
61369	9.33	16.0	<.01	91	914	.15	4.70	45
61370	8.77	16.0	<.01	89	1290	.15	4.31	57
61371	1.82	3.1	<.01	29	141	.05	3.51	18
61372	3.42	3.7	<.01	27	148	.11	3.75	20
61373	2.35	3.5	<.01	29	176	.08	3.68	19
61374	2.63	3.7	<.01	29	198	.09	3.79	22
61375	2.23	4.2	<.01	33	199	.07	3.77	28
61376	2.10	4.6	<.01	35	171	.06	3.70	29
61377	3.18	4.1	<.01	34	139	.08	3.53	41
61378	4.22	21.1	.01	264	63	.18	7.25	41
61379	3.74	15.0	<.01	198	85	.15	6.44	44
61380	4.16	23.0	<.01	255	74	.17	6.65	42
61381	4.27	18.7	<.01	224	188	.14	6.29	41
61382	4.39	19.7	<.01	216	73	.14	6.15	39
61383	3.72	21.8	<.01	253	53	.13	6.17	43
61384	5.21	20.1	<.01	200	518	.18	8.43	65
61385	6.53	18.8	<.01	155	1820	.27	8.24	83
61386	5.61	12.6	<.01	98	2100	.24	7.71	121
61387	7.02	11.6	<.01	71	1570	.29	8.39	125
61388	5.27	18.5	<.01	124	2660	.20	6.63	102
61389	8.13	15.6	<.01	83	1400	.24	7.17	99
61390	8.54	10.7	<.01	41	784	.22	6.54	93
61391	7.75	6.9	<.01	31	449	.22	6.37	81
WR-13	--	--	--	--	--	--	--	--
WR-14	--	--	--	--	--	--	--	--
WR-15	--	--	--	--	--	--	--	--
WR-16	--	--	--	--	--	--	--	--
WR-17	--	--	--	--	--	--	--	--
WR-18	--	--	--	--	--	--	--	--
WR-19	--	--	--	--	--	--	--	--
WR-20	--	--	--	--	--	--	--	--
WR-21	--	--	--	--	--	--	--	--

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
WR-22	--	--	--	--	--	--	--	--
WR-23	--	--	--	--	--	--	--	--

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61201	32	91.8	157.	41	64.0	4.0	7.4	<1
61202	24	66.7	124.	23	52.3	4.0	6.1	<1
61203	24	63.3	101.	15	65.5	3.1	4.4	<1
61204	31	65.6	124.	9	48.0	3.3	4.6	<1
61205	39	68.4	119.	13	51.0	3.9	4.2	<1
61206	81	66.1	113.	34	42.5	3.5	4.4	<1
61207	65	71.3	120.	61	29.3	4.1	4.3	<1
61208	58	53.4	108.	428	38.8	3.9	3.4	<1
61209	54	41.8	197.	2940	35.3	3.4	3.0	<1
61210	140	78.8	205.	902	44.4	4.4	5.9	<1
61211	498	85.1	68.9	167	62.6	3.5	2.2	<1
61212	551	61.6	65.7	32	96.0	3.6	1.9	<1
61213	718	31.7	44.4	41	117.	4.6	<.5	<1
61214	618	50.5	50.5	277	96.8	4.2	<.5	<1
61215	581	68.2	66.8	489	96.1	3.4	1.5	<1
61216	708	42.4	46.9	448	137.	3.0	<.5	<1
61217	630	28.8	25.3	503	220.	2.8	<.5	<1
61218	646	23.4	35.1	844	308.	3.3	<.5	<1
61219	808	24.5	40.4	144	320.	3.5	<.5	<1
61220	707	37.9	38.5	96	289.	2.9	<.5	<1
61221	790	34.9	39.3	71	288.	2.8	<.5	<1
61222	670	33.3	38.3	177	402.	3.0	.5	<1
61223	701	26.9	44.0	1330	794.	5.1	<.5	<1
61224	401	59.5	52.7	911	416.	3.7	.8	<1
61225	569	53.0	51.5	929	523.	4.2	1.1	<1
61226	732	25.4	38.9	1530	782.	5.6	.5	<1
61227	699	85.5	63.1	964	254.	3.6	1.1	<1
61228	44	67.6	124.	72	202.	4.0	3.2	<1
61229	42	90.7	145.	55	144.	3.1	3.5	<1
61230	45	89.1	134.	35	115.	2.7	3.5	<1
61231	42	69.7	135.	28	110.	2.5	3.4	<1
61232	50	76.3	106.	30	135.	3.1	4.1	<1
61233	42	69.4	114.	34	156.	2.9	3.4	<1
61234	41	96.0	145.	36	192.	4.1	3.9	<1
61235	52	91.2	118.	46	223.	4.0	4.4	<1
61236	45	83.4	149.	41	210.	4.8	9.6	<1
61237	70	88.5	190.	47	236.	4.2	6.6	<1
61238	83	92.2	300.	49	189.	4.1	5.9	<1
61239	61	73.0	209.	46	133.	3.9	4.4	<1
61240	98	65.9	102.	77	282.	7.4	19.8	<1
61241	76	83.2	172.	70	158.	4.4	9.4	<1
61242	79	74.1	138.	79	236.	6.5	19.3	<1
61243	77	78.3	197.	68	167.	4.4	10.0	<1
61244	50	101.	213.	39	128.	3.7	5.2	<1
61245	35	82.3	216.	40	144.	3.3	5.0	<1
61246	33	68.5	131.	45	179.	4.8	3.8	<1
61247	123	102.	189.	101	133.	3.6	2.5	<1
61248	86	94.9	160.	62	126.	3.3	4.7	<1
61249	84	97.8	169.	65	129.	3.5	4.3	<1
61250	75	75.9	204.	62	131.	4.0	4.2	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61251	87	79.6	193.	62	154.	4.0	3.7	<1
61252	146	79.6	116.	111	464.	6.3	13.2	<1
61253	142	73.9	113.	120	567.	5.6	11.6	<1
61254	103	64.8	107.	48	428.	6.3	15.1	<1
61255	85	87.7	137.	37	260.	3.5	6.0	<1
61256	62	89.5	221.	65	120.	3.3	3.8	<1
61257	104	89.0	172.	56	217.	4.2	11.3	<1
61258	40	75.9	118.	67	112.	3.2	4.0	<1
61259	113	92.0	263.	177	114.	3.3	4.4	<1
61260	92	106.	189.	212	146.	3.4	10.1	<1
61261	569	26.9	136.	1370	434.	7.6	4.2	<1
61262	693	14.0	44.1	1730	401.	6.0	.8	<1
61263	524	26.6	53.5	1110	280.	5.3	1.0	<1
61264	241	101.	67.2	2310	182.	3.7	3.2	<1
61265	1100	19.6	47.9	2720	365.	6.0	1.0	<1
61266	450	39.7	63.6	1160	366.	5.8	4.0	<1
61267	511	25.4	69.8	866	230.	3.6	<.5	<1
61268	141	87.3	313.	99	235.	4.7	10.1	<1
61269	61	116.	442.	57	143.	3.2	4.3	<1
61270	54	82.9	233.	47	147.	3.9	5.6	<1
61271	47	89.0	265.	49	192.	3.7	3.0	<1
61272	37	95.9	233.	26	136.	2.6	4.3	<1
61273	45	98.1	295.	26	154.	2.7	5.0	<1
61274	53	109.	299.	44	150.	2.7	3.7	<1
61275	80	96.7	301.	69	239.	4.2	7.6	<1
61276	137	82.0	144.	76	356.	5.5	14.1	<1
61277	65	96.0	233.	56	151.	4.0	4.3	<1
61278	118	105.	379.	92	161.	3.9	5.8	<1
61279	75	95.5	247.	91	188.	3.0	4.1	<1
61280	248	150.	950.	466	428.	3.4	11.7	2
61281	869	12.2	89.9	1610	506.	6.3	2.4	<1
61282	809	14.9	52.2	1730	428.	4.6	1.3	<1
61283	788	30.1	46.7	1990	435.	4.5	1.1	<1
61284	358	46.1	34.0	918	197.	2.6	<.5	<1
61285	235	101.	40.2	1660	135.	1.9	1.1	<1
61286	618	76.9	53.1	1450	153.	2.9	.7	<1
61287	438	58.0	93.9	434	117.	2.8	1.4	<1
61288	421	180.	35.4	57	153.	3.6	<.5	<1
61289	739	78.6	44.3	187	180.	3.6	<.5	<1
61290	628	36.6	44.6	217	152.	3.6	2.7	<1
61291	152	78.9	84.0	124	127.	8.7	21.8	<1
61292	903	36.0	44.2	298	195.	3.0	1.3	<1
61293	864	101.	33.6	425	231.	5.1	.7	<1
61294	784	48.9	41.1	622	150.	2.1	<.5	<1
61295	1590	31.2	47.4	2030	267.	3.6	<.5	<1
61296	796	35.9	42.3	875	187.	3.2	<.5	<1
61297	1080	19.0	46.1	1530	187.	3.0	<.5	<1
61298	1340	25.2	42.1	1970	263.	3.2	<.5	<1
61299	1100	6.5	48.6	1750	245.	3.3	.5	<1
61300	183	85.8	54.1	292	132.	5.1	12.3	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61301	1210	76.2	61.3	1160	166.	5.8	11.0	<1
61302	1600	60.5	52.3	1130	151.	4.6	.8	<1
61303	1430	60.8	62.1	986	217.	4.9	2.7	<1
61304	1710	151.	38.5	1750	221.	4.2	.9	<1
61305	1200	93.4	45.5	1040	210.	3.2	.6	<1
61306	895	139.	42.0	1080	210.	2.8	<.5	<1
61307	835	115.	46.3	904	183.	2.6	.6	<1
61308	853	34.4	47.9	902	144.	2.0	<.5	<1
61309	416	130.	38.0	577	178.	4.5	7.2	<1
61310	1320	243.	34.2	1770	175.	3.7	1.3	<1
61311	172	152.	77.4	255	50.3	1.2	5.8	<1
61312	809	57.1	51.8	265	88.5	2.6	.5	<1
61313	894	32.7	44.9	1400	198.	3.5	.7	<1
61314	846	55.2	43.0	1260	158.	3.0	<.5	<1
61315	791	25.8	42.4	1180	193.	2.2	<.5	<1
61316	530	7.9	27.1	875	127.	2.3	1.2	<1
61317	912	13.2	43.5	1320	123.	2.8	<.5	<1
61318	1350	5.8	42.5	1870	144.	3.1	<.5	<1
61319	823	36.5	38.4	1220	101.	2.2	<.5	<1
61320	575	16.5	33.8	889	128.	2.3	.9	<1
61321	978	21.9	39.9	1240	150.	2.6	<.5	<1
61322	814	16.8	31.5	922	83.8	2.1	<.5	<1
61323	773	17.4	34.0	656	101.	2.2	<.5	<1
61324	864	10.9	35.4	1100	100.	2.4	<.5	<1
61325	683	15.4	33.2	700	99.1	2.3	<.5	<1
61326	792	11.8	28.9	941	226.	2.6	<.5	<1
61327	906	13.0	33.7	997	84.7	1.9	.6	<1
61328	810	10.5	42.1	735	85.4	2.3	.5	<1
61329	862	16.5	42.4	512	92.1	2.3	<.5	<1
61330	828	19.6	44.2	442	102.	2.3	<.5	<1
61331	642	42.6	37.2	82	121.	1.9	<.5	<1
61332	434	33.3	26.7	22	248.	1.6	.6	<1
61333	421	20.1	21.0	12	1110.	1.3	<.5	<1
61334	265	20.3	14.1	4	241.	1.4	1.1	<1
61335	393	29.6	25.0	13	314.	1.5	<.5	<1
61336	320	12.6	21.5	6	169.	1.3	<.5	<1
61337	354	39.1	22.3	17	197.	1.0	.9	<1
61338	355	50.4	32.7	32	112.	.9	1.0	<1
61339	520	33.3	41.5	72	132.	1.7	1.0	<1
61340	689	29.0	36.3	253	122.	1.9	<.5	<1
61341	703	21.6	42.0	648	139.	2.3	1.2	<1
61342	910	8.3	37.7	1170	93.7	2.0	<.5	<1
61343	857	10.6	35.8	1160	99.7	2.3	<.5	<1
61344	915	12.1	51.4	1270	155.	3.0	.9	<1
61345	873	9.4	43.0	1080	173.	2.6	.8	<1
61346	702	28.9	39.3	197	114.	2.0	<.5	<1
61347	612	39.2	39.0	70	140.	1.5	.9	<1
61348	970	46.7	46.4	548	187.	1.5	.6	<1
61349	745	15.7	56.7	1070	525.	5.9	.6	<1
61350	29	320.	43.6	157	142.	1.4	7.4	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61351	846	23.7	47.6	1210	221.	2.5	.8	<1
61352	896	10.7	27.3	1210	129.	2.4	<.5	<1
61353	881	12.8	36.5	1120	96.6	2.2	<.5	<1
61354	783	11.1	34.1	745	218.	2.5	<.5	<1
61355	628	67.1	48.3	381	178.	2.9	4.1	<1
61356	651	15.2	33.6	516	368.	3.1	<.5	<1
61357	746	10.7	38.4	602	364.	3.3	<.5	<1
61358	790	14.9	46.1	661	245.	2.4	<.5	<1
61359	820	8.5	42.5	629	136.	2.0	.7	<1
61360	695	36.0	40.0	60	102.	1.8	.9	<1
61361	666	25.8	43.1	326	178.	2.4	.6	<1
61362	455	21.6	27.6	37	824.	3.9	.7	<1
61363	707	68.7	30.7	26	602.	3.4	1.6	<1
61364	745	37.4	30.0	54	306.	2.1	.7	<1
61365	675	36.6	38.2	14	213.	1.8	.7	<1
61366	612	53.8	50.8	36	270.	2.6	<.5	<1
61367	161	53.7	71.9	30	201.	6.0	16.5	<1
61368	534	37.4	61.6	290	432.	4.1	2.8	<1
61369	449	31.1	56.3	300	505.	5.6	<.5	<1
61370	684	45.5	49.1	493	474.	3.5	1.4	<1
61371	76	53.2	61.2	45	126.	2.2	14.5	<1
61372	70	50.5	59.8	63	161.	3.7	15.9	<1
61373	68	47.1	72.6	49	181.	2.4	12.6	2
61374	69	63.3	66.0	56	149.	2.9	13.1	<1
61375	78	54.0	87.3	66	146.	2.5	15.8	<1
61376	93	53.8	80.8	78	148.	2.2	16.9	<1
61377	122	49.7	75.1	95	191.	2.9	18.4	1
61378	71	93.7	147.	62	50.3	3.4	3.5	<1
61379	75	105.	157.	87	49.7	3.2	3.5	<1
61380	77	114.	314.	133	68.2	3.6	3.0	<1
61381	79	96.4	154.	185	65.1	3.6	2.9	<1
61382	63	95.5	121.	806	71.5	3.7	2.7	<1
61383	81	74.7	115.	473	73.3	3.4	3.6	<1
61384	295	37.5	109.	1020	115.	4.9	4.2	<1
61385	816	44.5	97.5	1830	165.	4.1	1.7	<1
61386	1350	81.0	82.6	2530	139.	2.0	1.1	<1
61387	1140	75.4	67.5	8280	175.	3.1	.9	<1
61388	979	45.7	87.0	1860	146.	1.7	.9	<1
61389	1200	75.7	78.0	2780	218.	2.4	<.5	<1
61390	1170	99.5	50.0	5270	226.	3.6	<.5	<1
61391	994	192.	77.4	2780	173.	3.5	1.8	<1
WR-13	--	--	--	--	--	--	--	--
WR-14	--	--	--	--	--	--	--	--
WR-15	--	--	--	--	--	--	--	--
WR-16	--	--	--	--	--	--	--	--
WR-17	--	--	--	--	--	--	--	--
WR-18	--	--	--	--	--	--	--	--
WR-19	--	--	--	--	--	--	--	--
WR-20	--	--	--	--	--	--	--	--
WR-21	--	--	--	--	--	--	--	--

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
WR-22	--	--	--	--	--	--	--	--
WR-23	--	--	--	--	--	--	--	--

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61201	<.1	<1	<10	<5	4	<10	<2	4
61202	<.1	<1	<10	<5	5	<10	<2	<3
61203	<.1	<1	<10	<5	14	<10	<2	<3
61204	<.1	<1	<10	<5	33	<10	<2	<3
61205	<.1	<1	<10	<5	12	<10	<2	<3
61206	<.1	<1	<10	<5	9	<10	<2	<3
61207	<.1	<1	<10	<5	19	<10	<2	<3
61208	<.1	<1	13	<5	25	<10	18	<3
61209	<.1	<1	<10	<5	18	<10	<2	<3
61210	.4	1	<10	<5	18	<10	<2	3
61211	.2	<1	<10	17	19	<10	<2	<3
61212	.3	<1	<10	16	46	<10	<2	<3
61213	.1	<1	<10	19	7	<10	<2	<3
61214	.1	<1	<10	17	9	<10	<2	<3
61215	.1	<1	<10	19	5	<10	<2	<3
61216	<.1	<1	<10	19	5	<10	<2	4
61217	<.1	<1	<10	16	5	<10	<2	<3
61218	<.1	<1	<10	22	8	<10	<2	<3
61219	<.1	<1	<10	16	6	<10	<2	<3
61220	<.1	<1	<10	19	5	<10	<2	<3
61221	<.1	<1	<10	16	5	<10	<2	<3
61222	<.1	<1	<10	16	4	<10	<2	<3
61223	.2	<1	<10	18	20	<10	<2	<3
61224	.2	<1	<10	8	58	<10	<2	<3
61225	.3	<1	<10	27	59	<10	2	<3
61226	<.1	<1	<10	18	46	<10	5	<3
61227	.7	<1	<10	14	60	<10	5	5
61228	<.1	1	<10	<5	57	<10	3	<3
61229	.4	1	<10	<5	81	<10	<2	<3
61230	.2	<1	<10	<5	60	<10	<2	<3
61231	<.1	<1	<10	<5	60	<10	<2	<3
61232	.1	<1	<10	<5	80	<10	3	<3
61233	.3	<1	<10	<5	82	<10	13	<3
61234	.6	1	<10	<5	72	<10	6	<3
61235	.4	1	<10	<5	60	<10	5	<3
61236	.3	<1	<10	<5	64	<10	6	<3
61237	.6	<1	<10	<5	57	<10	2	<3
61238	.3	<1	<10	<5	55	<10	2	<3
61239	<.1	<1	<10	<5	34	<10	4	<3
61240	<.1	<1	<10	14	49	<10	8	<3
61241	<.1	<1	<10	<5	47	<10	<2	<3
61242	<.1	<1	<10	5	51	<10	5	<3
61243	<.1	<1	<10	5	43	<10	6	<3
61244	.6	1	<10	<5	54	<10	2	<3
61245	.3	<1	<10	<5	54	<10	5	<3
61246	.3	<1	<10	<5	57	<10	<2	<3
61247	<.1	1	<10	<5	63	<10	3	<3
61248	<.1	<1	<10	<5	37	<10	<2	<3
61249	<.1	<1	<10	<5	38	<10	17	4
61250	<.1	<1	<10	<5	40	<10	<2	<3

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61251	<.1	<1	<10	<5	43	<10	<2	<3
61252	.1	<1	<10	<5	49	<10	10	<3
61253	.2	<1	<10	<5	63	<10	<2	<3
61254	.2	<1	<10	<5	46	<10	6	<3
61255	<.1	1	<10	<5	21	<10	4	3
61256	<.1	<1	<10	<5	46	<10	<2	<3
61257	.1	<1	<10	<5	24	<10	<2	<3
61258	.2	<1	<10	<5	26	<10	2	<3
61259	<.1	1	<10	<5	36	<10	2	<3
61260	.3	1	<10	<5	43	<10	9	<3
61261	.4	<1	<10	6	74	<10	5	<3
61262	.7	<1	<10	5	72	<10	38	<3
61263	<.1	<1	<10	8	30	<10	2	<3
61264	.2	<1	<10	7	11	<10	2	<3
61265	.3	<1	<10	9	62	<10	3	<3
61266	<.1	<1	<10	6	10	<10	<2	<3
61267	<.1	<1	<10	14	4	<10	<2	<3
61268	.4	1	<10	<5	17	<10	4	<3
61269	.3	2	<10	<5	38	<10	3	<3
61270	.3	1	<10	<5	38	<10	<2	<3
61271	.5	1	<10	<5	59	<10	12	<3
61272	.3	1	<10	<5	50	<10	<2	<3
61273	.8	1	<10	<5	34	<10	6	<3
61274	.3	1	<10	<5	54	<10	3	<3
61275	.3	1	<10	<5	55	<10	<2	<3
61276	<.1	<1	<10	<5	33	<10	<2	<3
61277	.1	1	<10	<5	63	<10	2	<3
61278	.2	1	<10	<5	49	<10	4	<3
61279	.4	1	<10	<5	51	<10	3	<3
61280	.1	3	<10	8	19	<10	14	<3
61281	.2	<1	<10	18	8	<10	2	<3
61282	.2	<1	<10	11	41	<10	3	<3
61283	.3	1	<10	<5	67	<10	4	<3
61284	<.1	<1	<10	7	16	<10	<2	<3
61285	<.1	<1	<10	5	8	<10	<2	<3
61286	.1	<1	<10	12	4	<10	<2	<3
61287	.2	<1	<10	12	3	<10	<2	<3
61288	<.1	<1	<10	14	6	<10	<2	<3
61289	.5	<1	<10	22	7	<10	<2	<3
61290	.2	<1	<10	17	23	<10	<2	<3
61291	<.1	<1	<10	<5	45	<10	<2	<3
61292	.2	<1	<10	16	5	<10	<2	<3
61293	.3	1	<10	25	6	<10	<2	<3
61294	<.1	<1	<10	16	4	<10	<2	<3
61295	.2	<1	<10	15	6	147	9	<3
61296	<.1	<1	<10	17	4	<10	<2	<3
61297	<.1	<1	<10	18	5	<10	5	<3
61298	.2	<1	<10	12	10	<10	<2	<3
61299	<.1	<1	<10	14	11	<10	2	<3
61300	1.0	<1	<10	8	12	<10	<2	<3

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61301	.1	<1	<10	17	13	<10	3	<3
61302	.5	<1	<10	23	14	<10	2	<3
61303	.2	<1	<10	21	19	158	<2	<3
61304	.6	<1	<10	26	40	<10	3	<3
61305	.3	<1	<10	14	17	<10	<2	<3
61306	.2	<1	<10	13	13	<10	<2	<3
61307	<.1	<1	<10	14	9	<10	<2	<3
61308	.3	<1	<10	17	7	<10	<2	<3
61309	.1	<1	<10	7	16	<10	3	<3
61310	.9	<1	<10	11	28	<10	<2	<3
61311	.7	<1	<10	<5	13	<10	2	<3
61312	.2	<1	<10	14	8	<10	<2	<3
61313	.3	<1	<10	10	20	<10	4	<3
61314	<.1	<1	<10	8	21	<10	8	<3
61315	<.1	<1	<10	<5	14	<10	<2	<3
61316	.1	<1	<10	<5	13	<10	2	3
61317	<.1	<1	<10	8	17	<10	2	5
61318	.1	<1	<10	5	17	<10	5	6
61319	<.1	<1	<10	6	21	<10	3	<3
61320	<.1	<1	<10	7	22	<10	4	6
61321	<.1	<1	<10	10	13	<10	3	7
61322	<.1	<1	<10	7	25	<10	<2	5
61323	<.1	<1	<10	8	12	<10	<2	6
61324	.1	<1	<10	7	14	<10	3	3
61325	.1	<1	<10	6	10	<10	2	5
61326	<.1	<1	<10	5	10	<10	<2	4
61327	<.1	<1	<10	5	8	<10	2	5
61328	<.1	<1	<10	8	7	<10	<2	8
61329	.1	<1	<10	9	11	<10	2	5
61330	<.1	<1	<10	11	17	<10	3	7
61331	.2	<1	<10	13	46	<10	2	7
61332	.2	<1	<10	9	94	<10	7	6
61333	<.1	<1	<10	9	209	<10	<2	<3
61334	<.1	<1	<10	7	67	<10	<2	<3
61335	.1	<1	<10	11	176	<10	3	6
61336	<.1	<1	<10	8	36	<10	<2	6
61337	<.1	<1	<10	8	104	<10	3	5
61338	<.1	<1	<10	10	92	<10	2	5
61339	.3	<1	<10	8	61	<10	3	3
61340	.3	<1	<10	11	13	<10	<2	<3
61341	<.1	<1	<10	11	6	<10	3	3
61342	<.1	<1	<10	6	15	<10	3	7
61343	<.1	<1	<10	6	26	<10	3	6
61344	.2	<1	<10	7	18	<10	3	6
61345	.1	<1	<10	6	15	<10	3	5
61346	<.1	<1	<10	11	11	<10	<2	4
61347	.2	<1	<10	9	12	<10	3	6
61348	.1	<1	<10	14	33	<10	2	4
61349	.2	<1	<10	8	14	<10	4	4
61350	1.7	<1	<10	87	5	<10	12	<3

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61351	<.1	<1	<10	11	27	<10	3	6
61352	.2	<1	<10	7	25	<10	5	4
61353	<.1	<1	<10	9	27	<10	<2	5
61354	<.1	<1	<10	11	9	<10	2	4
61355	<.1	<1	<10	12	7	<10	<2	4
61356	.2	<1	<10	8	7	<10	<2	5
61357	<.1	<1	<10	9	5	<10	<2	5
61358	.2	<1	<10	13	4	<10	3	6
61359	<.1	<1	<10	11	3	<10	<2	7
61360	.4	<1	<10	14	8	<10	<2	7
61361	.2	<1	<10	12	3	<10	3	<3
61362	.2	<1	<10	8	13	<10	<2	4
61363	.1	<1	<10	7	19	<10	2	<3
61364	<.1	<1	<10	11	58	<10	<2	6
61365	.2	<1	<10	13	84	<10	<2	5
61366	.2	<1	<10	13	13	<10	<2	6
61367	<.1	<1	<10	<5	10	<10	6	7
61368	.3	<1	<10	13	16	<10	<2	4
61369	<.1	<1	<10	15	23	<10	<2	<3
61370	<.1	<1	<10	20	79	<10	4	3
61371	<.1	<1	<10	<5	54	<10	3	3
61372	.2	<1	<10	<5	46	<10	4	5
61373	<.1	<1	<10	<5	60	<10	3	<3
61374	<.1	<1	<10	13	59	<10	<2	7
61375	<.1	<1	<10	16	49	<10	3	<3
61376	<.1	<1	<10	8	49	<10	4	6
61377	<.1	<1	<10	<5	48	<10	4	3
61378	<.1	<1	<10	<5	36	<10	<2	<3
61379	.6	<1	<10	<5	41	<10	4	7
61380	.2	<1	<10	<5	21	<10	10	<3
61381	<.1	<1	<10	<5	34	<10	2	<3
61382	.2	<1	<10	<5	28	<10	<2	<3
61383	.1	<1	<10	<5	33	<10	2	3
61384	<.1	<1	<10	9	42	<10	<2	6
61385	.3	<1	<10	26	18	<10	<2	5
61386	.4	<1	<10	34	20	<10	<2	4
61387	.6	<1	<10	24	38	<10	4	<3
61388	.2	<1	<10	33	10	<10	<2	6
61389	.3	<1	<10	20	16	<10	3	3
61390	.9	<1	<10	15	26	<10	4	3
61391	.5	<1	<10	9	42	<10	5	<3
WR-13	--	--	--	--	--	--	--	--
WR-14	--	--	--	--	--	--	--	--
WR-15	--	--	--	--	--	--	--	--
WR-16	--	--	--	--	--	--	--	--
WR-17	--	--	--	--	--	--	--	--
WR-18	--	--	--	--	--	--	--	--
WR-19	--	--	--	--	--	--	--	--
WR-20	--	--	--	--	--	--	--	--
WR-21	--	--	--	--	--	--	--	--

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
WR-22	--	--	--	--	--	--	--	--
WR-23	--	--	--	--	--	--	--	--

SAMPLE \ %	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3	MNO	TIO2	P2O5	CR2O3	LOI	SUM
WR-13	41.3	10.7	8.54	5.33	1.84	.51	16.2	.49	1.51	.13	<.01	13.6	100.2
WR-14	32.6	9.50	10.0	5.83	<.01	<.01	23.5	.94	1.34	.10	<.01	15.4	99.2
WR-15	31.7	5.88	20.9	7.79	.07	<.01	10.7	.43	.362	.04	.30	22.3	100.5
WR-16	9.82	6.06	7.12	25.7	.24	1.45	10.3	.18	.411	.01	.36	37.5	99.2
WR-17	41.8	11.6	2.55	6.21	4.14	1.09	14.3	.20	1.54	.11	.03	14.7	98.3
WR-18	34.0	4.61	3.52	22.7	.10	<.01	9.22	.14	.317	.02	.32	25.6	100.6
WR-19	31.4	4.11	5.96	21.7	.32	.13	8.37	.15	.239	.02	.27	27.8	100.5
WR-20	41.4	10.2	10.4	3.57	3.63	.64	11.0	.45	1.45	.13	<.01	15.3	98.2
WR-21	47.4	12.0	5.86	5.21	1.91	.18	16.4	.25	1.73	.14	<.01	9.35	100.5
WR-22	41.9	11.2	8.63	5.03	2.06	.80	14.4	.41	1.69	.13	<.01	14.2	100.5
WR-23	44.8	6.28	8.97	11.7	<.01	<.01	9.77	.28	.350	.03	.37	16.4	99.0

XRF W.R.A. SUMS INCLUDE ALL ELEMENTS DETERMINED. FOR SUMMATION, ELEMENTS ARE CALCULATED AS OXIDES

SAMPLE \ PPM	RB	SR	Y	ZR	NB	BA
WR-13	22	36	21	94	29	96
WR-14	25	87	24	84	50	20
WR-15	11	69	<10	18	12	<10
WR-16	32	121	13	16	26	174
WR-17	48	83	11	95	36	381
WR-18	30	41	<10	18	25	79
WR-19	14	109	<10	18	22	51
WR-20	56	90	26	66	33	90
WR-21	<10	19	18	99	33	22
WR-22	45	36	24	85	34	141
WR-23	18	26	<10	17	30	<10

XRAL

X-RAY ASSAY LABORATORIES

A DIVISION OF SGS SUPERVISION SERVICES INC.
1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA
TEL: (416)445-5755 TELEX: 06-986947 FAX: (416)445-4152

CERTIFICATE OF ANALYSIS

REPORT 19321

TO: CYPRUS CANADA
ATTN: D. STEVENSON
66 BRUCE AVE., P.O. BOX 1120
SOUTH PORCUPINE, ONTARIO
PON 1HO

CUSTOMER No. 2294

DATE SUBMITTED
9-Jun-92

REF. FILE 12408-C4

Total Pages 8

91 ROCKS Proj. KERR

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.
LI PPM	ICP	1.
BE PPM	ICP	.5
NA %	ICP	.01
MG %	ICP	.01
AL %	ICP	.01
P %	ICP	.01
K %	ICP	.01
CA %	ICP	.01
SC PPM	ICP	.5
TI %	ICP	.01
V PPM	ICP	2.
CR PPM	ICP	1.
MN %	ICP	.01
FE %	ICP	.01
CO PPM	ICP	1.

	METHOD	DETECTION LIMIT
NI PPM	ICP	1.
CU PPM	ICP	.5
ZN PPM	ICP	.5
AS PPM	ICP	3.
SR PPM	ICP	.5
Y PPM	ICP	.1
ZR PPM	ICP	.5
MO PPM	ICP	1.
AG PPM	ICP	.1
CD PPM	ICP	1.
SN PPM	ICP	10.
SB PPM	ICP	5.
BA PPM	ICP	1.
W PPM	ICP	10.
PB PPM	ICP	2.
BI PPM	ICP	3.

DATE 17-JUN-92

CERTIFIED BY ....
Jean H.L. Opdebeeck, General Manager

SAMPLE	AU PPB	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61392	14	34	1.2	.13	2.57	2.15	.02	.11
61393	45	36	1.5	.03	3.39	2.66	<.01	.10
61394	4	43	1.5	.02	4.00	2.97	<.01	.07
61395	13	44	1.1	.02	5.10	2.10	<.01	.14
61396	330	43	1.0	.02	8.98	1.78	<.01	.01
61397	17	43	.9	.02	7.61	1.66	<.01	.04
61398	14	18	.9	.02	6.12	.71	<.01	.11
61399	210	20	.9	.03	6.17	.79	<.01	.12
61400	4	24	1.2	.04	4.03	1.55	.01	.10
61401	5	21	.8	.09	2.24	1.12	<.01	.10
61402	10	43	1.5	.04	3.50	2.08	.02	.10
61403	11	20	1.0	.08	1.50	1.52	.02	.17
61404	10	25	1.1	.02	4.13	1.59	<.01	.11
61405	1	32	1.4	.03	3.46	2.34	<.01	.14
61406	4	29	1.1	.03	4.64	1.56	<.01	.13
61407	3	18	.7	.03	6.04	.72	<.01	.05
61408	3	25	.8	.03	5.77	1.00	<.01	.09
61409	3	31	.9	.03	6.30	1.22	.01	.05
61410	3	10	.8	.03	5.23	.46	.18	.10
61411	4	18	.8	.02	6.09	.73	<.01	.09
61412	2	32	.8	.02	7.29	1.21	.01	.04
61413	2	47	.8	.02	7.85	1.72	<.01	.01
61414	3	36	.9	.02	7.39	2.00	<.01	.04
61415	4	25	1.7	.02	3.21	1.93	<.01	.05
61416	4	60	1.2	.03	4.36	2.40	<.01	.05
61417	2	92	1.3	.03	5.42	3.35	<.01	.06
61418	3	91	1.4	.04	5.08	3.55	<.01	.06
61419	13	34	1.0	.04	5.71	1.98	<.01	.01
61420	5	26	.6	.03	4.64	1.27	<.01	.03
61421	49	33	1.3	.03	5.18	2.10	<.01	.06
61422	410	18	1.4	.03	4.60	1.88	<.01	.01
61423	31	20	.7	.02	6.98	1.06	<.01	.06
61424	17	56	1.1	.03	4.73	2.85	.01	.06
61425	100	16	.8	.02	4.05	.79	<.01	.09
61426	54	40	1.3	.03	4.03	2.20	<.01	.05
61427	17	24	.8	.02	5.15	1.15	.01	.09
61428	900	27	1.1	.03	4.10	1.37	<.01	.09
61429	15	67	1.0	.03	4.81	2.88	<.01	.08
61430	1800	13	2.0	.04	3.31	1.06	<.01	.13
61431	200	38	1.2	.05	3.80	2.08	.01	.09
61432	170	10	1.3	.03	4.71	.61	<.01	.13
61433	110	23	.8	.03	7.71	1.65	<.01	<.01
61434	1100	8	1.2	.04	3.13	.49	<.01	.10
61435	530	13	.8	.04	4.33	.67	<.01	.09
61436	7500	14	1.0	.03	3.82	.71	.01	.08
61437	7500	4	1.5	.05	2.26	.23	<.01	.08
61438	53	10	.8	.03	6.30	.40	<.01	.11
61439	140	55	1.0	.05	8.07	1.74	<.01	.02
61440	120	29	1.0	.05	4.01	1.38	<.01	.02
61441	2	64	1.9	.07	2.61	3.65	.10	<.01

SAMPLE	AU PPB	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61442	1	67	1.9	.06	3.11	4.04	.12	<.01
61443	3	64	2.0	.06	3.08	3.76	.10	<.01
61444	4	66	1.6	.06	3.03	3.15	.06	<.01
61445	11	4	1.2	.10	3.52	.37	.07	.04
61446	8	31	1.5	.08	3.35	1.51	.08	.03
61447	9	42	1.5	.08	2.50	2.39	.05	.08
61448	42	28	1.5	.07	2.35	1.71	.08	.09
61449	39	22	1.5	.09	1.99	1.37	.09	.12
61450	7	39	1.5	.08	2.68	2.23	.10	.05
61451	7	33	1.3	.08	2.90	1.84	.08	.07
61452	9	41	1.3	.07	3.23	2.22	.09	.05
61453	26	43	1.4	.05	2.13	2.30	.06	.02
61454	2	66	1.5	.07	3.24	3.43	.11	.05
61455	9	53	1.5	.06	3.11	2.85	.10	.05
61456	8	43	1.4	.07	2.82	2.39	.10	.05
61457	11	40	1.3	.08	2.77	2.23	.10	.04
61458	8	46	1.4	.06	3.00	2.47	.09	.04
61459	3	48	1.5	.06	3.77	2.96	.09	<.01
61460	6	37	1.5	.06	3.74	2.91	.09	<.01
61461	11	37	1.6	.06	3.84	3.09	.09	<.01
61462	14	35	1.7	.05	3.80	3.66	.10	<.01
61463	7	42	1.7	.05	3.80	4.49	.10	<.01
61464	5	33	1.4	.04	3.25	3.84	.09	<.01
61465	7	30	1.5	.07	2.82	3.23	.09	<.01
61466	9	32	1.5	.06	3.72	3.68	.09	<.01
61467	7	29	1.3	.06	3.33	3.38	.09	<.01
61468	9	29	1.3	.05	3.37	3.41	.09	<.01
61469	13	25	1.2	.06	2.90	3.09	.09	<.01
61470	7	23	1.1	.06	2.61	2.85	.09	<.01
61471	6	28	1.4	.05	3.18	3.38	.10	<.01
61472	6	30	1.4	.05	3.38	3.58	.09	<.01
61473	2	29	1.3	.05	3.17	3.49	.10	<.01
61474	<1	22	1.0	.05	2.41	2.71	.08	<.01
61475	1	25	1.3	.08	2.60	3.00	.10	<.01
61476	1	25	1.2	.07	2.71	3.00	.09	<.01
61477	1	25	1.2	.09	2.75	2.99	.09	<.01
61478	3	45	2.0	.04	3.96	5.19	.08	<.01
61479	41	34	1.6	.03	3.46	2.38	.06	.10
61480	53	24	1.6	.04	2.81	1.43	.07	.13
61481	65	26	1.4	.04	2.47	1.50	.09	.12
61482	4	9	.8	.03	1.52	.63	.04	.07

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SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61392	3.51	4.8	.01	43	618	.19	6.48	45
61393	5.29	13.0	<.01	106	1870	.31	8.63	98
61394	6.58	13.9	.01	121	2010	.37	8.87	94
61395	7.54	11.6	<.01	72	1450	.25	6.31	72
61396	6.88	14.1	<.01	84	1350	.11	5.42	63
61397	9.80	14.8	<.01	74	1000	.14	5.10	61
61398	8.50	9.8	<.01	33	567	.14	5.03	55
61399	9.66	10.6	<.01	39	683	.15	5.16	70
61400	6.46	11.6	<.01	76	814	.21	6.71	63
61401	3.30	8.1	<.01	50	277	.11	4.02	36
61402	4.63	6.8	<.01	55	390	.19	7.88	64
61403	3.28	2.9	<.01	26	331	.22	5.43	22
61404	9.60	8.4	<.01	61	1340	.33	7.06	99
61405	7.09	11.2	<.01	88	1660	.34	8.40	91
61406	6.48	12.0	<.01	65	973	.22	6.30	86
61407	6.43	8.4	<.01	34	739	.10	3.93	45
61408	7.80	10.3	<.01	45	762	.13	4.61	59
61409	10.3	11.8	<.01	56	818	.16	4.77	50
61410	11.1	9.9	<.01	24	397	.19	4.86	59
61411	7.68	9.1	<.01	33	658	.12	4.52	52
61412	10.2	11.2	<.01	54	1110	.16	4.73	55
61413	11.2	13.8	<.01	80	1480	.15	5.02	62
61414	8.96	15.7	<.01	91	1250	.16	5.38	64
61415	8.51	11.9	<.01	86	1610	.53	10.6	80
61416	6.03	14.1	<.01	101	1960	.28	6.97	71
61417	5.79	18.7	<.01	143	2440	.22	7.55	90
61418	4.93	20.7	<.01	161	3030	.21	7.93	100
61419	10.6	18.5	<.01	116	1670	.30	5.95	65
61420	16.4	8.5	<.01	54	1200	.22	4.09	52
61421	8.44	15.8	<.01	98	2100	.34	7.54	91
61422	9.10	14.3	<.01	91	1720	.35	8.48	57
61423	10.8	9.0	<.01	46	1260	.18	4.49	65
61424	5.39	16.1	<.01	119	2740	.30	7.10	120
61425	9.82	7.0	<.01	32	1040	.37	5.26	75
61426	7.39	15.3	<.01	104	1780	.34	7.60	73
61427	8.84	10.0	<.01	47	960	.26	5.17	65
61428	7.95	10.6	<.01	56	1330	.39	7.28	92
61429	5.08	17.1	<.01	122	2710	.26	6.40	124
61430	7.07	10.9	<.01	59	955	.50	11.7	83
61431	6.25	15.9	<.01	106	1320	.30	7.35	107
61432	7.54	7.8	<.01	31	481	.47	7.61	100
61433	10.3	12.0	<.01	74	1400	.14	4.91	53
61434	17.4	7.1	<.01	27	423	.51	7.41	58
61435	16.7	7.5	<.01	35	717	.31	4.98	61
61436	12.4	7.6	<.01	37	642	.32	5.98	53
61437	6.90	5.5	<.01	18	351	.60	9.56	52
61438	13.9	8.0	<.01	19	410	.19	4.64	68
61439	9.51	13.1	<.01	79	1290	.19	5.56	63
61440	10.2	22.4	<.01	140	526	.20	6.16	48
61441	5.56	26.4	.06	393	65	.18	9.84	47

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61442	4.39	28.0	.03	410	53	.17	9.78	48
61443	5.23	31.2	.02	371	52	.18	10.2	47
61444	5.65	25.8	.01	347	68	.18	9.15	44
61445	4.11	22.2	<.01	40	88	.16	7.46	35
61446	4.89	25.6	<.01	131	82	.18	8.79	40
61447	5.69	21.8	.02	250	49	.19	9.00	42
61448	6.71	12.3	<.01	102	73	.17	8.46	53
61449	5.75	11.6	<.01	87	88	.13	8.51	71
61450	6.75	17.2	<.01	143	88	.16	8.51	39
61451	7.50	14.9	.01	108	92	.17	7.80	31
61452	7.24	18.0	<.01	137	110	.17	8.04	36
61453	3.67	13.0	<.01	109	144	.14	8.46	54
61454	5.57	24.1	.02	199	123	.17	9.27	39
61455	6.54	20.0	.01	168	107	.23	9.01	39
61456	6.48	20.7	.02	150	102	.21	8.63	41
61457	5.93	24.6	.01	159	91	.19	7.70	40
61458	5.44	24.9	<.01	180	125	.14	7.82	39
61459	5.99	30.0	.01	269	167	.18	8.83	44
61460	5.48	34.0	.01	288	168	.16	8.62	46
61461	5.17	34.5	.01	296	171	.16	8.82	44
61462	4.43	37.2	.02	314	168	.17	9.13	42
61463	5.96	37.0	.03	318	167	.15	9.53	45
61464	7.43	33.7	.02	299	156	.12	8.25	39
61465	8.06	32.4	.41	276	160	.17	8.04	39
61466	4.10	22.6	.46	250	183	.16	8.17	44
61467	4.98	17.8	.39	223	172	.14	7.39	39
61468	2.42	9.9	.36	199	179	.13	7.30	42
61469	2.31	5.7	.37	186	183	.11	6.95	41
61470	1.68	3.3	.33	143	166	.10	6.10	34
61471	2.22	8.0	.33	188	178	.11	7.36	37
61472	3.24	15.8	.36	225	173	.11	7.72	41
61473	2.65	7.4	.35	185	171	.12	7.16	39
61474	2.89	3.1	.34	139	152	.10	5.69	35
61475	3.83	6.0	.38	204	174	.15	7.03	40
61476	3.61	4.7	.43	181	161	.14	7.00	38
61477	5.12	13.6	.41	241	175	.17	6.79	43
61478	5.26	39.0	.46	337	179	.19	10.6	40
61479	7.49	17.9	.01	137	126	.23	8.96	30
61480	4.96	14.1	<.01	82	84	.18	9.23	35
61481	5.58	13.9	<.01	101	79	.16	7.86	36
61482	3.56	10.0	<.01	41	206	.10	4.69	19

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
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SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61392	338	57.9	90.3	252	50.0	2.7	6.9	<1
61393	539	67.8	97.9	247	68.6	4.1	2.2	<1
61394	554	72.3	105.	98	63.0	5.2	2.7	<1
61395	518	54.8	75.8	906	102.	6.2	1.9	<1
61396	874	40.5	49.1	1640	184.	2.7	.6	<1
61397	684	49.0	52.7	1220	244.	3.8	.6	<1
61398	583	51.8	54.0	1260	208.	3.0	.7	<1
61399	835	55.0	45.1	1640	217.	3.9	.8	<1
61400	556	105.	55.5	4850	161.	3.9	1.5	<1
61401	166	48.7	53.3	1450	76.5	2.0	1.5	<1
61402	376	1540.	4790.	1550	90.4	5.0	3.8	<1
61403	158	163.	272.	134	47.2	2.6	4.6	<1
61404	944	54.9	84.4	133	132.	4.2	1.1	<1
61405	528	76.4	106.	361	95.5	2.9	1.5	<1
61406	671	72.8	78.6	2080	128.	2.3	<.5	<1
61407	614	32.6	38.0	1240	168.	2.5	<.5	<1
61408	668	48.5	41.5	2200	203.	2.8	<.5	<1
61409	547	35.1	46.1	1260	255.	4.0	<.5	<1
61410	492	37.0	56.4	1180	220.	6.1	1.4	<1
61411	601	40.5	50.2	1470	204.	2.8	<.5	<1
61412	664	45.7	48.9	569	180.	3.6	.7	<1
61413	810	41.1	61.5	507	185.	3.6	1.2	<1
61414	758	50.8	54.5	229	117.	3.4	.9	<1
61415	651	66.0	71.1	326	115.	2.4	1.1	<1
61416	518	56.8	67.8	837	62.4	2.8	1.0	<1
61417	559	81.6	83.8	769	62.2	2.1	2.0	<1
61418	732	80.8	88.5	1050	51.1	2.2	2.0	<1
61419	552	86.8	53.8	25	82.1	5.8	.9	<1
61420	664	28.9	43.0	87	115.	4.4	.8	<1
61421	944	57.8	53.4	1150	102.	2.6	1.4	<1
61422	648	44.8	48.8	658	148.	4.1	1.7	<1
61423	920	44.8	41.6	275	116.	3.4	.7	<1
61424	865	88.7	67.8	1340	72.4	1.8	1.7	<1
61425	837	41.0	40.0	957	108.	3.6	<.5	<1
61426	501	64.2	74.4	514	102.	2.3	1.2	<1
61427	699	54.6	47.2	523	124.	3.4	.6	<1
61428	727	70.6	50.2	918	117.	2.8	1.2	<1
61429	871	77.3	67.7	715	77.7	1.9	1.2	<1
61430	675	98.2	54.1	288	117.	2.1	1.8	<1
61431	598	100.	63.2	434	84.7	2.0	1.5	<1
61432	1030	16.7	30.9	1080	102.	2.6	.6	<1
61433	758	23.3	37.9	174	142.	4.5	<.5	<1
61434	522	23.5	28.1	816	95.4	5.5	.9	<1
61435	665	26.6	27.3	437	96.9	4.5	.7	<1
61436	519	41.2	30.7	830	75.9	4.4	1.0	<1
61437	367	66.5	37.4	2130	133.	3.0	2.1	<1
61438	890	40.3	39.3	1780	134.	3.3	1.3	<1
61439	769	46.4	46.4	1170	64.6	4.3	.7	<1
61440	134	73.0	69.3	340	50.6	2.2	1.6	<1
61441	46	79.4	107.	4	72.3	4.5	4.8	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61442	47	89.9	120.	<3	83.2	4.3	4.7	<1
61443	41	85.4	120.	6	81.2	4.0	5.3	<1
61444	36	76.2	102.	56	50.3	3.5	3.7	<1
61445	50	80.8	71.9	152	61.1	3.1	2.9	<1
61446	51	85.0	91.8	108	56.0	2.9	2.8	<1
61447	29	78.2	88.3	57	59.8	3.2	3.5	<1
61448	73	162.	76.1	163	59.5	3.6	3.7	<1
61449	94	166.	61.4	273	57.8	3.3	3.8	<1
61450	52	77.4	81.4	86	59.0	3.0	2.9	<1
61451	38	80.2	66.3	43	67.5	3.8	3.7	<1
61452	46	77.8	79.9	45	59.8	4.8	3.8	<1
61453	95	239.	160.	161	21.7	1.6	3.0	1
61454	60	73.3	153.	63	30.2	4.5	4.6	<1
61455	57	151.	114.	92	30.5	3.3	3.4	<1
61456	55	103.	94.2	119	36.0	2.3	3.9	<1
61457	50	84.8	83.9	117	52.2	2.5	3.6	<1
61458	62	95.8	87.1	87	82.4	3.4	3.0	<1
61459	72	35.7	81.6	79	86.8	5.2	3.3	<1
61460	75	91.4	84.3	60	81.9	4.8	3.9	<1
61461	76	79.4	94.1	58	75.2	5.0	2.2	<1
61462	68	87.7	95.8	35	78.7	5.6	4.1	<1
61463	65	99.0	110.	6	123.	5.3	4.1	<1
61464	68	87.4	77.3	<3	162.	5.0	2.6	<1
61465	68	97.0	87.1	<3	101.	9.6	4.3	<1
61466	73	116.	106.	<3	37.8	10.1	5.3	<1
61467	68	96.0	95.6	<3	40.9	8.8	3.6	<1
61468	70	116.	88.1	<3	22.0	7.9	3.3	<1
61469	69	113.	76.8	<3	22.4	7.7	3.9	<1
61470	60	106.	70.5	<3	20.8	7.3	4.0	<1
61471	53	92.1	78.8	<3	20.2	8.4	3.8	<1
61472	62	96.7	75.6	<3	22.4	8.1	4.2	<1
61473	63	106.	79.9	7	22.0	6.8	4.8	<1
61474	55	118.	70.9	10	23.6	5.1	5.2	<1
61475	66	90.4	88.9	24	23.7	6.0	5.3	<1
61476	59	95.8	87.6	12	25.4	4.3	5.0	<1
61477	65	132.	87.6	24	25.2	6.4	4.8	<1
61478	61	118.	103.	31	48.5	9.1	4.7	<1
61479	41	64.9	69.9	2480	86.3	2.6	3.5	<1
61480	45	97.6	124.	3540	55.9	3.4	3.4	<1
61481	38	70.3	86.8	3760	68.3	5.2	3.2	<1
61482	23	103.	35.1	397	44.5	2.5	1.3	<1

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61392	.5	1	<10	61	36	<10	<2	<3
61393	.6	1	<10	20	32	<10	<2	<3
61394	.8	1	<10	20	24	<10	<2	<3
61395	.4	<1	<10	18	30	<10	3	<3
61396	.4	<1	<10	22	6	<10	<2	<3
61397	.4	<1	<10	17	11	<10	2	<3
61398	.4	<1	<10	9	24	<10	3	<3
61399	.6	<1	32	24	26	<10	57	<3
61400	.6	<1	<10	13	33	<10	<2	<3
61401	.1	<1	<10	<5	34	<10	<2	<3
61402	3.1	13	<10	12	31	<10	78	<3
61403	.5	1	<10	29	68	<10	6	<3
61404	.5	1	<10	159	32	<10	<2	<3
61405	.6	1	<10	18	39	<10	<2	<3
61406	.7	<1	<10	12	24	<10	<2	<3
61407	.3	<1	<10	14	10	<10	<2	<3
61408	.2	<1	<10	11	21	<10	14	<3
61409	.6	<1	<10	28	13	<10	<2	<3
61410	.6	<1	<10	15	24	<10	3	<3
61411	.6	<1	74	8	19	<10	94	<3
61412	.4	<1	<10	30	10	<10	<2	<3
61413	.5	<1	<10	25	5	<10	<2	<3
61414	.1	<1	<10	16	11	<10	<2	<3
61415	1.3	2	<10	19	36	<10	3	4
61416	.8	1	<10	24	18	<10	<2	<3
61417	1.0	1	<10	25	19	<10	<2	<3
61418	.6	1	<10	34	17	<10	<2	<3
61419	.4	<1	<10	16	8	<10	<2	<3
61420	.4	<1	<10	11	19	<10	<2	<3
61421	.8	1	<10	27	29	<10	<2	<3
61422	.9	2	<10	15	10	<10	<2	<3
61423	.5	<1	<10	18	25	<10	<2	<3
61424	.8	<1	<10	35	34	<10	3	<3
61425	.9	<1	<10	38	40	<10	<2	<3
61426	.5	<1	<10	19	33	<10	<2	<3
61427	.6	<1	<10	25	35	<10	<2	<3
61428	.9	1	<10	17	44	<10	4	<3
61429	.4	<1	<10	36	31	<10	<2	<3
61430	1.1	3	<10	6	84	<10	5	<3
61431	.4	<1	<10	14	39	<10	4	<3
61432	.8	1	<10	18	49	<10	<2	<3
61433	.5	<1	<10	15	4	<10	<2	<3
61434	1.1	1	<10	6	56	<10	<2	<3
61435	.6	<1	<10	11	40	<10	27	<3
61436	1.3	<1	<10	7	47	<10	<2	<3
61437	2.4	2	<10	9	36	<10	7	<3
61438	.8	<1	<10	12	47	<10	8	<3
61439	.6	<1	<10	17	11	<10	3	<3
61440	.5	1	<10	<5	11	<10	2	<3
61441	<.1	2	<10	<5	4	<10	<2	4

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61442	<.1	1	<10	<5	4	<10	<2	<3
61443	.1	1	<10	<5	1	<10	<2	5
61444	.3	1	<10	<5	5	<10	<2	<3
61445	.6	1	<10	37	14	<10	<2	<3
61446	.3	2	<10	15	8	<10	<2	<3
61447	.2	1	<10	<5	9	<10	<2	4
61448	.6	1	<10	<5	9	<10	7	<3
61449	.7	1	<10	11	10	<10	11	<3
61450	.1	1	<10	<5	7	<10	<2	<3
61451	.3	1	<10	7	9	<10	<2	4
61452	.6	1	<10	<5	8	<10	<2	<3
61453	.8	1	<10	8	5	<10	15	3
61454	.3	1	<10	<5	10	<10	<2	4
61455	.4	1	<10	<5	10	<10	<2	<3
61456	.4	1	<10	<5	12	<10	<2	<3
61457	.3	1	<10	<5	10	<10	<2	<3
61458	.2	1	<10	<5	10	<10	<2	3
61459	.3	1	<10	<5	3	<10	<2	<3
61460	.3	2	<10	<5	1	<10	<2	<3
61461	<.1	2	<10	<5	2	<10	<2	<3
61462	.3	1	<10	<5	2	<10	<2	<3
61463	.1	2	<10	<5	3	<10	<2	4
61464	<.1	1	<10	<5	12	<10	<2	<3
61465	.3	2	<10	<5	4	<10	<2	<3
61466	.3	2	<10	<5	3	<10	<2	<3
61467	.3	1	<10	<5	3	<10	<2	<3
61468	.2	1	<10	<5	3	<10	<2	5
61469	.5	<1	<10	<5	2	<10	<2	4
61470	.4	<1	15	<5	2	<10	19	4
61471	<.1	1	<10	<5	2	<10	<2	<3
61472	.2	1	<10	<5	2	<10	<2	<3
61473	.2	1	<10	<5	1	<10	<2	<3
61474	.4	<1	<10	<5	2	<10	<2	<3
61475	.4	1	<10	<5	3	<10	<2	3
61476	.3	1	<10	<5	3	<10	<2	4
61477	.3	1	<10	<5	3	<10	<2	<3
61478	.3	2	<10	<5	2	<10	<2	6
61479	.4	2	<10	<5	34	<10	<2	<3
61480	.6	2	<10	<5	23	<10	2	4
61481	.5	1	<10	<5	20	<10	<2	<3
61482	.3	<1	<10	<5	18	<10	<2	<3

XRAL

X-RAY ASSAY LABORATORIES
A DIVISION OF SGS SUPERVISION SERVICES INC.
1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA
TEL: (416)445-5755 TELEX: 06-986947 FAX: (416)445-4152

CERTIFICATE OF ANALYSIS

REPORT 19570

TO: CYPRUS CANADA
ATTN: D. STEVENSON
66 BRUCE AVE., P.O. BOX 1120
SOUTH PORCUPINE, ONTARIO
PON 1H0

CUSTOMER No. 2294

DATE SUBMITTED
18-Jun-92

REF. FILE 12571-H5

Total Pages 22

279 ROCKS Proj. KERR MINE

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.
AU G/MT	FA	.03
LI PPM	ICP	1.
BE PPM	ICP	.5
NA %	ICP	.01
WRMAJ %	WR	.01
MG %	ICP	.01
AL %	ICP	.01
P %	ICP	.01
K %	ICP	.01
CA %	ICP	.01
SC PPM	ICP	.5
TI %	ICP	.01
V PPM	ICP	2.
CR PPM	ICP	1.
MN %	ICP	.01
FE %	ICP	.01
CO PPM	ICP	1.

	METHOD	DETECTION LIMIT
NI PPM	ICP	1.
CU PPM	ICP	.5
ZN PPM	ICP	.5
AS PPM	ICP	3.
WRMIN PPM	WR	10.
SR PPM	ICP	.5
Y PPM	ICP	.1
ZR PPM	ICP	.5
MO PPM	ICP	1.
AG PPM	ICP	.1
CD PPM	ICP	1.
SN PPM	ICP	10.
SB PPM	ICP	5.
BA PPM	ICP	1.
W PPM	ICP	10.
PB PPM	ICP	2.
BI PPM	ICP	3.

DATE 10-JUL-92

CERTIFIED BY ....
Jean H.L. Opdebeeck, General Manager

SAMPLE	AU PPB	AU G/MT	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61483	120	--	30	1.0	.03	7.81	1.52	<.01	.01
61484	21	--	23	.8	.02	8.73	1.50	<.01	<.01
61485	160	--	38	1.2	.03	5.66	2.47	.01	<.01
61486	87	--	47	1.2	.03	5.95	2.80	.01	<.01
61487	120	--	43	1.5	.04	6.03	3.05	.02	.01
61488	11	--	25	1.0	.05	6.42	1.65	<.01	.02
61489	4	--	37	1.1	.05	4.75	2.65	.02	<.01
61490	5	--	14	.8	.02	10.4	.94	<.01	<.01
61491	6	--	14	.8	.02	9.21	.98	<.01	<.01
61492	14	--	30	.9	.02	9.17	1.66	<.01	<.01
61493	14	--	54	1.0	.03	6.82	2.69	.01	<.01
61494	3	--	70	1.1	.03	6.77	3.31	.01	<.01
61495	310	--	43	1.6	.03	5.31	2.77	<.01	.04
61496	9	--	39	1.1	.03	4.21	2.62	<.01	.01
61497	5	--	34	1.2	.04	3.95	2.41	<.01	<.01
61498	5	--	36	1.1	.03	5.67	2.28	<.01	<.01
61499	14	--	31	1.2	.04	3.96	2.10	<.01	<.01
61500	19	--	16	1.0	.04	3.23	1.05	<.01	.01
61501	6	--	30	1.1	.03	4.16	2.39	<.01	<.01
61502	84	--	30	1.3	.03	4.45	2.38	<.01	.02
61503	2	--	16	.9	.03	6.30	2.01	<.01	<.01
61504	5	--	20	.9	.02	6.99	2.21	<.01	<.01
61505	6	--	42	1.0	.04	5.27	2.56	.01	<.01
61506	950	--	36	1.2	.02	4.26	2.46	.01	.02
61507	24	--	31	1.8	.03	4.49	3.27	<.01	.03
61508	720	--	17	1.2	.03	3.21	1.51	<.01	.06
61509	300	--	12	.9	.02	4.38	.73	.04	.15
61510	560	--	33	1.4	.02	4.50	2.59	<.01	.05
61511	600	--	14	1.1	.03	3.17	1.30	<.01	.12
61512	290	--	26	1.4	.02	3.44	2.28	.01	.10
61513	13	--	13	.7	.02	5.28	1.83	<.01	<.01
61514	11	--	8	.8	.03	6.82	1.86	.01	.02
61515	14	--	9	<.5	.10	1.04	.75	.04	.03
61516	9	--	7	<.5	.11	.95	.60	.06	.02
61517	9	--	4	<.5	.08	.78	.35	.04	.02
61518	6	--	5	<.5	.10	.92	.49	.05	.03
61519	39	--	16	1.2	.03	2.28	1.55	.07	.22
61520	14	--	33	1.3	.03	2.84	2.98	.07	.04
61521	64	--	14	1.2	.04	2.02	1.46	.05	.17
61522	63	--	30	1.6	.03	2.54	2.79	.05	.16
61523	120	--	23	1.5	.03	2.45	2.82	.04	.09
61524	44	--	29	2.0	.03	2.85	3.86	.06	.09
61525	13	--	23	1.6	.04	2.52	3.32	.05	.07
61526	22	--	26	1.5	.03	2.95	2.83	.07	.15
61527	16	--	19	1.7	.03	2.32	2.54	.04	<.01
61528	9	--	26	1.4	.04	2.93	3.08	.07	.03
61529	14	--	32	1.6	.03	3.31	3.01	.10	.12
61530	15	--	20	1.1	.04	2.14	2.38	.05	.14
61531	21	--	17	1.2	.03	1.89	2.29	.05	.12
61532	46	--	27	2.0	.03	2.97	3.99	.06	.05

SAMPLE	AU PPB	AU G/MT	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61533	13	--	20	.9	.04	1.68	2.15	.05	.07
61534	7	--	19	1.0	.04	1.64	2.04	.06	.14
61535	28	--	19	.9	.04	1.64	1.92	.06	.19
61536	4	--	23	1.0	.04	1.46	2.51	.06	.04
61537	4	--	17	.7	.04	1.34	1.68	.05	.06
61538	7	--	35	1.2	.03	2.37	3.26	.05	.10
61539	9	--	38	1.3	.03	2.53	3.50	.07	.05
61540	7	--	32	1.2	.03	2.20	3.09	.04	.02
61541	3	--	35	1.2	.04	2.51	3.28	.05	.02
61542	5	--	35	1.2	.03	2.56	3.30	.05	<.01
61543	27	--	12	.7	.02	3.17	1.89	<.01	.04
61544	7	--	11	.7	.04	3.98	2.13	<.01	.10
61545	3	--	9	.7	.05	3.88	1.88	<.01	.18
61546	3	--	8	.5	.04	3.20	1.46	<.01	.10
61547	11	--	5	.6	.02	2.46	1.14	.01	.03
61548	5	--	6	<.5	.03	2.65	1.31	<.01	.08
61549	7	--	15	.8	.04	3.58	2.44	.01	.12
61550	17	--	6	<.5	.03	1.79	.97	<.01	.06
61551	6	--	13	.7	.03	3.24	2.18	<.01	.10
61552	6	--	11	.6	.04	2.64	1.74	<.01	.12
61553	7	--	11	.6	.04	3.32	1.84	.01	.14
61554	6	--	14	.6	.03	3.07	2.05	<.01	.08
61555	15	--	8	.7	.11	2.45	1.47	<.01	.36
61556	7	--	17	.8	.03	3.88	2.24	<.01	.06
61557	7	--	16	.8	.02	4.96	1.75	<.01	<.01
61558	8	--	25	.9	.02	6.74	2.13	.06	<.01
61559	7	--	17	.7	.02	5.59	1.43	<.01	<.01
61560	12	--	15	.8	.02	5.24	1.58	.01	<.01
61561	6	--	14	.8	.02	4.80	1.55	.01	<.01
61562	7	--	25	.9	.02	4.81	2.30	.03	<.01
61563	6	--	17	.8	.02	4.48	2.07	<.01	<.01
61564	6	--	23	.9	.02	5.54	2.13	.01	<.01
61565	6	--	21	1.0	.02	8.06	1.99	<.01	<.01
61566	10	--	17	.9	.02	7.01	1.77	.06	<.01
61567	13	--	20	.9	.02	5.28	1.53	.05	.02
61568	16	--	17	.8	.02	5.30	1.16	<.01	.02
61569	36	--	19	1.0	.02	6.55	1.22	.01	.05
61570	11	--	8	.7	.03	3.90	.48	<.01	.05
61571	92	--	5	.6	.03	3.94	.22	<.01	.07
61572	280	--	2	1.0	.06	1.54	.15	<.01	.02
61573	20	--	14	.8	.02	6.63	.86	<.01	.04
61574	27	--	29	.9	.02	8.16	1.98	<.01	<.01
61575	9	--	14	.7	.02	7.21	1.14	.04	<.01
61576	6	--	11	.7	.02	6.99	.78	<.01	.03
61577	500	--	12	.7	.02	6.71	1.20	<.01	<.01
61578	6	--	13	.6	.02	4.38	1.16	<.01	<.01
61579	5	--	18	.8	.02	5.77	1.95	<.01	<.01
61580	7	--	25	.8	.02	4.82	2.12	<.01	<.01
61581	5	--	30	.9	.02	4.79	1.96	<.01	<.01
61582	7	--	8	.8	.02	6.66	1.81	<.01	<.01

SAMPLE	AU PPB	AU G/MT	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61583	12	--	4	.7	.02	7.59	1.60	<.01	<.01
61584	6	--	4	.7	.02	7.20	1.55	<.01	<.01
61585	9	--	5	.8	.02	7.81	1.78	<.01	<.01
61586	20	--	12	.8	.02	7.56	1.61	<.01	<.01
61587	7	--	31	1.0	.02	7.14	2.10	<.01	.01
61588	25	--	19	1.2	.02	5.34	1.48	.01	.08
61589	28	--	13	1.1	.03	2.96	1.23	.05	.12
61590	9	--	32	1.4	.03	3.05	3.06	.05	.07
61591	7	--	38	1.6	.03	2.95	3.67	.05	.06
61592	8	--	39	1.7	.02	2.94	3.87	.05	.04
61593	8	--	15	.9	.02	2.79	1.43	.02	.09
61594	7	--	15	.9	.02	3.41	1.27	.02	.10
61595	5	--	14	.8	.03	3.75	1.11	.03	.06
61596	5	--	18	.7	.02	3.71	1.46	<.01	<.01
61597	11	--	12	.7	.02	5.54	1.03	.01	.01
61598	17	--	10	.7	.02	7.11	1.67	<.01	<.01
61599	11	--	6	.6	.02	6.21	1.46	.01	<.01
61600	6	--	8	.6	.02	4.90	.82	<.01	.02
61601	7	--	6	.8	.02	6.83	1.43	.02	<.01
61602	8	--	6	.6	.02	5.24	1.63	<.01	<.01
61603	8	--	8	.7	.02	6.55	1.60	<.01	<.01
61604	8	--	9	.8	.02	6.87	2.14	<.01	<.01
61605	10	--	13	.9	.02	7.77	2.68	<.01	<.01
61606	8	--	7	.7	.02	6.44	1.72	<.01	<.01
61607	6	--	10	1.0	.02	7.83	2.47	<.01	.02
61608	6	--	11	.8	.03	6.49	1.56	<.01	.08
61609	5	--	30	.8	.02	3.22	2.08	<.01	.03
61610	16	--	32	1.0	.02	5.79	2.15	<.01	<.01
61611	6	--	26	1.1	.03	6.10	2.54	.19	<.01
61612	6	--	16	1.0	.02	7.86	2.09	.04	<.01
61613	12	--	10	.9	.02	7.92	1.73	<.01	<.01
61614	7	--	13	.9	.02	8.24	1.67	<.01	<.01
61615	21	--	15	.8	.02	8.24	1.73	<.01	<.01
61616	67	--	30	1.3	.02	8.89	2.48	<.01	<.01
61617	240	--	27	.9	.02	7.39	1.18	.08	.02
61618	1300	--	19	.9	.03	4.96	.74	.05	.04
61619	350	--	24	.9	.03	5.13	1.06	.11	.03
61620	30	--	29	1.0	.03	6.10	1.48	.04	<.01
61621	3400	--	28	.8	.02	7.81	1.41	.02	.01
61622	200	--	18	.7	.02	8.93	.72	<.01	.02
61623	570	--	28	.8	.02	7.34	.99	.04	.03
61624	470	--	26	1.0	.02	7.45	1.08	.13	.05
61625	1100	--	2	<.5	.03	1.22	.07	<.01	<.01
61626	140	--	5	<.5	.03	2.50	.22	<.01	.03
61627	>10000	13.4	3	<.5	.03	5.10	.16	<.01	.03
61628	160	--	2	<.5	.03	2.75	.07	<.01	.02
61629	810	--	3	.7	.03	9.01	.12	<.01	.03
61630	200	--	2	.9	.03	9.24	.12	<.01	.07
61631	63	--	5	.8	.02	10.6	.23	<.01	.08
61632	10	--	31	1.4	.03	3.29	2.82	.14	.04

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	AU PPB	AU G/MT	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61633	21	--	20	1.3	.04	2.37	2.46	.05	.07
61634	9	--	22	1.3	.04	2.08	2.80	.05	.06
61635	15	--	28	1.5	.04	2.61	3.33	.05	.02
61636	15	--	21	1.4	.04	3.89	2.22	.09	.06
61637	9	--	14	1.1	.04	2.25	1.57	.05	.18
61638	1700	--	18	1.3	.05	2.25	2.00	.05	.07
61639	29	--	36	1.7	.03	3.00	3.55	.04	.02
61640	270	--	15	1.0	.04	1.73	1.57	.03	.07
61641	18	--	25	1.5	.04	2.62	2.52	.05	.09
61642	2800	--	37	1.5	.03	5.12	2.78	.02	.04
61643	340	--	38	1.2	.02	7.42	2.47	.02	<.01
61644	20	--	37	.9	.02	7.50	1.65	<.01	<.01
61645	57	--	24	.8	.02	7.46	1.03	<.01	.04
61646	110	--	25	.8	.02	7.21	.88	.04	.05
61647	680	--	12	.8	.03	6.68	.49	.14	.07
61648	470	--	16	.9	.03	5.90	.67	.05	.10
61649	1900	--	2	.7	.03	3.41	.16	.42	.07
61650	990	--	3	.8	.03	4.65	.22	.83	.10
61651	250	--	23	.8	.02	5.40	1.04	.18	.04
61652	910	--	8	.6	.03	4.22	.36	.28	.05
61653	53	--	28	1.0	.02	9.21	1.21	.05	.03
61654	1100	--	5	.9	.02	4.98	.31	.76	.07
61655	120	--	20	.9	.02	9.06	1.05	.02	.03
61656	760	--	3	.8	.03	4.04	.20	.24	.08
61657	9300	--	16	.8	.02	5.69	.82	.13	.04
61658	250	--	19	.9	.02	7.68	.99	.18	.04
61659	470	--	7	.8	.03	5.89	.43	.15	.06
61660	76	--	19	1.0	.02	6.93	1.14	.01	.05
61661	48	--	20	1.0	.02	9.61	1.03	<.01	.04
61662	240	--	25	.9	.02	7.23	1.32	<.01	.03
61663	50	--	16	.8	.02	6.92	.78	.01	.04
61664	180	--	24	.9	.02	9.08	1.14	.01	.02
61665	62	--	19	.9	.02	7.93	.91	<.01	.03
61666	>10000	17.9	2	.8	.02	3.85	.14	.27	.08
61667	5200	--	1	.9	.03	5.59	.07	.11	.06
61668	3200	--	<1	.8	.02	4.90	.06	.11	.04
61669	2200	--	1	.8	.02	6.23	.07	.16	.05
61670	140	--	5	.8	.02	6.89	.25	.01	.04
61671	510	--	3	.9	.02	7.93	.17	<.01	.07
61672	220	--	5	.9	.02	8.35	.24	<.01	.07
61673	1600	--	2	.9	.03	4.21	.11	.14	.05
61674	230	--	7	.8	.02	7.62	.31	.09	.06
61675	1500	--	2	.8	.02	8.58	.11	<.01	.06
61676	100	--	3	.9	.02	10.9	.15	<.01	.07
61677	55	--	3	.7	.02	8.09	.16	<.01	.06
61678	17	--	5	.8	.02	10.9	.20	<.01	.05
61679	100	--	2	.9	.02	11.5	.12	<.01	.06
61680	110	--	4	.9	.02	11.4	.18	<.01	.06
61681	32	--	2	.8	.02	10.4	.12	<.01	.05
61682	920	--	3	.8	.02	12.1	.13	<.01	.05

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	AU PPB	AU G/MT	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61683	410	--	9	.9	.02	11.4	.32	<.01	.05
61684	210	--	6	.8	.02	10.8	.22	<.01	.05
61685	62	--	3	.8	.03	9.99	.15	.02	.06
61686	13	--	2	.7	.03	9.51	.10	<.01	.06
61687	200	--	5	.8	.03	10.8	.19	<.01	.05
61688	22	--	1	.8	.03	10.2	.09	<.01	.05
61689	160	--	1	.6	.02	8.19	.08	<.01	.05
61690	360	--	2	.6	.02	7.60	.09	<.01	.04
61691	190	--	<1	.5	.02	4.64	.02	<.01	<.01
61692	600	--	1	.8	.02	8.06	.06	.02	.04
61693	860	--	<1	<.5	.02	2.00	.02	<.01	.02
61694	>10000	18.0	2	.6	.02	6.01	.10	.01	.06
61695	59	--	2	.8	.02	8.12	.11	<.01	.07
61696	43	--	<1	.6	.02	7.17	.06	<.01	.04
61697	93	--	2	.7	.02	7.77	.11	<.01	.06
61698	33	--	2	.6	.02	7.36	.09	<.01	.05
61699	85	--	1	.5	.02	7.21	.07	<.01	.05
61700	1300	--	1	.6	.03	6.82	.09	<.01	.05
61701	290	--	2	.7	.02	7.91	.08	<.01	.05
61702	36	--	2	.7	.02	10.6	.11	<.01	.06
61703	130	--	11	.9	.02	9.46	.42	.13	.06
61704	SMP MISS	--	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
61705	140	--	10	.7	.02	7.45	.41	<.01	.03
61706	5200	--	12	.6	.02	7.15	.49	<.01	.02
61707	71	--	9	.5	.02	6.09	.39	.01	.02
61708	14	--	11	.7	.02	8.54	.46	<.01	.03
61709	25	--	9	.6	.02	6.55	.37	<.01	.03
61710	9	--	8	.7	.02	8.18	.34	<.01	.05
61711	830	--	15	.8	.02	7.78	.63	<.01	.04
61712	48	--	20	.6	.03	9.09	.75	<.01	.02
61713	61	--	30	.8	.02	9.34	1.06	<.01	.02
61714	86	--	33	.7	.02	9.37	1.16	.01	.01
61715	40	--	25	.8	.02	10.5	.91	<.01	.02
61716	130	--	45	.8	.02	10.6	1.49	<.01	.02
61717	160	--	22	.8	.02	10.3	.81	<.01	.05
61718	8700	--	22	.9	.02	11.1	.98	<.01	.05
61719	170	--	41	.8	.03	9.54	1.74	<.01	.02

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL
> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61483	9.15	15.8	<.01	90	1120	.20	5.61	61
61484	6.36	13.4	<.01	71	1670	.12	4.78	70
61485	6.72	28.9	<.01	187	1090	.23	6.82	79
61486	6.48	31.1	<.01	207	918	.22	6.85	82
61487	7.22	24.6	<.01	163	1320	.33	8.90	75
61488	10.1	13.4	<.01	81	1700	.25	5.92	65
61489	4.68	28.2	<.01	207	2330	.19	6.47	113
61490	3.21	10.7	<.01	47	1560	.07	5.12	76
61491	3.69	10.8	<.01	50	1160	.08	4.99	70
61492	4.97	13.2	<.01	82	1490	.11	5.14	71
61493	6.88	22.2	<.01	134	874	.19	5.42	52
61494	6.07	26.8	<.01	163	1050	.19	6.42	64
61495	5.87	21.1	<.01	129	1290	.31	9.22	98
61496	4.30	24.3	<.01	165	3120	.23	6.79	115
61497	4.66	25.6	<.01	171	2420	.25	6.89	104
61498	7.27	20.5	<.01	134	1740	.22	6.37	66
61499	6.31	20.2	<.01	127	1790	.34	7.58	70
61500	7.08	13.5	<.01	83	1030	.38	6.30	54
61501	5.76	24.4	<.01	168	2030	.23	6.77	98
61502	6.09	19.8	<.01	129	2000	.29	7.49	93
61503	7.56	13.9	<.01	93	1830	.19	5.32	59
61504	7.88	16.2	<.01	104	1940	.15	5.38	66
61505	6.38	26.4	<.01	188	1620	.20	5.86	106
61506	8.60	17.7	<.01	126	1700	.40	7.69	74
61507	6.55	21.8	<.01	157	1400	.49	10.8	95
61508	6.45	12.5	<.01	86	1240	.35	8.14	83
61509	8.41	7.6	<.01	32	670	.27	5.54	96
61510	5.89	16.6	<.01	121	1910	.30	8.62	79
61511	6.89	10.0	<.01	61	956	.33	7.31	68
61512	5.44	14.1	<.01	103	1790	.34	8.61	97
61513	12.4	14.3	<.01	88	1480	.19	4.42	61
61514	7.99	13.0	.01	74	1280	.17	4.10	45
61515	1.29	1.9	<.01	23	149	.03	1.52	4
61516	1.08	2.0	<.01	19	153	.04	1.35	4
61517	1.24	1.7	<.01	13	99	.04	1.03	3
61518	1.33	1.8	<.01	20	130	.04	1.47	5
61519	3.86	6.0	<.01	85	88	.16	6.34	37
61520	2.38	20.5	<.01	262	113	.20	7.60	27
61521	3.98	7.8	<.01	100	78	.21	6.67	39
61522	3.74	11.7	<.01	178	64	.15	8.27	43
61523	3.96	12.4	<.01	153	63	.32	9.02	30
61524	4.90	20.8	.01	254	52	.40	11.1	33
61525	3.49	27.2	.01	333	57	.17	8.64	43
61526	4.28	13.0	<.01	184	91	.17	7.49	38
61527	7.79	19.8	.01	237	57	.54	10.6	48
61528	5.53	27.1	.02	314	115	.22	7.32	38
61529	5.69	15.7	<.01	240	72	.22	8.65	58
61530	4.20	12.3	<.01	190	39	.24	6.49	39
61531	6.51	11.1	<.01	171	48	.34	7.06	34
61532	5.90	21.6	.01	270	83	.50	11.8	39

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61533	2.69	15.1	<.01	229	67	.12	5.01	41
61534	3.24	10.9	<.01	164	41	.12	5.59	42
61535	3.33	8.3	<.01	137	51	.14	5.12	46
61536	3.85	22.2	<.01	236	39	.13	6.07	32
61537	3.73	13.4	<.01	125	96	.12	3.99	25
61538	4.48	17.1	<.01	312	35	.14	6.52	43
61539	5.50	25.5	.01	382	105	.17	7.17	47
61540	6.79	28.2	.03	385	34	.16	6.54	39
61541	3.95	32.7	.03	451	32	.12	6.77	49
61542	3.63	33.0	.06	421	33	.11	6.66	41
61543	18.9	12.9	<.01	86	1450	.27	4.28	62
61544	16.8	13.5	<.01	97	1550	.24	4.52	65
61545	17.3	12.2	<.01	85	1390	.21	4.11	58
61546	20.9	9.5	<.01	68	1530	.26	3.25	48
61547	19.4	11.6	<.01	67	1940	.22	3.08	41
61548	14.7	9.8	<.01	62	1460	.16	2.71	36
61549	16.8	16.3	<.01	115	1450	.24	4.65	64
61550	26.3	7.3	<.01	44	784	.39	2.25	31
61551	18.7	13.8	<.01	99	1570	.28	3.98	65
61552	20.1	11.4	<.01	79	1230	.30	3.43	50
61553	16.8	11.9	<.01	83	1430	.25	3.69	56
61554	18.6	14.3	<.01	101	1630	.25	3.66	65
61555	20.4	11.7	<.01	87	1420	.33	4.42	72
61556	7.76	14.4	<.01	99	1680	.11	3.64	50
61557	9.92	13.7	<.01	82	1410	.14	3.92	61
61558	11.8	13.0	<.01	86	1020	.18	5.07	52
61559	15.0	10.7	<.01	67	1090	.27	4.30	57
61560	16.6	11.8	<.01	73	1170	.28	4.52	57
61561	14.5	11.4	<.01	73	1270	.22	4.36	57
61562	15.2	13.7	<.01	90	1400	.22	4.47	59
61563	15.5	15.0	<.01	93	1520	.23	4.19	87
61564	13.6	16.1	<.01	101	1730	.22	4.66	96
61565	10.5	15.6	<.01	90	1460	.19	5.11	67
61566	9.45	13.8	<.01	82	1060	.17	4.69	52
61567	14.2	11.7	<.01	70	1050	.25	4.82	53
61568	15.9	9.0	<.01	55	975	.34	4.55	50
61569	11.9	10.5	<.01	52	1050	.27	5.98	77
61570	8.35	6.8	<.01	26	459	.24	4.07	43
61571	8.94	5.3	<.01	13	236	.24	3.84	41
61572	3.91	4.3	<.01	16	127	.15	6.45	32
61573	13.3	10.4	<.01	44	686	.19	4.59	53
61574	10.5	15.3	<.01	99	1510	.16	5.21	70
61575	10.7	10.6	<.01	53	1080	.13	4.14	58
61576	13.1	9.4	<.01	36	635	.22	4.29	51
61577	10.3	13.5	<.01	73	1220	.16	4.71	59
61578	17.3	12.7	<.01	76	1270	.24	4.01	55
61579	11.3	15.0	<.01	91	1440	.18	4.77	56
61580	14.6	16.3	<.01	102	1660	.19	4.75	67
61581	14.5	16.3	<.01	98	1660	.23	4.57	62
61582	7.91	14.5	<.01	86	1490	.13	4.62	69

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61583	9.78	12.5	<.01	73	1080	.17	4.48	44
61584	9.26	12.7	<.01	71	1190	.17	4.35	51
61585	9.81	14.4	<.01	82	1380	.16	4.83	70
61586	10.0	13.9	<.01	76	1310	.15	4.32	65
61587	9.43	13.6	<.01	70	611	.19	5.40	41
61588	9.98	15.4	<.01	108	689	.25	6.97	66
61589	7.27	10.4	<.01	90	132	.24	6.55	39
61590	4.36	15.8	<.01	231	207	.25	8.53	44
61591	3.91	19.1	<.01	271	172	.22	9.33	44
61592	5.54	23.4	<.01	284	392	.26	10.0	52
61593	14.0	8.9	<.01	87	411	.29	5.32	49
61594	11.7	9.3	<.01	91	233	.27	5.30	42
61595	13.7	13.1	<.01	120	237	.25	4.94	39
61596	15.0	13.4	<.01	82	1090	.23	4.05	50
61597	14.6	12.2	<.01	58	918	.21	4.47	51
61598	8.83	13.4	<.01	77	1370	.14	4.47	51
61599	7.62	12.7	<.01	69	1420	.13	3.90	49
61600	20.5	11.7	<.01	61	883	.25	3.86	47
61601	10.5	14.8	<.01	77	1340	.20	4.79	57
61602	4.85	13.3	<.01	74	1360	.10	3.58	54
61603	7.32	12.7	<.01	73	1270	.14	3.83	47
61604	6.29	16.0	<.01	97	1590	.13	4.39	56
61605	6.23	17.3	<.01	115	1800	.10	5.07	63
61606	8.70	12.8	<.01	78	1390	.15	4.16	48
61607	8.12	16.3	<.01	110	1610	.16	5.34	55
61608	14.7	12.0	<.01	73	1170	.26	4.44	51
61609	20.7	13.9	<.01	95	1540	.26	4.03	58
61610	16.8	15.5	<.01	97	1540	.30	4.93	59
61611	5.83	15.4	<.01	117	462	.16	4.80	28
61612	9.36	12.7	<.01	81	1210	.19	4.74	53
61613	10.3	12.7	<.01	78	1330	.12	4.84	59
61614	11.1	12.3	<.01	75	1200	.21	4.53	55
61615	10.9	12.6	<.01	78	1320	.20	4.59	60
61616	10.8	17.3	<.01	112	1740	.19	5.73	76
61617	13.3	12.0	<.01	60	984	.22	4.96	60
61618	9.74	10.3	<.01	46	613	.26	4.94	66
61619	9.22	12.5	<.01	75	595	.21	4.89	57
61620	10.5	18.9	<.01	111	1640	.27	6.27	84
61621	10.1	12.1	<.01	65	1100	.13	4.50	61
61622	7.15	9.5	<.01	38	664	.10	4.02	48
61623	8.42	10.5	<.01	44	858	.14	4.58	59
61624	11.5	14.8	<.01	54	956	.17	5.57	81
61625	2.09	1.6	<.01	6	281	.02	.78	7
61626	3.74	4.8	<.01	14	329	.04	1.51	23
61627	4.17	6.3	<.01	14	247	.06	2.62	37
61628	3.90	3.4	<.01	8	212	.04	1.40	38
61629	4.37	9.7	<.01	21	203	.08	4.14	55
61630	4.63	11.9	<.01	20	167	.10	5.20	54
61631	4.52	11.7	<.01	21	233	.09	4.81	56
61632	6.82	21.6	<.01	231	113	.24	7.89	35

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61633	5.73	20.5	<.01	253	58	.21	7.60	39
61634	6.55	21.3	<.01	271	56	.21	7.63	39
61635	5.07	29.0	<.01	341	44	.22	8.75	37
61636	6.83	16.1	<.01	191	128	.21	7.48	33
61637	6.30	8.6	<.01	111	53	.27	6.49	31
61638	4.34	18.8	<.01	225	84	.20	7.72	43
61639	4.06	28.3	<.01	322	45	.22	10.1	39
61640	3.61	12.0	<.01	141	153	.18	6.22	26
61641	5.37	17.2	<.01	203	49	.31	9.17	41
61642	4.69	12.0	<.01	124	750	.14	7.93	73
61643	8.80	16.0	<.01	103	1290	.19	5.68	55
61644	9.96	14.6	<.01	74	1180	.15	4.41	58
61645	8.49	10.6	<.01	46	779	.14	4.44	56
61646	9.18	10.9	<.01	39	757	.16	4.26	54
61647	8.24	9.4	<.01	25	441	.14	4.47	44
61648	8.61	10.0	<.01	28	453	.15	3.97	42
61649	8.37	4.4	<.01	12	260	.21	4.03	42
61650	11.9	6.0	<.01	16	259	.31	4.58	54
61651	9.33	10.7	<.01	52	883	.17	4.66	64
61652	6.99	6.9	<.01	21	420	.12	3.42	52
61653	4.52	12.7	<.01	54	1070	.10	5.33	73
61654	11.5	7.3	<.01	21	383	.28	4.99	61
61655	5.66	12.6	<.01	55	907	.11	5.07	67
61656	9.15	7.4	<.01	15	294	.19	4.24	53
61657	8.65	9.2	<.01	35	705	.16	4.25	54
61658	8.34	9.7	<.01	44	922	.14	4.73	68
61659	11.2	9.2	<.01	25	460	.21	4.84	64
61660	10.4	12.4	<.01	58	802	.21	5.64	63
61661	6.06	12.9	<.01	45	790	.12	5.05	60
61662	8.06	12.4	<.01	61	1010	.11	4.53	61
61663	10.0	11.2	<.01	42	708	.16	4.52	61
61664	6.76	11.4	<.01	50	935	.11	4.76	59
61665	8.85	10.9	<.01	39	775	.12	4.19	61
61666	9.50	7.6	<.01	13	174	.21	4.23	51
61667	12.4	6.9	<.01	10	117	.33	5.01	51
61668	12.5	6.8	<.01	10	99	.32	4.62	50
61669	16.3	7.8	<.01	11	119	.28	4.13	55
61670	15.2	7.0	<.01	19	270	.23	4.21	45
61671	8.89	7.9	<.01	16	208	.13	4.59	55
61672	8.80	8.8	<.01	18	274	.13	5.02	64
61673	10.5	7.4	<.01	14	164	.27	5.35	49
61674	9.11	8.2	<.01	19	332	.13	4.45	81
61675	10.2	8.4	<.01	18	129	.13	4.19	126
61676	5.57	10.5	<.01	21	199	.10	4.86	58
61677	8.66	9.9	<.01	15	163	.12	3.93	61
61678	4.65	9.8	<.01	19	232	.09	4.30	51
61679	2.89	9.8	<.01	18	159	.08	4.68	59
61680	3.12	10.9	<.01	20	204	.09	4.87	135
61681	4.64	9.9	<.01	20	200	.09	4.24	48
61682	3.76	8.6	<.01	20	228	.08	4.41	54

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61683	3.00	11.9	<.01	25	361	.09	5.06	65
61684	3.23	10.1	<.01	19	261	.08	4.60	54
61685	6.11	11.1	<.01	20	168	.10	4.53	49
61686	5.20	10.8	<.01	17	153	.09	4.39	53
61687	2.95	11.1	<.01	20	229	.09	4.72	53
61688	2.67	9.8	<.01	17	156	.08	4.39	45
61689	4.28	9.8	<.01	15	151	.07	3.64	43
61690	5.73	8.8	<.01	14	159	.08	3.42	44
61691	4.42	6.1	<.01	8	118	.05	2.26	30
61692	4.01	10.7	<.01	12	118	.08	4.35	48
61693	1.26	2.6	<.01	4	161	.02	1.34	11
61694	2.08	8.6	<.01	13	176	.07	3.66	47
61695	2.85	12.0	<.01	17	160	.10	4.78	55
61696	3.81	5.9	<.01	14	171	.06	3.25	31
61697	3.50	8.9	<.01	16	175	.07	4.09	38
61698	3.27	7.3	<.01	14	219	.06	3.43	40
61699	3.64	7.7	<.01	13	184	.06	3.19	58
61700	3.50	8.2	<.01	14	189	.07	3.67	45
61701	2.65	10.1	<.01	15	194	.08	4.75	65
61702	3.62	7.7	<.01	18	190	.08	4.29	52
61703	4.20	12.8	<.01	26	378	.09	5.15	50
61704	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
61705	3.22	8.7	<.01	24	444	.07	3.97	47
61706	5.82	7.7	<.01	27	432	.08	3.48	40
61707	3.87	6.9	<.01	20	398	.06	3.12	42
61708	4.52	9.2	<.01	26	387	.08	4.00	45
61709	6.76	7.6	<.01	22	365	.09	3.79	39
61710	3.39	9.0	<.01	22	338	.09	4.55	52
61711	5.46	9.9	<.01	31	518	.09	4.47	63
61712	12.0	9.2	<.01	35	542	.14	3.79	147
61713	8.38	11.1	<.01	46	847	.10	4.16	55
61714	8.35	11.8	<.01	49	897	.10	3.99	62
61715	4.34	11.5	<.01	43	726	.10	4.64	47
61716	3.35	14.5	<.01	59	1010	.09	4.86	62
61717	4.47	10.5	<.01	34	507	.08	4.35	49
61718	2.86	12.2	<.01	40	572	.09	5.40	63
61719	9.90	14.3	<.01	69	904	.11	4.49	53

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61483	559	69.7	43.8	1240	223.	2.7	.8	<1
61484	796	44.0	36.6	502	102.	2.2	<.5	<1
61485	458	86.3	66.0	370	85.0	2.1	<.5	<1
61486	440	95.7	70.3	216	88.0	3.0	<.5	<1
61487	556	79.3	66.2	404	90.6	4.8	.7	<1
61488	821	44.5	43.0	719	111.	4.0	<.5	<1
61489	741	111.	72.9	42	35.3	2.3	<.5	<1
61490	1030	40.5	32.2	138	49.2	1.3	<.5	<1
61491	765	41.7	28.6	114	63.4	1.1	<.5	<1
61492	804	32.6	40.0	313	91.7	1.9	<.5	<1
61493	283	41.1	49.1	224	119.	2.6	<.5	<1
61494	311	91.1	53.6	234	85.7	2.3	<.5	<1
61495	817	83.3	46.1	1190	73.1	2.3	<.5	<1
61496	692	73.4	60.2	243	32.8	1.5	<.5	<1
61497	667	64.7	56.9	20	32.0	1.9	<.5	<1
61498	580	56.1	52.2	34	52.9	3.1	<.5	<1
61499	466	85.3	50.4	138	59.8	3.2	.5	<1
61500	315	64.9	29.9	131	78.8	3.3	.7	<1
61501	619	89.4	59.3	156	53.5	2.0	<.5	<1
61502	639	88.5	72.7	298	63.4	2.0	<.5	<1
61503	580	31.3	37.9	102	92.1	2.8	<.5	<1
61504	613	47.4	46.0	52	87.5	3.2	<.5	<1
61505	659	91.1	71.6	50	54.2	2.6	<.5	<1
61506	637	80.6	1370.	159	67.9	3.7	.7	<1
61507	618	69.3	81.6	524	89.1	2.5	<.5	<1
61508	754	50.3	66.6	12800	91.7	2.6	.6	<1
61509	1040	58.2	52.7	10500	116.	3.8	<.5	<1
61510	645	62.3	81.9	7270	86.8	2.5	<.5	<1
61511	511	52.7	63.0	14300	111.	2.9	<.5	<1
61512	565	63.1	139.	6430	77.8	2.2	.6	<1
61513	685	47.7	41.4	35	211.	3.6	<.5	<1
61514	548	35.3	31.0	34	234.	3.2	.5	<1
61515	18	12.0	30.8	<3	39.7	1.9	12.2	<1
61516	16	15.9	27.7	13	33.8	2.0	13.9	<1
61517	7	28.7	22.5	<3	47.7	1.5	12.0	<1
61518	13	26.6	38.3	6	63.6	1.5	12.0	<1
61519	88	121.	281.	55	104.	4.8	5.7	1
61520	53	107.	123.	17	43.8	2.6	1.7	<1
61521	78	124.	389.	40	108.	3.4	3.0	<1
61522	74	166.	728.	58	62.4	3.9	2.5	<1
61523	109	94.2	341.	47	65.5	3.5	3.3	<1
61524	58	89.0	220.	25	91.4	4.2	3.3	16
61525	97	84.7	151.	15	102.	3.3	1.5	<1
61526	94	88.9	182.	18	166.	4.2	3.1	<1
61527	54	232.	164.	7	169.	6.8	2.5	<1
61528	88	98.5	188.	19	173.	4.4	3.2	<1
61529	151	268.	341.	65	268.	6.1	5.0	<1
61530	77	91.7	244.	16	71.6	3.4	1.9	<1
61531	72	88.6	186.	18	171.	3.2	<.5	<1
61532	116	111.	248.	13	133.	7.7	6.5	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61533	129	82.0	122.	29	91.7	3.2	1.0	<1
61534	127	69.4	129.	17	101.	3.9	2.0	<1
61535	97	79.2	136.	35	75.3	4.9	1.8	<1
61536	61	45.4	112.	6	86.1	6.2	1.1	<1
61537	61	14.7	89.0	16	104.	4.8	1.3	<1
61538	77	126.	142.	6	107.	4.2	1.8	<1
61539	87	128.	169.	<3	120.	4.8	3.1	<1
61540	56	119.	143.	<3	138.	5.6	1.8	<1
61541	132	125.	136.	<3	95.4	5.2	1.3	<1
61542	78	109.	126.	<3	92.4	7.3	1.7	<1
61543	729	46.4	46.7	12	274.	4.4	<.5	<1
61544	761	46.5	49.1	12	203.	4.1	<.5	<1
61545	725	61.6	42.7	4	204.	4.0	<.5	<1
61546	611	41.2	34.4	<3	233.	3.3	<.5	<1
61547	471	46.5	24.3	<3	212.	4.4	<.5	1
61548	385	44.4	24.0	9	206.	4.5	.7	<1
61549	645	52.9	55.0	11	219.	4.2	.7	<1
61550	333	23.0	23.0	17	258.	3.4	.8	<1
61551	715	56.3	52.5	24	187.	4.7	.7	<1
61552	595	36.1	39.9	9	210.	4.6	<.5	<1
61553	620	49.3	45.3	27	238.	4.1	.8	<1
61554	796	62.6	52.1	23	230.	3.9	.8	<1
61555	861	52.9	51.4	16	260.	4.9	.8	<1
61556	520	123.	38.1	<3	219.	2.3	.8	<1
61557	691	39.6	41.1	50	166.	3.3	<.5	<1
61558	627	28.7	57.5	57	209.	4.6	3.1	<1
61559	653	37.3	45.5	54	199.	4.7	.6	<1
61560	699	44.7	50.5	35	192.	4.5	1.0	<1
61561	810	40.3	47.6	38	156.	3.7	.7	<1
61562	739	41.0	85.5	46	169.	5.7	<.5	<1
61563	1180	59.0	65.9	33	157.	3.4	<.5	<1
61564	1200	60.7	66.5	46	138.	4.7	<.5	<1
61565	991	44.0	50.7	72	144.	4.7	<.5	<1
61566	709	33.1	47.5	48	133.	5.1	4.0	<1
61567	615	27.4	51.4	79	142.	5.8	2.5	<1
61568	651	40.6	44.5	115	124.	4.9	1.2	<1
61569	792	19.0	52.4	564	147.	4.3	.6	<1
61570	473	44.9	24.5	524	68.9	4.7	<.5	<1
61571	389	37.2	33.8	331	72.7	4.4	.6	<1
61572	147	169.	118.	211	34.8	2.1	3.0	<1
61573	647	19.2	41.0	721	120.	4.1	.7	<1
61574	872	49.8	54.3	787	120.	3.9	<.5	<1
61575	778	35.5	30.7	247	114.	3.5	<.5	<1
61576	637	34.1	27.2	83	109.	4.2	.9	<1
61577	818	43.6	42.2	123	94.8	3.5	<.5	<1
61578	672	51.4	40.9	11	103.	4.1	.6	<1
61579	725	61.6	42.5	<3	88.0	4.0	1.4	<1
61580	889	56.3	48.8	4	96.7	3.4	<.5	<1
61581	835	50.4	46.0	4	96.8	3.6	.5	<1
61582	955	63.2	40.4	7	85.0	3.1	<.5	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61583	491	31.1	34.7	10	107.	3.9	1.5	<1
61584	615	34.0	31.0	18	96.4	2.7	.8	<1
61585	906	45.8	37.2	44	100.	3.0	.8	<1
61586	891	31.4	38.5	92	123.	3.3	<.5	<1
61587	378	18.0	48.8	85	117.	5.7	2.1	<1
61588	588	46.6	64.4	205	126.	4.3	1.6	<1
61589	193	74.5	136.	42	86.3	4.3	2.3	<1
61590	179	76.7	115.	10	44.5	4.1	2.0	<1
61591	171	80.8	153.	<3	38.2	3.2	3.0	<1
61592	221	99.3	163.	4	47.9	3.4	2.6	<1
61593	330	44.8	88.5	31	66.4	4.8	1.3	<1
61594	370	44.3	75.9	15	71.1	4.6	.6	<1
61595	383	52.9	84.2	<3	88.7	4.3	.9	<1
61596	513	89.7	54.8	16	134.	6.7	<.5	<1
61597	567	42.1	40.9	54	125.	4.3	1.0	<1
61598	621	41.1	30.4	53	115.	2.6	.8	<1
61599	476	57.8	27.3	37	103.	2.5	.9	<1
61600	571	30.4	28.1	8	157.	4.5	<.5	<1
61601	675	48.6	30.5	5	151.	4.0	<.5	<1
61602	660	59.7	27.2	6	75.6	2.0	<.5	<1
61603	523	43.4	30.6	4	110.	3.8	.8	<1
61604	667	45.1	41.4	13	95.4	3.2	<.5	<1
61605	774	72.3	41.5	18	103.	3.3	<.5	<1
61606	556	39.3	29.1	10	104.	3.4	1.2	<1
61607	606	59.9	41.1	13	91.3	3.8	<.5	<1
61608	654	31.3	36.8	14	160.	4.4	<.5	<1
61609	622	40.2	96.6	10	210.	6.2	.7	<1
61610	744	37.2	65.2	5	151.	5.4	.8	<1
61611	196	44.2	54.5	10	75.2	6.2	10.2	<1
61612	679	27.3	33.0	52	112.	4.2	3.1	<1
61613	893	38.8	24.9	42	133.	3.5	<.5	<1
61614	721	32.6	27.1	62	127.	4.5	.7	<1
61615	831	33.5	64.5	79	122.	4.3	<.5	<1
61616	951	12.3	86.3	274	183.	5.0	1.5	<1
61617	768	34.6	32.2	739	135.	4.6	1.1	<1
61618	689	60.0	23.6	872	62.0	4.5	2.5	<1
61619	563	59.5	34.0	703	76.7	5.0	5.6	<1
61620	825	30.6	33.6	376	78.6	5.2	1.3	<1
61621	815	46.4	36.0	824	108.	2.9	<.5	<1
61622	718	30.4	33.8	911	121.	2.0	.9	<1
61623	826	48.5	37.3	828	91.7	2.4	<.5	<1
61624	1070	60.5	52.9	1380	121.	3.0	<.5	<1
61625	87	4.3	5.1	130	46.6	.9	.6	<1
61626	313	11.7	15.4	450	85.2	1.5	1.6	1
61627	530	9.4	26.8	740	148.	1.5	<.5	<1
61628	227	30.2	25.4	266	216.	1.0	.8	<1
61629	731	10.4	181.	1080	210.	1.9	<.5	<1
61630	599	57.4	97.4	912	166.	2.3	2.0	<1
61631	791	20.2	40.1	1130	122.	2.2	1.1	<1
61632	75	68.9	116.	7	198.	5.7	9.4	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61633	70	80.5	416.	8	150.	4.4	3.0	<1
61634	73	78.2	118.	5	175.	4.0	3.2	<1
61635	62	86.5	129.	<3	112.	3.8	2.3	<1
61636	55	81.6	85.8	6	244.	5.7	5.8	<1
61637	59	79.9	84.2	8	111.	4.3	2.6	<1
61638	77	92.0	84.8	35	89.3	2.7	2.3	<1
61639	57	88.9	171.	3	87.7	1.9	2.6	<1
61640	43	66.2	91.4	15	68.7	1.8	1.6	<1
61641	64	99.6	153.	21	93.8	2.0	3.1	<1
61642	542	196.	91.8	373	99.2	3.0	3.6	1
61643	649	86.2	74.1	252	210.	4.2	1.5	<1
61644	698	45.6	46.8	734	215.	3.3	.8	<1
61645	722	86.7	37.4	886	163.	2.3	<.5	<1
61646	731	41.8	35.2	738	162.	3.3	.8	<1
61647	539	86.5	38.2	752	153.	3.6	6.5	<1
61648	503	52.9	34.7	676	164.	4.9	6.2	<1
61649	438	61.9	29.3	453	64.4	4.2	.6	<1
61650	629	46.5	20.7	767	101.	6.4	.5	<1
61651	867	50.3	38.8	773	92.7	2.9	.8	<1
61652	678	44.7	20.3	888	113.	2.7	.9	<1
61653	937	32.9	48.1	699	71.8	1.7	<.5	<1
61654	733	86.9	27.0	822	144.	4.3	<.5	<1
61655	773	35.8	44.7	539	84.3	1.6	.7	<1
61656	607	47.6	21.1	740	85.5	3.0	.6	<1
61657	659	46.4	31.0	713	109.	2.8	<.5	<1
61658	921	56.8	41.0	829	116.	2.7	.7	<1
61659	841	48.1	33.2	511	105.	3.2	<.5	<1
61660	736	9.9	43.5	385	96.7	3.1	1.1	<1
61661	737	28.6	39.5	652	88.9	2.0	1.1	<1
61662	704	70.5	39.9	477	100.	2.2	<.5	<1
61663	729	33.0	30.5	313	96.9	2.7	1.2	<1
61664	759	36.5	37.6	515	102.	1.8	1.1	<1
61665	796	28.0	31.4	860	139.	2.8	1.2	<1
61666	571	106.	15.1	677	90.4	3.6	.8	<1
61667	638	74.3	14.7	647	77.3	4.0	.7	<1
61668	675	52.5	15.0	693	90.3	4.2	1.0	<1
61669	691	34.3	17.8	821	179.	4.1	.7	<1
61670	605	24.2	27.2	169	147.	3.5	<.5	<1
61671	754	111.	30.1	1050	114.	2.2	<.5	2
61672	868	70.1	33.8	1160	118.	2.1	1.3	2
61673	510	45.1	16.4	392	78.6	3.6	1.5	<1
61674	1030	94.3	34.2	1130	126.	2.2	<.5	2
61675	1270	69.8	43.7	1720	239.	2.7	<.5	2
61676	809	11.7	30.6	1030	91.0	2.2	.7	<1
61677	1060	14.8	15.9	1320	124.	2.7	<.5	<1
61678	743	19.4	21.8	818	78.8	1.9	.9	<1
61679	890	24.7	28.2	1020	58.0	1.4	<.5	<1
61680	1640	38.0	31.8	2100	84.1	1.5	<.5	<1
61681	662	18.3	26.8	881	93.4	1.7	.8	<1
61682	851	7.3	31.4	1140	80.2	1.9	.6	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61683	942	15.2	34.4	911	63.1	1.5	.6	<1
61684	790	15.7	31.3	839	70.3	1.2	.6	<1
61685	622	21.5	27.9	813	127.	2.3	.9	<1
61686	745	12.4	24.8	1050	112.	1.9	1.4	<1
61687	709	25.0	35.2	816	81.5	1.5	.7	<1
61688	633	12.3	30.8	873	70.6	1.3	1.0	<1
61689	561	19.5	25.8	828	96.3	1.5	.8	<1
61690	620	8.3	23.8	972	129.	1.6	<.5	<1
61691	400	20.8	15.7	633	94.2	1.4	1.2	<1
61692	547	36.7	28.9	828	104.	2.3	8.9	<1
61693	138	7.7	7.7	184	27.9	.4	<.5	<1
61694	559	7.8	25.6	583	61.5	1.0	<.5	<1
61695	626	8.5	33.3	665	79.8	1.3	<.5	<1
61696	509	8.6	24.7	540	93.4	1.2	<.5	<1
61697	469	7.4	30.7	657	76.2	1.3	<.5	<1
61698	618	9.7	27.0	881	71.7	1.2	1.0	<1
61699	952	4.6	25.6	1390	91.1	1.5	.7	<1
61700	612	33.7	26.7	771	113.	1.3	.9	<1
61701	972	22.5	28.7	1180	66.4	1.2	1.0	<1
61702	786	5.8	29.0	1020	66.6	1.3	<.5	<1
61703	512	62.1	37.8	605	84.7	4.0	4.4	<1
61704	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
61705	641	19.6	23.4	828	61.6	1.2	<.5	<1
61706	544	19.3	20.3	666	190.	1.7	<.5	<1
61707	616	16.8	17.8	833	92.9	1.2	<.5	<1
61708	620	5.9	25.2	807	111.	1.8	<.5	<1
61709	529	11.6	16.2	735	194.	2.4	<.5	<1
61710	755	13.3	23.6	1070	65.3	1.3	<.5	<1
61711	918	70.8	25.7	1110	155.	1.6	<.5	<1
61712	2220	19.2	31.5	2080	697.	3.7	<.5	<1
61713	784	41.2	32.5	894	299.	2.8	<.5	<1
61714	955	37.4	29.0	926	326.	2.3	<.5	<1
61715	610	12.5	31.2	514	106.	1.6	<.5	<1
61716	714	25.7	35.7	371	62.4	1.2	<.5	<1
61717	673	15.7	31.6	727	108.	1.5	<.5	<1
61718	792	4.4	37.5	951	67.3	1.3	<.5	<1
61719	764	48.2	39.0	886	231.	5.7	<.5	<1

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61483	.6	3	<10	13	8	<10	<2	<3
61484	<.1	2	<10	19	4	<10	<2	<3
61485	.2	3	<10	10	5	<10	<2	<3
61486	<.1	3	<10	7	4	<10	<2	<3
61487	.6	4	<10	9	12	<10	<2	<3
61488	.5	2	<10	19	13	<10	<2	<3
61489	<.1	3	<10	18	3	<10	<2	<3
61490	<.1	2	<10	11	2	<10	<2	<3
61491	.1	2	<10	9	4	<10	<2	<3
61492	<.1	2	<10	15	4	<10	<2	<3
61493	<.1	2	<10	8	4	<10	<2	<3
61494	.3	3	<10	8	3	<10	<2	<3
61495	.3	4	<10	10	25	<10	<2	<3
61496	<.1	3	<10	23	7	<10	<2	<3
61497	.2	3	<10	19	3	<10	<2	<3
61498	.2	3	<10	17	4	<10	<2	3
61499	.7	3	<10	13	9	<10	<2	<3
61500	.7	3	<10	6	13	<10	<2	<3
61501	.1	3	<10	15	8	<10	<2	3
61502	.3	3	<10	16	15	<10	<2	<3
61503	.4	2	<10	16	3	<10	<2	<3
61504	<.1	2	<10	16	3	<10	<2	<3
61505	.2	2	<10	11	4	<10	<2	<3
61506	.6	8	<10	14	15	<10	<2	<3
61507	.7	6	<10	11	14	<10	<2	<3
61508	.4	4	<10	16	37	<10	3	<3
61509	.5	2	<10	11	65	<10	<2	<3
61510	.4	4	<10	19	27	<10	<2	<3
61511	.3	4	<10	16	51	<10	3	<3
61512	.4	4	<10	21	38	<10	2	<3
61513	.4	2	<10	12	7	<10	<2	<3
61514	<.1	2	<10	8	11	<10	<2	<3
61515	<.1	<1	<10	<5	20	<10	3	<3
61516	<.1	<1	<10	<5	17	<10	3	<3
61517	<.1	<1	<10	<5	16	<10	5	<3
61518	<.1	<1	<10	<5	25	<10	3	<3
61519	.3	3	<10	<5	74	<10	7	<3
61520	<.1	3	<10	<5	18	<10	<2	<3
61521	.3	4	<10	<5	50	<10	6	<3
61522	.3	5	<10	<5	37	<10	4	<3
61523	.6	5	<10	<5	23	<10	<2	<3
61524	.4	6	<10	<5	28	<10	3	4
61525	<.1	4	<10	<5	30	<10	<2	<3
61526	<.1	3	<10	<5	65	<10	4	<3
61527	.9	6	<10	<5	5	<10	5	<3
61528	<.1	3	<10	<5	13	<10	<2	<3
61529	.2	4	<10	<5	39	<10	6	<3
61530	<.1	3	<10	<5	34	<10	<2	<3
61531	.4	3	<10	<5	29	<10	<2	<3
61532	.9	6	<10	<5	16	<10	<2	5

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61533	<.1	2	<10	<5	20	<10	<2	<3
61534	.2	2	<10	<5	30	<10	<2	<3
61535	.1	2	<10	<5	37	<10	3	<3
61536	<.1	2	<10	<5	11	<10	86	<3
61537	<.1	1	<10	<5	21	<10	38	<3
61538	<.1	3	<10	<5	27	<10	<2	<3
61539	<.1	3	<10	<5	14	<10	<2	<3
61540	.2	3	<10	<5	8	<10	<2	<3
61541	<.1	3	<10	<5	9	<10	<2	<3
61542	<.1	3	<10	<5	3	<10	<2	<3
61543	.3	2	<10	11	26	<10	<2	<3
61544	.5	2	<10	13	36	<10	<2	<3
61545	<.1	2	<10	10	58	<10	<2	<3
61546	.5	1	<10	11	46	<10	<2	<3
61547	.5	<1	27	16	19	<10	<2	<3
61548	1.4	2	<10	15	28	<10	2	5
61549	1.1	3	<10	14	68	<10	<2	6
61550	1.0	1	<10	7	44	<10	<2	<3
61551	.8	2	<10	14	51	<10	<2	<3
61552	.5	2	<10	12	71	<10	<2	<3
61553	.5	2	<10	12	68	<10	<2	<3
61554	1.1	2	<10	13	52	<10	<2	<3
61555	.8	2	<10	12	289	<10	<2	<3
61556	.2	2	<10	13	40	<10	2	<3
61557	.4	2	<10	12	6	<10	2	3
61558	.5	3	<10	16	8	<10	<2	4
61559	.4	3	<10	10	8	<10	<2	<3
61560	.8	3	<10	8	8	<10	<2	<3
61561	.7	3	<10	11	7	<10	<2	<3
61562	.7	3	<10	13	8	<10	<2	4
61563	.9	2	<10	13	7	<10	<2	<3
61564	.6	3	<10	16	8	<10	<2	4
61565	.6	3	<10	18	4	<10	<2	<3
61566	.6	3	<10	14	3	<10	<2	3
61567	.7	3	<10	10	7	<10	<2	4
61568	1.1	3	<10	13	9	<10	<2	<3
61569	.7	3	<10	24	16	<10	2	6
61570	.7	2	<10	18	14	<10	<2	<3
61571	.6	3	<10	21	16	<10	3	<3
61572	.7	4	<10	8	7	<10	20	4
61573	.6	3	<10	46	12	<10	<2	5
61574	.3	3	<10	46	4	<10	5	<3
61575	.7	3	<10	51	4	<10	<2	3
61576	.7	2	<10	12	17	<10	<2	<3
61577	.6	3	<10	32	5	<10	<2	<3
61578	.7	2	<10	10	13	<10	2	<3
61579	.7	3	<10	12	6	<10	3	5
61580	.7	3	<10	14	7	<10	<2	<3
61581	.6	3	<10	14	7	<10	<2	<3
61582	.6	2	<10	21	2	<10	<2	<3

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61583	.5	3	<10	10	3	<10	<2	<3
61584	.3	3	<10	10	3	<10	<2	5
61585	.4	3	<10	11	3	<10	<2	4
61586	.7	2	<10	17	3	<10	<2	4
61587	.5	3	<10	16	7	<10	<2	4
61588	.5	4	<10	11	24	<10	<2	4
61589	.7	4	<10	<5	31	<10	3	<3
61590	1.0	5	<10	<5	20	<10	<2	6
61591	.8	5	<10	<5	19	<10	<2	10
61592	.5	6	<10	<5	13	<10	<2	8
61593	.6	3	<10	<5	21	<10	3	5
61594	.6	3	<10	<5	22	<10	<2	<3
61595	.3	3	<10	<5	15	<10	3	<3
61596	.1	2	<10	10	6	<10	<2	<3
61597	.4	3	<10	10	10	<10	<2	<3
61598	.5	3	<10	12	3	<10	<2	3
61599	.4	2	<10	18	3	<10	<2	<3
61600	.8	2	<10	11	21	<10	2	<3
61601	.5	1	<10	13	3	<10	<2	4
61602	.2	2	<10	10	2	<10	<2	3
61603	.5	2	<10	11	3	<10	<2	4
61604	.3	2	<10	13	3	<10	<2	6
61605	.3	3	<10	14	5	<10	<2	4
61606	.6	2	<10	12	6	<10	<2	6
61607	.6	3	<10	12	14	<10	<2	5
61608	.6	2	<10	10	109	<10	2	<3
61609	.6	3	<10	15	359	<10	<2	4
61610	.6	3	<10	13	12	<10	<2	<3
61611	.2	3	<10	<5	4	<10	<2	<3
61612	.4	3	<10	14	4	<10	<2	4
61613	.5	3	<10	23	4	<10	<2	4
61614	.6	3	<10	12	6	<10	<2	<3
61615	.6	3	<10	13	5	<10	<2	5
61616	.7	4	<10	15	9	<10	<2	6
61617	.7	3	<10	17	10	445	<2	<3
61618	.7	3	<10	26	16	<10	<2	<3
61619	.4	3	<10	22	10	<10	2	<3
61620	.7	4	<10	63	5	<10	<2	4
61621	.5	3	<10	16	5	<10	<2	5
61622	.6	3	<10	16	5	<10	3	<3
61623	.4	3	<10	30	17	<10	<2	4
61624	.6	3	<10	37	10	239	<2	<3
61625	.3	<1	<10	<5	2	<10	<2	<3
61626	.6	<1	<10	6	7	<10	7	<3
61627	.5	1	<10	11	7	<10	7	3
61628	.1	<1	<10	18	8	<10	17	<3
61629	.4	3	<10	18	11	<10	104	4
61630	.8	3	<10	42	17	<10	101	<3
61631	.8	3	<10	25	14	<10	23	6
61632	.3	5	<10	6	16	<10	11	7

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61633	.7	5	<10	<5	36	<10	5	7
61634	.4	5	<10	<5	35	<10	<2	<3
61635	.3	6	<10	<5	13	<10	2	6
61636	.5	5	<10	<5	25	<10	3	5
61637	.8	4	<10	<5	43	<10	3	<3
61638	.7	4	<10	<5	25	<10	3	5
61639	.5	7	<10	<5	9	<10	<2	6
61640	.5	4	<10	<5	20	<10	<2	3
61641	.9	6	<10	<5	23	<10	4	4
61642	1.2	5	<10	22	11	<10	9	7
61643	.8	4	<10	16	7	<10	<2	3
61644	.3	3	<10	18	4	<10	<2	5
61645	.4	3	<10	15	8	<10	<2	<3
61646	.5	3	<10	36	8	98	<2	<3
61647	.6	3	<10	20	12	46	<2	<3
61648	.7	3	<10	12	15	<10	2	<3
61649	.9	2	<10	8	11	<10	4	<3
61650	.6	3	<10	13	15	395	5	<3
61651	.7	3	<10	10	8	136	4	<3
61652	.8	2	<10	8	11	51	2	<3
61653	.4	3	<10	10	7	47	2	<3
61654	.8	3	<10	7	19	2950	<2	<3
61655	.6	3	<10	9	8	25	<2	3
61656	.7	3	<10	6	15	472	3	<3
61657	.8	3	<10	8	12	120	<2	<3
61658	.6	3	<10	11	13	<10	<2	<3
61659	.6	3	<10	6	13	<10	<2	<3
61660	.5	3	<10	8	10	<10	<2	6
61661	.4	3	<10	7	7	<10	<2	4
61662	.4	3	<10	8	6	<10	<2	3
61663	.7	3	<10	7	5	<10	3	4
61664	.2	3	<10	9	5	26	<2	<3
61665	.4	3	<10	6	9	<10	<2	4
61666	1.0	3	<10	<5	14	2400	<2	<3
61667	.7	3	<10	<5	17	507	4	<3
61668	.6	3	<10	<5	14	887	<2	<3
61669	.8	3	<10	<5	12	1150	2	<3
61670	.5	3	<10	<5	9	153	<2	<3
61671	.5	3	<10	<5	11	<10	3	<3
61672	.6	3	<10	<5	10	<10	4	4
61673	1.0	4	<10	<5	14	438	3	<3
61674	.3	3	<10	5	8	339	3	<3
61675	.7	3	<10	<5	14	<10	2	<3
61676	.4	3	<10	<5	7	<10	2	5
61677	.2	3	<10	6	6	<10	<2	5
61678	.3	3	<10	6	6	<10	2	4
61679	.4	3	<10	6	7	<10	2	5
61680	.3	3	<10	7	9	<10	3	7
61681	.5	3	<10	5	8	<10	2	5
61682	.3	3	<10	7	8	<10	3	5

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61683	.5	3	<10	6	8	<10	<2	8
61684	<.1	3	<10	6	8	<10	<2	5
61685	.2	3	<10	6	9	<10	3	<3
61686	.4	3	<10	6	10	<10	3	5
61687	.4	3	<10	10	8	<10	<2	6
61688	.3	3	<10	10	9	<10	<2	6
61689	.3	2	<10	17	9	<10	3	5
61690	<.1	2	<10	9	6	<10	<2	6
61691	<.1	1	<10	15	3	<10	<2	<3
61692	.3	3	<10	16	7	<10	3	4
61693	.2	<1	<10	8	3	<10	<2	<3
61694	.4	2	<10	7	9	<10	11	5
61695	.1	3	<10	6	11	<10	2	5
61696	.2	2	<10	9	8	<10	<2	4
61697	<.1	3	<10	8	12	<10	2	7
61698	.2	2	<10	11	11	<10	<2	4
61699	.1	2	<10	12	10	<10	<2	4
61700	.4	2	<10	18	8	<10	2	6
61701	.4	3	<10	18	8	<10	3	5
61702	<.1	3	<10	10	8	<10	<2	<3
61703	.5	2	<10	13	11	<10	2	3
61704	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
61705	<.1	2	<10	9	6	<10	<2	<3
61706	.4	2	<10	6	5	<10	<2	4
61707	.3	1	<10	8	5	<10	<2	<3
61708	.4	2	<10	8	5	<10	<2	5
61709	.2	1	<10	6	7	<10	<2	<3
61710	.3	2	<10	6	8	<10	<2	3
61711	.7	2	<10	10	6	<10	<2	<3
61712	.3	2	<10	7	4	<10	12	<3
61713	<.1	2	<10	9	6	<10	<2	<3
61714	.2	2	<10	8	4	<10	<2	4
61715	.4	2	<10	6	4	<10	<2	4
61716	.4	2	<10	7	3	<10	<2	6
61717	.4	2	<10	7	7	<10	<2	4
61718	.7	2	<10	5	9	<10	<2	6
61719	.2	2	<10	7	6	<10	<2	<3

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL

SAMPLE \ %	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3	MNO	TIO2	P2O5	CR2O3	LOI	SUM
WR-24	44.1	7.73	8.69	6.91	.55	.36	15.4	.54	.451	.03	.39	14.3	99.5
WR-25	42.7	6.31	7.92	12.6	.16	.50	10.4	.24	.401	.04	.36	18.9	100.6
WR-26	66.0	14.8	2.04	3.06	.25	1.96	5.83	.07	.554	.23	.04	5.15	100.2
WR-27	33.7	4.88	13.6	15.4	.03	<.01	8.39	.14	.275	.03	.25	23.8	100.5
WR-28	23.2	4.59	6.22	22.7	.32	.96	9.48	.17	.323	.02	.30	31.8	100.2
WR-29	59.4	16.8	2.75	2.38	10.3	.05	2.66	.05	.398	.02	.02	4.10	99.0
WR-30	39.1	4.19	3.83	26.8	.09	<.01	8.45	.13	.247	.03	.28	17.3	100.5
WR-31	26.2	4.94	6.63	18.7	.25	1.35	11.0	.25	.352	.02	.35	30.0	100.1
WR-32	28.8	4.69	13.7	14.7	.63	.60	8.37	.24	.257	.04	.23	27.8	100.1
WR-33	62.0	15.0	2.04	1.69	8.88	.23	4.96	.10	.381	.05	.02	4.65	100.0
WR-34	34.8	4.34	6.00	18.9	.09	.20	9.32	.15	.306	.03	.31	24.8	99.3
WR-35	48.7	13.0	7.28	5.98	5.41	.08	7.25	.15	.631	.53	.03	11.3	100.4
WR-36	37.1	4.49	2.16	21.0	.12	<.01	10.1	.13	.340	.03	.33	23.6	99.4
WR-37	31.3	5.05	11.3	20.3	.78	<.01	9.49	.28	.267	.03	.27	20.9	100.0
WR-38	30.1	7.24	11.2	11.7	2.08	1.15	9.77	.22	.450	.04	.22	25.2	99.5
WR-39	14.5	4.32	21.1	13.4	1.09	.08	10.7	.35	.391	.02	.27	32.8	99.1
WR-40	31.3	10.5	12.6	9.11	3.08	.41	10.6	.26	.618	.03	.08	20.7	99.4
WR-41	42.5	9.79	8.28	7.03	1.26	.71	13.9	.41	1.10	.25	.07	13.9	99.3
WR-42	51.3	10.8	6.20	3.59	2.42	.94	12.8	.35	1.55	.13	.01	10.2	100.4
WR-43	32.0	3.93	14.4	14.7	<.01	<.01	8.64	.22	.244	.03	.27	26.2	100.7
WR-44	41.4	3.96	7.72	21.6	.04	<.01	9.64	.12	.271	.02	.31	15.5	100.6
WR-45	40.7	14.0	7.05	6.03	3.82	1.08	11.2	.24	2.07	.16	<.01	12.4	98.8
WR-46	65.2	13.0	3.37	1.31	4.55	2.03	3.84	.19	.372	.08	.02	5.10	99.2
WR-47	34.7	3.75	10.3	16.1	.03	.18	8.64	.18	.268	.03	.27	25.3	99.8
WR-48	29.1	4.14	17.4	12.2	.16	.65	7.89	.25	.267	.05	.21	27.5	99.9
WR-49	34.4	5.01	17.1	8.59	.65	1.34	7.14	.35	.318	.04	.30	25.0	100.3
WR-50	46.7	10.1	9.97	4.17	3.34	.04	11.8	.38	1.49	.12	<.01	12.0	100.1
WR-51	66.0	15.2	2.20	1.60	9.08	.23	1.85	.07	.296	.13	.02	3.45	100.3
WR-52	18.0	2.18	37.4	4.33	.08	.17	4.74	.45	.119	.03	.16	32.4	100.1
WR-53	39.9	7.20	14.2	9.59	.08	.30	11.6	.29	.462	.04	.31	16.0	100.0
WR-54	29.3	4.60	20.3	10.8	.12	.12	8.16	.36	.288	.03	.27	25.8	100.2
WR-55	28.4	3.36	17.4	14.2	.02	<.01	8.48	.21	.217	.02	.21	28.1	100.6
WR-56	45.9	10.1	8.77	4.82	1.22	.37	15.2	.35	1.42	.12	.02	11.8	100.1
WR-57	31.7	5.52	18.3	10.7	.05	<.01	9.39	.36	.396	.03	.34	23.0	99.8
WR-58	36.4	2.54	10.1	16.4	.06	.31	7.27	.15	.219	.02	.21	26.5	100.2
WR-59	55.9	4.61	5.95	10.6	.34	<.01	4.76	.10	.158	.02	.14	16.7	99.3
WR-60	29.3	6.15	5.03	18.3	.26	1.73	10.1	.18	.388	.02	.27	28.4	100.2
WR-61	45.4	11.2	7.50	4.72	1.68	.57	15.9	.25	1.64	.13	<.01	11.3	100.4
WR-62	45.0	11.6	7.41	4.32	3.45	.51	13.3	.34	1.68	.15	<.01	12.1	99.9
WR-63	41.0	3.46	10.7	13.0	.07	.48	7.55	.21	.274	.03	.25	23.3	100.4
WR-64	33.9	5.90	15.2	8.66	1.64	.69	8.93	.29	.377	.05	.24	23.6	99.5
WR-65	13.9	2.73	23.2	13.4	.17	.30	9.99	.69	.164	.02	.13	35.4	100.1

XRF W.R.A. SUMS INCLUDE ALL ELEMENTS DETERMINED. FOR SUMMATION, ELEMENTS ARE CALCULATED AS OXIDES

SAMPLE \ PPM	RB	SR	Y	ZR	NB	BA
WR-24	17	53	17	24	36	166
WR-25	21	70	<10	115	24	184
WR-26	58	299	<10	188	16	909
WR-27	13	318	<10	16	29	24
WR-28	28	203	<10	28	36	353
WR-29	19	342	<10	123	28	136
WR-30	20	262	<10	11	30	125
WR-31	32	79	27	13	25	253
WR-32	15	145	12	21	26	98
WR-33	<10	69	<10	116	24	129
WR-34	24	68	<10	17	42	73
WR-35	29	174	<10	143	42	53
WR-36	17	36	<10	17	19	53
WR-37	<10	99	<10	22	21	19
WR-38	23	316	19	24	21	372
WR-39	<10	472	10	25	33	<10
WR-40	17	252	11	54	30	160
WR-41	12	382	26	80	21	268
WR-42	38	133	40	88	33	359
WR-43	15	495	12	24	33	<10
WR-44	27	99	19	<10	22	15
WR-45	29	124	16	126	37	373
WR-46	57	18	<10	87	25	860
WR-47	11	175	<10	17	18	44
WR-48	23	292	<10	<10	23	91
WR-49	32	100	21	17	20	135
WR-50	16	163	24	72	24	20
WR-51	15	428	<10	132	19	495
WR-52	<10	282	<10	<10	20	<10
WR-53	22	265	<10	<10	38	170
WR-54	12	214	<10	<10	18	12
WR-55	19	129	<10	17	18	<10
WR-56	30	55	23	79	37	104
WR-57	<10	151	<10	18	33	<10
WR-58	21	155	<10	28	41	67
WR-59	<10	114	<10	<10	15	44
WR-60	54	<10	<10	34	29	418
WR-61	43	143	24	<10	29	379
WR-62	34	108	22	86	33	175
WR-63	16	158	<10	27	18	75
WR-64	18	89	<10	40	25	101
WR-65	23	47	<10	12	35	30

APPENDIX 2

ANALYTICAL PROCEDURES FOR GOLD, ICP AND WHOLE ROCK ANALYSES

Group 02-1

FIRE ASSAYING AT XRAL

A. Sample Preparation

Primary reduction is achieved by a two stage crushing facility which employs a 6" x 8" jaw crusher for the first stage followed by a 10" Gy-Roll cone crusher as second stage. The product from this system is typically 45% minus 1/8" and 99% minus 1/4".

A subsample is withdrawn from this crusher product by means of a 3/8" Jones sample splitter. The subsample will vary in size depending on the size of the original sample but will normally represent not less than 1/8 of the original. Samples of less than 1/2 pound are normally not split.

Secondary reduction is achieved by means of either a Braun disc pulverizer or an oscillatory swing mill. The former is normally used for the larger samples associated with assessment work, with the swing mills being reserved for geochemical applications. The Braun pulverizer product is 100% minus 100 mesh whereas the swing mill product is minus 200 mesh. The unused portion of the crusher product (crusher reject) is stored for possible future use free of charge for 90 days or is disposed of as per the client's instructions. The pulverized subsample (or assay pulp) is sent on for assay. Any material which remains after assay work is complete is put in storage for 180 days as above.

XRAL has two separate primary crushing facilities backed by eight swing mill stations and two Braun pulverizers.

B. Fire Assay

XRAL fire assay facilities consist of 5 - 32 pot electric assay furnaces, four of which are used for the fusions with the other employed exclusively for cupellation work. This facility has a throughput capacity of 600 - 700 fusions per shift and is manned by a staff of 10.

The assay procedure follows the classical lines of the lead-silver collection. The flux used for this purpose is prepared from the highest purity reagents available, being comprised of the normal proportions of litharge, soda-ash, borax and silica. Adjustments to the flux to compensate for abnormal sulphide or carbonate content of samples are made at time of assay. For such samples a pilot assay is required which utilizes a small aliquot of sample and provides the information required to make these adjustments properly. This practice assures the best composition necessary for a good collection during the fusion.

To monitor the quality of flux and as part of general quality control the following procedures are followed:

1. For each tray of samples, two reagent blanks are prepared. One is run with the samples, the other is run with all other similar blanks at the end of the shift.

2. A standard reference sample doped with cobalt and copper is run with each tray. The position of this standard is varied systematically from one tray to the next. This serves as a check to identify each batch through to the final cupellation and as a monitor of the final measurement of gold content.

3. Every tenth sample is run in duplicate. The second run is made at a different time from the first.

4. A large number of blanks are run at renewal of reagents and with each new batch of flux.

The routine involves weighing of a 20 gram aliquot of sample on a top loader electronic balance to ± 0.01 grams tolerance. This is added to a 20 gram assay crucible which has been pre-charged with 85-90 grams of flux. A fixed amount of reducing agent is then added to ensure production of a 24-35 gram lead button during fusion. Finally for gold assays five milligrams of silver is added and the sample and flux are mixed together.

The fusion is carried out at an average temperature of about 980 degrees celsius for about 45 minutes. Melts are poured and when the slag has cooled the lead buttons are recovered, deslagged, and placed in preheated cupels in the cupellation furnace. Cupellation takes about 30 minutes and is carried out at about 900 degrees celsius. The silver bead recovered after cupellation can be treated in several ways to determine the gold content as indicated below.

1. Neutron activation analysis: This requires only an irradiation followed by measurement of the gold content by gamma spectrometry.

2. Plasma spectrometry: Requires digestion of the bead with aqua regia followed by measurement of the gold content in the solution.

3. For high grade samples the gold can be parted from the silver and weighed as per the classical technique.

Sensitivities of 1 and 2 are 1-2 ppb for a 20 gram sample. These analyses are carried up to about 10,000 ppb as a rule. Higher values are checked gravimetrically.

A regular systematic cross check of the three methods is carried out to maintain the integrity of the calibrations. (See attached table).

Atomic absorption is seldom used as the sensitivity is not quite adequate for the low levels required for geochemical applications.

Silver analyses follow the same path as gold samples except that the final measurement is always gravimetric.

Other elements analyzed by the lead collection method are platinum, palladium and rhodium.

In addition to the lead collection XRAL also employs a nickel sulphide collection technique which quantitatively collects the six platinum metals into a nickel sulphide button. The metals so collected are determined after separation from the nickel sulphide by neutron activation analysis.

We cordially invite you to visit and inspect our facilities at your convenience.

XRAL

Method Code 100-1: Whole Rock Analysis - XRF, fused button

A 1.3 gram sample, after roasting at 950 degrees for 1 hour, is fused with 5 grams of lithium tetraborate and the melt is cast into a 40 mm button.

The button is analyzed on a Philips PW1600 simultaneous x-ray fluorescence spectrometer. This system is calibrated using more than 40 reference materials, most of them being tabulated in Syd Abbey's "preferred" values compilation.*

Counting time on major elements is 90 seconds and each element is analyzed for through its own fixed channel. Trace elements in this package are run as counts are accumulating for the majors using a scanner.

L.O.I. is obtained from the roasting mentioned above. All elements determined are added and any samples with a sum of less than 98% or higher than 101% are automatically repeated. This gives us control over the button preparation. Instrument precision on most elements is better than 0.5%. Only on lower count rates would one experience errors of 1-2%.

*Geological Survey of Canada, Paper 80-14, Studies in "Standard Samples" for Use in the General Analysis of Silicate Rocks and Minerals, Part 6:1979 Edition of "Usuable" Values.

Notes:

1. Sums which are found to be less than 98%, are checked by running the WRA buffer on the PW1400 for Cu, Zn, Pb, Ni, U, Mo & As.

2. Calibrations are also set up for 0.65g and 0.13g sample size which results in lower precision and accuracy.

91jan9pb.001

XRAL **X-Ray Assay Laboratories**
A Division of SGS Supervision Services Inc.

Acid Extraction, determination by ICP Spectroscopy - 36 elements

Description:

A quarter gram sample is digested with 2 ml of nitric acid for one half hour in a water bath, then 1 ml of hydrochloric acid is added and the digestion continues for another 2 hours. Test tubes are shaken at regular intervals.

In house standards and previously analysed samples are run to monitor proper digestion procedures. Synthetic standards are used to calibrate the instrument.

Limitations:

The nitric aqua regia extraction will not completely extract difficultly soluble elements such as Ba,Cr,Sb,Sn,Ta,W,V and Zr. The multi-acid extraction (Method code 80-1) will ensure better extraction, though some refractory minerals may remain incompletely attacked. Volatile elements such as As may be lost from solution in the multi-acid attack.

Elements:

Al	0.01%	Fe	0.01%	Na	0.01%
Sb	5ppm	Pb	2ppm	Sr	.5ppm
As	5ppm	Li	1ppm	Ag	.1ppm
Ba	1ppm	Mg	.01%	Sn	10ppm
Be	.5ppm	Mn	.01%	Ti	.01%
Bi	3ppm	Mo	1ppm	W	10ppm
Cd	1ppm	Ni	1ppm	V	2ppm
Ca	.01%	P	.01%	Y	.1ppm
Cr	1ppm	K	.01%	Zr	.5ppm
Co	1ppm	Sc	.5ppm	Zn	.5ppm
Cu	.5ppm				

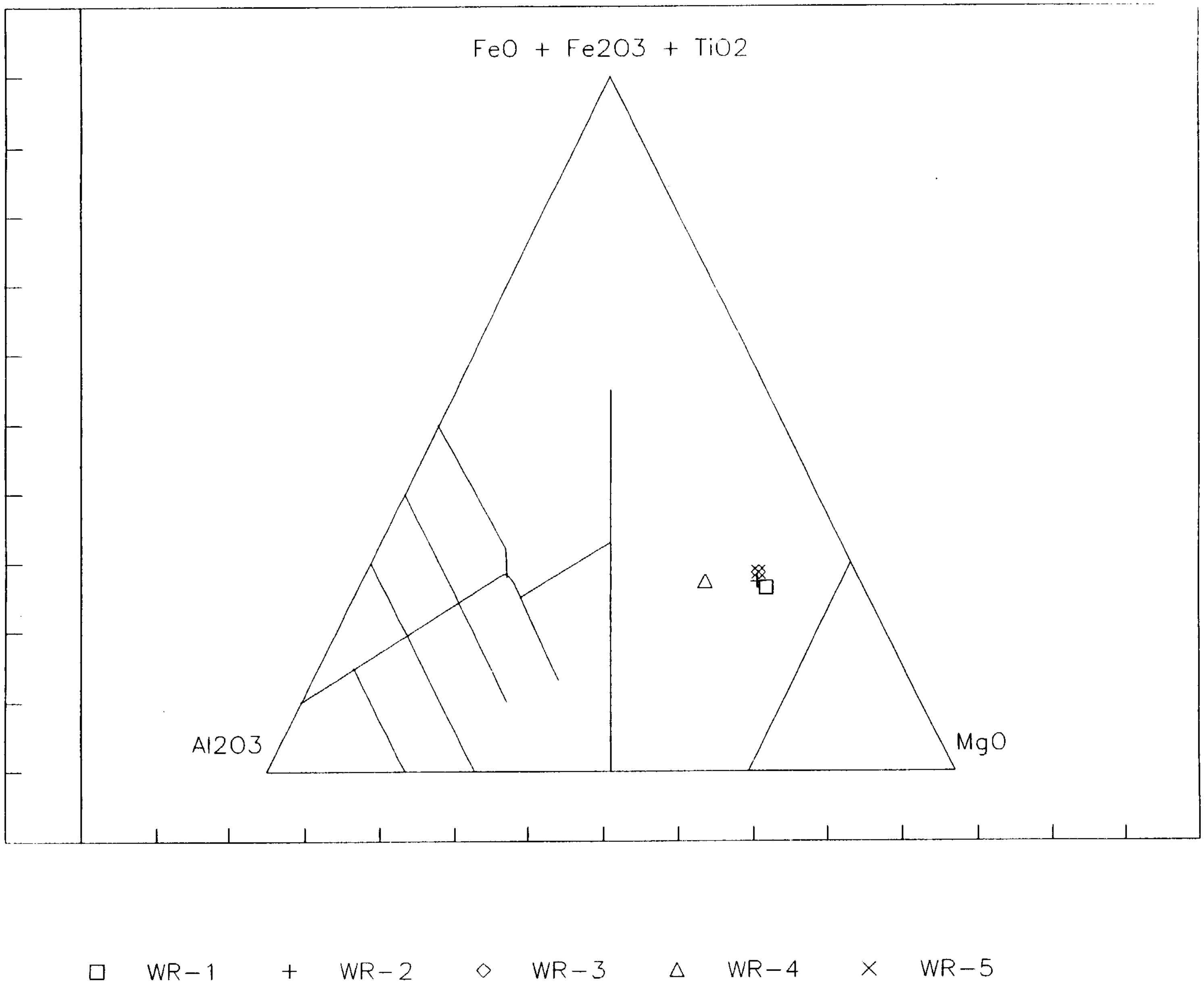
Prepared by	Approved by	Date

APPENDIX 3

JENSEN CATION PLOTS

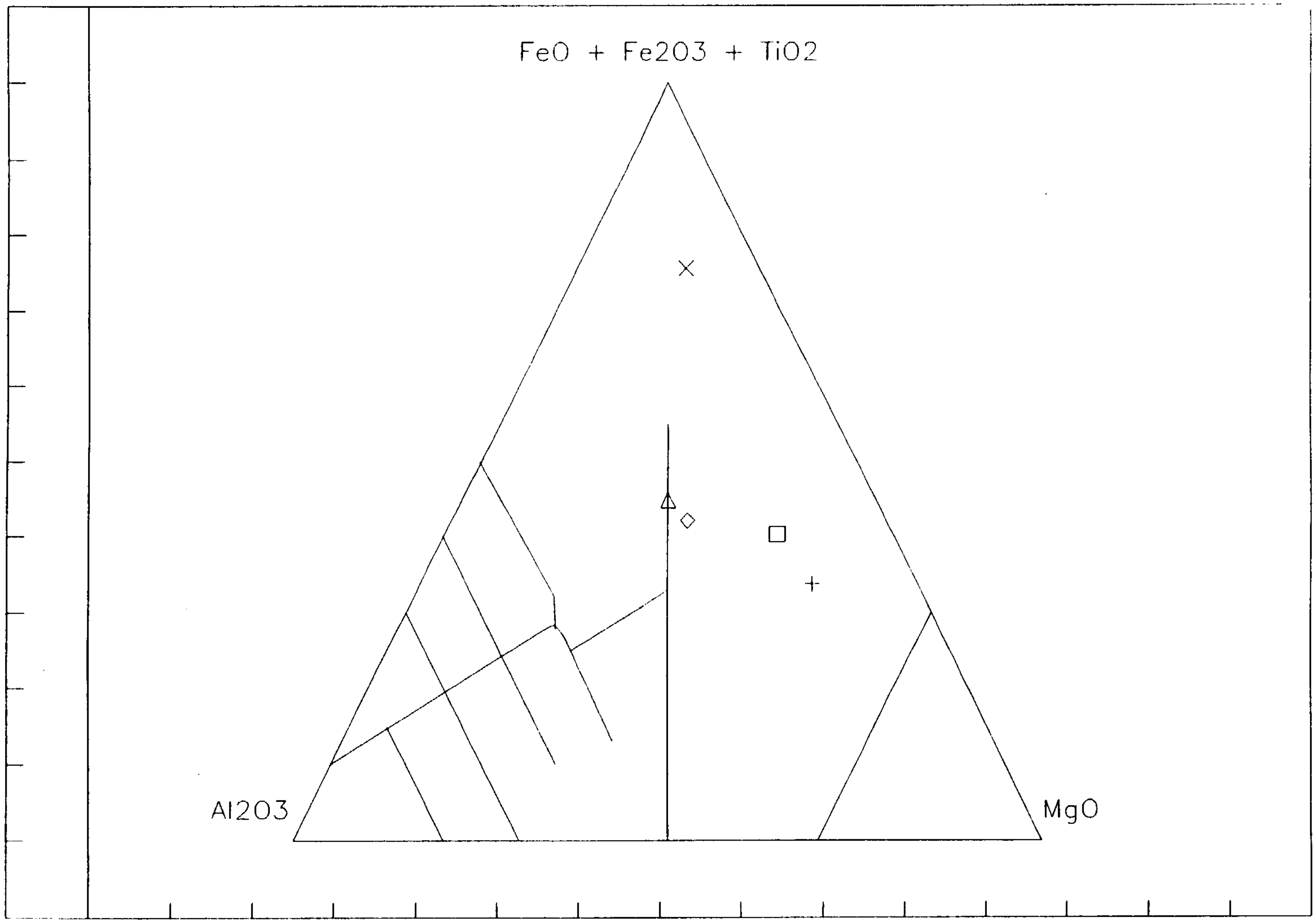
Volcanic Rocks: Jensen Cation Plot

Jensen, 1976



Volcanic Rocks: Jensen Cation Plot

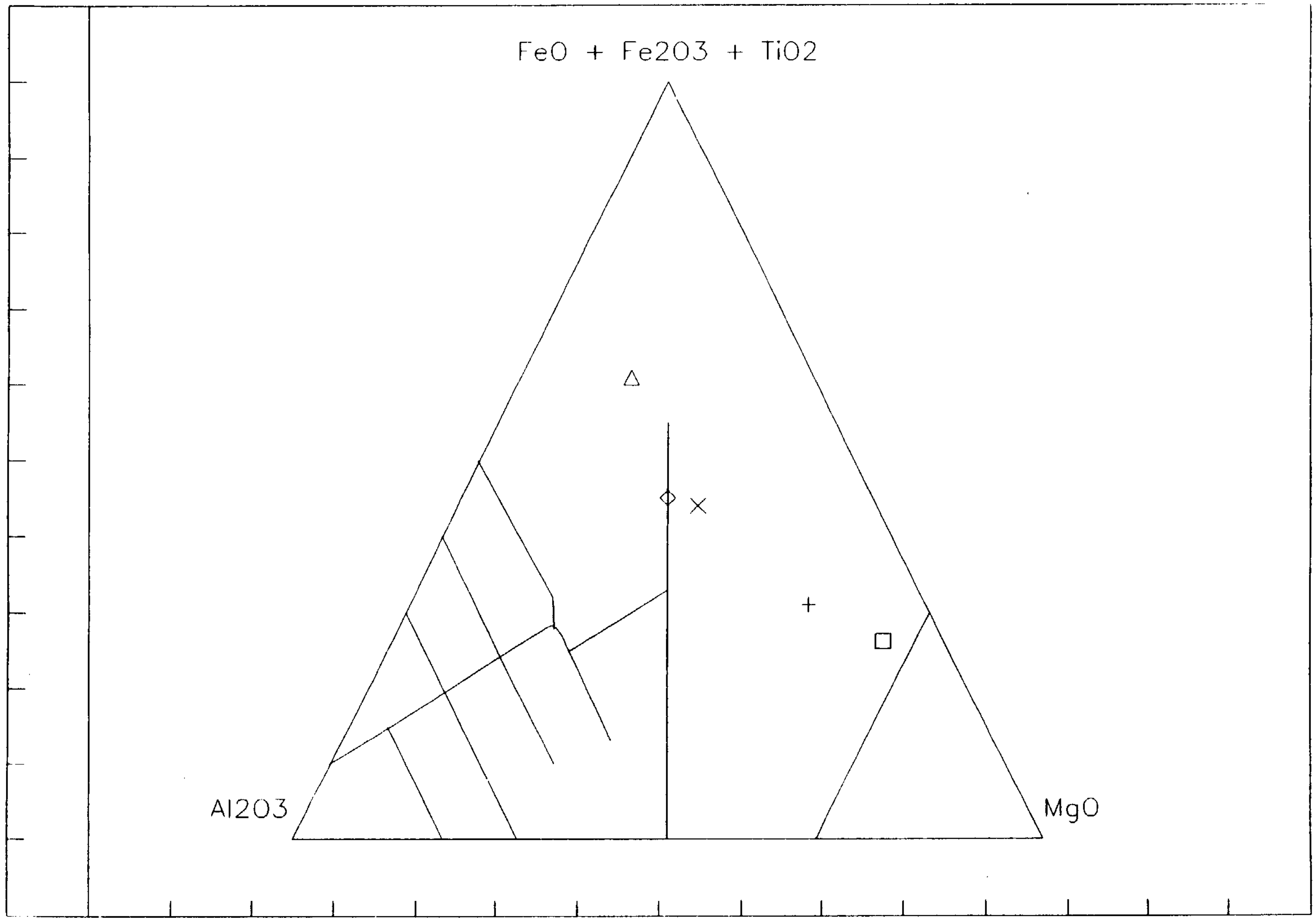
Jensen, 1976



□ WR-6 + WR-7 ◇ WR-8 △ WR-9 × WR-10

Volcanic Rocks: Jensen Cation Plot

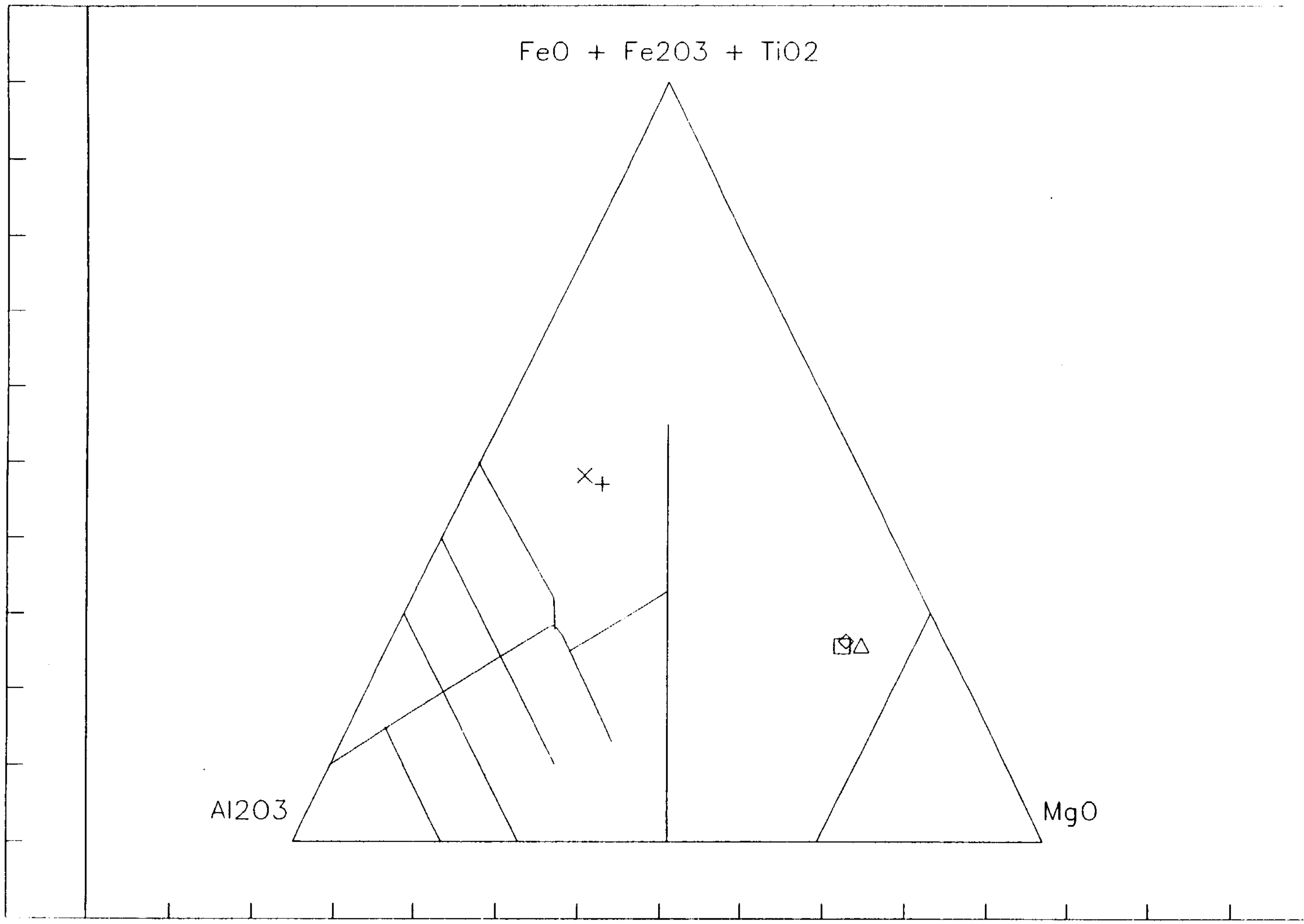
Jensen, 1976



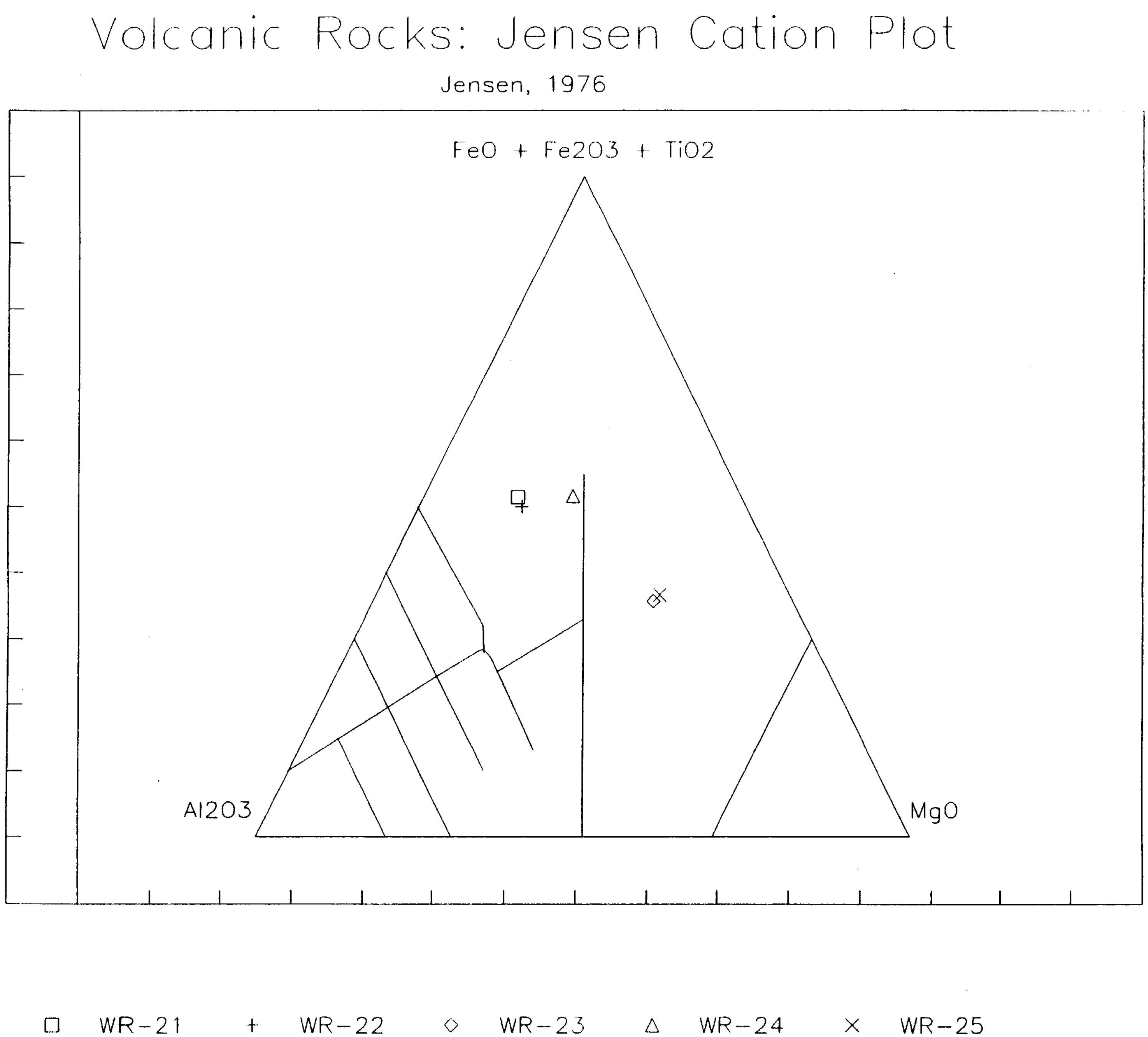
□ WR-11 + WR-12 ◇ WR-13 △ WR-14 × WR-15

Volcanic Rocks: Jensen Cation Plot

Jensen, 1976



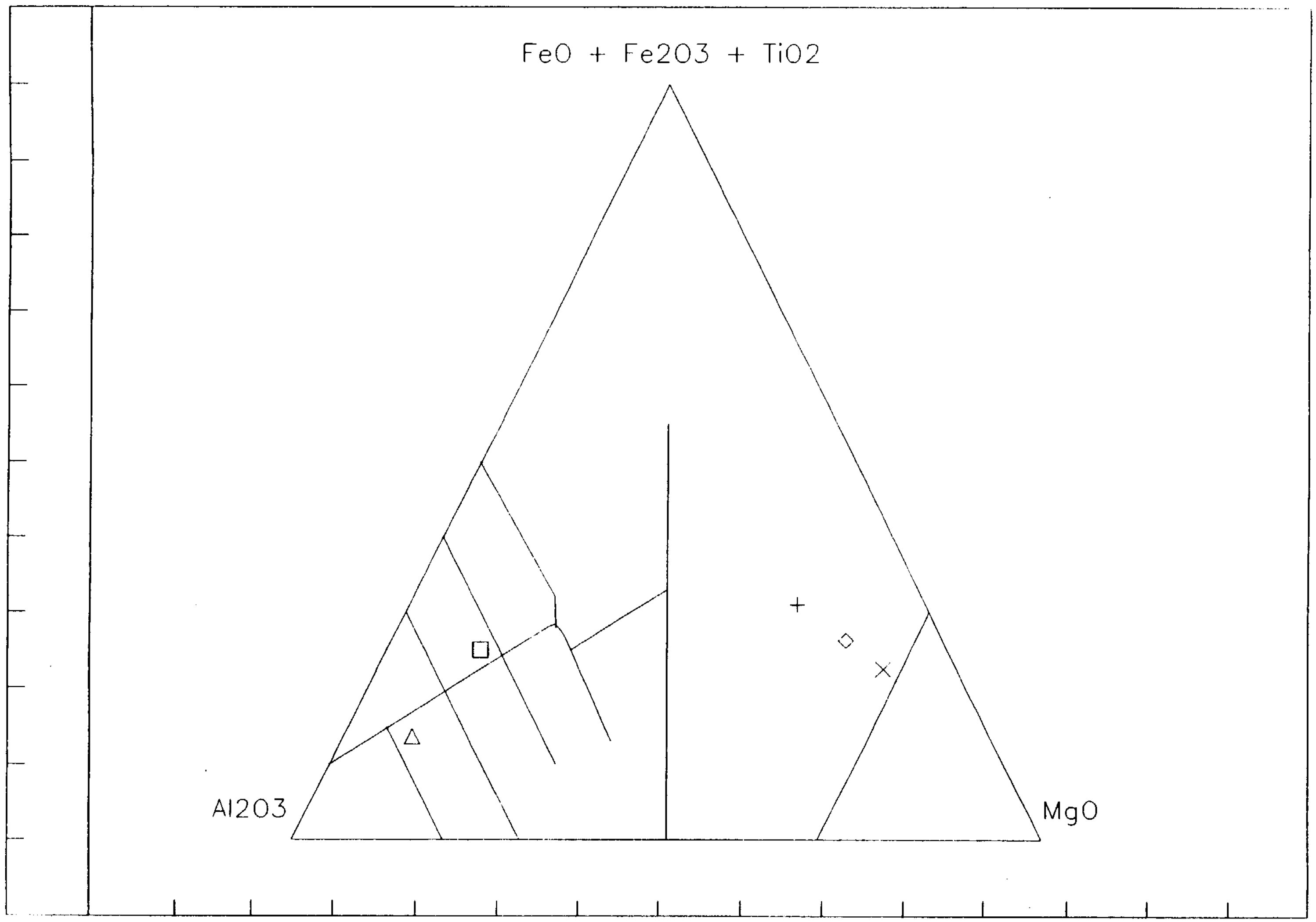
□ WR-16 + WR-17 ◇ WR-18 △ WR-19 × WR-20



Volcanic Rocks: Jensen Cation Plot
Jensen, 1976
FeO + Fe2O3 + TiO2
Al2O3
MgO
WR-21
WR-22
WR-23
WR-24
WR-25

Volcanic Rocks: Jensen Cation Plot

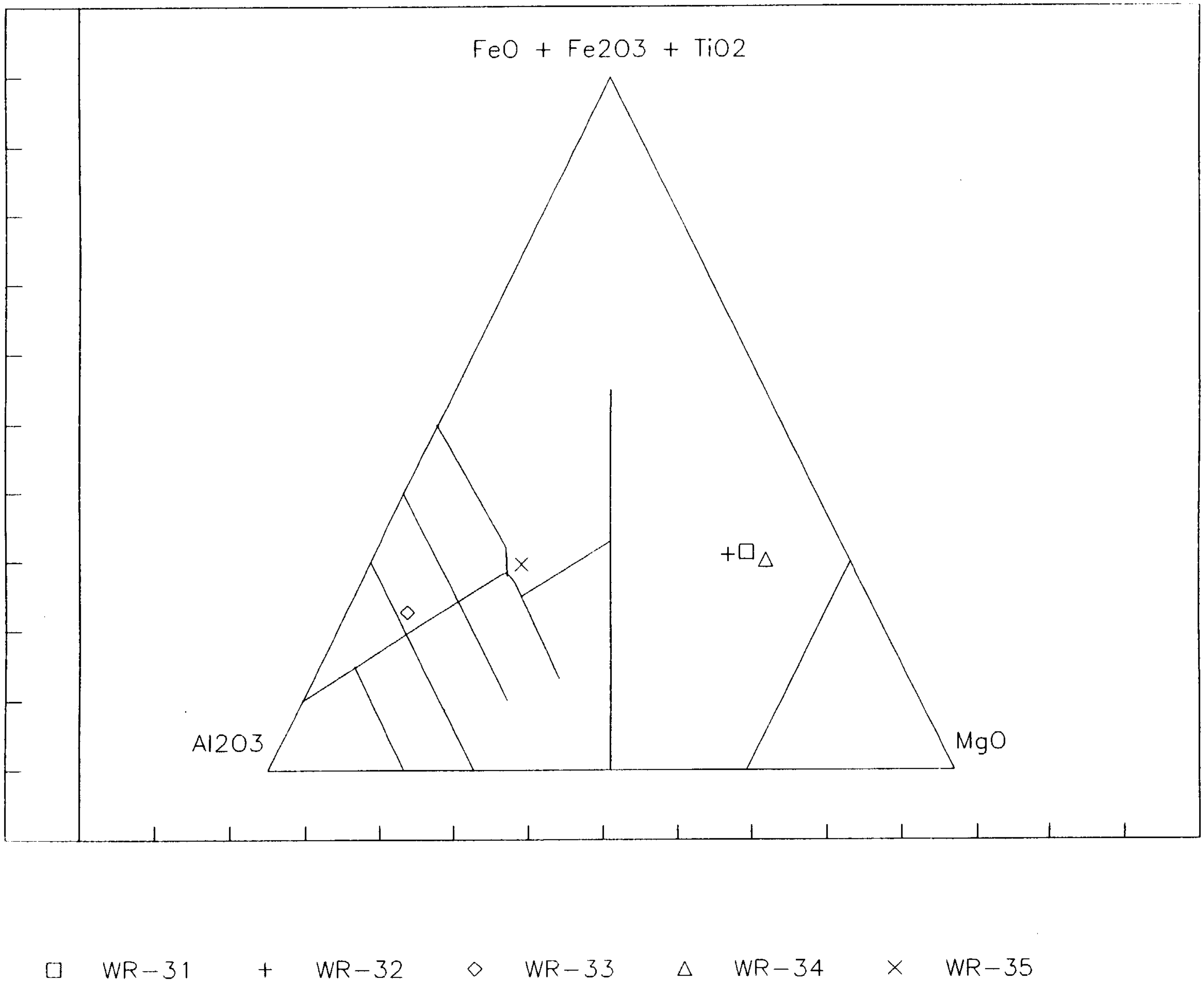
Jensen, 1976



□ WR−26 + WR−27 ◇ WR−28 △ WR−29 × WR−30

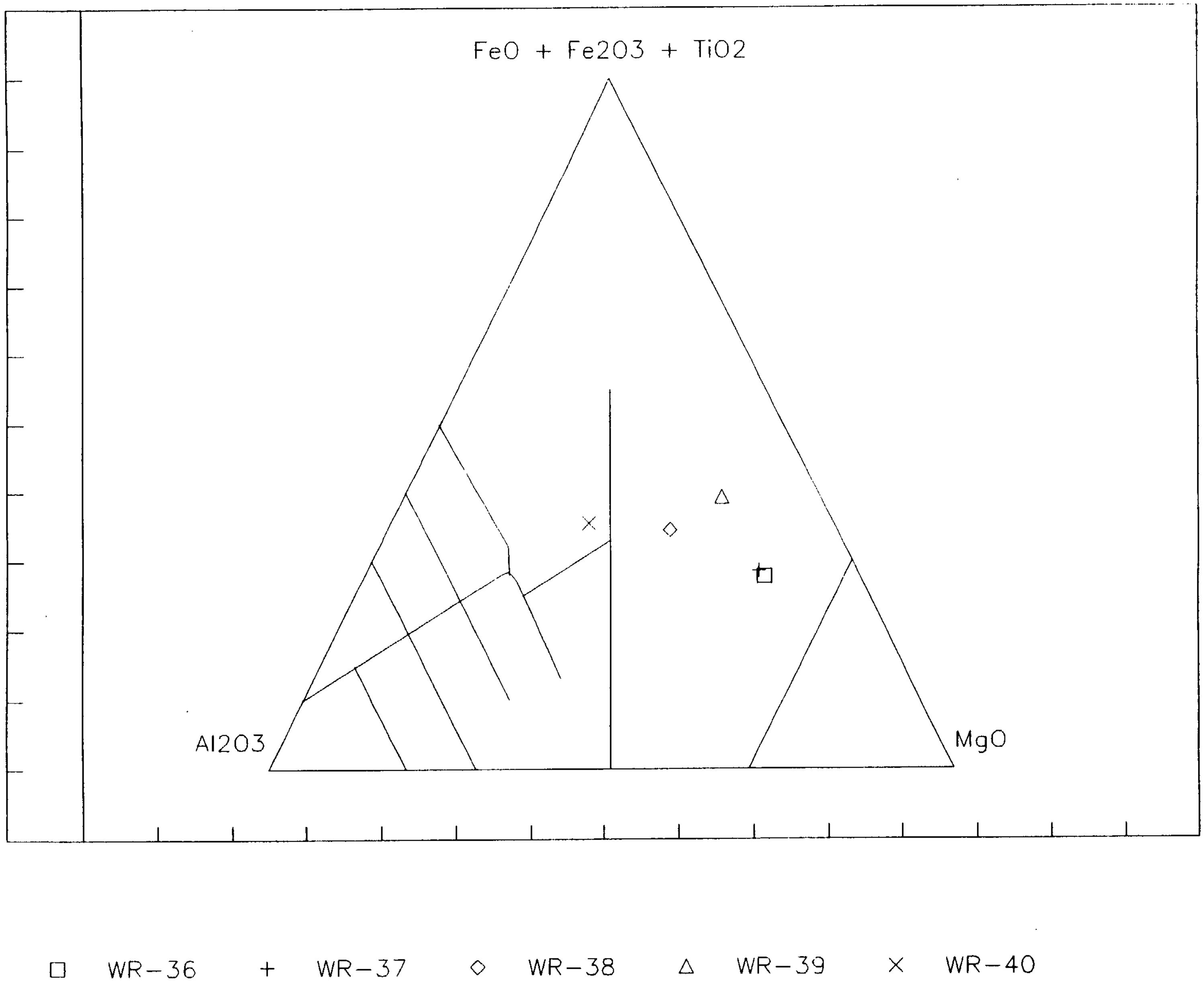
Volcanic Rocks: Jensen Cation Plot

Jensen, 1976



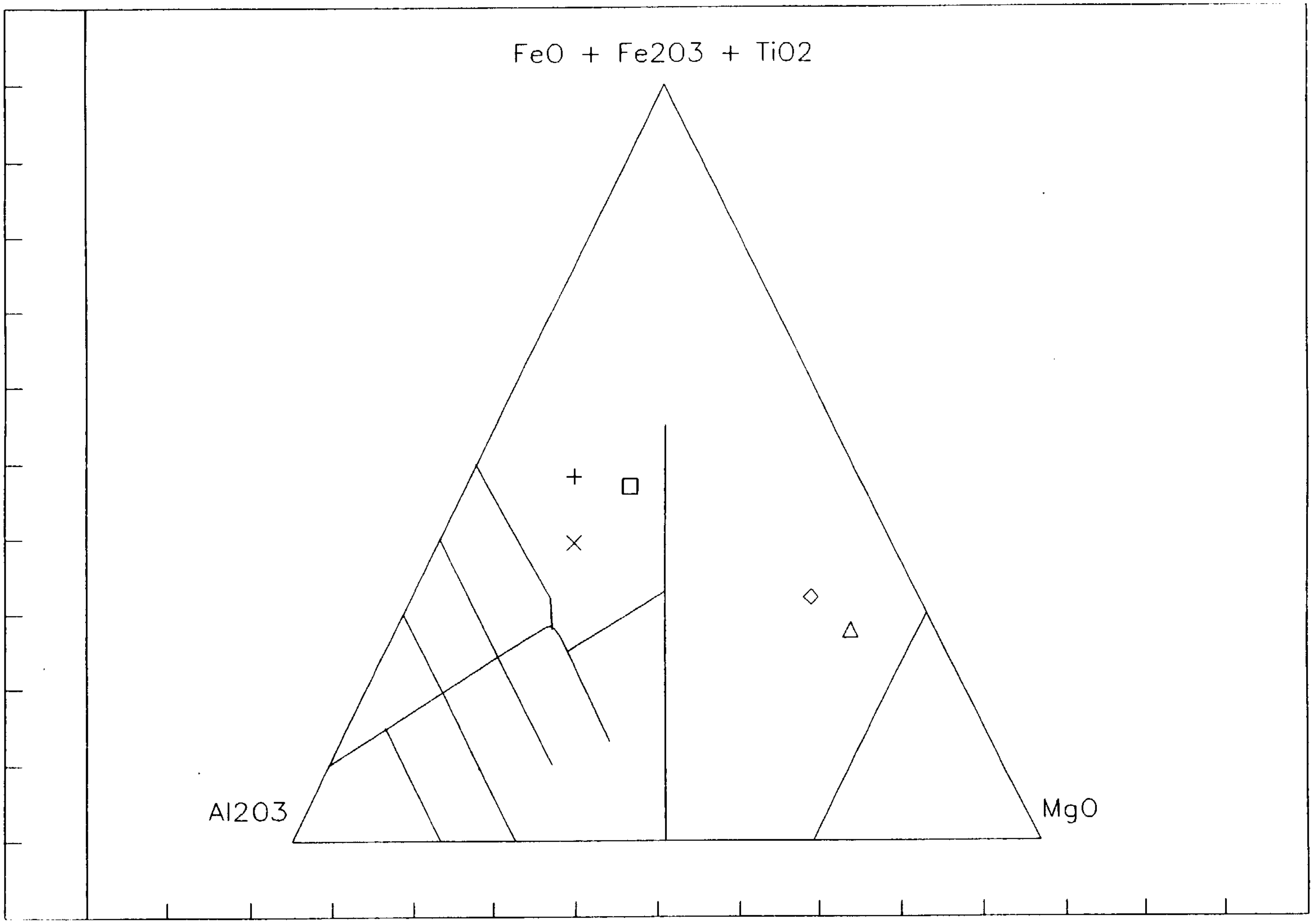
Volcanic Rocks: Jensen Cation Plot

Jensen, 1976



Volcanic Rocks: Jensen Cation Plot

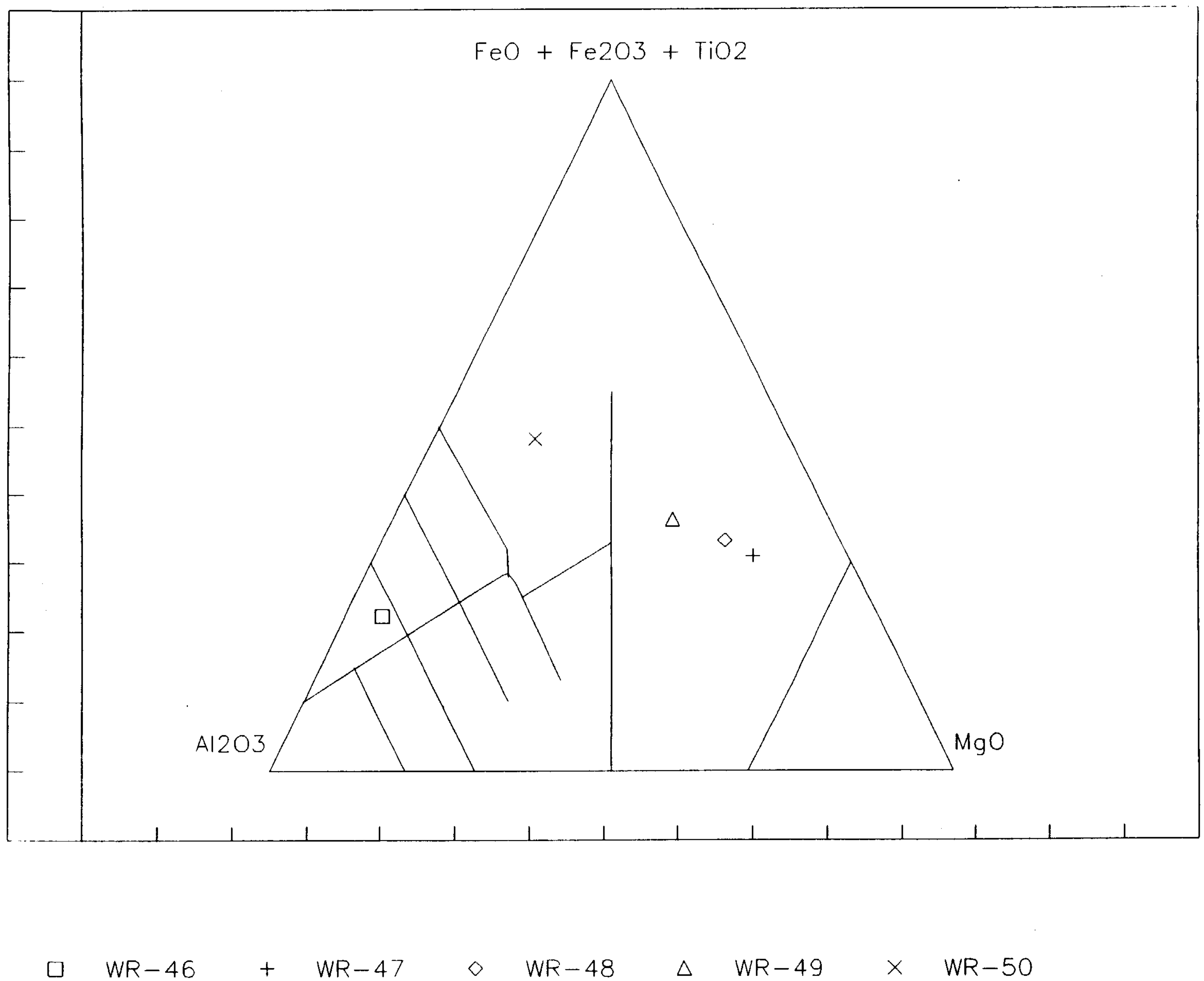
Jensen, 1976



□ WR-41 + WR-42 ◇ WR-43 △ WR-44 × WR-45

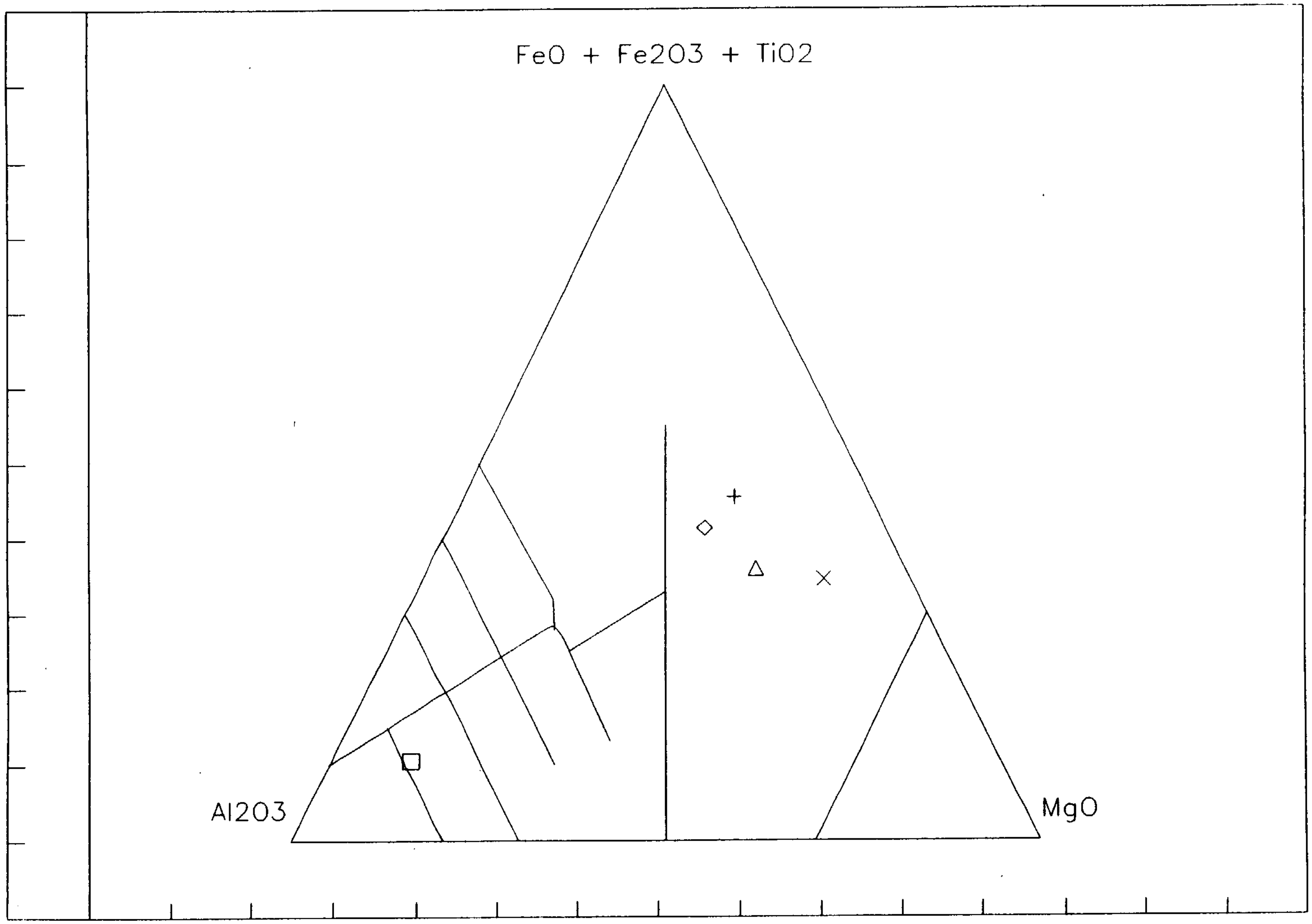
Volcanic Rocks: Jensen Cation Plot

Jensen, 1976



Volcanic Rocks: Jensen Cation Plot

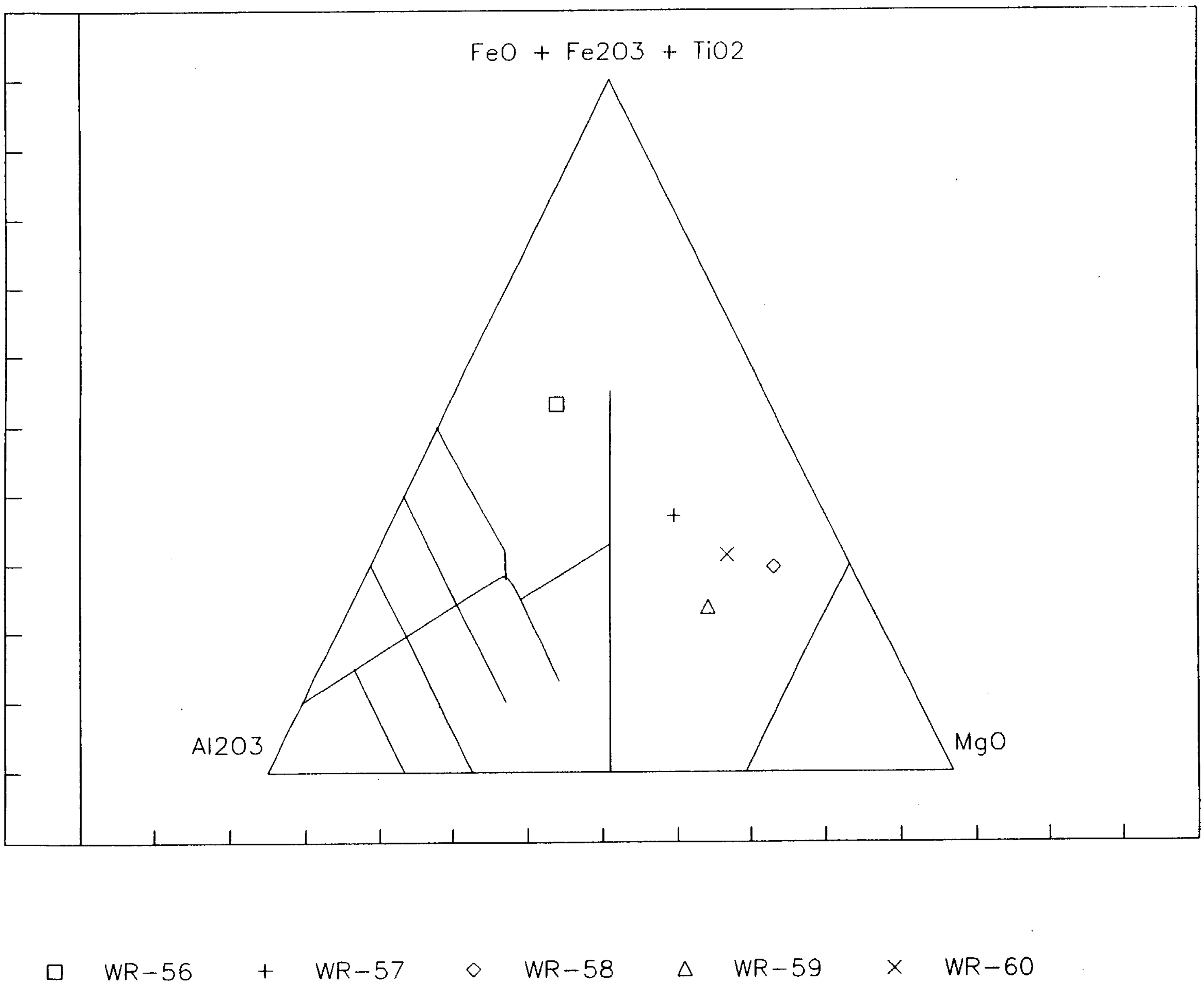
Jensen, 1976



□ WR-51 + WR-52 ◇ WR-53 △ WR-54 × WR-55

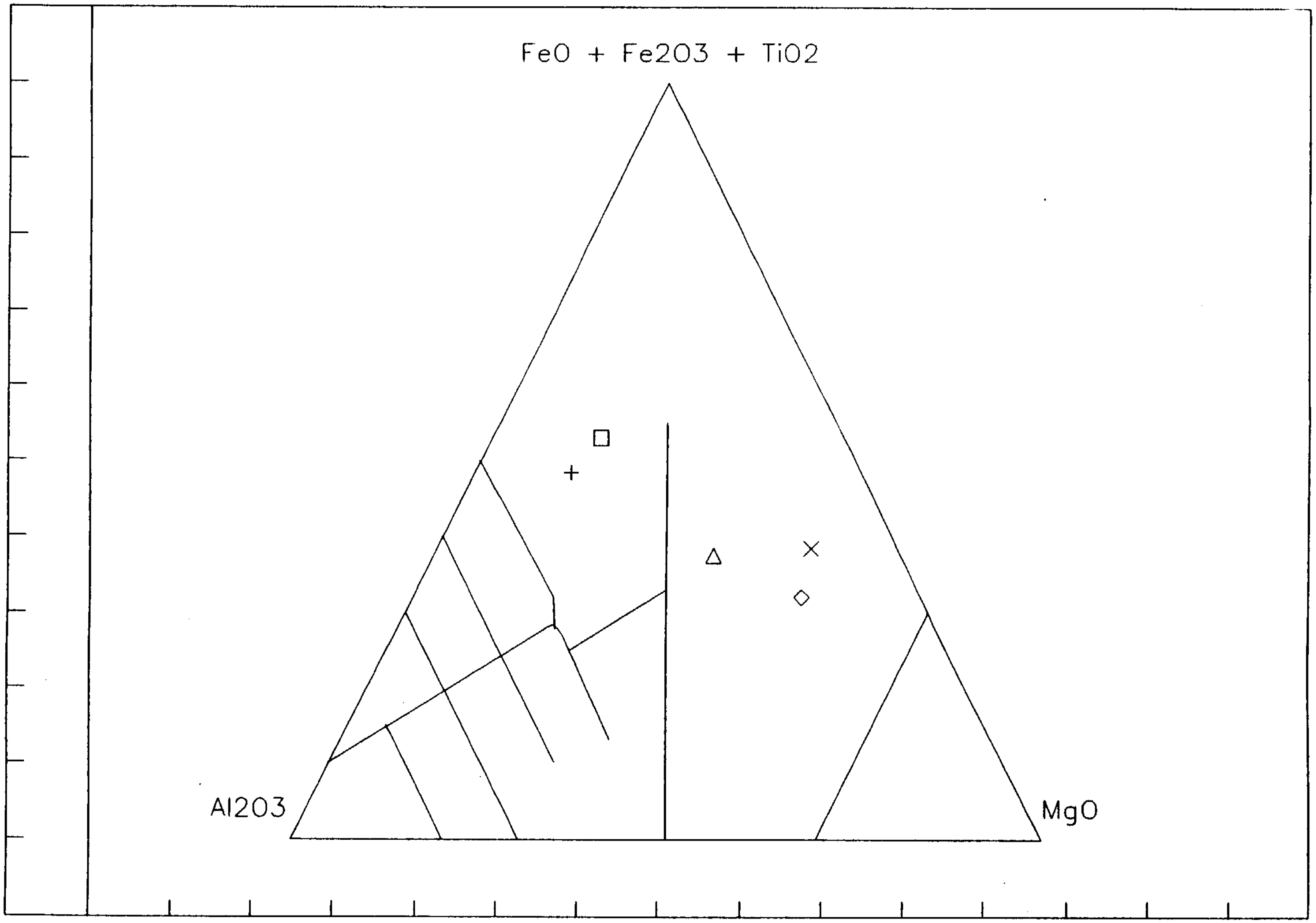
Volcanic Rocks: Jensen Cation Plot

Jensen, 1976



Volcanic Rocks: Jensen Cation Plot

Jensen, 1976



□ WR-61 + WR-62 ◇ WR-63 △ WR-64 × WR-65

APPENDIX 4

M.V.W. WHITE & ASSOCIATES LTD. - THIN SECTION REPORT

M.V.W. WHITE & ASSOCIATES LTD.

P.O. Box 12
Kearney, Ontario, Canada
POA 1MO

Fax-Phone 705-636-5478

August 11, 1992

Cyprus Canada Inc.
66 Bruce Avenue
Box 1120
South Porcupine, Ontario
PON 1HO

Att: Steve Parry - Dave Stevenson

Dear Steve and Dave:

Please find attached my report of the nine polished thin sections and rocks submitted for petrology by your company. The tables and photographs submitted earlier should be added as the Appendix.

The most notable feature of these sections is the degree of deformation to which the rock has been subjected. This varies from fracturing and veining in less deformed rocks to a strongly foliated character in the highly deformed (mylonitized) samples.

All samples but 4 and 10 are highly deformed with 6 and 8 showing the most intense deformation. Up to three phases of deformation are evident; that occured after carbonatization of the rocks.
Mineral segregation is marked generally as separation and recrystallization of quartzo-feldspathics into fine grained (cherty) patches and the formation of chlorite-talc laminae.
Cherty (mylonite?) sections occur as ragged bands, patches and lenses. Rotational textures were also observed.
Within the green carbonate rocks, green mica appears within the carbonate sections, mainly controlled by deformational foliations. These foliations do not cross into the recrystallized quartz rich section suggesting mica formation (K_2O enrichment) is an earlier phase, but later than the carbonatization.
Fe oxides and sulphides occur throughout all sections suggesting these have been formed and remobilized at all stages of rock development.

The following paragenesis is suggested:
(1) Carbonatization of ultramafics.
(2) Addition of K_2O - mica development.
(3) Chlorite-talc development.
(4) Mineral segregation due to latest deformational activity, mobilization of sulphides, Fe oxides.

Structure probably plays a very important part in the distribution of Au mineralization, perhaps more than the alteration. Mineral segregations are structurally controlled and should be chemically different. This may account for some local chemical differences that should not be attributed to alteration.

A structural study should accompany your alteration study, taking into account different directions and degree of mineral segregation and remobilization.

If you have any questions, please call.

Sincerely,

Michael V.W. White

MVWW/hrch
Encl.

Sample # WR-1
Section # S01-1

Summary:
This is a highly deformed green carbonate rock showing no original mineralogy of texture. Secondary minerals especially quartz have been deformed and recrystallized. Talc and green mica appear as replacement products.

Mineralogy:

Carbonate *:
Carbonate varies from 50-90% of the rock and is intergrown with quartz. Proportions of quartz vary considerably through the section.

Quartz:
Quartz varies from 10-50% and comprises both small and ragged large grains. Small grains are recrystallized from the large grains as a result of deformation. Fracturing and strain extinction is common.

Talc:
Talc varies from 5-10% it occurs as a flakely mineral with low order interference colours. It appears predominantly as fracture fillings and may or may not be associated with mica.

Green Mica (Sericite):
This comprises 2-5% of the rock and occurs as small pale green to colourless flakes with high interference colours. It is intergrown with talc, quartz and carbonate and also occurs as fracture fillings.

Opaques:
Opaques comprise 1-5% of the rock and appear primarily as hematite (white in reflected light) (once magnetite?), minor magnetite and pyrite. Hematite is common outlined by cleavage and crystal structure of the carbonate.

Rock Origin:
Based on chemistry this rock was originally an ultramafic. Over 1% K2O has been added. No original texture or mineralogy is preserved.

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* Carbonate type cannot be determined without staining: this is better done on hand specimens. Ankerite and dolomite are the most likely forms. Calcite generally occurs in veinlets.

Sample # WR-2
Section # S01-2

Summary:
This is again a highly deformed carbonate rich rock. Fractures and deformation planes are filled with talc-chlorite and carbonate. The quartzo-feldspathics are recrystallized. The rock contains talc-chlorite rich and carbonate rich sections.

Mineralogy:

Carbonate:
Carbonate varies from 80-90% in carbonate rich zones to 10-20% in chlorite-talc rich zones. Carbonate grains are generally fractured and broken. Several fracture directions are evident.

Quartzo-Feldspathics:
Quartz and feldspar is generally fine grained and scattered through the rock. It comprises from 5-10% of the rock. Locally elongate patches of recrystallized material are observed.

Chlorite & Talc:
Chlorite and talc occur in relatively equal proportions and total from 20-25%: chlorite is distinguished by a greenish tinge in plain light and higher interference colours. Talc is generally colourless.
Talc chlorite rich sections contain about 90% chlorite-talc while carbonate rich sections contain up to 5% generally in fractures.

Opaques:
Minor opaques (1-2%) occur generally as individual grains associated with the talc-chlorite minerals. They generally comprise magnetite, pyrite and hematite.

Rock Origin:
No original minerals or textures are preserved. Deformation is marked. Chemistry suggests the rock was originally an ultramafic.
No significant chemical gains or losses are evident.
At least 2 deformational directions are evident in the section.

Sample # WR-3
Section # S01-3

Summary:
This rock is very similar to WR2 though chlorite seems to predominate over talc. Chlorite rich bands are deformationally controlled and are commonly folded. Opaques appear to be fracture controlled and deformation is more intense.

Mineralogy:

Carbonate:
Carbonate varies from 80-90% in carbonate rich zones to 10-20% in chlorite-talc rich zones. Carbonate grains are generally fractured and broken. Several fracture directions are evident.

Quartzo-Feldspathics:
Quartz and feldspar is generally fine grained and scattered through the rock. It comprises from 5-10% of the rock. Locally elongate patches of recrystallized material are observed.

Chlorite & Talc:
Chlorite and talc total from 15-20%: chlorite is distinguished by a greenish tinge in plain light and higher interference colours. Talc is generally colourless and comprises up to 5%.
Talc chlorite rich sections contain about 90% chlorite-talc while carbonate rich sections contain up to 5% generally in fractures.

Opaques:
Minor opaques (1-2%) occur generally as individual grains associated with the talc-chlorite minerals. They generally comprise magnetite and hematite.

Rock Origin:
No original minerals or textures are preserved. Deformation is marked. Chemistry suggest the rock was originally an ultramafic. No significant chemical gains or losses are evident.
At least 2 deformational directions are evident in the section and microfolding is evident.

Sample # WR-4
Section # S01-4

Summary:
Generally uniform textured carbonate rich rock with 5-10% green mica. A quartz-calcite veinlet disects the thin section.

Mineralogy:

Carbonate:
Carbonate comprises 85-90% of the rock. Grains are medium to fine with some recrystallization evident.

Quartzo-Feldspathics:
Quartz-feldspar comprises 5-10% of the rock; it is interstitial to the carbonate and occurs as fine grains. Locally coarser recrystallized patches are evident.

Micas:
Sericite and or pale green mica comprises 5-10% of the rock and is generally distributed evenly through it.

Rock Origin:
Chemically this rock is of ultramafic origin. Approximately 1% K2O enrichment is evident. No original mineralogy is preserved.

Sample #WR-05
Section # S01-5

Summary:
Highly deformed rock comprising carbonate, quartz-feldspar and talc-chlorite. Talc predominates over chlorite and is associated with quartz rich sections. The rock is generally segregated into carbonate rich and carbonate poor sections. The rock is similar to sections 2 and 3.

Mineralogy:

Carbonate:
Carbonate occurs and ragged grains and recrystallized patches and occupies 20-30% of the rock. Carbonate rich portions contain about 90% carbonate.

Quartzo-feldspathics:
Quartz and feldspar occupy about 10% of the carbonate rich sections and 40-50% of the talc chlorite patches and bands. It occurs as ragged intergrown medium grained portions that are locally cherty and very fine grained.

Talc-Chlorite:
Talc predominates after chlorite and occupies 25-30% of the rock. (up to 10% chlorite). It occurs as bands, lenses and fracture fillings.

Opaques:
Opaques constitute 5-7% of the rock. They occur as magnetite and pyrite as discrete randomly distributed grains and fine hematite associated with talc-chlorite.

Rock Origin:
No original mineralogy or textures preserved. Strong deformational texture is marked. Chemistry indicates an ultramafic precursor. Several deformational directions are preserved. Though most of the talc-chlorite outlines the most prominant direction.

Sample # WR-6
Section # S01-6

Summary:
Finely laminated rock comprising alternate carbonate rich and chlorite rich bands. Chlorite laminae are associated with abundant cherty (fine recrystallized quartz-feldspar) sections. Cherty sections also occur as augens and irregular patches within more carbonate rich areas.

Mineralogy:

Carbonate:
Carbonate occupies from 50-60% of the rock. Carbonate bands contain up to 90% carbonate. Cherty-chlorite rich zones contain up to 10%. A calcite-quartz veinlet cuts the section.

Quartz (Chert)+ Feldspar:
This occupies from 10-30% of the rock though local areas have 90-100%. Quartzo-feldspathics are very fine grained and occur as lenses, foliations and irregular patches. The origin of this texture is likely deformational (mylonite?).

Chlorite + Talc:
Chlorite occupies 20-30% of the rock: it occurs in subparallel laminations and in fractures. Rotational textures are also common. Chlorite is generally pale green to colourless with brownish to blue interference colours. The colourless variety (up to 5%) is intergrown with the other chlorite and may be talc? (1st order interference colours and irregular orientation).

Opaques:
Opaques occupy 1-5% of the rock and are predominantly associated with chlorite. Hematite is the most common with minor pyrite and magnetite.

Rock Origin:
This is a highly deformed rock. Deformation planes control the development of chlorite and the development of mylonite-chert. Secondary or tertiary deformation has formed rotational textures and cherty augens. Chemically this rock is ultramafic showing some loss of MgO. Laminations and mineral segregation is the result of deformation.

Sample # WR-7
Section # S01-7

Summary:
This is again a highly deformed rock consisting of carbonate rich and fine crystalline quartz-quartz-feldspar patches and lenses. Green mica occurs associated with the carbonate rich areas within subparallel foliations.

Mineralogy:

Carbonate:
Carbonate total 45-50% of the rock though carbonate rich areas contain up to 90% carbonate while quartz rich sections may contain up to 10% carbonate.

Quartzo-Feldspathics:
This occurs as very fine recrystallized material (mylonite, chert?). It occupies up to 90% of the quartz rich sections and up to 5% of the carbonate rich areas.

Green Mica:
This mineral is pale green and occupies 5-8% of the rock. It occurs entirely with subparallel foliations in the carbonate rich areas. Suggesting it is earlier than the "cherty" patches.

Opaques:
Opaques occupy 1-3% of the rock and occur as fine grains associated with green mica. Minor leucoxene (1%) is also present.

Rock Origin:
Chemically this rock was probably an ultramafic though deformation is marked and has resulted in mineral segregation (mylonitization?) and local chemical variations? Addition of CaO and minor K2O is evident. Three fracture directions are evident with carbonate remobilized along all three.

Sample # WR-8
Section # S01-8

Summary:
This rock is very similar to WR-6. Chlorite-quartzo-feldspathic bands (cherty) alternate with carbonate bands. Chlorite and cherty material are controlled by deformation planes. Abundant fine opaques (hematite) are associated with the chlorite foliations.

Mineralogy:

Carbonate:
Carbonate occupies from 45-55% of the rock. Carbonate bands contain up to 90% carbonate. Cherty-chlorite rich zones contain up to 10%. A calcite-quartz veinlet cuts the section.

Quartz (Chert)+ Feldspar:
This occupies from 10-30% of the rock though local areas have 90-100%. Quartzo-feldspathics are very fine grained and occur as lenses, foliations and irregular patches. The origin of this texture is likely deformational (mylonite?).

Chlorite + Talc:
Chlorite occupies 30-40% of the rock: it occurs in subparallel laminations and in fractures. Rotational textures are common. Chlorite is generally pale green to colourless with brownish to blue interference colours. The colourless variety (up to 5%) is intergrown with the other chlorite and may be talc? (1st order interference colours and irregular orientation).

Opaques:
Opaques occupy 1-10% of the rock and are predominantly associated with chlorite. Hematite is the most common with minor pyrite and magnetite. Minor leucoxene is also present.

Rock Origin:
This is a highly deformed rock. Deformation planes control the development of chlorite and the development of mylonite-chert. Secondary or tertiary deformation has formed rotational textures and cherty augens. Chemically this rock is ultramafic showing loss of MgO. Laminations and mineral segregation are common. Mineral segregation may have caused chemical difference from similar rocks.

Sample #WR-10
Section # S01-10

Summary:
This rock consists of uniform intergrown carbonate and quartz-feldspar of medium to fine grain size. Deformation is less marked that is previous sections. Fine Fe oxides are pervasive through the rock and along fractures.

Mineralogy:

Carbonate:
Carboante occupies 45-50% of the rock and occurs as ragged medium size grains of generally uniform size.

Quartzo-Feldspathics:
Fine grained quartz-feldspar occurs interstially to carbonate and makes up about 40% of the rock.

Opaques:
Fine hematite (10%) occurs as a dusting within the carbonate and along subparallel foliations. Minor euhedral pyrite (<1%) occurs randomly through the section.

Rock Origin:
Based on chemistry this rock (low Al2O3) may have been an Fe rich magmatic segregation of an ultramafic or an Fe rich carbonate, hematite/or magnetite sediment. As sedimentary textures are generally lacking the former is more likely. The present hematite content is derived from magnetite formed during the breakdown of olivine or pyroxene in the ultramafic precursor?.

APPENDIX 5

OMIP GRANT APPLICATION AND COST SUMMARY TO JULY 31, 1992

Ministry of Northern Development and Mines
Ministère du Développement du Nord et des Mines
Ontario

Ontario Mineral Incentive Program
Programme ontarien d'encouragement à l'exploration minière

Application for Grant
Demande de subvention

OMIP Designation No./N° d'enregistrement au POEE: 0M92-101

Date of Application/Date de la demande: February 18, 1992

Project in Selected Area/Projet dans une région désign[ée]: [X] Yes/Oui [ ] No/Non

Personal information collected on this form is obtained under the authority of the Ontario Mineral Exploration Act, 1989, sections 2, 3 and 4, and the Ontario Mineral Incentive Program Regulation, sections 4, 5 and 6. The financial and technical information will be used for the purpose of determining the eligibility of the applicant to have a program designated for financial assistance and the amount of such assistance. Other information, such as statistical information about the individual projects will be used to determine the overall effectiveness of the program. It may be disclosed for those purposes and I consent to its disclosure for such purposes. Questions about this collection should be directed to Supervisor, Incentives Office, Mineral Development and Rehabilitation Branch, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7271, toll free 1-800-465-3880.

Les renseignements personnels recueillis sur la présente formule sont demand[és] en vertu de la Loi de 1989 sur le Programme d'exploration minière de l'Ontario, artic[les] 2, 3 et 4, et du Règlement concernant le Programme ontarien d'encouragemen[t à] l'exploration minière, articles 4, 5 et 6. Les renseignements financiers et techniqu[es] serviront à établir l'admissibilité d'un programme du demandeur à l'enregistreme[nt] à titre de programme désigné en vue d'obtenir une aide financière, et à fixer le mont[ant] de cette aide. En outre, certains renseignements, tels que des données statistiqu[es] relatives aux projets individuels, serviront à déterminer l'efficacité globale [du] programme. Les renseignements fournis pourront être divulgués à ces fins et [je] consens à telle divulgation. Pour toutes questions relatives aux renseigneme[nts] recueillis, on est prié de s'adresser au superviseur, Bureau des primes, Direct[ion] de l'exploitation des minéraux et de la réhabilitation, Ministère du Développem[ent] du Nord et des Mines, 4e étage, 159, rue Cedar, Sudbury (Ontario) P3E 6A5, téléph[one] (705) 670-7271, sans frais 1-800-465-3880.

Instructions: Please type or print and submit completed forms to:
Incentives Office
Ministry of Northern Development and Mines
4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5

Instructions : Veuillez remplir à la machine à écrire ou en lettres d'imprime[rie] et envoyer la formule au : **Bureau des primes**
Ministère du Développement du Nord et des Mines
159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5

Applicant's Identification and Location/Nom et adresse du demandeur

Name/Nom: Cyprus Canada Inc.
Telephone/Téléphone: 705-235-5800
Address - Street Number and Name, Apt. No., R.R. No./Adresse - Rue, App., R.R.: 66 Bruce Ave., P.O. Box 1120
City, Town, Village/Localité: South Porcupine
Province: Ontario
Postal Code/Code postal: PON 1HO

Head Office Location/Siège social

Address - Street Number and Name/Adresse - Rue: #1810 - 1055 West Hastings St.,
Telephone/Téléphone: 604-685-6867
City, Town, Village/Localité: Vancouver
Province: British Columbia
Postal Code/Code postal: V6E 2E9

Mailing Address (if different from above)/Adresse postale (si elle diffère de l'adresse ci-dessus)

Address - Street Number and Name/Adresse - Rue:
Telephone/Téléphone:
City, Town, Village/Localité:
Province:
Postal Code/Code postal:

Source of Funding for Project (Individuals, Flow-Through or Corporate Funding)

List names and addresses of principals with proportions of funding. Attach list if space is insufficient.

Source de financement du projet (Particuliers, financement p[ar] actions accréditives ou sociétés)

Énumérer les noms et adresses des associés et l'intéressement de chac[un]. Joindre un feuillet supplémentaire si l'espace ci-dessous est insuffisant.

Corporate Funding - Cyprus Minerals Co.
9100 East Mineral Circle,
Englewood, CO 80112 USA 800-877-3878

Associates or Affiliated Companies That Have Also Applied for OMIP Assistance

List names and addresses. Attach list if space is insufficient.

Associés ou compagnies affiliées qui ont fait une demande d'ai[de] financière dans le cadre du POEEM

Énumérer les noms et adresses. Joindre un feuillet supplémentaire si l'espa[ce] ci-dessous est insuffisant.

Is there any material, financial, or other difference since filing Application for Designation Form 0148?
Des changements importants, financiers ou autres, sont-ils survenus depuis le dépôt de la demande de désignation (formule 0148)? [ ] Yes/Oui [X] N[o]/N[on]

If "Yes", explain on a separate sheet and attach./Si oui, expliquer les changements survenus sur un feuillet supplémentaire.

Actual Commencement Date of Project / Date effective de commencement: April 1, 1992

Actual Termination Date of Project / Date effective:

Project Expenditure Detail/Détails des frais relatifs au projet
(If space is insufficient, attach a separate sheet.)/(Joindre un feuillet supplémentaire si l'espace ci-dessous est insuffisant.)

Prospecting, Map and Report Preparation and Associated Costs/ Coûts de prospection et de préparation des cartes et rapports, et frais connexes	days/jours	@/à ×	$	= $
Line Cutting, Chaining, Picketing, Grid Layout and Associated Costs/ Coûts de percement des lignes, de chaînage, d'arpentage et de quadrillage et frais connexes	miles/km/milles/km	@/à ×	$	= $
Geophysical Surveys, Map and Report Preparation and Associated Costs / Coûts de prospection géophysique et de préparation des cartes et rapports, et frais connexes — Ground Magnetic / Prospection magnétique au sol	miles/km/milles/km	@/à ×	$	= $
Electromagnetic / Prospection électromagnétique	miles/km/milles/km	@/à ×	$	= $
Other (e.g. Airborne, Induced Polarization) / Autres (p. ex. Prospection aéroportée, polarisation induite)	miles/km/milles/km	@/à ×	$	= $
Sub-Total / Total partiel			$	= $
Geological Surveys, Assays, Map and Report Preparation and Associated Costs / Coûts de prospection géologique, de contrôles minéralurgiques et de préparation des cartes et rapports, et frais connexes	miles/km/milles/km n/a	@/à ×	$	= $ 31,882.24
Geochemical Surveys, Assays, Map and Report Preparation and Associated Costs / Coûts de prospection géochimique, de contrôles minéralurgiques et de préparation des cartes et rapports, et frais connexes — Types/Genres	samples/échantillons 1010	@/à ×	$ 44.86	= $ 45,304.84
	samples/échantillons	@/à ×	$	= $
Sub-Total / Total partiel			$	= $
Stripping, Trenching, Assays, Map and Report Preparation and Associated Costs / Coûts de décapage et de terrassement, de contrôles minéralurgiques et de préparation des cartes et rapports, et frais connexes	yards/m³/verges/m³	@/à ×	$	= $
	hrs/day/heures/jours	@/à ×	$	= $
Sub-Total / Total partiel			$	= $
Surface Drilling, Mobilization, Logging Core, Assaying, Map and Report Preparation and Associated Costs / Coûts des forages en surface, coûts de mobilisation, de diagraphies de sondages, de contrôles minéralurgiques et de préparation des cartes et rapports, et frais connexes	ft/m/pi/m	@/à ×	$	= $
Underground Drilling, Mobilization, Logging Core, Assaying, Map and Report Preparation and Associated Costs / Coûts de forage souterrain, coûts de mobilisation, de diagraphies de sondages, de contrôles minéralurgiques et de préparation des cartes et rapports, et frais connexes	ft/m/pi/m	@/à ×	$	= $
Dewatering, Rehabilitation, Sampling, Assaying, Map and Report Preparation and Associated Costs (Attach Description) / Coûts de drainage, de revalorisation, d'échantillonnage, de contrôles minéralurgiques, de préparation de cartes et de rapports, et frais connexes (joindre description)				= $
Industrial Minerals Laboratory, Pilot Plant, and/or Marketing Studies. (Attach Description) / Études - laboratoire des minéraux industriels, usine pilote ou commercialisation (joindre description)				= $
Preproduction Environmental Studies, Metallurgical Testing and Process Evaluation, etc. (Attach Description) / Études environnementales préalables, essais métallurgiques, évaluation des procédés, etc. (joindre description)				= $
Shaft Sinking, Drifting, Other Lateral Excavation and Associated Costs (Attach Description)/Coûts de fonçage de puits, percement de galeries et autres excavations latérales, et frais connexes (joindre description)	ft/m/pi/m	@/à ×	$	= $
Temporary Construction - Camp, Access Roads, Infrastructure, etc. / Construction temporaire - Camp, chemins d'accès, infrastructure, etc.		$	× 30%	= $
Total Eligible Expenses / Total des dépenses admissibles				A = $ 77,187.08
Daily Allowance Claimed Only by Individuals = No. of working days × $100 = / Allocation quotidienne réclamée par les personnes = nbre de journées de travail × 100 $ =				B = $
Overhead = 5% [**A** (Total Eligible Expenses) − **B** (Daily Allowance Claimed)] / Frais généraux = 5% [montant **A** (total des dépenses admissibles) − montant **B** (allocation quotidienne réclamée)]				C = $ 3,859.35
Gross Eligible Expenses A + C / Total brut des dépenses admissibles A + C				$ 81,046.43

Attachments/pièces jointes
☐ Yes/Oui ☐ No/Non
Maximum Grant - $300,000.00

Grant (30% or if in specially selected area, 50%)

Supplementary Information Subject to Geographic Confines of Local or Outside Area
Renseignements supplémentaires en fonction des limites géographiques de la zone locale ou extérieure

Labour (Including Contract)/Wages (Approximate Figures Acceptable)
Main-d'oeuvre (y compris contractuelle)/Salaires (Les chiffres approximatifs sont acceptables)

Type	No. of Persons Employed Nbre de personnes employées		No. of Person Days Labour Nbre de journées-personnes de travail		Wages Paid Salaires payés	
	Local Localement	Outside/Hors de la zone locale	Local Localement	Outside/Hors de la zone locale	Local Localement	Outside/Hors de la zone locale
Line Cutters Tailleurs de pierre					$	$
General Labour Manoeuvres						
Prospectors Prospecteurs						
Technicians Techniciens	1		30		2,000	
Diamond Drillers Foreurs au diamant						
Geologists Géologues	3		134		37,000	
Geophysicists Géophysiciens						
Geochemists Géochimistes						
Supervisors & Consultants Surveillants et consultants						
Other Autres						
				Total	$ 39,000	$

Number of diamond drill targets delineated by this project
Nombre de points de forage au diamant délimités pendant le projet: 22

Number of diamond drill holes recommended to test these anomalies
Nombre de forages au diamant recommandés pour reconnaitre ces anomalies: 11

Have you tested these targets during this project?
Ces points de forage ont-ils été testés pendant le projet?
☐ Yes/Oui ☒ No/Non
If yes, how many?
Si oui, combien d'entre eux l'ont-ils été?

Is a follow-up diamond drill project proposed by yourself or another party in the immediate future?
Le demandeur ou un autre prospecteur propose-t-il un projet de forage au diamant de suivi dans l'immédiat?
☒ Yes/Oui ☐ No/Non
If yes, proposed budget?
Si oui, quel en est le budget proposé? $ 450,000

Is a follow-up exploration project other than a diamond drill project proposed by yourself or another party in the immediate future?
Le demandeur ou un autre prospecteur propose-t-il dans l'immédiat un projet d'exploration de suivi, autre qu'un project de forage au diamant?
☐ Yes/Oui ☒ No/Non
If yes, proposed budget?
Si oui, quel en est le budget proposé? $

Did the industrial minerals laboratory and/or pilot plant studies lead to new or improved sales opportunties?
Les études du laboratoire des minéraux industriels ou de l'usine pilote ont-elles engendré de nouvelles ou de meilleures occasions de vente?
☐ Yes/Oui ☐ No/Non

Did the industrial minerals marketing studies result in identification of new or improved sales opportunities?
Les études sur la commercialsation des minéraux industriels ont-elles aidé à identifier de nouvelles ou de meilleures occasions de vente?
☐ Yes/Oui ☐ No/Non

Are there any comments you wish to make about the effectiveness of this program or suggestions for future improvements?
Observations facultatives sur l'efficacité du programme ou suggestions pour des améliorations dans l'avenir :

The Ministry of Northern Development and Mines may verify all statements related to and made herein this application.

Le ministère du Développement du Nord et des Mines p vérifier toutes les déclarations contenues dans la prése demande ou qui y sont jointes.

1. I am the person or the representative of the person named in the Application for Grant under the Ontario Mineral Incentive Program.

2. I have complied with all the requirements of the said program.

3. I understand that it is an offence under the Ontario Mineral Exploration Act, 1989 to make a false or misleading statement and that all statements and all other information submitted in support of the said application are true and correct.

4. I am a person, or represent a person, who is ordinarily a resident of Canada.

5. I am not a person, nor do I represent a person, who together with any associates or affiliated corporations (30% control), were liable for taxes under the Mining Tax Act in respect of the most recently completed taxation year preceding the date of the application.

6. I am not a person, nor do I represent a person, who together with any associates or affiliated corporations (30% control), have been designated for grants equal to the maximum grant level of $300,000 per calendar year.

7. I am aware that any other Provincial or Federal Government financial assistance received for the said application will be deducted from the amount of incurred Total Eligible Expenses.

It is an Offence under subsection 8(1)(A) of the Ontario Mineral Exploration Act, 1989 to knowingly furnish false or misleading information.

1. Je suis la personne nommée dans la Demande subvention en vertu du Programme ontar d'encouragement à l'exploration minière, ou son représentant(e).

2. Je me suis conformé(e) à toutes les exigences d programme.

3. Je comprends qu'une déclaration fausse ou trompe constitue une infraction à la Loi de 1989 sur le gramme ontarien d'exploration minière, et j'atteste toutes les déclarations contenues dans la prése demande sont véridiques et que tous les renseignem fournis à l'appui de ladite demande sont corrects.

4. Je suis une personne ou je représente une personne réside ordinairement au Canada.

5. Je ne suis pas une personne, ni ne représente personne, qui, conjointement avec un associé ou société affiliée (30% de contrôle), devait acquitter impôts en vertu de la Loi de l'impôt sur l'exploita minière pour la plus récente année complète d'imp tion précédant la date de la demande.

6. Je ne suis pas une personne, ni ne représente une sonne, à qui on a accordé, conjointement avec associé ou une société affiliée (30 % de contrôle), ou des subventions pouvant atteindre un maximum 300 000 $ par année civile.

7. Je comprends que toute aide financière provenan gouvernement provincial ou du gouvernement féd pour ce même projet sera soustraite de la som indiquée dans le Total des dépenses admissibles.

Toute déclaration fausse ou trompeuse constitue infraction en vertu du paragraphe 8(1) (a) de la de 1989 sur le Programme ontarien d'explora minière.

Signature of Applicant/Signature du demandeur	Date
[signature]	August 20, 1992
Name (print)/Nom (en lettres d'imprimerie)	Position or Title/Fonction ou titre
David Stevenson	Geologist

SUMMARY OF EXPENDITURES

ITEM	GEOLOGY	GEOCHEM	TOTAL
WAGES	$19,500.00	$19,500.00	$39,000.00
COOKERY	99.02	99.02	198.04
FIELD SUPPLIES	150.94	150.94	301.88
MAPS	2,466.17	2,466.17	$4,932.34
OFFICE SUPPLIES	106.20	106.19	212.39
OTHER SUPPLIES	70.68	70.67	141.35
ASSAYS		13,422.66	13,422.66
VEHICLE EXPENSE	369.69	369.69	739.38
TELEPHONE	102.95	102.94	205.89
CONSULTANTS	7,423.13	7,423.12	14,846.25
TRAVEL MEALS	232.81	232.80	465.61
LODGING	1,360.65	1,360.64	2,721.29
SUB TOTAL	$31,882.24	$45,304.84	$77,187.08
5% OVERHEAD			3,859.35
TOTAL			$81,046.43

32D04NE2003 OM92-101 MCGARRY

APPENDIX 1

GEOCHEMICAL RESULTS - GOLD AND 30 ELEMENT ICP

XRAL

X-RAY ASSAY LABORATORIES

A DIVISION OF SGS SUPERVISION SERVICES INC.
1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA
TEL: (416)445-5755 TELEX: 06-986947 FAX: (416)445-4152

CERTIFICATE OF ANALYSIS

REPORT 20228

TO: CYPRUS CANADA
ATTN: D. STEVENSON
66 BRUCE AVE., P.O. BOX 1120
SOUTH PORCUPINE, ONTARIO
PON 1H0

CUSTOMER No. 2294

DATE SUBMITTED
25-Aug-92

REF. FILE 13118-C5

Total Pages 12

94 ROCKS Proj. KERR

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.
AU OZ/TON	FA	.001
LI PPM	ICP	1.
BE PPM	ICP	.5
NA %	ICP	.01
MG %	ICP	.01
AL %	ICP	.01
P %	ICP	.01
K %	ICP	.01
CA %	ICP	.01
SC PPM	ICP	.5
TI %	ICP	.01
V PPM	ICP	2.
CR PPM	ICP	1.
MN %	ICP	.01
FE %	ICP	.01
CO PPM	ICP	1.

	METHOD	DETECTION LIMIT
NI PPM	ICP	1.
CU PPM	ICP	.5
ZN PPM	ICP	.5
AS PPM	ICP	3.
SR PPM	ICP	.5
Y PPM	ICP	.1
ZR PPM	ICP	.5
MO PPM	ICP	1.
AG PPM	ICP	.1
CD PPM	ICP	1.
SN PPM	ICP	10.
SB PPM	ICP	5.
BA PPM	ICP	1.
W PPM	ICP	10.
PB PPM	ICP	2.
BI PPM	ICP	3.

DATE 08-DEC-92

CERTIFIED BY ....
Jean H.L. Opdebeeck, General Manager

NOTE 1: As per our list of upper limits in our current schedule of services, some of the results are outside the applicable analytical range. Please contact us should you require assays.

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	AU PPB	AU OZ/TON	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61801	480	--	13	1.1	.04	1.73	.90	.05	.11
61802	220	--	20	1.0	.05	1.64	1.52	.03	.05
61803	700	--	16	1.1	.04	1.72	1.15	.03	.08
61804	310	--	19	1.2	.04	1.68	1.55	.05	.09
61805	340	--	21	1.4	.04	1.95	1.55	.06	.14
61806	95	--	28	1.4	.04	1.90	2.16	.06	.11
61807	94	--	29	1.4	.04	2.33	2.06	.04	.11
61808	38	--	31	1.4	.03	2.41	2.30	.05	.15
61809	640	--	6	1.1	.03	1.76	.45	.04	.25
61810	41	--	33	1.3	.03	1.62	2.58	.05	.14
61811	7	--	37	1.3	.03	1.78	2.83	.06	.15
61812	5	--	17	.7	.04	.82	1.33	.03	.19
61813	48	--	26	1.3	.03	1.42	2.66	.03	.10
61814	4	--	36	1.3	.04	1.73	2.85	.06	.10
61815	12	--	29	1.2	.05	1.56	2.25	.07	.07
61816	81	--	32	1.4	.05	1.72	2.44	.06	.03
61817	7	--	35	1.2	.05	1.58	2.50	.07	.06
61818	5	--	39	1.2	.04	1.72	2.80	.05	.01
61819	2	--	55	1.6	.04	2.64	3.62	.04	<.01
61820	2	--	42	1.3	.04	2.45	2.70	.04	.06
61821	5	--	31	1.3	.04	2.37	2.18	.04	.10
61822	9	--	32	1.5	.04	2.11	2.59	.05	.09
61823	24	--	20	1.0	.04	1.00	1.57	.04	.13
61824	4	--	24	1.2	.03	1.99	2.73	.02	.14
61825	5	--	19	.9	.02	5.68	2.22	<.01	<.01
61826	7	--	18	1.8	.13	3.97	3.58	.01	.32
61827	4	--	18	1.9	.10	3.86	4.01	<.01	.22
61828	3	--	22	1.6	.12	3.36	3.37	.01	.29
61829	4	--	33	1.1	.09	4.92	3.43	.01	.18
61830	4	--	19	.8	.10	4.82	2.81	<.01	.20
61831	3	--	18	.8	.12	4.43	2.53	<.01	.25
61832	4	--	11	1.0	.26	3.61	1.86	<.01	.64
61833	6	--	14	.6	.07	3.59	2.02	<.01	.13
61834	2	--	17	.7	.03	4.92	2.60	<.01	.02
61835	<1	--	16	.7	.06	5.05	2.37	<.01	.11
61836	10	--	18	.8	.03	6.62	2.61	<.01	.03
61837	11	--	22	1.0	.02	8.14	2.60	<.01	<.01
61838	<1	--	18	1.0	.02	7.74	2.69	<.01	.01
61839	8	--	16	.9	.02	7.46	2.13	<.01	<.01
61840	25	--	17	.9	.02	8.05	2.12	<.01	<.01
61841	59	--	20	.8	.02	7.64	1.14	.02	.02
61842	32	--	30	.8	.02	8.28	1.39	<.01	<.01
61843	68	--	19	.7	.02	6.50	1.73	<.01	<.01
61844	190	--	24	.8	.02	7.52	1.82	<.01	<.01
61845	160	--	17	.9	.03	6.06	.69	<.01	.02
61846	>1000	.055	38	1.1	.03	6.88	1.86	<.01	.02
61847	>1000	.100	31	1.0	.03	4.75	1.43	<.01	.01
61848	>1000	.041	20	.9	.04	4.16	.89	<.01	.02
61849	>1000	.250	12	1.0	.05	3.21	.66	<.01	.01
61850	38	--	39	.8	.04	5.20	1.48	<.01	.02

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	AU PPB	AU OZ/TON	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61851	24	--	41	.9	.02	7.48	1.75	<.01	<.01
61852	110	--	41	1.0	.02	8.81	1.77	<.01	<.01
61853	54	--	34	.8	.02	9.09	1.37	<.01	<.01
61854	20	--	23	.8	.02	12.0	.83	<.01	<.01
61855	5	--	13	.8	.02	12.0	.71	<.01	<.01
61856	16	--	15	.7	.02	11.3	.69	<.01	<.01
61857	110	--	16	.8	.02	12.3	.64	<.01	.01
61858	650	--	11	<.5	.03	6.91	.36	<.01	.01
61859	240	--	12	.8	.02	8.12	.42	<.01	.06
61860	110	--	27	1.1	.02	9.41	1.03	.01	.04
61861	>1000	.056	12	1.3	.03	3.91	.50	<.01	.13
61862	330	--	25	.9	.03	6.01	.84	<.01	.08
61863	60	--	24	.9	.03	4.98	.72	<.01	.11
61864	85	--	37	.8	.02	8.04	1.34	<.01	.04
61865	190	--	25	.8	.03	5.94	.93	<.01	.05
61866	89	--	35	.7	.02	6.99	2.15	<.01	<.01
61867	16	--	23	.8	.02	7.84	2.15	<.01	<.01
61868	32	--	33	.7	.02	7.42	1.86	<.01	<.01
61869	9	--	36	.6	.03	5.97	1.51	<.01	.03
61870	25	--	54	.8	.02	5.14	2.15	<.01	.04
61871	69	--	9	.9	.02	3.52	.38	<.01	.14
61872	>1000	.067	4	1.5	.03	3.61	.12	<.01	.13
61873	>1000	.130	4	1.8	.03	2.98	.11	<.01	.09
61874	200	--	5	1.0	.03	3.60	.19	.01	.10
61875	42	--	21	.7	.02	6.58	2.10	<.01	<.01
61876	5	--	18	.6	.02	6.79	1.81	<.01	<.01
61877	9	--	29	.7	.03	7.89	1.57	<.01	<.01
61878	3	--	30	.7	.03	6.91	1.57	<.01	<.01
61879	5	--	14	.6	.03	5.39	.82	<.01	.03
61880	10	--	20	.7	.03	6.32	1.26	<.01	.01
61881	9	--	36	.7	.02	8.68	1.78	<.01	<.01
61882	13	--	41	.7	.02	8.66	1.63	<.01	<.01
61883	1100	--	28	.7	.03	7.51	.80	<.01	.07
61884	100	--	66	.9	.02	10.2	2.09	<.01	<.01
61885	5	--	41	.7	.02	10.0	1.31	<.01	<.01
61886	430	--	11	.8	.03	5.14	.35	<.01	.06
61887	290	--	26	.9	.03	6.64	1.28	<.01	.01
61888	180	--	17	.7	.03	7.05	.74	<.01	.02
61889	330	--	37	.8	.03	7.78	1.66	<.01	<.01
61890	93	--	46	.7	.02	7.42	2.25	<.01	<.01
61891	7	--	27	.6	.02	5.60	1.94	<.01	<.01
61892	5	--	22	.5	.03	3.91	2.16	<.01	.01
61893	3	--	7	.6	.03	5.20	2.49	<.01	<.01
61894	1	--	7	<.5	.03	3.52	1.71	<.01	<.01
61803	690	--	--	--	--	--	--	--	--
61809	620	--	--	--	--	--	--	--	--
61844	170	--	--	--	--	--	--	--	--
61858	680	--	--	--	--	--	--	--	--
61883	710	--	--	--	--	--	--	--	--
61886	370	--	--	--	--	--	--	--	--

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	AU PPB	AU OZ/TON	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
C DCP CONTROL	--	--	9	<.5	.03	.31	.73	.03	.05
C DCP CONTROL	--	--	8	<.5	.03	.30	.72	.03	.05
C DCP CONTROL	--	--	9	<.5	.03	.30	.72	.03	.05
D 61801	--	--	14	1.1	.04	1.74	.91	.05	.12
D 61813	--	--	27	1.3	.03	1.43	2.69	.03	.10
D 61825	--	--	21	1.0	.02	5.87	2.53	<.01	<.01
D 61837	--	--	23	1.0	.03	8.29	2.68	<.01	<.01
D 61847	--	--	32	1.1	.03	4.74	1.43	<.01	<.01
D 61859	--	--	12	.8	.02	8.09	.43	<.01	.06
D 61871	--	--	9	1.0	.02	3.57	.38	<.01	.13
D 61883	--	--	27	.8	.03	7.51	.79	<.01	.07
D 61893	--	--	7	.6	.03	5.31	2.54	<.01	<.01

C - QUALITY CONTROL STANDARD
D - QUALITY CONTROL DUPLICATE

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61801	3.61	10.7	<.01	114	55	.14	6.46	36
61802	3.44	19.9	<.01	213	72	.15	5.90	34
61803	3.75	14.8	<.01	164	54	.17	6.35	38
61804	4.19	17.3	<.01	192	53	.20	6.52	41
61805	5.12	12.7	<.01	142	40	.24	7.44	40
61806	4.52	15.8	<.01	189	75	.21	7.50	38
61807	4.90	16.2	<.01	228	49	.22	7.77	45
61808	4.54	13.3	<.01	189	71	.23	7.92	42
61809	5.00	5.4	<.01	40	55	.18	5.87	41
61810	6.65	13.1	<.01	202	41	.26	7.34	41
61811	6.83	14.2	<.01	222	30	.31	7.56	45
61812	2.80	1.8	<.01	28	68	.10	3.48	14
61813	4.54	8.4	<.01	105	377	.29	7.68	53
61814	4.08	18.9	<.01	250	46	.17	7.51	43
61815	2.84	20.8	<.01	148	60	.14	6.71	34
61816	2.39	25.9	<.01	264	62	.12	7.85	34
61817	3.87	22.1	<.01	163	57	.14	6.71	32
61818	4.57	30.4	<.01	329	45	.18	6.93	43
61819	4.05	37.8	<.01	495	35	.18	8.65	41
61820	4.60	22.6	<.01	327	47	.18	7.42	42
61821	4.61	15.4	<.01	219	48	.18	7.00	39
61822	4.71	20.7	<.01	259	50	.23	8.51	43
61823	4.71	9.5	<.01	115	57	.18	5.33	26
61824	3.87	12.6	<.01	97	1230	.22	6.52	62
61825	7.11	16.0	<.01	103	1840	.21	4.91	63
61826	5.85	22.6	.02	172	2490	.39	10.2	139
61827	6.05	25.0	.02	191	3060	.33	10.2	91
61828	8.39	21.9	.02	162	2560	.42	9.05	92
61829	4.73	26.2	.02	197	2630	.14	6.24	129
61830	9.19	17.0	.01	132	1890	.17	4.87	65
61831	13.0	15.6	<.01	119	1680	.19	4.48	65
61832	14.6	14.3	.01	109	1340	.26	5.54	84
61833	13.6	12.7	<.01	93	1470	.16	3.61	46
61834	5.74	16.9	<.01	119	2020	.10	4.39	52
61835	9.12	15.8	<.01	108	1540	.13	4.36	47
61836	5.96	16.0	<.01	117	2000	.11	4.98	63
61837	7.34	16.8	<.01	118	1900	.10	5.35	76
61838	6.92	17.3	<.01	119	1640	.14	5.53	67
61839	7.86	15.2	<.01	97	1620	.13	4.98	61
61840	8.91	14.5	<.01	98	1690	.13	5.06	68
61841	13.2	11.4	<.01	66	1170	.18	4.41	60
61842	13.5	11.9	<.01	70	1430	.17	4.54	68
61843	6.74	13.7	<.01	79	1710	.11	3.99	82
61844	8.56	13.3	<.01	96	1350	.12	4.29	70
61845	11.7	12.9	<.01	61	1010	.17	4.97	66
61846	8.76	19.7	<.01	138	1420	.15	6.46	82
61847	6.97	20.8	<.01	139	884	.15	6.31	79
61848	6.73	19.2	<.01	111	528	.15	5.50	57
61849	5.62	17.7	<.01	110	60	.13	6.32	50
61850	7.59	26.3	<.01	134	513	.12	4.75	43

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61851	8.84	22.8	<.01	109	1550	.14	5.13	72
61852	7.23	14.9	<.01	92	1600	.11	5.70	84
61853	6.14	11.8	<.01	70	1590	.09	4.89	78
61854	6.22	8.5	<.01	44	1420	.10	4.57	72
61855	3.02	8.7	<.01	38	1130	.09	4.55	73
61856	5.38	8.7	<.01	38	1050	.09	4.05	66
61857	6.26	7.7	<.01	36	755	.10	4.44	62
61858	4.51	5.3	<.01	23	608	.07	2.61	39
61859	8.85	9.0	<.01	25	522	.18	4.78	65
61860	6.39	10.8	<.01	52	1000	.19	5.84	70
61861	10.1	9.5	<.01	30	432	.40	7.84	104
61862	9.74	9.7	<.01	39	653	.24	5.14	68
61863	9.98	10.4	<.01	35	674	.23	5.42	63
61864	9.77	12.2	<.01	59	1000	.13	4.40	70
61865	10.8	11.5	<.01	42	671	.22	4.49	74
61866	6.52	15.0	<.01	91	1550	.10	4.39	73
61867	8.59	14.6	<.01	92	1540	.13	4.63	71
61868	11.0	13.9	<.01	84	1410	.19	4.42	58
61869	12.3	14.0	<.01	76	1440	.22	4.08	67
61870	9.54	13.7	<.01	93	1760	.21	4.99	67
61871	10.3	7.0	<.01	19	326	.36	5.61	71
61872	15.3	5.4	<.01	14	119	.68	9.23	70
61873	14.6	3.8	<.01	17	126	.92	11.3	54
61874	17.8	6.3	<.01	15	131	.54	6.42	81
61875	5.75	13.6	<.01	89	1650	.09	4.07	82
61876	7.01	13.3	<.01	82	1490	.10	3.92	60
61877	10.6	14.9	<.01	84	1560	.17	4.56	75
61878	9.62	16.0	<.01	102	1780	.15	4.97	75
61879	12.4	13.7	<.01	63	1110	.20	4.17	57
61880	12.5	13.0	<.01	67	1150	.20	4.57	59
61881	5.53	14.1	<.01	81	1370	.11	4.66	68
61882	6.84	11.8	<.01	67	1100	.10	4.30	61
61883	14.3	12.2	<.01	46	693	.23	4.84	59
61884	4.03	15.4	<.01	90	1470	.10	5.34	73
61885	4.43	11.4	<.01	59	997	.08	4.30	65
61886	15.1	11.5	<.01	35	437	.23	5.05	73
61887	8.56	15.2	<.01	83	963	.14	4.69	61
61888	10.6	10.2	<.01	46	740	.20	4.18	58
61889	9.62	13.4	<.01	81	1320	.16	4.31	67
61890	7.37	15.2	<.01	92	1590	.12	4.49	70
61891	7.43	12.9	<.01	82	1440	.12	3.61	63
61892	9.14	13.8	.02	90	1610	.13	3.39	44
61893	6.38	16.6	<.01	105	1670	.10	3.82	51
61894	15.8	10.4	<.01	69	1150	.15	2.74	31
61803	--	--	--	--	--	--	--	--
61809	--	--	--	--	--	--	--	--
61844	--	--	--	--	--	--	--	--
61858	--	--	--	--	--	--	--	--
61883	--	--	--	--	--	--	--	--
61886	--	--	--	--	--	--	--	--

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
C DCP CONTROL	.36	1.3	.07	26	81	.01	1.23	4
C DCP CONTROL	.37	1.3	.06	26	82	.01	1.21	4
C DCP CONTROL	.37	1.3	.07	26	83	.01	1.20	4
D 61801	3.73	11.1	<.01	117	58	.14	6.49	38
D 61813	4.38	8.4	<.01	104	369	.28	7.50	54
D 61825	6.71	17.0	<.01	115	1920	.21	5.19	66
D 61837	7.16	17.0	<.01	119	1900	.10	5.34	69
D 61847	6.77	20.6	<.01	138	877	.15	6.21	78
D 61859	8.75	8.9	<.01	25	535	.18	4.74	65
D 61871	10.5	7.1	<.01	19	329	.37	5.73	70
D 61883	14.6	12.2	<.01	46	701	.23	4.89	59
D 61893	6.41	16.8	<.01	106	1690	.10	3.88	53

C - QUALITY CONTROL STANDARD
D - QUALITY CONTROL DUPLICATE

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61801	74	71.5	139	9860	60.1	2.5	<.5	<1
61802	60	83.6	102	542	51.8	2.3	<.5	<1
61803	61	87.9	109	4240	61.1	2.3	<.5	<1
61804	64	86.3	99.4	453	54.0	3.3	.5	<1
61805	55	72.4	104	4050	60.7	4.4	1.1	<1
61806	43	61.7	143	113	56.4	4.4	.6	<1
61807	64	139	149	116	63.1	3.7	<.5	<1
61808	58	98.5	176	93	52.4	4.6	.6	<1
61809	81	88.2	215	11400	57.6	3.2	<.5	<1
61810	44	104	147	314	79.5	5.2	<.5	<1
61811	46	132	225	98	84.8	5.6	<.5	<1
61812	35	42.8	177	36	35.3	2.2	2.6	<1
61813	267	62.5	106	183	66.1	2.5	1.0	<1
61814	45	43.5	99.5	48	54.2	5.8	.6	<1
61815	35	21.1	66.6	48	30.0	5.5	.6	<1
61816	28	73.7	96.0	58	38.4	3.2	<.5	<1
61817	31	24.0	118	50	35.5	6.7	1.3	<1
61818	71	82.4	126	52	60.4	6.2	<.5	<1
61819	50	126	101	35	42.3	4.2	.5	<1
61820	53	121	109	57	50.3	4.0	<.5	<1
61821	49	130	218	53	52.9	3.9	<.5	<1
61822	41	114	399	49	52.6	3.5	.6	<1
61823	40	96.4	244	28	50.7	2.9	2.4	<1
61824	378	57.9	94.5	12	38.0	2.3	2.1	<1
61825	559	60.6	68.5	11	77.9	3.5	<.5	<1
61826	1350	86.4	175	<3	61.4	2.4	<.5	<1
61827	786	88.8	102	<3	68.1	2.4	<.5	<1
61828	784	85.2	83.1	<3	141	3.4	<.5	<1
61829	1220	111	116	3	66.9	2.0	<.5	<1
61830	554	71.6	48.7	<3	112	2.5	.6	<1
61831	585	59.0	43.5	<3	133	2.5	<.5	<1
61832	525	94.8	50.0	<3	143	3.8	<.5	<1
61833	454	56.3	30.6	<3	158	2.6	<.5	<1
61834	542	66.8	35.1	<3	72.7	1.8	<.5	<1
61835	431	64.0	39.0	<3	82.5	2.8	<.5	<1
61836	520	71.3	43.6	61	53.7	3.1	<.5	<1
61837	781	53.1	65.9	135	101	3.2	<.5	<1
61838	587	57.2	68.4	239	71.0	3.7	<.5	<1
61839	724	42.7	57.4	644	82.6	3.7	<.5	<1
61840	868	50.5	47.7	920	95.7	3.5	<.5	<1
61841	796	25.6	36.3	978	106	3.3	<.5	<1
61842	934	19.4	37.5	1210	113	3.6	<.5	<1
61843	877	52.1	26.7	1360	87.5	3.0	<.5	<1
61844	876	27.3	38.4	1510	111	3.3	<.5	<1
61845	662	23.2	32.5	1600	104	3.9	<.5	<1
61846	790	55.9	64.8	2060	101	4.0	<.5	<1
61847	591	84.6	69.2	1900	63.3	2.3	<.5	<1
61848	342	62.3	55.0	2340	63.9	2.0	<.5	<1
61849	192	158	51.7	5080	60.2	1.7	<.5	<1
61850	113	74.9	48.3	183	60.5	1.8	<.5	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61851	323	44.4	43.2	342	73.4	2.2	<.5	<1
61852	489	60.2	43.2	271	105	2.5	<.5	<1
61853	662	39.3	36.3	618	59.8	1.8	<.5	<1
61854	1110	20.1	35.3	781	112	1.8	<.5	<1
61855	942	21.1	29.8	94	38.3	1.1	<.5	<1
61856	1030	21.8	31.3	638	74.4	1.7	<.5	<1
61857	946	8.8	38.4	1490	94.1	2.0	<.5	<1
61858	652	9.9	25.9	1160	102	1.6	<.5	<1
61859	930	23.7	60.0	1670	107	3.5	<.5	<1
61860	990	19.9	49.3	1710	94.3	3.0	<.5	<1
61861	833	131	28.6	1560	99.9	4.2	<.5	<1
61862	825	37.3	33.0	1370	96.4	3.2	<.5	<1
61863	638	48.2	41.1	1110	88.4	3.7	<.5	<1
61864	957	41.9	42.6	1910	117	3.2	<.5	<1
61865	784	37.3	35.3	1750	94.5	3.6	<.5	<1
61866	751	50.8	36.0	730	75.8	2.7	<.5	<1
61867	814	37.6	43.0	121	92.7	3.2	<.5	<1
61868	794	46.0	44.1	56	92.6	4.2	<.5	<1
61869	1040	48.6	53.2	23	79.9	5.3	<.5	<1
61870	709	58.2	52.0	91	61.6	3.5	<.5	<1
61871	620	46.3	30.1	1060	85.8	4.2	<.5	<1
61872	530	55.9	27.5	3940	92.8	5.3	<.5	<1
61873	435	226	27.0	8050	88.9	4.7	<.5	<1
61874	1060	20.5	56.2	2030	101	6.6	<.5	<1
61875	847	59.9	28.6	374	58.2	2.1	<.5	<1
61876	699	36.0	40.7	76	57.4	2.5	<.5	<1
61877	911	20.6	42.7	99	81.7	3.9	<.5	<1
61878	977	57.3	53.1	40	65.9	3.1	<.5	<1
61879	788	37.9	31.3	<3	67.9	3.6	<.5	<1
61880	738	39.9	37.8	12	87.0	3.8	<.5	<1
61881	731	45.3	39.6	95	55.0	1.6	<.5	<1
61882	697	39.9	35.2	406	74.7	1.9	<.5	<1
61883	643	25.9	62.8	537	99.9	4.6	<.5	<1
61884	791	49.7	43.3	257	54.3	1.3	<.5	<1
61885	887	37.6	33.7	143	75.6	1.5	<.5	<1
61886	663	37.3	24.7	504	110	3.7	<.5	<1
61887	639	67.4	36.5	1320	154	2.6	<.5	<1
61888	794	20.1	28.5	1570	167	4.0	<.5	<1
61889	838	35.4	36.0	1280	159	4.4	3.6	<1
61890	796	14.5	39.3	440	97.7	2.5	<.5	<1
61891	465	44.8	27.1	213	81.3	2.4	<.5	<1
61892	399	28.9	26.0	49	100	2.6	.6	<1
61893	375	39.0	28.5	52	71.8	3.3	<.5	<1
61894	315	22.5	20.3	17	193	3.9	<.5	<1
61803	--	--	--	--	--	--	--	--
61809	--	--	--	--	--	--	--	--
61844	--	--	--	--	--	--	--	--
61858	--	--	--	--	--	--	--	--
61883	--	--	--	--	--	--	--	--
61886	--	--	--	--	--	--	--	--

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
C DCP CONTROL	10	12.6	17.3	<3	7.7	2.7	3.7	2
C DCP CONTROL	10	11.2	16.9	<3	7.9	2.8	3.2	2
C DCP CONTROL	11	12.7	17.0	<3	7.7	2.9	4.2	2
D 61801	75	72.4	138	10000	62.0	2.6	.6	<1
D 61813	267	64.8	108	185	65.6	2.5	1.8	<1
D 61825	597	63.3	69.8	9	75.6	3.3	<.5	<1
D 61837	777	52.1	63.4	123	101	3.1	<.5	<1
D 61847	574	88.3	68.4	1860	62.5	2.2	<.5	<1
D 61859	914	23.7	59.8	1650	106	3.5	<.5	<1
D 61871	640	46.8	33.1	1090	87.3	4.4	<.5	<1
D 61883	653	24.5	63.4	539	100	4.6	<.5	<1
D 61893	382	42.6	28.8	54	72.6	3.3	<.5	<1

C - QUALITY CONTROL STANDARD
D - QUALITY CONTROL DUPLICATE

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61801	.2	3	<10	10	14	<10	5	<3
61802	<.1	3	<10	<5	8	<10	<2	3
61803	.4	3	<10	6	12	<10	3	<3
61804	.4	3	<10	<5	14	<10	2	4
61805	.9	4	<10	5	21	<10	3	<3
61806	.4	4	<10	<5	17	<10	<2	<3
61807	.4	4	<10	<5	16	<10	<2	<3
61808	.3	4	<10	<5	24	<10	<2	<3
61809	.3	3	<10	12	39	<10	5	<3
61810	.3	4	<10	<5	28	<10	<2	<3
61811	.4	4	<10	<5	30	<10	<2	<3
61812	.3	2	<10	<5	38	<10	<2	<3
61813	.4	4	<10	19	20	<10	<2	<3
61814	.3	4	<10	<5	19	<10	<2	4
61815	.2	3	<10	<5	12	<10	3	<3
61816	.2	4	<10	<5	6	<10	<2	4
61817	.3	3	<10	<5	11	<10	<2	3
61818	<.1	3	<10	9	5	<10	<2	<3
61819	.4	4	<10	<5	3	<10	<2	6
61820	.3	4	<10	<5	10	<10	<2	<3
61821	.2	4	<10	<5	18	<10	<2	<3
61822	.3	5	<10	<5	15	<10	<2	4
61823	.6	3	<10	<5	27	<10	4	<3
61824	.7	3	<10	10	29	<10	<2	5
61825	.5	2	<10	19	23	<10	<2	<3
61826	.7	6	<10	19	136	<10	<2	5
61827	.7	5	<10	23	59	<10	<2	5
61828	.4	5	<10	20	73	<10	<2	<3
61829	<.1	3	<10	21	41	<10	<2	<3
61830	.7	3	<10	15	28	<10	<2	4
61831	.4	2	<10	13	35	<10	<2	4
61832	.3	3	<10	9	252	<10	<2	<3
61833	.3	2	<10	10	27	<10	<2	<3
61834	.2	2	<10	16	8	<10	<2	<3
61835	.4	2	<10	13	41	<10	<2	3
61836	.3	2	<10	14	24	<10	<2	<3
61837	.3	3	<10	18	8	<10	<2	<3
61838	.2	3	<10	21	10	<10	<2	4
61839	.4	2	<10	34	7	<10	<2	<3
61840	.2	2	<10	47	6	<10	<2	<3
61841	.3	2	<10	67	9	<10	4	<3
61842	.3	2	<10	73	8	<10	2	3
61843	.6	2	<10	20	5	<10	<2	<3
61844	<.1	2	<10	17	5	<10	<2	<3
61845	.6	3	<10	9	13	<10	3	6
61846	1.0	3	<10	15	9	<10	2	<3
61847	1.1	3	<10	11	7	<10	<2	<3
61848	.3	3	<10	8	9	<10	2	<3
61849	1.2	3	<10	6	9	<10	4	4
61850	.1	2	<10	<5	14	<10	<2	<3

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61851	.3	3	<10	14	8	<10	<2	4
61852	.4	3	<10	18	20	<10	<2	3
61853	.3	3	<10	30	6	<10	<2	<3
61854	<.1	2	<10	98	8	<10	<2	<3
61855	.2	2	<10	25	3	<10	<2	6
61856	<.1	2	<10	39	6	<10	<2	3
61857	.2	2	<10	34	8	<10	<2	5
61858	<.1	1	<10	14	8	<10	8	<3
61859	.5	3	<10	23	19	<10	3	<3
61860	.3	3	<10	20	16	<10	<2	<3
61861	.9	5	<10	19	37	<10	4	<3
61862	.5	3	<10	27	19	<10	<2	5
61863	.4	3	<10	16	24	<10	<2	<3
61864	.2	2	<10	13	16	<10	<2	<3
61865	.6	2	<10	12	20	<10	<2	<3
61866	.4	2	<10	18	4	<10	<2	<3
61867	.5	2	<10	20	4	<10	<2	<3
61868	.3	2	<10	32	6	<10	<2	<3
61869	.5	2	<10	18	11	<10	5	4
61870	.6	2	<10	16	15	<10	<2	3
61871	.6	3	<10	11	47	<10	2	<3
61872	1.3	6	<10	<5	51	<10	11	<3
61873	2.3	7	<10	11	44	<10	10	<3
61874	.7	4	<10	27	35	<10	2	<3
61875	.5	2	<10	11	4	<10	6	3
61876	.4	2	<10	12	5	<10	<2	5
61877	.2	2	<10	24	10	<10	<2	5
61878	<.1	2	<10	15	6	<10	<2	5
61879	.5	2	<10	18	24	<10	<2	<3
61880	.5	2	<10	11	21	<10	<2	3
61881	<.1	2	<10	15	4	<10	<2	5
61882	.1	2	<10	28	4	<10	<2	<3
61883	.4	3	<10	28	31	<10	<2	<3
61884	.3	3	<10	33	3	<10	<2	5
61885	.2	2	<10	17	4	<10	<2	<3
61886	<.1	3	<10	17	29	<10	2	<3
61887	.4	2	<10	11	8	<10	<2	4
61888	.4	2	<10	12	15	<10	<2	<3
61889	2.5	3	<10	31	7	<10	4	14
61890	1.0	2	<10	18	3	<10	3	11
61891	.4	2	<10	11	3	<10	<2	5
61892	.5	2	<10	12	10	<10	<2	6
61893	.1	2	<10	12	10	<10	<2	<3
61894	<.1	1	<10	7	26	<10	<2	<3
61803	--	--	--	--	--	--	--	--
61809	--	--	--	--	--	--	--	--
61844	--	--	--	--	--	--	--	--
61858	--	--	--	--	--	--	--	--
61883	--	--	--	--	--	--	--	--
61886	--	--	--	--	--	--	--	--

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
C DCP CONTROL	<.1	<1	<10	<5	28	<10	<2	4
C DCP CONTROL	<.1	<1	<10	<5	28	<10	<2	<3
C DCP CONTROL	.3	<1	<10	<5	28	<10	3	<3
D 61801	.3	3	<10	9	16	<10	3	<3
D 61813	.6	4	<10	19	20	<10	<2	<3
D 61825	.3	3	<10	31	24	<10	<2	7
D 61837	.3	3	<10	17	9	<10	<2	<3
D 61847	.7	3	<10	11	7	<10	<2	4
D 61859	.5	2	<10	22	19	<10	<2	3
D 61871	.9	3	<10	7	44	<10	2	<3
D 61883	.4	3	<10	24	31	<10	<2	4
D 61893	.2	2	<10	13	11	<10	<2	<3

C - QUALITY CONTROL STANDARD
D - QUALITY CONTROL DUPLICATE

X-RAY ASSAY LABORATORIES

XRAL

A DIVISION OF SGS SUPERVISION SERVICES INC.
1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA
TEL: (416)445-5755 TELEX: 06-986947 FAX: (416)445-4152

CERTIFICATE OF ANALYSIS

REPORT 21323

TO: CYPRUS CANADA
ATTN: D. STEVENSON
66 BRUCE AVE., P.O. BOX 1120
SOUTH PORCUPINE, ONTARIO
P0N 1H0

CUSTOMER No. 2294

DATE SUBMITTED
28-Aug-92

REF. FILE 13174-S7

Total Pages 14

116 ROCKS Proj. KERR MINE

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.
AU OZ/TON	FA	.001
LI PPM	ICP	1.
BE PPM	ICP	.5
NA %	ICP	.01
WRMAJ %	WR	.01
MG %	ICP	.01
AL %	ICP	.01
P %	ICP	.01
K %	ICP	.01
CA %	ICP	.01
SC PPM	ICP	.5
TI %	ICP	.01
V PPM	ICP	2.
CR PPM	ICP	1.
MN %	ICP	.01
FE %	ICP	.01
CO PPM	ICP	1.

	METHOD	DETECTION LIMIT
NI PPM	ICP	1.
CU PPM	ICP	.5
ZN PPM	ICP	.5
AS PPM	ICP	3.
WRMIN PPM	WR	10.
SR PPM	ICP	.5
Y PPM	ICP	.1
ZR PPM	ICP	.5
MO PPM	ICP	1.
AG PPM	ICP	.1
CD PPM	ICP	1.
SN PPM	ICP	10.
SB PPM	ICP	5.
BA PPM	ICP	1.
W PPM	ICP	10.
PB PPM	ICP	2.
BI PPM	ICP	3.

DATE 08-DEC-92

CERTIFIED BY ....
Jean H.L. Opdebeeck, General Manager

XRAL

NOTE 1: As per our list of upper limits in our current schedule of services, some of the results are outside the applicable analytical range. Please contact us should you require assays.

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	AU PPB	AU OZ/TON	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61895	1	--	11	.6	.03	4.89	2.29	<.01	<.01
61896	<1	--	12	<.5	.03	3.72	1.61	<.01	<.01
61897	<1	--	18	.7	.04	6.35	2.53	<.01	<.01
61898	<1	--	19	.6	.03	5.47	2.21	<.01	<.01
61899	<1	--	13	.5	.03	5.85	2.05	<.01	<.01
61900	1	--	16	.6	.03	6.98	2.33	<.01	<.01
61901	8	--	20	.7	.03	8.07	2.40	<.01	<.01
61902	>1000	.038	38	2.0	.04	2.73	2.87	.04	.13
61903	>1000	.047	16	1.2	.07	1.85	1.07	.05	.10
61904	200	--	26	1.1	.07	1.68	1.75	.05	.12
61905	250	--	24	1.3	.06	1.65	1.96	.05	.15
61906	740	--	26	1.5	.07	1.75	2.17	.06	.11
61907	1000	--	18	1.3	.06	1.68	1.30	.06	.09
61908	850	--	20	1.2	.07	1.68	1.42	.06	.12
61909	910	--	23	1.3	.08	1.89	1.75	.06	.11
61910	480	--	28	1.3	.06	1.93	2.13	.05	.09
61911	180	--	25	1.1	.07	1.81	1.79	.06	.07
61912	640	--	23	1.3	.05	2.28	1.67	.04	.14
61913	56	--	31	1.2	.04	1.11	2.48	.04	.21
61914	380	--	29	2.2	.02	1.86	4.08	.02	.04
61915	100	--	33	2.1	.02	2.66	3.75	.01	.06
61916	35	--	34	1.1	.05	1.98	2.46	.06	.22
61917	77	--	23	1.1	.07	2.12	1.74	.06	.18
61918	100	--	18	1.1	.07	1.68	1.61	.06	.13
61919	>1000	.042	8	1.1	.07	1.39	.76	.05	.16
61920	530	--	19	1.2	.07	1.36	1.60	.07	.14
61921	150	--	16	1.1	.08	1.48	1.54	.07	.14
61922	250	--	16	1.2	.07	1.76	1.45	.05	.12
61923	>1000	.030	13	1.3	.06	1.90	1.16	.04	.14
61924	110	--	23	1.4	.06	2.14	2.04	.03	.09
61925	10	--	23	1.5	.06	2.20	2.03	.04	.12
61926	4	--	27	1.3	.06	2.19	2.17	.04	.10
61927	2	--	39	1.4	.06	2.51	3.00	.04	.05
61928	1	--	34	1.1	.06	2.05	2.52	.04	.07
61929	2	--	36	1.2	.05	2.16	2.71	.04	.11
61930	2	--	45	1.4	.04	2.06	3.30	.05	.13
61931	3	--	53	1.5	.04	2.53	3.68	.06	.12
61932	21	--	36	1.7	.05	1.64	2.95	.05	.08
61933	19	--	29	2.6	.02	2.53	4.81	.02	<.01
61934	2	--	57	1.4	.02	4.17	3.82	<.01	<.01
61935	13	--	22	1.8	.02	3.18	3.35	.01	<.01
61936	29	--	36	1.6	.02	3.82	3.46	<.01	<.01
61937	76	--	53	1.5	.02	3.77	3.94	.01	<.01
61938	4	--	52	1.4	.02	4.39	3.96	.01	<.01
61939	3	--	70	1.0	.02	4.93	3.83	.01	<.01
61940	4	--	60	1.0	.02	4.84	3.41	.01	<.01
61941	2	--	46	.9	.02	3.88	3.07	.01	<.01
61942	3	--	30	.8	.02	3.39	2.72	.01	<.01
61943	23	--	21	1.2	.18	3.62	2.64	<.01	.44
61944	4	--	29	.9	.03	4.91	2.92	.01	.03

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	AU PPB	AU OZ/TON	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61945	210	--	18	.8	.03	6.37	1.68	<.01	.01
61946	4	--	14	.8	.04	5.56	1.83	<.01	.05
61947	5	--	7	.5	.03	3.37	.47	<.01	.02
61948	41	--	21	1.1	.04	5.73	1.76	<.01	.06
61949	71	--	5	.8	.03	3.35	.20	<.01	.06
61950	140	--	3	1.0	.03	3.88	.12	<.01	.10
61951	76	--	5	1.5	.03	3.22	.36	<.01	.09
61952	94	--	9	1.0	.05	3.66	.60	.01	.05
61953	>1000	.038	5	.9	.04	2.81	.35	<.01	.03
61954	370	--	4	1.1	.04	3.10	.33	.01	.04
61955	230	--	16	1.2	.03	4.12	1.24	<.01	.04
61956	400	--	3	1.0	.04	2.79	.20	<.01	.06
61957	400	--	24	1.3	.03	4.34	1.67	.01	.06
61958	290	--	6	1.1	.05	2.88	.50	.01	.05
61959	350	--	11	1.2	.03	3.67	.65	<.01	.07
61960	14	--	34	1.2	.02	4.02	1.80	<.01	.05
61961	70	--	25	1.5	.02	3.81	1.51	<.01	.08
61962	300	--	27	.8	.02	5.08	1.02	<.01	.13
61963	64	--	12	.7	.02	4.75	.43	<.01	.10
61964	120	--	2	.6	.03	3.36	.12	.02	.08
61965	180	--	4	.6	.03	3.79	.20	.01	.09
61966	360	--	10	.8	.02	5.74	.45	.01	.06
61967	200	--	3	.6	.03	3.73	.19	.02	.07
61968	910	--	8	.8	.02	6.44	.35	<.01	.05
61969	550	--	11	.9	.02	9.81	.47	<.01	.03
61970	250	--	17	.9	.02	10.2	.61	<.01	.01
61971	130	--	16	.8	.02	9.17	.59	.01	.02
61972	230	--	19	.8	.02	9.57	.78	<.01	.01
61973	23	--	35	.7	.02	7.76	1.47	<.01	<.01
61974	80	--	31	.8	.02	6.51	1.58	<.01	<.01
61975	120	--	14	.8	.04	4.44	.97	<.01	.04
61976	33	--	21	.9	.06	6.08	2.00	.01	.11
61977	<1	--	16	.7	.02	6.14	2.04	<.01	.01
61978	<1	--	16	.7	.05	4.49	2.18	<.01	.09
61979	<1	--	16	.7	.13	4.18	2.18	<.01	.32
61980	2	--	14	.6	.07	4.07	1.74	<.01	.15
61981	38	--	28	1.5	.05	4.58	2.59	<.01	.10
61982	14	--	19	1.8	.01	4.21	2.31	<.01	<.01
61983	6	--	34	1.1	.02	5.42	1.92	<.01	.03
61984	22	--	26	1.0	.02	4.88	1.20	<.01	.10
61985	150	--	18	.8	.02	6.55	.67	.02	.07
61986	73	--	17	.9	.01	9.75	.57	<.01	.04
61987	48	--	20	.8	.02	8.78	.65	<.01	.04
61988	200	--	9	.8	.02	5.82	.30	.02	.09
61989	300	--	8	1.0	.02	4.22	.36	.01	.10
61990	69	--	43	1.8	.02	4.42	2.25	<.01	.06
61991	340	--	12	2.0	.02	3.88	.67	<.01	.09
61992	>1000	.110	5	2.5	.02	3.49	.25	<.01	.09
61993	>1000	.060	4	2.2	.02	3.47	.19	<.01	.10
61994	290	--	21	1.9	.02	4.56	1.06	<.01	.09

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	AU PPB	AU OZ/TON	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61995	570	--	15	1.0	.02	6.36	.64	<.01	.09
61996	39	--	20	.8	.02	8.41	.62	<.01	.05
61997	96	--	26	.9	.02	9.89	.75	<.01	.04
KA-GP-13	27	--	38	2.2	.02	2.99	3.62	.02	<.01
KA-GP-17	6	--	58	1.2	.06	3.37	3.16	.03	.05
KA-GP-18	>1000	.290	20	2.2	.06	1.25	1.26	.08	<.01
KA-GP-23	120	--	<1	<.5	.07	.02	.37	.02	.20
KA-GP-25	>1000	.200	<1	3.8	.03	.02	.18	<.01	.17
KA-MZA-8	6	--	2	<.5	.02	.61	.07	<.01	.01
KA-MZA-9	4	--	7	<.5	.02	.97	.23	<.01	<.01
KA-MZA-10	350	--	41	.9	.02	6.34	1.77	<.01	.02
KA-MZA-19	19	--	29	.8	.02	6.56	1.67	<.01	<.01
KA-MZA-31	11	--	27	.7	.01	9.40	1.18	<.01	<.01
KA-MZA-40	270	--	22	.7	.02	9.03	1.06	<.01	<.01
KA-MZA-52	>1000	.067	26	1.5	.02	3.67	1.31	<.01	.12
KA-MZA-56	>1000	.041	7	.7	.05	2.44	.21	.02	.08
C DCP CONTROL	--	--	8	<.5	.03	.29	.69	.03	.05
C DCP CONTROL	--	--	8	<.5	.03	.30	.71	.03	.04
C DCP CONTROL	--	--	9	<.5	.03	.32	.76	.03	.05
D 61895	--	--	10	.6	.03	4.80	2.31	<.01	<.01
D 61907	--	--	18	1.3	.04	1.72	1.30	.06	.08
D 61919	--	--	8	1.0	.05	1.35	.70	.05	.14
D 61931	--	--	51	1.4	.03	2.43	3.53	.06	.10
D 61941	--	--	49	.9	.02	4.06	3.23	.01	<.01
D 61953	--	--	5	.9	.04	2.77	.36	<.01	.04
D 61965	--	--	4	.6	.03	3.73	.21	.01	.08
D 61977	--	--	15	.7	.03	6.09	1.99	<.01	.01
D 61987	--	--	21	.8	.02	8.70	.67	<.01	.04
D KA-GP-17	--	--	60	1.3	.06	3.48	3.27	.03	.06

C - QUALITY CONTROL STANDARD
D - QUALITY CONTROL DUPLICATE
> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61895	6.83	14.8	<.01	97	1690	.10	3.68	37
61896	14.1	10.3	<.01	69	1240	.14	2.71	31
61897	5.54	15.8	<.01	104	1520	.11	4.25	45
61898	5.96	14.6	<.01	94	1950	.08	3.63	47
61899	6.33	13.6	<.01	86	1460	.12	3.52	43
61900	3.35	15.2	<.01	96	1790	.09	3.90	46
61901	4.39	15.9	<.01	100	1680	.13	4.13	49
61902	3.64	18.2	.01	249	97	.15	10.9	44
61903	3.94	14.3	<.01	127	65	.18	6.60	39
61904	2.73	14.6	<.01	199	40	.12	5.72	39
61905	6.06	15.4	<.01	170	53	.22	7.10	35
61906	4.32	16.8	.01	172	46	.24	7.89	38
61907	3.83	12.9	<.01	92	56	.20	7.16	32
61908	3.41	11.6	<.01	149	47	.17	6.30	41
61909	4.03	16.7	<.01	231	59	.19	7.05	52
61910	3.56	18.6	<.01	249	45	.17	7.48	52
61911	4.07	15.0	<.01	159	61	.16	5.95	40
61912	5.33	12.0	.01	162	39	.23	7.09	36
61913	3.64	5.1	<.01	90	58	.16	6.78	33
61914	7.69	2.4	.01	33	33	.72	13.5	7
61915	6.59	21.9	.01	177	2590	.44	12.2	120
61916	3.88	8.4	.01	160	48	.12	6.10	46
61917	3.99	10.8	<.01	145	52	.16	6.06	47
61918	3.97	14.2	<.01	181	51	.17	6.33	50
61919	3.61	9.4	<.01	63	67	.14	5.96	35
61920	2.38	11.8	<.01	87	84	.12	6.56	30
61921	3.13	12.4	.01	90	69	.15	5.82	36
61922	4.24	14.5	<.01	148	49	.19	6.88	40
61923	4.74	12.5	<.01	161	57	.18	7.66	45
61924	4.48	19.9	<.01	288	39	.18	8.12	45
61925	5.01	17.2	<.01	231	46	.18	8.30	41
61926	4.12	14.8	<.01	244	51	.17	7.31	44
61927	4.48	24.7	.01	368	56	.17	8.05	43
61928	5.92	17.5	<.01	284	47	.19	6.49	43
61929	5.13	15.8	.01	253	50	.21	6.98	38
61930	5.65	17.0	.01	250	34	.19	7.64	42
61931	4.86	16.9	.01	256	68	.19	7.84	47
61932	5.12	12.4	.01	168	65	.26	9.82	46
61933	4.57	6.7	.01	62	497	.70	14.5	37
61934	5.01	24.8	.01	175	3050	.29	8.11	123
61935	7.50	21.6	.01	158	2540	.49	10.2	88
61936	6.36	22.2	.01	161	2670	.47	9.74	117
61937	6.98	23.9	.01	176	2480	.29	8.44	103
61938	6.04	24.9	.01	177	2390	.26	8.04	103
61939	7.00	25.8	.01	177	2220	.19	5.82	106
61940	5.21	22.7	<.01	159	2450	.17	5.54	106
61941	7.45	22.2	<.01	151	2160	.14	4.75	106
61942	8.56	21.9	<.01	150	2180	.14	4.65	88
61943	6.90	20.0	<.01	153	2470	.22	6.88	98
61944	8.06	22.3	<.01	151	2410	.19	5.62	102

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61945	11.3	14.6	<.01	88	1440	.19	4.67	65
61946	13.8	14.4	<.01	105	1220	.17	4.67	53
61947	18.5	8.0	<.01	45	683	.33	3.50	41
61948	10.0	16.4	<.01	109	1700	.23	6.42	83
61949	18.9	7.4	<.01	16	252	.29	4.40	47
61950	14.5	7.6	<.01	14	159	.32	5.53	81
61951	12.4	10.8	<.01	35	265	.51	9.16	107
61952	8.98	19.0	<.01	76	316	.26	6.05	89
61953	13.2	13.7	<.01	44	196	.31	5.51	74
61954	8.55	13.9	<.01	36	159	.34	6.73	75
61955	7.72	19.8	<.01	93	405	.25	7.27	73
61956	8.35	11.5	<.01	23	199	.38	6.18	120
61957	8.20	18.0	<.01	102	505	.32	7.58	82
61958	11.0	14.6	<.01	57	269	.37	6.60	97
61959	9.81	13.5	<.01	52	469	.37	7.61	80
61960	8.36	12.2	<.01	87	1840	.38	7.73	83
61961	11.0	10.5	<.01	72	1110	.47	9.40	83
61962	9.94	10.4	<.01	42	827	.19	5.34	75
61963	12.1	9.1	<.01	24	452	.20	4.76	74
61964	10.4	6.7	<.01	10	158	.22	3.97	71
61965	9.16	7.2	<.01	14	242	.21	3.88	64
61966	12.0	9.8	<.01	24	448	.21	4.60	81
61967	7.82	6.9	<.01	16	270	.17	3.56	55
61968	9.31	9.8	<.01	21	381	.13	4.27	55
61969	6.50	9.3	<.01	31	652	.10	4.81	72
61970	5.83	9.4	<.01	34	763	.10	4.53	65
61971	9.13	9.4	<.01	31	696	.11	4.31	66
61972	7.76	9.9	<.01	42	800	.11	4.48	64
61973	9.59	12.8	<.01	70	1230	.15	4.56	68
61974	9.14	14.6	<.01	84	1170	.14	5.03	60
61975	14.0	14.6	<.01	77	1230	.22	4.94	75
61976	7.35	19.0	<.01	129	2130	.19	5.66	73
61977	7.03	15.1	<.01	95	1590	.12	4.40	50
61978	7.23	15.2	<.01	99	1630	.11	4.02	50
61979	7.00	13.3	<.01	103	1630	.10	4.01	58
61980	13.2	12.3	<.01	83	1370	.20	3.77	47
61981	7.98	16.8	<.01	124	1940	.54	9.41	55
61982	7.99	15.2	<.01	111	1810	.73	11.0	107
61983	8.36	12.9	<.01	87	1590	.34	6.66	97
61984	9.61	8.4	<.01	45	931	.34	6.14	69
61985	11.5	9.2	<.01	34	580	.16	4.46	63
61986	4.37	9.6	<.01	30	540	.08	4.95	68
61987	6.64	10.0	<.01	33	608	.12	4.61	63
61988	13.1	7.4	<.01	15	265	.22	4.65	65
61989	12.0	6.7	<.01	16	247	.44	6.60	83
61990	7.19	14.3	<.01	93	1460	.54	11.0	98
61991	6.74	6.4	<.01	30	514	.84	12.6	74
61992	5.27	3.5	<.01	20	221	1.33	15.9	66
61993	5.64	4.8	<.01	17	171	.91	14.1	87
61994	5.63	9.7	<.01	51	939	.61	11.8	97

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61995	9.08	9.9	<.01	34	527	.19	5.47	72
61996	8.47	8.6	<.01	30	565	.11	4.42	58
61997	4.03	9.4	<.01	37	726	.06	4.96	67
KA-GP-13	6.69	4.4	<.01	37	53	.87	13.1	7
KA-GP-17	.12	5.1	<.01	65	109	.02	5.21	23
KA-GP-18	.09	10.3	<.01	88	104	.01	12.0	36
KA-GP-23	.03	.7	<.01	6	98	<.01	1.14	4
KA-GP-25	<.01	<.5	<.01	23	178	<.01	21.2	39
KA-MZA-8	1.24	<.5	<.01	4	406	.03	.81	4
KA-MZA-9	1.41	1.3	<.01	12	508	.02	1.03	9
KA-MZA-10	7.97	13.3	<.01	78	1340	.13	4.67	46
KA-MZA-19	8.02	11.6	<.01	74	1440	.12	3.05	53
KA-MZA-31	7.76	10.2	<.01	56	921	.16	4.15	54
KA-MZA-40	11.5	9.3	<.01	53	926	.14	3.81	56
KA-MZA-52	8.85	9.4	<.01	30	550	.40	9.09	158
KA-MZA-56	5.12	4.8	<.01	8	299	.12	2.98	38
C DCP CONTROL	.35	1.1	.06	23	86	.01	1.13	4
C DCP CONTROL	.37	1.1	.05	24	87	.01	1.18	4
C DCP CONTROL	.40	1.4	.07	27	88	.01	1.27	5
D 61895	7.04	15.0	<.01	97	1700	.10	3.63	38
D 61907	4.05	13.0	<.01	94	60	.20	7.29	32
D 61919	3.50	8.8	<.01	58	65	.14	5.68	33
D 61931	4.70	16.0	<.01	243	72	.18	7.48	46
D 61941	7.58	23.0	<.01	158	2260	.15	4.95	108
D 61953	13.0	13.5	<.01	45	199	.31	5.43	72
D 61965	9.11	7.1	<.01	14	251	.21	3.82	64
D 61977	7.20	15.1	<.01	93	1570	.12	4.38	53
D 61987	6.60	9.9	<.01	35	629	.12	4.61	61
D KA-GP-17	.12	5.4	<.01	69	117	.02	5.41	23

C - QUALITY CONTROL STANDARD
D - QUALITY CONTROL DUPLICATE

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61895	422	49.8	27.6	9	63.9	2.8	<.5	<1
61896	352	14.9	20.6	12	240	3.7	<.5	<1
61897	538	32.7	31.3	<3	50.3	2.7	<.5	<1
61898	592	52.5	27.7	5	58.6	2.5	<.5	<1
61899	605	57.1	25.8	<3	65.0	2.9	<.5	<1
61900	605	31.4	29.0	6	34.2	2.2	<.5	<1
61901	630	33.8	31.9	6	37.6	3.2	<.5	<1
61902	67	110	96.8	16700	50.2	3.4	1.2	<1
61903	50	97.5	87.4	14000	56.3	3.5	.9	<1
61904	91	89.5	91.1	1840	40.8	3.4	1.6	<1
61905	36	47.8	126	2970	61.5	10.0	1.4	<1
61906	35	53.1	141	2550	43.0	5.8	2.7	<1
61907	42	28.5	133	10400	50.5	4.4	2.1	<1
61908	67	58.6	172	7710	51.4	4.3	1.2	<1
61909	104	125	198	2900	53.4	4.0	.7	<1
61910	107	127	206	2800	49.8	3.1	.6	<1
61911	87	78.6	160	2490	52.2	5.3	1.8	<1
61912	41	96.5	122	9310	57.6	4.2	1.4	<1
61913	52	197	991	194	56.9	2.7	3.1	<1
61914	15	34.8	76.1	4530	95.5	3.7	3.3	<1
61915	985	114	214	1980	70.0	2.7	<.5	<1
61916	59	80.2	103	429	50.4	4.1	2.0	<1
61917	68	52.0	110	1810	62.9	5.1	1.7	<1
61918	59	76.6	125	717	65.2	5.0	2.2	<1
61919	35	41.0	146	8380	77.5	4.0	1.9	<1
61920	22	27.1	110	3040	55.2	4.8	2.2	<1
61921	50	26.4	120	611	64.3	5.0	2.0	<1
61922	58	74.6	135	3070	72.1	4.3	1.3	<1
61923	64	131	162	7960	85.2	3.8	.5	<1
61924	49	130	131	893	78.4	2.7	1.1	<1
61925	40	122	122	66	84.1	3.1	1.5	<1
61926	63	138	221	58	56.0	3.2	1.6	<1
61927	44	126	149	36	48.1	4.3	1.6	<1
61928	45	121	126	37	78.1	4.3	1.5	<1
61929	43	108	122	33	68.7	4.2	2.2	<1
61930	47	92.2	133	36	86.7	4.5	1.0	<1
61931	65	110	179	60	73.9	5.7	3.0	<1
61932	75	345	1680	244	51.1	4.7	3.8	<1
61933	244	39.2	114	31	69.1	2.7	3.3	<1
61934	923	91.9	104	166	62.5	2.1	<.5	<1
61935	771	75.0	116	173	99.2	2.4	<.5	<1
61936	1020	84.8	114	306	87.8	2.1	<.5	<1
61937	962	76.0	165	493	89.7	4.5	<.5	<1
61938	745	83.7	100	165	67.8	2.3	<.5	<1
61939	803	86.1	93.4	456	89.6	2.9	<.5	<1
61940	1070	90.3	107	359	71.7	1.9	<.5	<1
61941	1040	78.8	70.9	146	118	2.4	<.5	<1
61942	671	86.5	61.6	111	122	2.2	<.5	<1
61943	962	96.9	79.1	5	99.4	2.5	<.5	<1
61944	1020	77.1	91.7	132	71.2	2.5	<.5	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61945	776	52.7	80.3	817	101	4.5	<.5	<1
61946	534	50.7	46.1	39	83.1	4.4	<.5	<1
61947	382	31.1	63.4	194	83.4	8.3	<.5	<1
61948	799	72.3	52.6	928	91.1	4.2	<.5	<1
61949	443	27.7	33.8	941	151	4.7	<.5	<1
61950	764	29.5	35.9	1800	92.7	4.0	<.5	<1
61951	655	113	73.3	897	89.3	2.8	<.5	<1
61952	295	75.1	47.7	517	74.2	2.4	<.5	<1
61953	256	66.0	33.0	581	86.4	4.0	<.5	<1
61954	323	164	37.2	612	72.4	2.3	<.5	<1
61955	238	75.7	51.4	406	72.8	2.5	<.5	<1
61956	512	68.0	24.1	724	70.4	2.2	<.5	<1
61957	355	88.3	56.9	599	73.8	2.7	<.5	<1
61958	378	80.4	30.3	584	69.2	2.5	<.5	<1
61959	395	50.8	36.2	777	90.9	2.9	<.5	<1
61960	569	64.4	59.4	743	58.3	2.3	<.5	<1
61961	529	96.5	59.3	771	58.8	2.5	<.5	<1
61962	689	56.4	50.4	835	60.4	3.9	<.5	<1
61963	779	60.1	36.3	888	68.2	3.6	<.5	<1
61964	609	25.6	22.4	1110	49.3	3.4	<.5	<1
61965	615	10.9	34.6	1320	57.4	2.5	<.5	<1
61966	908	39.9	35.4	1810	85.6	3.3	<.5	<1
61967	583	21.8	58.4	1960	81.0	2.6	<.5	<1
61968	692	23.4	27.4	1650	128	2.8	<.5	<1
61969	1090	12.7	42.4	2210	107	2.3	<.5	<1
61970	1050	35.5	38.3	1890	85.6	2.1	<.5	<1
61971	1040	36.7	32.2	1880	108	2.8	<.5	<1
1972	943	23.2	32.3	1580	108	2.5	<.5	<1
61973	804	44.5	37.7	691	83.5	3.5	<.5	<1
61974	651	46.2	38.7	1150	77.5	3.0	<.5	<1
61975	802	47.4	37.6	1430	101	4.3	<.5	<1
61976	741	70.4	41.5	351	57.7	2.7	<.5	<1
61977	517	54.9	31.5	25	55.3	3.2	<.5	<1
61978	535	53.4	33.4	<3	56.2	2.3	<.5	<1
61979	550	67.6	40.0	4	64.5	2.0	<.5	<1
61980	519	30.9	51.5	5	91.0	3.8	<.5	<1
61981	450	47.1	57.3	47	78.6	3.5	<.5	<1
61982	701	80.5	54.8	230	86.3	2.6	<.5	<1
61983	753	53.0	52.6	209	86.1	3.3	<.5	<1
61984	575	47.8	41.0	196	80.5	4.8	<.5	<1
61985	791	38.6	31.3	1170	139	3.7	<.5	<1
61986	920	36.2	40.4	1410	69.5	1.9	<.5	<1
61987	830	23.8	33.0	1310	110	2.7	<.5	<1
61988	845	42.2	26.9	1560	133	3.6	<.5	<1
61989	814	25.7	25.1	1630	111	3.6	<.5	<1
61990	818	73.9	53.7	1070	74.0	2.3	<.5	<1
61991	647	59.4	39.1	854	67.3	2.2	<.5	<1
61992	797	59.7	46.7	11700	56.0	2.6	<.5	<1
61993	673	45.9	39.9	10800	60.7	2.4	<.5	<1
61994	842	35.9	51.5	1230	66.0	2.1	<.5	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61995	787	45.7	37.7	1780	119	3.3	<.5	<1
61996	764	36.6	42.2	1130	107	2.7	<.5	<1
61997	903	37.4	41.7	1190	61.9	1.5	<.5	<1
KA-GP-13	18	58.1	56.8	10	87.9	3.5	2.5	<1
KA-GP-17	115	17.5	70.8	51	3.5	1.6	5.7	<1
KA-GP-18	182	25200	129	898	4.1	2.9	6.7	6
KA-GP-23	12	101	49.6	83	5.8	2.0	17.4	2
KA-GP-25	151	186	97.0	665	1.0	.6	14.1	<1
KA-MZA-8	63	112	8.8	75	22.1	2.0	<.5	<1
KA-MZA-9	89	10.9	8.2	161	22.2	.6	<.5	<1
KA-MZA-10	457	45.9	42.9	788	108	3.9	<.5	<1
KA-MZA-19	671	25.3	43.7	1140	85.3	7.6	<.5	<1
KA-MZA-31	779	34.5	31.8	1110	90.1	3.3	<.5	<1
KA-MZA-40	883	26.1	30.5	1410	123	3.3	<.5	<1
KA-MZA-52	1610	137	47.8	2910	66.0	3.2	<.5	<1
KA-MZA-56	348	62.4	6.1	767	20.9	5.1	<.5	<1
C DCP CONTROL	11	11.4	15.9	3	7.4	2.6	3.6	2
C DCP CONTROL	11	11.5	16.8	<3	7.3	2.6	3.2	2
C DCP CONTROL	11	12.5	18.0	<3	8.7	2.9	3.7	2
D 61895	410	49.0	26.8	10	66.5	2.8	<.5	<1
D 61907	44	25.0	135	10800	52.3	4.3	<.5	<1
D 61919	33	54.8	142	7940	75.7	3.5	<.5	<1
D 61931	63	112	170	66	72.3	5.0	.9	<1
D 61941	1070	84.3	74.6	152	121	2.4	<.5	<1
D 61953	252	66.0	31.8	578	85.0	3.8	<.5	<1
D 61965	604	10.1	32.3	1310	56.2	2.4	<.5	<1
D 61977	520	59.9	30.7	24	56.6	3.2	<.5	<1
D 61987	813	24.1	33.2	1300	109	2.7	<.5	<1
D KA-GP-17	119	12.1	72.4	44	3.6	1.8	7.5	<1

C - QUALITY CONTROL STANDARD
D - QUALITY CONTROL DUPLICATE

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61895	.1	<1	<10	15	8	<10	<2	4
61896	.2	<1	<10	11	19	<10	<2	<3
61897	<.1	1	<10	14	7	<10	<2	3
61898	.1	1	<10	18	7	<10	<2	<3
61899	.1	1	<10	13	7	<10	<2	5
61900	<.1	1	<10	17	4	<10	<2	6
61901	<.1	1	<10	16	4	<10	<2	6
61902	.5	5	<10	14	18	<10	3	8
61903	<.1	2	<10	11	14	<10	2	4
61904	<.1	2	<10	<5	21	<10	<2	<3
61905	.1	3	<10	<5	26	<10	<2	<3
61906	.2	3	<10	5	20	<10	<2	4
61907	.3	3	<10	9	14	<10	<2	<3
61908	.2	2	<10	24	22	<10	<2	5
61909	.2	3	<10	40	20	<10	<2	<3
61910	<.1	3	<10	36	17	<10	<2	<3
61911	<.1	2	<10	30	18	<10	<2	<3
61912	.4	3	<10	19	28	<10	4	<3
61913	.3	4	<10	23	49	<10	<2	<3
61914	1.2	6	<10	<5	11	<10	2	<3
61915	.9	6	<10	251	13	<10	4	7
61916	<.1	2	<10	6	39	<10	<2	4
61917	<.1	2	<10	5	29	<10	<2	<3
61918	.1	2	<10	8	20	<10	<2	<3
61919	.2	2	<10	8	25	<10	2	<3
61920	.1	2	<10	<5	23	<10	<2	4
61921	<.1	2	<10	<5	25	<10	<2	6
61922	.2	3	<10	5	19	<10	<2	<3
61923	.3	3	<10	9	20	<10	4	5
61924	.2	3	<10	<5	14	<10	<2	<3
61925	.5	3	<10	<5	18	<10	<2	<3
61926	<.1	3	<10	<5	17	<10	<2	<3
61927	<.1	3	<10	<5	9	<10	<2	4
61928	.2	3	<10	<5	15	<10	<2	<3
61929	.2	3	<10	<5	23	<10	<2	4
61930	.1	3	<10	<5	29	<10	<2	5
61931	.1	3	<10	<5	30	<10	3	7
61932	.5	7	<10	<5	23	<10	10	4
61933	1.4	7	<10	5	3	<10	<2	5
61934	.2	3	<10	33	2	<10	<2	5
61935	.7	4	<10	26	2	<10	<2	3
61936	.6	4	<10	24	3	<10	<2	3
61937	.5	3	<10	23	5	<10	<2	5
61938	.4	3	<10	23	2	<10	<2	7
61939	.2	2	<10	25	3	<10	<2	<3
61940	.3	2	<10	25	2	<10	<2	3
61941	.2	2	<10	21	4	<10	<2	<3
61942	.3	1	<10	19	6	<10	<2	4
61943	.1	3	<10	22	100	<10	2	<3
61944	.3	2	<10	22	16	<10	<2	<3

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61945	.2	2	<10	21	12	<10	<2	5
61946	.1	2	<10	12	52	<10	<2	<3
61947	.5	1	<10	8	16	<10	8	<3
61948	.3	2	<10	16	45	<10	3	<3
61949	.5	2	<10	<5	40	<10	2	<3
61950	.7	2	<10	<5	62	<10	3	<3
61951	1.0	4	<10	<5	85	<10	3	<3
61952	.6	2	<10	<5	29	<10	3	4
61953	.5	2	<10	<5	26	<10	<2	<3
61954	.4	3	<10	<5	36	<10	3	<3
61955	.4	3	<10	<5	22	<10	<2	<3
61956	.6	2	<10	<5	35	<10	2	<3
61957	.4	3	<10	5	32	<10	<2	<3
61958	.4	3	<10	<5	31	<10	<2	<3
61959	.4	3	<10	5	48	<10	<2	<3
61960	.6	3	<10	22	45	<10	<2	4
61961	.6	4	<10	11	38	<10	<2	<3
61962	.1	2	<10	23	37	<10	<2	4
61963	.2	2	<10	30	29	<10	<2	4
61964	.6	1	<10	13	39	<10	<2	<3
61965	.2	2	<10	7	34	<10	<2	<3
61966	.3	2	<10	10	17	<10	2	3
61967	<.1	1	<10	5	23	<10	4	<3
61968	<.1	1	<10	6	17	<10	<2	<3
61969	.3	2	<10	12	12	<10	3	<3
61970	.3	1	<10	14	6	<10	<2	<3
61971	.3	1	<10	15	8	<10	<2	<3
61972	.2	2	<10	16	7	<10	<2	3
61973	.4	1	<10	26	7	<10	<2	6
1974	.1	2	<10	14	7	<10	<2	<3
61975	.5	2	<10	13	50	<10	17	3
61976	.2	2	<10	22	67	<10	<2	<3
61977	.1	1	<10	15	8	<10	<2	<3
61978	.2	1	<10	15	27	<10	<2	<3
61979	<.1	1	<10	16	40	<10	<2	3
61980	.2	1	<10	14	146	<10	<2	<3
61981	.8	4	<10	17	106	<10	<2	<3
61982	1.3	5	<10	16	13	<10	<2	<3
61983	.6	3	<10	34	25	<10	<2	<3
61984	.4	2	<10	26	36	<10	<2	<3
61985	<.1	2	<10	15	19	<10	<2	<3
61986	.2	2	<10	16	8	<10	2	6
61987	<.1	2	<10	25	13	<10	<2	<3
61988	.3	2	<10	14	29	<10	<2	<3
61989	.9	3	<10	8	27	<10	3	<3
61990	.8	5	<10	18	12	<10	<2	5
61991	1.4	6	<10	9	19	<10	3	4
61992	2.3	9	<10	10	29	<10	7	<3
61993	1.7	7	<10	9	23	<10	5	5
61994	1.2	6	<10	23	14	<10	3	5

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61995	.5	2	<10	10	21	<10	<2	<3
61996	<.1	2	<10	16	11	<10	<2	<3
61997	.1	2	<10	12	8	<10	<2	7
KA-GP-13	1.4	7	<10	<5	2	<10	<2	<3
KA-GP-17	<.1	1	<10	<5	14	<10	<2	5
KA-GP-18	9.7	5	<10	<5	3	<10	106	40
KA-GP-23	.2	<1	<10	9	37	<10	23	<3
KA-GP-25	7.8	12	<10	152	26	<10	153	30
KA-MZA-8	<.1	<1	<10	<5	7	<10	3	<3
KA-MZA-9	<.1	<1	<10	6	2	<10	<2	<3
KA-MZA-10	.1	2	<10	14	5	<10	<2	<3
KA-MZA-19	<.1	<1	<10	16	6	<10	<2	<3
KA-MZA-31	.1	1	<10	15	3	<10	<2	<3
KA-MZA-40	.4	1	<10	19	11	<10	<2	<3
KA-MZA-52	1.2	4	<10	33	81	<10	4	<3
KA-MZA-56	.3	<1	<10	<5	21	<10	5	<3
C DCP CONTROL	<.1	<1	<10	<5	27	<10	3	<3
C DCP CONTROL	<.1	<1	<10	<5	28	<10	<2	<3
C DCP CONTROL	<.1	<1	<10	<5	29	<10	<2	<3
D 61895	<.1	1	<10	15	8	<10	<2	3
D 61907	.4	3	<10	10	14	<10	<2	<3
D 61919	.2	2	<10	<5	22	<10	<2	<3
D 61931	.1	4	<10	<5	26	<10	<2	4
D 61941	.4	2	<10	17	4	<10	<2	<3
D 61953	.7	2	<10	<5	27	<10	<2	<3
D 61965	.2	1	<10	<5	32	<10	<2	<3
D 61977	.1	2	<10	13	8	<10	<2	<3
D 61987	.4	2	<10	16	13	<10	<2	<3
D KA-GP-17	.2	2	<10	<5	15	<10	<2	5

C - QUALITY CONTROL STANDARD
D - QUALITY CONTROL DUPLICATE

SAMPLE WITH LOW SUMS HAVE BEEN REPEATED WITH NO CHANGE
WE HAVE CHECKED FOR THE FOLLOWING ELEMENTS:

CU, ZN, NI, PB, CO, AS, U, MO

- OF WHICH CU WAS FOUND
  IN GREATER THAN TRACE/MINOR QUANTITIES
  IN SAMPLE # KA-GP-18

  THE MATRIX CORRECTION PROGRAM DOES NOT ACCOUNT FOR
  THE PRESENCE OF THESE ELEMENTS

- OF WHICH NONE WERE FOUND
  IN GREATER THAN TRACE/MINOR QUANTITIES
  IN OTHER SAMPLES

	SAMPLE \ %	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3	MNO	TIO2	P2O5	CR2O3	LOI	SUM
	KA-GP-13	34.4	7.41	10.4	5.20	<.01	<.01	23.9	1.35	.239	.06	<.01	15.5	98.5
	KA-GP-17	57.7	17.0	.44	6.09	5.28	.52	8.84	.05	.494	.09	.01	3.75	100.3
	KA-GP-18	45.6	11.8	.33	2.15	5.05	.17	20.2	.02	.364	.21	.02	10.1	96.1
	KA-GP-23	66.2	18.0	.27	.42	6.92	2.30	2.00	.01	.770	.06	.01	3.35	100.4
	KA-GP-25	28.1	6.49	.22	.33	.64	1.78	37.5	.01	.554	.02	.03	24.5	100.2
	KA-MZA-8	92.2	.43	2.18	1.08	<.01	.17	1.42	.07	.030	.02	.08	2.05	99.7
	KA-MZA-9	90.2	.50	2.48	1.78	<.01	.01	1.71	.05	.046	.02	.10	3.05	100.0
	KA-MZA-10	39.7	4.77	12.8	11.7	.18	.17	8.33	.21	.264	.01	.27	20.1	98.5
	KA-MZA-19	44.0	3.89	12.7	12.2	<.01	<.01	5.60	.20	.327	.02	.26	18.9	98.1
	KA-MZA-31	30.3	2.84	12.8	18.4	<.01	<.01	7.78	.27	.166	.01	.18	26.5	99.3
	KA-MZA-40	27.2	2.64	16.2	16.9	<.01	<.01	6.81	.23	.159	.02	.18	28.4	98.8
	KA-MZA-52	29.7	6.56	14.1	6.85	.16	1.17	16.6	.63	.382	.02	.37	18.6	95.2
	KA-MZA-56	65.3	4.13	8.27	4.34	1.56	.48	5.07	.19	.175	.06	.21	8.95	98.8
C	SY-2	59.9	12.2	7.93	2.69	4.41	4.45	6.41	.33	.141	.44	<.01	.00	99.1
C	SY-2	59.0	12.0	7.89	2.66	4.30	4.43	6.38	.33	.143	.44	<.01	.00	97.7
D	KA-GP-13	33.5	7.23	10.5	5.11	<.01	<.01	24.0	1.36	.210	.06	<.01	15.6	97.6
D	KA-MZA-52	29.0	6.40	13.9	6.77	.20	1.19	16.3	.61	.371	.02	.37	19.0	94.2

XRF W.R.A. SUMS INCLUDE ALL ELEMENTS DETERMINED. FOR SUMMATION, ELEMENTS ARE CALCULATED AS OXIDES

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947

Member of the SGS Group (Société Générale de Surveillance)

	SAMPLE \ PPM	RB	SR	Y	ZR	NB	BA
	KA-GP-13	<10	58	20	47	37	<10
	KA-GP-17	16	31	12	104	25	175
	KA-GP-18	<10	28	<10	61	27	373
	KA-GP-23	76	36	19	198	33	379
	KA-GP-25	48	<10	<10	102	47	325
	KA-MZA-8	<10	15	<10	<10	14	101
	KA-MZA-9	<10	24	<10	<10	21	26
	KA-MZA-10	20	127	<10	16	30	10
	KA-MZA-19	<10	84	14	11	17	<10
	KA-MZA-31	12	104	12	<10	20	<10
	KA-MZA-40	12	126	<10	<10	13	<10
	KA-MZA-52	27	50	<10	19	19	798
	KA-MZA-56	21	<10	<10	14	29	82
C	SY-2	225	270	113	300	<10	393
C	SY-2	221	294	121	293	<10	399
D	KA-GP-13	10	58	18	47	28	23
D	KA-MZA-52	31	64	20	26	23	786

XRAL

X-RAY ASSAY LABORATORIES
A DIVISION OF SGS SUPERVISION SERVICES INC.
1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA
TEL: (416)445-5755 TELEX: 06-986947 FAX: (416)445-4152

CERTIFICATE OF ANALYSIS

REPORT 20454

TO: CYPRUS CANADA
ATTN: D. STEVENSON
66 BRUCE AVE., P.O. BOX 1120
SOUTH PORCUPINE, ONTARIO
PON 1H0

CUSTOMER No. 2294

DATE SUBMITTED
1-Sep-92

REF. FILE 13209-M7

Total Pages 8

52 ROCKS Proj. KERR MINE

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.
AU OZ/TON	FA	.001
LI PPM	ICP	1.
BE PPM	ICP	.5
NA %	ICP	.01
MG %	ICP	.01
AL %	ICP	.01
P %	ICP	.01
K %	ICP	.01
CA %	ICP	.01
SC PPM	ICP	.5
TI %	ICP	.01
V PPM	ICP	2.
CR PPM	ICP	1.
MN %	ICP	.01
FE %	ICP	.01
CO PPM	ICP	1.

	METHOD	DETECTION LIMIT
NI PPM	ICP	1.
CU PPM	ICP	.5
ZN PPM	ICP	.5
AS PPM	ICP	3.
SR PPM	ICP	.5
Y PPM	ICP	.1
ZR PPM	ICP	.5
MO PPM	ICP	1.
AG PPM	ICP	.1
CD PPM	ICP	1.
SN PPM	ICP	10.
SB PPM	ICP	5.
BA PPM	ICP	1.
W PPM	ICP	10.
PB PPM	ICP	2.
BI PPM	ICP	3.

DATE 08-DEC-92

CERTIFIED BY ....
Jean H.L. Opdebeeck, General Manager

XRAL

NOTE 1: As per our list of upper limits in our current schedule of services, some of the results are outside the applicable analytical range. Please contact us should you require assays.

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	AU PPB	AU OZ/TON	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
61998	180	--	21	.8	.02	10.2	.63	<.01	.03
61999	160	--	39	.8	.02	9.49	1.06	<.01	<.01
62000	22	--	11	.8	.03	3.35	.37	<.01	.12
62001	32	--	37	1.1	.02	3.12	1.24	<.01	.11
62002	52	--	52	1.3	.02	3.10	1.63	<.01	.08
62003	190	--	36	.9	.02	4.34	1.05	<.01	.09
62004	470	--	14	.9	.03	4.51	.42	<.01	.11
62005	350	--	11	.9	.02	5.93	.36	<.01	.11
62006	120	--	27	1.0	.02	8.71	.88	<.01	.08
62007	520	--	8	.7	.02	6.54	.27	<.01	.08
62008	60	--	24	.9	.02	8.51	.98	<.01	.05
62009	71	--	24	.8	.02	7.76	1.00	<.01	.04
62010	44	--	24	.9	.02	9.18	.96	<.01	.05
62011	280	--	21	.9	.02	6.94	.82	<.01	.07
62012	300	--	16	.5	.04	2.39	.09	.03	.08
62013	910	--	4	.9	.03	4.49	.17	.01	.11
62014	770	--	10	.8	.02	6.49	.38	<.01	.07
62015	180	--	24	.9	.02	8.35	.99	<.01	.05
62016	800	--	5	.5	.03	3.32	.25	<.01	.03
62017	890	--	1	<.5	.03	1.78	.05	<.01	.02
62018	420	--	8	<.5	.02	4.33	.41	<.01	.02
62019	320	--	18	.6	.02	6.06	.96	<.01	<.01
62020	300	--	8	.5	.02	5.60	.40	<.01	.02
62021	79	--	26	.9	.02	9.54	1.15	<.01	<.01
62022	89	--	24	.8	.02	8.78	1.23	<.01	<.01
62023	110	--	20	.8	.02	8.26	1.12	<.01	<.01
62024	270	--	11	1.0	.03	5.62	.55	.01	.10
62025	>1000	.038	9	1.4	.03	4.21	.36	<.01	.14
62026	>1000	.034	14	1.3	.03	5.28	.71	<.01	.08
62027	230	--	24	.9	.02	7.91	1.54	<.01	<.01
62028	>1000	.049	30	1.0	.02	7.87	1.72	<.01	<.01
62029	150	--	29	.8	.02	6.44	2.05	<.01	<.01
62030	270	--	6	<.5	.02	2.42	.30	<.01	<.01
62031	>1000	.043	22	.8	.02	7.45	1.29	<.01	<.01
62032	>1000	.052	22	.9	.02	6.90	1.55	<.01	<.01
62033	>1000	.059	22	.8	.02	6.55	1.66	<.01	<.01
62034	>1000	.055	16	.8	.02	5.80	1.21	<.01	<.01
62035	>1000	.065	26	1.0	.02	7.27	2.26	<.01	<.01
62036	640	--	18	.7	.02	4.81	1.58	<.01	<.01
62037	570	--	24	.8	.02	5.38	1.85	<.01	<.01
62038	340	--	19	.6	.03	2.91	1.51	.01	.02
62039	>1000	.100	21	1.3	.12	2.94	1.99	<.01	.35
62040	>1000	.065	22	.7	.03	2.92	1.81	<.01	.03
62041	190	--	20	.5	.06	3.52	2.04	<.01	.13
62042	5	--	15	<.5	.08	2.78	1.54	<.01	.19
62043	7	--	16	<.5	.07	2.81	1.60	<.01	.17
62044	3	--	20	.5	.03	3.77	2.24	<.01	.03
62045	<1	--	16	.6	.03	4.02	2.28	<.01	.01
62046	<1	--	20	.5	.03	3.67	2.13	<.01	.06
62047	6	--	16	.6	.03	4.60	2.26	<.01	<.01

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	AU PPB	AU OZ/TON	LI PPM	BE PPM	NA %	MG %	AL %	P %	K %
62048	1	--	19	.5	.04	4.50	2.45	<.01	.01
62049	<1	--	22	<.5	.04	4.07	2.02	<.01	.02
D 62016	790	--	--	--	--	--	--	--	--
D 62020	340	--	--	--	--	--	--	--	--
D 62037	510	--	--	--	--	--	--	--	--
C DCP CONTROL	--	--	8	<.5	.03	.30	.71	.03	.05
C DCP CONTROL	--	--	8	<.5	.03	.30	.70	.03	.05
D 61998	--	--	22	.7	.02	10.1	.65	<.01	.03
D 62010	--	--	23	.9	.02	9.06	.93	<.01	.05
D 62022	--	--	24	.8	.02	8.90	1.24	<.01	<.01
D 62034	--	--	17	.8	.02	5.85	1.26	<.01	<.01
D 62044	--	--	22	.6	.03	4.12	2.46	<.01	.03

C - QUALITY CONTROL STANDARD
D - QUALITY CONTROL DUPLICATE

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
61998	5.92	8.7	<.01	33	613	.14	4.49	61
61999	5.70	11.4	<.01	54	926	.10	4.69	66
62000	17.1	6.8	<.01	21	378	.35	5.09	76
62001	14.5	8.9	<.01	55	1070	.49	7.62	70
62002	13.4	10.1	<.01	73	1370	.50	8.22	81
62003	13.5	8.5	<.01	48	871	.29	5.55	67
62004	13.0	7.1	<.01	23	369	.30	5.33	73
62005	12.9	9.5	<.01	19	275	.21	4.98	58
62006	3.58	10.8	<.01	39	654	.08	5.38	73
62007	8.56	8.2	<.01	17	278	.13	3.97	54
62008	6.58	10.1	<.01	44	770	.11	4.42	59
62009	4.78	10.1	<.01	47	821	.08	4.15	55
62010	5.50	10.4	<.01	45	752	.10	4.59	65
62011	9.65	10.5	<.01	40	681	.14	4.55	67
62012	5.73	4.2	<.01	8	315	.19	3.21	31
62013	12.6	6.2	<.01	12	182	.32	5.49	60
62014	13.4	8.7	<.01	24	391	.16	4.21	55
62015	8.79	11.4	<.01	46	810	.13	4.88	69
62016	5.76	5.2	<.01	16	386	.13	2.83	36
62017	3.48	2.9	<.01	7	267	.11	2.44	28
62018	6.91	5.7	<.01	29	542	.11	2.66	35
62019	9.72	8.5	<.01	53	773	.13	3.36	47
62020	8.53	6.1	<.01	26	465	.14	2.94	39
62021	5.73	10.8	<.01	57	1040	.14	4.62	75
62022	6.72	11.8	<.01	63	1110	.12	4.35	72
62023	13.2	10.2	<.01	58	975	.15	3.87	65
62024	10.3	9.9	<.01	35	581	.25	5.00	85
62025	8.48	8.5	<.01	28	487	.34	7.80	72
62026	9.09	10.4	<.01	40	700	.31	7.13	68
62027	12.6	13.2	<.01	68	1230	.16	4.63	81
62028	9.46	14.4	<.01	77	1220	.15	5.11	62
62029	5.92	11.1	<.01	80	1220	.11	4.03	63
62030	3.63	3.2	<.01	16	451	.06	1.62	20
62031	9.37	10.9	<.01	55	966	.14	4.08	68
62032	7.76	12.3	<.01	67	1170	.14	4.37	74
62033	6.54	12.1	<.01	71	1290	.11	3.91	76
62034	6.58	10.0	<.01	52	903	.12	3.63	68
62035	6.88	14.4	<.01	99	1610	.14	4.70	74
62036	4.54	10.5	<.01	69	1240	.09	3.38	61
62037	8.93	12.8	<.01	76	1320	.17	3.98	73
62038	9.86	9.1	<.01	58	1120	.21	3.24	59
62039	13.6	12.1	<.01	91	1510	.44	7.64	75
62040	13.4	12.2	<.01	72	1230	.20	3.94	71
62041	13.1	12.4	<.01	85	1490	.17	3.30	64
62042	18.0	11.4	.02	78	1340	.20	2.68	59
62043	17.6	11.2	.03	73	1290	.19	2.62	66
62044	8.54	14.6	.04	95	1430	.13	3.37	43
62045	8.38	14.0	.02	95	1550	.12	3.46	76
62046	11.2	10.1	.05	89	1520	.13	3.36	50
62047	3.32	13.6	.02	93	1740	.06	3.55	50

SAMPLE	CA %	SC PPM	TI %	V PPM	CR PPM	MN %	FE %	CO PPM
62048	8.78	5.6	.04	94	1600	.13	3.69	35
62049	7.21	2.3	.03	70	1480	.10	3.03	32
D 62016	--	--	--	--	--	--	--	--
D 62020	--	--	--	--	--	--	--	--
D 62037	--	--	--	--	--	--	--	--
C DCP CONTROL	.37	1.2	.07	25	78	.01	1.20	5
C DCP CONTROL	.36	1.1	.07	24	75	.01	1.18	4
D 61998	5.73	8.5	<.01	33	619	.13	4.40	59
D 62010	5.41	10.2	<.01	44	730	.10	4.52	64
D 62022	6.74	11.8	<.01	63	1110	.12	4.38	72
D 62034	6.51	10.1	<.01	54	935	.12	3.65	67
D 62044	9.06	15.9	.05	104	1560	.13	3.67	53

C - QUALITY CONTROL STANDARD
D - QUALITY CONTROL DUPLICATE

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
61998	906	16.5	33.6	1480	100	2.1	<.5	<1
61999	878	42.5	35.5	1030	87.7	2.1	<.5	<1
62000	921	47.6	42.9	447	102	3.8	<.5	<1
62001	730	44.6	47.2	564	91.8	3.5	<.5	<1
62002	881	31.5	48.9	925	77.9	3.9	<.5	<1
62003	809	43.6	42.8	1180	84.1	3.5	<.5	<1
62004	787	36.5	53.2	1690	88.1	4.6	<.5	<1
62005	627	36.6	36.6	1630	98.8	3.9	<.5	<1
62006	999	41.8	54.2	1820	50.7	1.5	<.5	<1
62007	713	37.7	33.8	3400	120	2.5	<.5	<1
62008	794	36.4	202	1430	93.6	2.2	<.5	<1
62009	748	10.4	44.9	1480	74.5	2.3	<.5	<1
62010	909	36.5	42.8	1620	82.3	1.9	<.5	<1
62011	983	20.1	36.4	2440	126	3.2	<.5	<1
62012	387	12.0	28.2	868	53.0	2.4	<.5	<1
62013	738	66.3	26.2	1670	95.3	4.7	<.5	<1
62014	780	24.9	26.9	5470	150	3.5	<.5	<1
62015	1030	14.3	41.9	2860	116	3.1	<.5	<1
62016	415	35.7	13.9	7700	87.1	2.4	<.5	<1
62017	277	38.8	10.7	9320	47.1	1.5	<.5	<1
62018	473	18.3	19.9	4950	122	2.6	<.5	<1
62019	648	24.5	28.1	3910	164	3.9	<.5	<1
62020	555	16.2	18.6	3310	145	3.0	<.5	<1
62021	1110	15.2	37.7	2210	97.2	2.5	<.5	<1
62022	1070	35.9	35.9	2420	117	3.2	<.5	<1
62023	955	37.5	31.2	2330	183	3.9	<.5	<1
62024	976	45.0	29.8	3760	119	3.8	<.5	<1
62025	724	68.3	25.2	12900	92.2	4.0	<.5	<1
62026	888	108	29.7	19200	97.5	3.9	<.5	<1
62027	1150	27.9	44.6	3920	157	4.0	<.5	<1
62028	635	31.3	41.4	3640	144	4.7	<.5	<1
62029	882	31.6	44.7	1920	93.3	3.3	<.5	<1
62030	270	12.0	10.5	1840	58.5	1.6	<.5	<1
62031	1010	28.5	34.2	8560	152	3.8	<.5	<1
62032	1010	35.4	32.6	5880	113	3.7	<.5	<1
62033	1060	39.7	32.6	3750	82.1	2.6	<.5	<1
62034	896	50.7	26.7	7130	93.7	2.9	<.5	<1
62035	845	32.2	40.0	5510	89.0	3.1	<.5	<1
62036	788	30.4	26.9	1920	59.8	1.7	<.5	<1
62037	938	40.7	29.9	3410	98.2	2.9	<.5	<1
62038	779	32.7	26.3	2220	87.4	2.9	<.5	<1
62039	664	117	37.0	5690	87.1	3.8	<.5	<1
62040	752	44.1	25.6	8870	87.7	2.8	<.5	<1
62041	535	39.0	29.4	1030	99.1	3.3	<.5	<1
62042	374	30.3	27.3	265	122	4.3	<.5	<1
62043	524	22.1	25.4	203	129	2.8	<.5	<1
62044	252	18.8	25.5	63	74.8	2.3	<.5	<1
62045	486	59.0	25.3	115	84.9	2.8	<.5	<1
62046	424	32.3	26.9	49	96.1	2.8	<.5	<1
62047	568	39.3	24.8	26	37.0	2.6	<.5	<1

SAMPLE	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM
62048	326	24.8	29.3	<3	87.0	3.5	<.5	<1
62049	372	26.9	26.9	55	67.7	2.5	<.5	<1
D 62016	--	--	--	--	--	--	--	--
D 62020	--	--	--	--	--	--	--	--
D 62037	--	--	--	--	--	--	--	--
C DCP CONTROL	11	12.2	16.6	<3	7.1	2.6	2.1	3
C DCP CONTROL	10	11.2	16.5	<3	7.0	2.5	1.6	2
D 61998	880	16.5	33.0	1430	98.3	2.0	<.5	<1
D 62010	894	36.0	42.0	1590	81.2	1.8	<.5	<1
D 62022	1080	36.6	35.9	2460	118	3.2	<.5	<1
D 62034	884	50.8	27.4	7050	92.9	2.9	<.5	<1
D 62044	276	18.8	26.8	83	79.5	2.6	<.5	<1

C - QUALITY CONTROL STANDARD
D - QUALITY CONTROL DUPLICATE

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
61998	.4	1	<10	31	7	<10	<2	<3
61999	.4	1	<10	32	3	<10	<2	4
62000	.5	2	<10	13	30	<10	2	<3
62001	.7	3	<10	18	19	<10	<2	<3
62002	.9	3	<10	25	20	<10	<2	<3
62003	.4	2	<10	34	18	<10	3	<3
62004	.7	2	<10	18	22	<10	3	<3
62005	.7	2	<10	10	25	<10	<2	5
62006	.3	2	<10	14	16	<10	<2	4
62007	.3	<1	<10	5	21	<10	3	<3
62008	<.1	2	<10	14	13	<10	58	<3
62009	.2	1	<10	14	10	<10	<2	4
62010	.4	2	<10	13	11	<10	<2	4
62011	.5	1	<10	12	17	<10	2	<3
62012	.3	<1	<10	<5	30	<10	6	<3
62013	1.2	2	<10	6	30	<10	4	<3
62014	.5	1	<10	7	17	<10	4	<3
62015	.3	1	<10	13	14	<10	3	<3
62016	.4	<1	<10	8	10	<10	3	<3
62017	.4	<1	<10	7	6	<10	5	<3
62018	.6	<1	<10	8	6	<10	3	<3
62019	.3	<1	<10	11	6	<10	3	4
62020	.3	<1	<10	8	8	<10	<2	<3
62021	.4	1	<10	19	4	<10	2	<3
62022	.4	1	<10	13	4	<10	3	3
62023	.4	<1	<10	10	5	<10	4	<3
62024	.4	1	<10	7	36	<10	3	<3
62025	.9	3	<10	9	62	<10	4	<3
62026	.6	2	<10	14	38	<10	4	<3
62027	.4	1	<10	13	4	<10	3	5
62028	.7	1	<10	13	5	<10	2	3
62029	.5	1	<10	14	4	<10	<2	<3
62030	.3	<1	<10	<5	3	<10	<2	3
62031	.6	<1	<10	12	5	<10	<2	4
62032	.4	1	<10	13	121	<10	<2	4
62033	1.1	<1	<10	13	39	<10	<2	<3
62034	.3	<1	<10	9	4	<10	<2	<3
62035	.3	1	<10	18	14	<10	2	<3
62036	.2	<1	<10	11	68	<10	<2	<3
62037	.7	<1	<10	14	6	<10	2	4
62038	.3	<1	<10	11	58	<10	2	<3
62039	1.3	3	<10	18	123	<10	5	<3
62040	.7	<1	<10	12	13	16	<2	<3
62041	.4	<1	<10	13	25	<10	<2	<3
62042	.4	<1	<10	10	38	<10	<2	<3
62043	.5	<1	<10	12	31	<10	<2	<3
62044	<.1	<1	<10	12	9	<10	<2	<3
62045	.2	<1	<10	14	9	<10	<2	<3
62046	.1	<1	<10	14	9	<10	<2	<3
62047	.2	<1	<10	17	7	<10	<2	3

SAMPLE	AG PPM	CD PPM	SN PPM	SB PPM	BA PPM	W PPM	PB PPM	BI PPM
62048	.2	<1	<10	14	7	<10	<2	3
62049	.2	<1	<10	13	6	<10	<2	<3
D 62016	--	--	--	--	--	--	--	--
D 62020	--	--	--	--	--	--	--	--
D 62037	--	--	--	--	--	--	--	--
C DCP CONTROL	.2	<1	<10	<5	28	<10	4	<3
C DCP CONTROL	<.1	<1	<10	<5	27	<10	3	<3
D 61998	.4	1	<10	29	6	<10	<2	4
D 62010	.2	1	<10	13	11	<10	2	<3
D 62022	.2	1	<10	14	4	<10	3	<3
D 62034	.6	<1	<10	9	4	<10	<2	3
D 62044	.2	1	<10	14	10	<10	<2	3

C - QUALITY CONTROL STANDARD
D - QUALITY CONTROL DUPLICATE

ASSAYERS
LABORATOIRES/LABORATORIES
DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-1519-RG1

Date: SEP-15-92

Comp: CYPRUS CANADA
Proj: KERR MINE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-11-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
62050	275		
62051	64		
62052	129		
62053	74		
62054	21		
62055	16		
62056	24		
62057	14		
62058	240	206	274
62059	172	187	156
62060	10		
62061	17		
62062	30		
62063	84		
62064	6	5	6
62065	90		
62066	12		
62067	34		
62068	206	200	211
62069	445		
62070	30		
62071	52		

Certifie par/Certified by ______________

J.J. Landers

ASSAYERS
LABORATOIRES/LABORATORIES
DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-1519-RG2

Date: SEP-17-92

Comp: **CYPRUS CANADA**
Proj: KERR MINE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-11-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
62072	61		
62073	26		
62074	118		
62075	130		
62076	9		
62077	7		
62078	36		
62079	17		
62080	55		
62081	13		
62082	278	263	293
62083	51		
62084	29	28	30
62085	12		
62086	38		
62087	162		
62088	8		
62089	25		
62090	15		
62091	10		
62092	8		
62093	10		

Certifie par/Certified by ______________________

J.J. Landers

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DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-1519-RG3

Date: SEP-17-92

Comp: CYPRUS CANADA
Proj: KERR MINE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-11-92

No. D'Echantillon Sample Number	AU PPB	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
62094	24			
62095	*	0.054	0.052	0.056
62096	54			
62097	8			
62098	13			
62099	102			
62100	108			
62101	440			
62102	*	0.039	0.037	0.041
62103	*	0.030		
62104	104			
62105	124			
62106	288			
62107	426			
62108	*14			
62109	38			
62110	54			
62111	81			
62112	84			
62113	82			
62114	*9			
62115	6			

*CORRECTED COPY

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J.J. Landers

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LABORATOIRES/LABORATORIES
DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-1519-RG4

Comp: CYPRUS CANADA
Proj: KERR MINE
Attn: DAVE STEVENSON

Date: SEP-17-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-11-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
62116	46		
62117	65		
62118	15		
62119	98		
62120	73		
62121	15		
62122	42	40	44
62123	34		
62124	27		
62125	<5		
62126	18		
62127	39		
62128	8		
62129	62		
62130	47		
62131	55		
62132	79		
62133	122		
62134	71		
62147	54		
62148	68		
62149	57		

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Certificat/Certificate

2R-1519-RG5

Date: SEP-16-92

Comp: **CYPRUS CANADA**
Proj: KERR MINE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-11-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
62150	9		
62151	79	73	85
62152	10		

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Certificat/Certificate

2R-1520-RG1

Date: SEP-16-92

Comp: **CYPRUS CANADA**
Proj: KERR MINE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-11-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU G/TONNE	AU CH'KS G/TONNE	AU CH'KS G/TONNE
62135	343					
62136	*			0.041	0.040	0.042
62137	*			0.246	0.240	0.252
62138	154					
62139	274					
62140	81	86	76			
62141	240					
62142	*			0.015	0.015	0.015
62143	*			0.041	0.040	0.042
62144	*			0.077	0.076	0.078
62145	262					
62146	256					

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Certificat/Certificate

2R-1579-RG1

Comp: CYPRUS CANADA
Proj: KERR MINE
Attn: DAVE STEVENSON

Date: SEP-24-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-21-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
62153	20		
62154	8		
62155	19		
62156	20		
62157	16		
62158	256	250	262
62159	13		
62160	61		
62161	6		
62162	6		
62163	5		
62164	8		
62165	203	197	209
62166	5		
62167	10		
62168	8		
62169	9		
62170	5		
62171	32	32	32
62172	25		
62173	92	90	94
62174	6		

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Certificat/Certificate

2R-1579-RG2

Date: SEP-22-92

Comp: **CYPRUS CANADA**
Proj: KERR MINE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-21-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
62175	14		
62176	16		
62177	10		
62178	30		
62179	60	56	64
62180	267	294	240
62181	28		
62182	18		
62183	17		
62184	70		
62185	12		
62186	164		

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Certificat/Certificate

2R-1579-RG3

Date: SEP-22-92

Comp: **CYPRUS CANADA**
Proj: KERR MINE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-21-92

No. D'Echantillon Sample Number	AU ozs/ton	AU PPB	AU CH'KS PPB	AU CH'KS PPB
62187	0.001	56		
62188	0.001	38		
62189	0.016			
62191	0.028			
62192	0.003	71		
62193	0.008	230	224	236

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Certificat/Certificate

2R-1594-RM1

Date: SEP-22-92

Comp: CYPRUS CANADA
Proj: KERR MINE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-21-92

Sample Number	Total Wt (g)	+100 M Wt (g)	Assay Value A +100(g/t)	Assay Value A -100(g/t)	Total Weight A +100(mg)	Total Weight A -100(mg)	Metallic A (oz/ton)	Metallic A (g/t)	Net A (oz/ton)	Net A (g/t)
62190	501.55	9.60	6.46	5.69	0.062	2.799	0.004	0.12	0.166	5.70

62153-193 (An)

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Certificat/Certificate

2R-1627-RM1

Comp: **CYPRUS CANADA**
Proj: KERR MINE
Attn: DAVE STEVENSON

Date: SEP-28-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-26-92

Sample Number	Total Wt (g)	+100 M Wt (g)	Assay Value Au +100(g/t)	Assay Value Au -100(g/t)	Total Weight Au +100(mg)	Total Weight Au -100(mg)	Metallic Au (oz/ton)	Metallic Au (g/t)	Net Au (oz/ton)	Net Au (g/t)
46035	1142.76	21.69	2.03	2.74	0.044	3.072	0.001	0.04	0.080	2.73
46036	406.04	33.30	8.08	15.53	0.269	5.789	0.019	0.66	0.435	14.92
46037	917.01	6.43	9.49	3.98	0.061	3.624	0.002	0.07	0.117	4.02

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Certificat/Certificate

2R-1626-RA1

Date: SEP-28-92

Comp: **CYPRUS CANADA**
Proj: KERR MINE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-26-92

No. D'Echantillon Sample Number	AU ozs/ton	AU ozs/ton	AU ozs/ton
46033	0.09		
46034	0.068	0.066	0.070
46038	0.196		
46039	0.110		
46040	0.106		
46041	0.064		
46042	0.095	0.09	0.10
46043	0.130		
46044	0.082		

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2R-1628-RG1

Certificat/Certificate

Date: OCT-02-92

Comp: CYPRUS CANADA
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-26-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
12701	538	520	556			
12702	183	180	186			
12703	*			0.021	0.021	0.021
46001	10					
46002	12					
46003	27					
46004	6					
46005	27					
46006	11					
46007	9					
46008	19					
46009	5					
46010	98	89	107			
46011	<5					
46012	6					
46013	8					
46014	<5					
46015	<5					
46016	<5					
46017	<5					
46018	5					
46019	<5					

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Certificat/Certificate

2R-1628-RG2

Comp: **CYPRUS CANADA**
Proj: KERR
Attn: DAVE STEVENSON

Date: OCT-01-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-26-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
46020	78					
46021	34					
46022	*			0.049	0.051	0.047
46023	*			0.023	0.038	0.042
46024	*			0.040	0.038	0.042
46025	*			0.045	0.043	0.046
46026	87					
46027	10					
46028	*			0.022	0.021	0.023
46029	13					
46030	13					
46031	15					
46032	30					
62194	110					
62195	*			0.021	0.023	0.019
62196	258					
62197	130					
62198	*			0.020	0.018	0.020
62199	375	366	384			
62200	30					
62201	65					

62193 SAMPLE MISSING

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Certificat/Certificate

2R-1628-RG3

Date: OCT-01-92

Comp: **CYPRUS CANADA**
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-26-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
62202	96		
62203	17	14	20
62204	<5		
62205	6		
62206	12		
62207	<5	<5	<5
62208	<5		
62209	<5		
62210	7		
62211	<5		
62212	8		
62213	10	9	11
62214	47		
62215	10		
62216	14		
62217	120	119	120
62218	<5		
62219	ND		
62220	<5		
62221	52		
62222	85		
62223	22		

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Certificat/Certificate

2R-1628-RG4

Comp: **CYPRUS CANADA**
Proj: KERR
Attn: DAVE STEVENSON

Date: OCT-02-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-26-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
62224	5		
62225	332	342	321
62226	8		
62227	13		
62228	8		
62229	80	76	84
62230	50		
62231	58		
62232	312	296	328
62233	130		
62234	127		
62235	65		
62236	33		
62237	116		
62238	24		
62239	18		
62240	66		
62241	9		
62242	39	35	42
62243	52		
62244	36		
62245	52		

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Certificat/Certificate

2R-1628-RG5

Comp: **CYPRUS CANADA**
Proj: KERR
Attn: DAVE STEVENSON

Date: OCT-02-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-26-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
62246	60					
62247	39					
62248	38					
62249	5					
62250	6					
62251	24	22	25			
62252	100					
62253	7					
62254	48					
62255	8					
62256	273	266	280			
62257	40					
62258	7					
62259	116					
62260	<5					
62261	128					
62262	40					
62263	17					
62264	*			0.021	0.020	0.022
62265	513	515	510			
62266	88					
62267	54					

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Certificat/Certificate 2R-1628-RG6

Comp: CYPRUS CANADA
Proj: KERR
Attn: DAVE STEVENSON

Date: OCT-01-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-26-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
62268	10					
62269	515					
62270	50					
62271	40					
62272	52					
62273	191	190	191			
62274	144					
62275	71					
62276	86					
62277	158					
62278	118					
62279	*			0.027	0.028	0.026
62280	65					
62281	352					
62282	175					
62283	18					
62284	107					
62285	641	636	646			
62286	38					
62287	88					
62288	7					
62289	6					

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Certificat/Certificate

2R-1628-RG7

Comp: CYPRUS CANADA
Proj: KERR
Attn: DAVE STEVENSON

Date: OCT-02-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: SEP-26-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU ozs/ton	AU CH'KS ozs/ton	AU CH'KS ozs/ton
62290	21					
62291	177	168	185			
62292				0.092	0.094	0.090
62293	143	143	142			
62294	34					
62295	7					
62296	56					
62297	98					
62298	54					
62299	16					
62300	15					
62301	194	208	189			
62302	270	278	262			
62303	46					
62304	37					
62305	7					
62306	5					
62307	6					
62308	9					
62309	7					
62310	14					

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Certificat/Certificate

2R-1743-RG1

Date: OCT-16-92

Comp: CYPRUS CANADA
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-09-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
46045	257	244	270			
46046	26					
46047	23	24	22			
46048	45					
46049	16					
46050	82					
46051	*			0.020	0.020	0.020
46052	*			0.028	0.025	0.030
46053	103	103	102			
46054	202	198	206			
46055	26					
46056	38					
46057	59					
46058	5					
46059	<5					
46060	6					
46061	12					
46062	<5					
46063	<5					
46064	5	6	<5			
46065	<5					
46066	8					

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Certificat/Certificate

2R-1743-RG2

Date: OCT-21-92

Comp: **CYPRUS CANADA**
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-09-92

No. D'Echantillon Sample Number	AU PPB
46067	14
46068	6
46069	6
46070	<5
46071	<5
46072	<5
46073	22
46074	14
46075	<5
46076	6
46077	<5
46078	<5
46079	8
46080	7
46081	<5
46082	6
46083	10
46084	10
46085	<5
46086	7
46087	8
46088	10

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Certificat/Certificate

2R-1743-RG3

Comp: CYPRUS CANADA
Proj: KERR
Attn: DAVE STEVENSON

Date: OCT-19-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-09-92

No. D'Echantillon Sample Number	AU PPB
46089	30
46090	27
46091	7
46092	29
46093	6
46094	12
46095	7
46096	8
46097	6
46098	5
46099	7
46100	<5
46101	20
46102	9
46103	<5
46104	<5
46105	<5
46106	5
46107	<5
46108	12

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Certificat/Certificate

2R-1837-RA1

Date: OCT-26-92

Comp: CYPRUS
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-23-92

No. D'Echantillon Sample Number	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
46172	0.044		
46173	0.016		
46174	0.024		
46175	0.014		
46176	0.021		
46177	0.035	0.033	0.037
46193	0.008		
46194	0.009		
46195	0.006		
46196	0.008		
46197	0.004		
46198	0.006		
46199	0.007		
46200	0.009		
46201	0.002		
46202	0.001		
46203	0.003		
46204	0.004		
46205	0.001		

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Certificat/Certificate

2R-1840-RA1

Comp: **CYPRUS**
Proj: KERR
Attn: DAVE STEVENSON

Date: OCT-27-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-27-92

No. D'Echantillon Sample Number	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
60701	0.058		
60702	0.019		
60712	0.068		
60722	0.086		
60734	0.042		
60755	0.009		
60756	0.004	0.003	0.005
60771	0.009		
60788	0.017		
60806	0.007		
60812	0.059		
60827	0.153		
60844	0.168		
60845	0.157	0.154	0.159
60856	0.011		
60864	0.013		
60865	0.157		
60872	0.072		
60873	0.293		
60875	0.341		
61000	0.021		
61012	0.034		

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780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-1840-RA2

Date: OCT-27-92

Comp: CYPRUS
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-27-92

No. D'Echantillon Sample Number	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
61013	0.032		
61033	0.051		
61034	0.054		
61035	0.041		
61051	0.043		
61052	0.032		
61067	0.019		
61068	0.023		
61073	0.029	0.026	0.032
61091	0.024		
61092	0.061		
61116	0.022		
61208	0.036		
61209	0.058		

Certifie par/Certified by ______________________

J.J. Landers

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Certificat/Certificate

2R-1838-RG1

Date: OCT-27-92

Comp: **CYPRUS**
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-23-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
46109	<5		
46110	13		
46111	51		
46112	14		
46113	5		
46114	5		
46115	10	12	8
46116	<5		
46117	50		
46118	10		
46119	6		
46120	5		
46121	34		
46122	<5		
46123	<5		
46124	<5		
46125	<5		
46126	40		
46127	6		
46128	<5		
46129	<5		
46130	5		

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Certificat/Certificate

2R-1838-RG2

Date: OCT-28-92

Comp: CYPRUS
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-23-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
46131	37		
46132	3		
46133	<5		
46134	22		
46135	60		
46136	36		
46137	22		
46138	16		
46139	23	25	20
46140	34	27	41
46141	6		
46142	8		
46143	<5		
46144	5		
46145	83		
46146	18		
46147	14		
46148	7		
46149	6		
46150	<5		
46151	6		
46152	7		

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Certificat/Certificate

2R-1838-RG3

Date: OCT-28-92

Comp: **CYPRUS**
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-23-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
46153	11		
46154	9	10	8
46155	65	68	62
46156	21		
46157	22		
46158	23		
46159	<5		
46160	<5		
46161	12		
46162	<5		
46163	9		
46164	10		
46165	<5		
46166	<5		
46167	12		
46168	21		
46169	22		
46170	6		
46171	211	218	204
46178	192	180	204
46179	11		
46180	8		

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Certificat/Certificate

2R-1838-RG4

Date: OCT-27-92

Comp: **CYPRUS**
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-23-92

No. D'Echantillon Sample Number	AU PPB
46181	5
46182	11
46183	<5
46184	5
46185	6
46186	8
46187	16
46188	<5
46189	8
46190	6
46191	32
46192	15

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Certificat/Certificate

2R-1742-RA1

Comp: **CYPRUS CANADA**
Proj: KERR MINE
Attn: DAVE STEVENSON

Date: OCT-14-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-09-92

No. D'Echantillon Sample Number	AU ozs/ton	AU ozs/ton	AU ozs/ton
61801	0.031		
61805	0.064		
61841	0.007		
61842	0.016		
61847	0.120		
61849	0.229		
61858	0.024		
61861	0.036		
61872	0.061		
61873	0.084		
61874	0.014		
61888	0.037		
61902	0.039		
61903	0.093	0.094	0.092
61904	0.011		
61909	0.032		
61919	0.068		
61921	0.019		
61950	0.013		
61953	0.061		
61965	0.011		
61966	0.013		
61992	0.092		

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Certificat/Certificate

2R-1744-RG1

Comp: CYPRUS CANADA
Proj: RECCE
Attn: DAVE STEVENSON

Date: OCT-19-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-09-92

No. D'Echantillon Sample Number	AU PPB	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
DBS1	*	0.020		
DBS2	*	0.024		
DBS3	*	0.020		
DBS4	*	0.028		
DBS5	*	0.172	0.169	0.175
DBS6	*	0.026		
DBS7	301			
DBS8	212			
DBS9	*	0.246		
DBS10	*	0.062		
DBS11	299			
HE1	185			
HE2	163			
HE3	*	0.016		
HE4	*	0.063		
HE5	*	0.015		
HE6	*	0.019		
12901	173			
12902	210			
12903	*	0.018		
12904	*	0.014		
12905	*	0.030		

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Certificat/Certificate

2R-1744-RG2

Date: OCT-19-92

Comp: CYPRUS CANADA
Proj: RECCE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-09-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
12906	9		
12907	5		
12908	5		
12909	15		
12910	34		
12911	155	152	158
12912	13		

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Certificat/Certificate

2R-1931-RG1

Comp: **CYPRUS CANADA INC.**
Proj: KERR MINE
Attn: DAVE STEVENSON

Date: NOV-11-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-09-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
46206	14		
46207	17		
46208	21		
46209	6		
46210	5		
46211	5		
46212	13		
46213	<5		
46214	6		
46215	7		
46216	5		
46217	10		
46218	7		
46219	13	10	16
46220	36		
46221	8		
46222	15		
46223	17	18	16
46224	131	130	132
46225	10		
46226	23		
46227	625	631	617

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Certificat/Certificate

2R-1931-RG2

Comp: **CYPRUS CANADA INC.**
Proj: KERR MINE
Attn: DAVE STEVENSON

Date: NOV-16-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-09-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
46228	21		
46229	422	408	436
46230	18		
46231	16		
46232	74		
46233	8		
46234	<5		
46235	<5		
46236	<5		
46237	<5		
46238	<5		
46239	<5	<5	<5
46240	<5		
46241	6		
46242	<5		
46243	<5		
46244	<5		
46245	31	26	36
46246	<5		
46247	8		
46248	10		
46249	11		

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Certificat/Certificate

2R-1931-RG3

Comp: **CYPRUS CANADA INC.**
Proj: KERR MINE
Attn: DAVE STEVENSON

Date: NOV-16-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-09-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
46250	15		
46251	68	63	72
46252	<5		
46253	<5		
46254	33		
46255	19		
46256	7		
46257	<5		
46258	<5		
46259	11	11	10
46260	<5		
46261	<5		
46262	<5		
46263	7		
46264	<5		
46265	7		
46266	5		
46267	<5		
46268	<5		
46269	<5		
46270	6		
46271	7		

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Certificat/Certificate

2R-1931-RG4

Comp: **CYPRUS CANADA INC.**
Proj: KERR MINE
Attn: DAVE STEVENSON

Date: NOV-11-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-09-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
46272	11		
46273	<5		
46274	4	6	2
46275	5		
46276	17		
46277	5		
46278	<5		
46279	191	186	195
46280	24		
46281	<5		
46282	5		
46283	<5		
46284	<5		
46285	7		
46286	<5		
46287	<5		
46288	<5		
46289	<5		
46290	<5		
46291	9		
46292	<5		

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Certificat/Certificate

2R-1993-RG1

Date: NOV-23-92

Comp: CYPRUS CANADA
Proj: KERR MINE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-18-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
46444	239	245	233			
46445				0.048	0.047	0.048
46446				0.020		
46447				0.025	0.025	0.024
46448				0.014	0.013	0.014
46449				0.023	0.022	0.023
46450				0.026	0.025	0.026
46451				0.022	0.022	0.022
46452	90					
46453				0.019	0.018	0.019
46454	297					
46455				0.068	0.067	0.068
46456				0.010	0.010	0.009
46457	8					
46458	8					

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"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"
"SERVING INDUSTRY FOR OVER 50 YEARS"

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Certificat/Certificate

2R-1993-RG2

Comp: **CYPRUS CANADA**
Proj: KERR MINE
Attn: DAVE STEVENSON

Date: NOV-23-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-18-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
46293	30		
46294	41		
46295	6		
46296	10	10	10
46297	<5		
46298	9		
46299	17		
46300	<5		
46301	7		
46302	5		
46303	<5		
46304	<5		
46305	<5		
46306	<5		
46307	<5	<5	<5
46308	9		
46309	<5		
46310	<5		
46311	<5		
46312	<5		
46313	<5		
46314	<5		

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Certificat/Certificate

2R-1993-RG3

Date: NOV-23-92

Comp: **CYPRUS CANADA**
Proj: KERR MINE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-18-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
46315	<5		
46316	5		
46317	8		
46318	6		
46319	<5		
46320	6		
46321	10		
46322	6	5	6
46323	5		
46324	21		
46325	<5		
46326	<5		
46327	<5		
46328	187	179	194
46329	7		
46330	6		
46331	24		
46332	8		
46333	18		
46334	46	56	36
46335	8		
46336	6		

Certifie par/Certified by ____________________
J.J. Landers

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Certificat/Certificate

2R-1993-RG4

Date: NOV-23-92

Comp: **CYPRUS CANADA**
Proj: KERR MINE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-18-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
46337	12		
46338	6		
46339	10		
46340	8		
46341	<5		
46342	6		
46343	<5		
46344	<5		
46345	20		
46346	<5		
46347	<5		
46348	<5		
46349	<5		
46350	<5		
46351	52		
46352	30		
46353	<5		
46354	<5		
46355	78	78	78
46356	<5		
46357	5		
46358	14		
46359	270	278	261
46360	393	340	445

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Certificat/Certificate

2R-1931-RG5

Comp: **CYPRUS CANADA INC.**
Proj: KERR MINE
Attn: DAVE STEVENSON

Date: NOV-26-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-09-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
61232	26					
61233	*			0.046	0.048	0.044
61257	20					
61258	32					
61280	215	210	220			
61281	21					
61300	*			0.215	0.214	0.216
61301	276					
61331	57					
61332	12					
61366	10					
61367	16					

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DIVISION DE/OF ASSAYERS CORPORATION LTD.
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Certificat/Certificate

2R-2048-RG1

Date: DEC-08-92

Comp: **CYPRUS CANADA INC.**
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-27-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
46361	*			0.119	0.120	0.118
46362	68					
46363	124					
46364	23					
46365	10					
46366	12					
46367	5					
46368	17	18	16			
46369	<5					
46370	9					
46371	11					
46372	89					
46373	<5					
46374	<5					
46375	<5					
46376	26					
46377	<5					
46378	<5					
46379	<5					
46380	5					
46381	5					
46382	5					

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DIVISION DE/OF ASSAYERS CORPORATION LTD.
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Certificat/Certificate

2R-2048-RG2

Date: DEC-04-92

Comp: CYPRUS CANADA INC.
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-27-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU OZ/TONNE
46383	18	15	21	
46384	21			
46385	7			
46386	<5			
46387	<5			
46388	15			
46389	*			0.010
46390	5			
46391	200	190	210	
46392	5			
46393	<5			
46394	16			
46395	29			
46396	14			
46397	5			
46398	37			
46399	32			
46400	81			
46401	34			
46402	36			
46403	19			
46404	11			

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DIVISION DE/OF ASSAYERS CORPORATION LTD.
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Certificat/Certificate

2R-2048-RG3

Date: DEC-08-92

Comp: CYPRUS CANADA INC.
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-27-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
46405	20		
46406	172		
46407	12		
46408	61		
46409	22		
46410	46		
46411	27		
46412	40		
46413	96	98	94
46414	35		
46415	14		
46416	245		
46417	28		
46418	164	150	177
46419	38	36	40
46420	9		
46421	40		
46422	10		
46423	35		
46424	65		
46425	22		
46426	6		

Certifie par/Certified by ____________

ASSAYERS
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DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-2048-RG4

Comp: CYPRUS CANADA INC.
Date: DEC-08-92
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-27-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU OZ/TONNE	AU CH'KS OZ/TONNE	AU CH'KS OZ/TONNE
46427	16					
46428	242					
46429	201					
46430	15					
46431	<5					
46432	446	446	445			
46433	*			0.024	0.020	0.028
46434	409					
46435	69	70	67			
46436	26					
46437	20					
46513	*			0.015	0.018	0.012
46514	10					
46515	186					
46516	153					
46517	99					
46518	188					
46519	480					
46520	*			0.016	0.017	0.015
46521	12					
46522	9					
46523	8					

Certifie par/Certified by ____________

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780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-2048-RG5

Comp: CYPRUS CANADA INC.
Proj: KERR
Attn: DAVE STEVENSON

Date: DEC-03-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: NOV-27-92

No. D'Echantillon Sample Number	AU PPB
46524	9
46525	<5
46526	9

Certifie par/Certified by ____________

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780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-2068-RG1

Date: DEC-14-92

Comp: CYPRUS CANADA INC.
Proj: KERR MINE
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-01-92

No. D'Echantillon Sample Number	AU PPB	AU F.A. ozs./ton
46463	51	
46464	48	
46465	120	
46466	11	
46467	*	0.033
46468	*	0.035
46469	177	
46470	265	
46471	30	
46472	*	0.050
46473	35	
46474	*	0.021
46475	129	
46476	90	
46563	35	
46564	19	
46565	16	
46566	9	
46567	48	
46568	14	
46569	9	
46570	14	

Certifie par/Certified by ____________

ASSAYERS
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DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-2068-RG2

Comp: CYPRUS CANADA INC.
Proj: KERR MINE
Attn: DAVE STEVENSON

Date: DEC-14-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-01-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU F.A. ozs./ton
46571	16			
46572	9			
46573	6			
46574	16			
46575	15			
46576	9			
46577	16			
46578	90			
46579	10			
46580	15			
46581	8			
46582	*			0.091
46583	135			
46584	365	380	350	
46585	295			
46586	*			0.026
46587	65			

Certifie par/Certified by ____________

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"
"SERVING INDUSTRY FOR OVER 50 YEARS"

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DIVISION DE/OF ASSAYERS CORPORATION LTD.
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Certificat/Certificate

2R-2082-RG1

Comp: **CYPRUS**
Proj: KERR
Attn: DAVE STEVENSON

Date: DEC-14-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-04-92

No. D'Echantillon Sample Number	AU PPB	AU ozs/ton	AU F.A. ozs./ton
46661	357		
46662		0.022	
46663		0.021	
46664		0.116	
46665		0.027	
46666		0.068	
46667		0.034	0.021
46668		0.005	0.047
46669	96		0.015
46670	472		
46671		0.098	
46672		0.056	
46673		0.030	
46674		0.049	
46587	*		
46438	37		
46439	31		
46440	302		
46441	550		
46442	76		
46443	48		

*NO SAMPLE

Certifie par/Certified by ________

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Certificat/Certificate

2R-2083-RG1

Comp: **CYPRUS CANADA INC.**
Proj: KERR
Attn: DAVE STEVENSON

Date: DEC-10-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-06-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB
46459	13		
46460	8		
46461	20	20	20
46462	7		
46477	8		
46478	7		
46479	5		
46480	14		
46481	<5		
46482	20		
46483	7	8	6
46484	13		
46485	<5		
46486	13		
46487	5		
46488	5		
46489	42		
46490	5		
46491	7		
46492	<5		
46493	14		
46494	<5		

Certifie par/Certified by ____________

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Certificat/Certificate

2R-2083-RG2

Comp: **CYPRUS CANADA INC.**
Proj: KERR
Attn: DAVE STEVENSON

Date: DEC-15-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-06-92

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB	AU CKS PPB
46495	<5			
46496	17	16	18	
46497	28			
46498	177	188	148	196
46499	<5			
46500	<5			
46501	<5			
46502	20			
46503	13			
46504	<5			
46505	<5			
46506	<5			
46507	23			
46508	12			
46509	34			
46510	<5			
46511	6			
46512	10	9	10	
46527	16			
46528	8			
46529	<5			
46530	<5			

Certifie par/Certified by ____________________

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Certificat/Certificate

2R-2083-RG3

Comp: **CYPRUS CANADA INC.**
Proj: KERR
Attn: DAVE STEVENSON

Date: DEC-11-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-06-92

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB	AU ozs./ton	AU CKS ozs./ton	AU CKS ozs./ton
46531	<5					
46532	24					
46533	21					
46534	<5					
46535	<5					
21HW	135	162	108			
21FW				0.062	0.063	0.061
21OR				0.418	0.400	0.436

Certifie par/Certified by ________________

ASSAYERS
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DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-2105-RG1

Comp: **CYPRUS**

Date: DEC-31-92

Proj:

Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:

Soumis le/Submitted: DEC-13-92

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
46536	70		
46537	*		
46538	62		
46539	28		
46540	29		
46541	8		
46542	90		
46543	10		
46544	5		
46545	21		
46546	38		
46547	5		
46548	16		
46549	<5		
46550	8		
46551	5		
46552	5		
46553	23		
46554	6		
46555	85		
46556	480	514	446
46557	84	81	87

*46537 AU - 0.018 - 0.029 - 0.108 - 0.017 - 0.240 - 0.064 - 0.012 ozs./ton
POSSIBLE METALLICS PRESENT

Certifie par/Certified by ____________

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780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-2105-RG2

Comp: **CYPRUS**
Proj:
Attn: DAVE STEVENSON

Date: DEC-15-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-13-92

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
46558	26		
46559	10		
46560	8		
46561	24		
46562	10		
46588	15		
46589	8		
46590	26		
46591	18		
46592	15	14	16
46593	13		
46594	10		
46595	24		
46596	40		
46597	53	44	62
46598	14		
46599	80		
46600	74		
46601	78		
46602	5		
46603	33		
46604	6		

Certifie par/Certified by ____________

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Certificat/Certificate **2R-2105-RG3**

Comp: **CYPRUS** Date: DEC-15-92
Proj:
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-13-92

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
46605	<5		
46606	54		
46607	37		
46608	22		
46609	14		
46610	5		
46611	46		
46612	49		
46613	15		
46614	6		
46615	8		
46616	7		
46617	<5	<5	<5
46618	5		
46619	<5		
46620	6		
46621	<5		
46622	<5		
46623	30		
46624	6		
46625	20		
46626	11		

Certifie par/Certified by ____________

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Certificat/Certificate

2R-2105-RG4

Comp: **CYPRUS**
Proj:
Attn: DAVE STEVENSON

Date: DEC-21-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-13-92

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB	AU CKS PPB
46627	7			
46628	6			
46629	11			
46630	<5			
46631	<5			
46632	7			
46633	7			
46634	11			
46635	5			
46636	55	49	60	
46637	18			
46638	6			
46639	9			
46640	6			
46641	9			
46642	9			
46643	6			
46644	14			
46645	755	823	686	
46646	16			
46647	674	651	789	583
46648	583	514	720	514

Certifie par/Certified by ____________________

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DIVISION DE/OF ASSAYERS CORPORATION LTD.
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Certificat/Certificate

2R-2105-RG5

Date: DEC-18-92

Comp: **CYPRUS**
Proj:
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-13-92

No. D'Echantillon Sample Number	AU PPB	AU ozs./ton	AU CKS ozs./ton	AU CKS ozs./ton
46649		0.040	0.045	0.034
46650	22			
46708	5			

Certifie par/Certified by ____________

ASSAYERS
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DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-2158-RG1

Date: JANV/JAN-07-93

Comp: **CYPRUS**
Proj: KERR
Attn: DAVE STEVENSON

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: MMM-DD-YY

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB	AU CKS PPB
46650	***			
46651	64			
46652	*			
46653	60			
46654	28			
46655	651	617	583	754
46656	*			
46657	128			
46658	971	994	994	926
46659	10			
46660	64	72	55	
46675	377	417	337	377
46676	99			
46677	47			
46678	8			
46679	<5			
46680	6	6	6	
46681	<5			
46682	10			
46683	7			
46684	24			
46685	129	119	139	

***NO SAMPLE AU OZ/T 46652 0.118, 0.014, 0.057
46656 0.012, 0.102, 0.033, 0.006, 0.453, 0.79 POSSIBLE METALLICS PRESENT

Certifie par/Certified by ______________

ASSAYERS
LABORATOIRES/LABORATORIES
DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-2158-RG2

Comp: **CYPRUS**
Proj: KERR
Attn: DAVE STEVENSON

Date: JANV/JAN-04-93

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: MMM-DD-YY

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB	AU ozs./ton	AU CKS ozs./ton	AU CKS ozs./ton	AU CKS ozs./ton
46686	424						
46687	418						
46688	338						
46689	480						
46690	26						
46691	395	412	377				
46692	120	137	103				
46693	235						
46694	96						
46695	40						
46696	8						
46697	505						
46698	38						
46699	-			0.066	0.058	0.060	0.081
46700	98						
46701	-			0.036	0.044	0.028	0.035
46702	97						
46703	35						
46704	228						
46705	24						
46706	230						
46707	24						
46709	8						
46710	<5						

Certifie par/Certified by ____________

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1520-RG1
ATTN:DAVE STEVENSON
PROJ.:KERR MINE

REPORT No. : T1980

File No. : SE17MA
Date : SEP-21-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %
62135	< 1	0.26	3500	< 10	10	< 1	25	9.1	73	71	470	53	4.5	1.2	2100	< 2	0.02
62136	< 1	0.40	9100	< 10	12	< 1	30	8.7	230	77	580	67	5.4	1.2	2100	< 2	0.02
62137	2	0.18	8200	< 10	7	< 1	< 5	7.0	760	69	270	66	7.0	1.2	2700	< 2	0.02
62138	< 1	0.16	2400	< 10	1	< 1	25	9.8	32	42	470	4	2.5	1.3	1400	< 2	0.02
62139	< 1	0.17	2400	< 10	2	< 1	15	11	44	45	320	6	2.8	1.3	1300	< 2	0.01
62140	< 1	0.22	2800	< 10	2	< 1	25	7.4	52	66	370	14	3.2	1.4	980	< 2	0.01
62141	< 1	0.14	2200	< 10	3	< 1	20	10	38	43	300	16	2.7	1.3	1400	< 2	0.02
62142	< 1	0.17	2400	< 10	< 1	< 1	15	11	46	54	230	36	3.3	1.3	1700	< 2	0.01
62143	< 1	0.21	2300	< 10	4	< 1	10	11	41	55	290	28	4.1	1.3	1800	< 2	0.02
62144	1	0.19	2400	< 10	3	< 1	20	9.7	45	63	260	54	3.8	1.3	1700	< 2	0.02
62145	< 1	0.11	1800	< 10	< 1	< 1	30	14	36	43	180	4	3.3	1.4	1800	< 2	0.02
62146	< 1	0.19	2800	< 10	2	< 1	20	13	54	66	300	6	3.3	1.4	1600	< 2	0.02

SAMPLE #	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
62135	610	62	< 1	20	9	< 10	59	< 1	14	< 10	4	27	5
62136	660	72	< 1	25	11	< 10	63	3	22	< 10	4	41	6
62137	590	14	< 1	30	10	10	67	1	10	< 10	4	20	7
62138	700	< 2	< 1	30	6	< 10	120	< 1	12	< 10	4	17	2
62139	830	< 2	< 1	30	6	< 10	110	< 1	5	< 10	4	17	2
62140	1200	10	< 1	50	9	< 10	72	< 1	8	< 10	3	21	4
62141	660	< 2	< 1	25	8	< 10	100	< 1	5	< 10	4	15	3
62142	710	14	< 1	25	11	< 10	120	< 1	6	< 10	5	32	4
62143	580	270	< 1	15	12	< 10	100	< 1	7	< 10	5	23	6
62144	560	24	< 1	15	13	< 10	100	< 1	9	< 10	4	21	8
62145	670	< 2	< 1	20	9	< 10	160	< 1	4	< 10	5	21	5
62146	1200	< 2	< 1	40	9	< 10	170	< 1	6	< 10	5	24	4

* Corrected copy

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : [signature]

TSL/92

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1519-RG1-5
ATTN:DAVE STEVENSON
PROJ.:KERR MINE

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

REPORT No. : T1979

File No. : SE22MA
Date : SEP-23-1992

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
62050	3	1.9	240	< 10	5	< 1	55	8.4	4	65	1200	250	4.7	1.2	1800	< 2	0.02	820	180	< 1	20	13	< 10	170	15	56	< 10	5	62	13
62051	2	2.4	290	< 10	< 1	< 1	60	8.5	4	56	1300	200	4.5	1.3	1400	< 2	0.01	640	290	< 1	30	15	< 10	280	20	71	< 10	5	50	13
62052	2	1.3	210	< 10	5	< 1	45	9.1	4	62	860	140	4.0	1.2	1600	< 2	0.02	660	74	< 1	30	11	< 10	280	5	40	< 10	5	36	8
62053	2	2.8	55	< 10	< 1	< 1	50	7.2	< 1	48	1200	120	4.4	1.3	1100	< 2	0.01	570	380	< 1	20	15	< 10	300	26	84	< 10	5	64	15
62054	2	0.96	50	< 10	13	< 1	15	7.1	< 1	32	420	66	3.7	1.1	1100	< 2	0.02	260	610	< 1	15	10	< 10	190	8	52	< 10	7	36	14
62055	3	0.31	65	< 10	22	< 1	30	13	1	41	160	63	3.6	1.1	2600	< 2	0.02	470	42	< 1	5	4	< 10	160	< 1	4	< 10	6	80	4
62056	3	0.69	35	< 10	15	< 1	25	13	< 1	44	350	53	4.0	0.95	2800	< 2	0.01	420	66	< 1	5	4	< 10	92	1	14	< 10	6	43	3
62057	3	0.93	35	< 10	7	< 1	30	14	< 1	40	430	73	4.0	0.93	2800	< 2	0.01	380	70	< 1	< 5	5	< 10	89	3	22	< 10	6	56	3
62058	2	1.6	50	< 10	7	< 1	50	14	< 1	51	770	72	4.4	0.93	3100	< 2	0.01	510	66	< 1	< 5	7	< 10	95	12	47	< 10	6	61	5
62059	2	1.2	25	< 10	9	< 1	50	13	< 1	43	540	59	4.6	0.95	3100	2	0.01	380	90	< 1	< 5	6	< 10	90	6	31	< 10	6	58	6
62060	3	0.63	60	< 10	16	< 1	15	12	< 1	51	390	51	3.7	1.1	2400	< 2	0.02	670	140	< 1	10	4	< 10	140	< 1	6	< 10	5	51	4
62061	2	1.9	50	< 10	13	< 1	30	8.5	< 1	50	460	57	5.5	1.0	2300	< 2	0.02	490	190	< 1	< 5	11	< 10	84	25	120	< 10	5	77	8
62062	2	2.6	35	< 10	9	< 1	55	8.2	< 1	60	920	72	5.7	1.0	2300	< 2	0.02	610	150	< 1	< 5	18	< 10	80	39	150	< 10	5	79	12
62063	2	1.2	70	< 10	13	< 1	50	15	< 1	54	860	49	3.8	1.0	2900	< 2	0.01	580	16	< 1	< 5	6	< 10	130	3	23	< 10	7	42	3
62064	3	2.3	40	< 10	9	< 1	35	12	< 1	40	470	63	5.2	0.97	2700	2	0.01	320	160	< 1	< 5	13	< 10	120	31	120	< 10	6	73	8
62065	4	3.1	15	< 10	6	< 1	15	7.6	< 1	35	150	80	7.1	1.0	2700	4	0.02	180	270	< 1	< 5	17	< 10	98	57	180	< 10	5	120	14
62066	2	3.5	15	< 10	13	< 1	10	5.4	< 1	37	110	84	7.8	1.0	2400	8	0.02	180	320	< 1	< 5	19	< 10	78	100	210	< 10	4	130	13
62067	2	1.3	65	< 10	36	< 1	< 5	4.3	< 1	30	160	70	4.0	0.98	1300	4	0.02	190	630	1	< 5	3	< 10	86	13	13	< 10	7	140	6
62068	2	2.2	60	< 10	19	< 1	5	4.7	< 1	31	130	120	6.5	1.0	1600	8	0.02	130	460	11	< 5	9	< 10	71	28	81	< 10	7	250	17
62069	3	3.6	50	< 10	15	< 1	15	4.7	< 1	39	130	86	8.2	1.0	2300	8	0.02	190	360	34	< 5	16	< 10	57	58	190	< 10	5	180	15
62070	2	1.2	60	< 10	37	< 1	< 5	4.6	< 1	31	180	95	4.3	0.96	1400	6	0.02	160	600	19	< 5	3	< 10	85	15	20	< 10	7	120	7
62071	3	1.2	95	< 10	20	< 1	< 5	6.0	1	28	140	110	5.3	1.1	1900	14	0.02	150	350	6	< 5	5	< 10	110	30	41	< 10	6	84	11
62072	3	1.9	50	< 10	26	< 1	< 5	5.1	< 1	44	260	120	6.7	0.89	2000	6	0.03	190	370	4	< 5	10	10	61	89	120	< 10	4	250	10
62073	3	3.5	40	< 10	14	< 1	10	5.5	1	42	95	110	7.9	0.86	2700	8	0.03	120	350	< 1	< 5	24	< 10	78	300	280	< 10	4	240	20
62074	3	3.2	20	< 10	12	< 1	< 5	5.9	< 1	33	38	96	7.2	0.93	2800	4	0.02	53	360	< 1	< 5	19	< 10	81	72	240	< 10	4	220	15
62075	3	2.5	45	< 10	20	< 1	< 5	4.2	2	44	57	130	6.5	0.85	2100	4	0.03	120	420	< 1	< 5	12	< 10	63	61	160	< 10	4	360	11
62076	3	2.3	40	< 10	16	< 1	< 5	4.6	< 1	46	65	96	6.7	0.88	2300	6	0.03	180	400	< 1	< 5	12	< 10	70	87	160	< 10	4	150	11
62077	2	4.3	10	< 10	9	< 1	5	4.2	< 1	39	53	120	9.4	1.0	2400	10	0.02	58	340	20	< 5	24	< 10	66	170	270	10	5	330	19
62078	3	3.0	15	< 10	16	< 1	< 5	5.1	< 1	36	72	100	7.5	1.0	2300	6	0.02	50	360	< 1	< 5	13	< 10	79	56	170	< 10	5	210	12
62079	3	2.0	80	< 10	12	< 1	< 5	5.0	1	40	120	140	6.6	1.0	2300	6	0.03	120	390	< 1	5	17	< 10	79	34	170	< 10	5	65	13
62080	4	2.9	140	< 10	14	< 1	25	6.1	1	48	76	140	9.6	1.1	3200	10	0.02	120	380	4	< 5	17	< 10	130	30	180	< 10	5	100	21
62081	3	1.1	140	< 10	14	< 1	< 5	5.7	2	59	140	86	5.8	0.95	2600	< 2	0.03	280	320	< 1	< 5	12	< 10	130	17	79	< 10	5	53	9
62082	4	1.4	210	< 10	14	< 1	< 5	5.2	4	47	190	540	7.5	0.87	3100	8	0.03	180	370	10	< 5	7	10	100	23	55	< 10	6	310	12
62083	3	2.8	85	< 10	12	< 1	20	5.0	2	41	86	140	9.5	0.98	3100	8	0.02	70	340	< 1	< 5	15	10	120	57	160	< 10	4	300	18
62084	3	2.4	60	< 10	13	< 1	10	5.2	< 1	39	88	110	8.9	0.95	3200	10	0.02	78	340	< 1	< 5	15	< 10	120	80	140	< 10	4	320	14

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1519-RG1-5
ATTN:DAVE STEVENSON
PROJ.:KERR MINE

REPORT No. : T1979

File No. : SE22MA
Date : SEP-23-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
62085	3	2.7	60	< 10	7	< 1	< 5	4.6	< 1	40	72	120	9.0	0.96	3100	8	0.03	70	330	< 1	< 5	20	< 10	110	160	210	< 10	4	260	18
62086	4	2.1	80	< 10	11	< 1	< 5	4.1	< 1	41	100	130	7.4	0.92	2300	6	0.03	140	360	< 1	< 5	13	< 10	110	94	150	< 10	4	300	13
62087	4	3.5	120	< 10	9	< 1	25	6.0	3	34	60	200	11	0.93	5300	10	0.02	83	250	< 1	< 5	16	< 10	120	150	150	30	5	520	20
62088	3	3.1	35	< 10	17	< 1	< 5	5.5	< 1	38	45	120	7.9	0.88	2400	6	0.02	84	320	< 1	< 5	25	< 10	110	320	280	< 10	5	190	18
62089	3	3.1	70	< 10	6	< 1	< 5	4.0	< 1	49	68	120	6.9	0.97	1100	< 2	0.03	280	390	< 1	< 5	35	< 10	130	170	390	< 10	5	200	21
62090	2	2.5	90	< 10	17	< 1	< 5	3.7	< 1	57	78	100	6.0	0.89	890	< 2	0.04	380	420	< 1	< 5	17	< 10	89	94	250	< 10	5	180	11
62091	3	3.1	25	< 10	4	< 1	< 5	3.7	< 1	43	61	100	6.4	0.98	1000	4	0.03	150	400	< 1	< 5	35	< 10	94	150	370	< 10	6	160	22
62092	3	3.0	85	< 10	8	< 1	< 5	4.1	1	45	62	100	6.2	0.98	950	2	0.03	150	380	< 1	< 5	24	< 10	110	100	310	< 10	4	140	15
62093	2	2.9	30	< 10	8	< 1	< 5	4.8	< 1	34	71	51	6.5	0.84	1200	4	0.03	53	410	< 1	< 5	26	< 10	100	270	290	< 10	8	110	17
62094	3	3.1	270	< 10	8	< 1	< 5	3.2	4	46	77	95	6.5	0.97	810	2	0.03	170	410	< 1	< 5	29	< 10	79	91	350	< 10	4	140	18
62095	2	0.93	9500	< 10	9	< 1	< 5	2.9	290	43	260	71	5.0	0.83	930	4	0.03	150	270	< 1	< 5	8	< 10	74	22	81	< 10	3	62	5
62096	2	2.2	470	< 10	9	< 1	< 5	3.8	11	43	350	72	5.2	0.81	890	2	0.02	80	240	< 1	< 5	15	< 10	96	47	200	< 10	4	83	9
62097	1	2.4	80	< 10	10	< 1	< 5	4.2	2	37	100	71	5.5	0.82	1100	4	0.03	88	390	< 1	< 5	21	10	89	1200	230	< 10	10	140	14
62098	3	3.5	120	< 10	3	< 1	< 5	4.4	1	42	170	110	6.2	1.1	1300	4	0.02	100	650	< 1	< 5	25	< 10	83	370	370	< 10	7	160	22
62099	2	3.4	90	< 10	67	< 1	< 5	5.3	< 1	42	54	150	6.8	0.97	1500	6	0.02	64	310	< 1	< 5	30	< 10	84	510	440	< 10	7	150	19
62100	2	3.5	160	< 10	16	< 1	< 5	5.1	< 1	39	59	130	7.1	0.95	1500	4	0.02	68	310	< 1	< 5	27	< 10	85	120	390	< 10	6	180	17
62101	3	3.4	860	< 10	8	< 1	< 5	5.3	15	37	62	110	7.0	0.94	1600	6	0.02	62	310	< 1	< 5	29	< 10	110	80	340	< 10	6	130	20
62102	3	1.6	9300	< 10	8	< 1	< 5	4.8	290	42	160	89	6.8	1.0	1400	6	0.03	170	490	< 1	5	18	20	100	37	190	< 10	5	59	17
62103	2	0.66	9500	< 10	7	< 1	< 5	4.3	250	36	320	75	6.4	0.87	1300	6	0.02	130	340	7	10	9	20	83	13	59	< 10	5	44	12
62104	3	3.3	570	< 10	3	< 1	< 5	3.5	6	52	84	100	6.7	1.1	880	4	0.03	210	410	< 1	10	32	< 10	64	72	390	< 10	5	110	21
62105	3	3.0	360	< 10	12	< 1	< 5	3.0	6	54	82	100	5.9	0.98	680	< 2	0.03	250	430	< 1	< 5	28	< 10	51	93	380	< 10	6	210	18
62106	2	2.8	330	< 10	8	< 1	< 5	2.6	9	49	59	96	5.8	0.96	630	< 2	0.03	240	400	< 1	< 5	28	< 10	51	92	370	60	5	1700	17
62107	3	2.7	190	< 10	7	< 1	< 5	3.5	3	44	72	94	5.8	0.93	740	< 2	0.03	140	400	< 1	< 5	25	< 10	75	81	340	< 10	5	300	16
62108	3	2.8	150	< 10	8	< 1	< 5	2.9	< 1	43	82	87	5.6	0.97	800	< 2	0.03	110	410	< 1	< 5	25	< 10	78	75	320	< 10	5	190	15
62109	2	2.5	70	< 10	5	< 1	< 5	2.5	< 1	36	84	32	5.9	0.79	1100	6	0.03	67	510	< 1	< 5	23	< 10	48	1400	180	< 10	11	180	16
62110	2	3.1	40	< 10	< 1	< 1	< 5	3.9	< 1	38	61	110	6.7	0.96	1400	4	0.03	64	290	< 1	< 5	27	< 10	77	1300	350	< 10	8	150	20
62111	2	3.1	45	< 10	3	< 1	< 5	4.0	1	32	40	74	6.9	0.93	1300	4	0.03	37	320	< 1	< 5	30	< 10	88	1200	320	< 10	10	120	21
62112	1	3.1	50	< 10	5	< 1	< 5	2.3	< 1	41	56	70	6.2	0.98	740	< 2	0.03	170	420	< 1	< 5	24	< 10	48	1500	340	< 10	10	120	16
62113	3	2.9	25	< 10	21	< 1	< 5	4.5	1	36	73	95	6.3	0.84	1600	2	0.02	62	330	< 1	< 5	11	< 10	72	120	160	< 10	7	380	9
62114	4	2.7	45	< 10	68	< 1	110	5.7	2	140	2100	59	10	1.0	6200	< 2	0.10	670	46	< 1	< 5	18	< 10	140	95	100	< 10	4	85	20
62115	4	3.1	60	< 10	10	< 1	120	5.4	< 1	130	2600	65	9.7	1.1	5300	< 2	0.03	730	56	< 1	< 5	22	< 10	130	140	130	< 10	3	84	22
62116	3	3.3	150	< 10	8	< 1	85	5.7	2	90	2300	91	8.0	1.1	3700	< 2	0.02	580	56	< 1	< 5	19	< 10	89	80	120	< 10	4	140	14
62117	4	3.4	55	< 10	16	< 1	10	4.7	< 1	42	250	190	9.6	1.1	2600	16	0.02	130	550	11	< 5	14	< 10	78	69	130	30	7	320	21
62118	3	4.4	30	< 10	4	< 1	10	4.7	1	39	95	160	10	1.0	2700	10	0.02	72	310	< 1	< 5	25	< 10	100	130	250	10	4	450	23
62119	2	2.5	80	< 10	18	< 1	< 5	4.2	< 1	46	110	98	6.4	0.92	1900	< 2	0.03	120	360	< 1	10	14	< 10	60	53	180	< 10	4	280	9

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : [signature]

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1519-RG1-5
ATTN:DAVE STEVENSON
PROJ.:KERR MINE

REPORT No. : T1979

File No. : SE22MA
Date : SEP-23-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
62120	3	0.83	80	< 10	9	< 1	< 5	5.8	2	48	100	89	6.5	0.88	2000	2	0.03	120	400	< 1	< 5	11	< 10	90	41	72	< 10	5	150	9
62121	3	3.2	50	< 10	6	< 1	< 5	5.0	< 1	44	48	120	7.2	0.95	1600	6	0.03	68	310	< 1	< 5	31	< 10	91	100	360	< 10	5	180	19
62122	3	2.1	45	< 10	7	< 1	< 5	6.0	< 1	37	82	90	6.6	0.91	2200	4	0.03	58	410	< 1	< 5	21	< 10	110	70	200	< 10	5	180	14
62123	3	3.3	45	< 10	1	< 1	< 5	5.5	< 1	43	52	94	7.4	0.92	2100	6	0.03	74	340	< 1	< 5	30	< 10	84	240	340	10	5	210	19
62124	3	3.3	30	< 10	6	< 1	< 5	4.0	< 1	45	57	89	6.9	0.94	1300	6	0.03	74	410	2	< 5	30	< 10	33	100	330	< 10	6	150	19
62125	3	3.1	35	< 10	6	< 1	< 5	4.0	< 1	45	63	130	6.4	0.94	1400	2	0.03	78	340	< 1	< 5	22	< 10	48	100	330	< 10	6	140	14
62126	3	3.0	45	< 10	10	< 1	< 5	3.8	< 1	39	67	84	6.3	0.90	1600	4	0.02	70	360	< 1	< 5	17	< 10	41	74	230	< 10	6	160	11
62127	2	2.1	15	< 10	7	< 1	< 5	2.3	< 1	22	200	150	6.1	0.73	1600	8	0.06	83	250	< 1	< 5	8	< 10	22	86	81	< 10	3	750	10
62128	4	3.5	75	< 10	50	< 1	130	5.2	2	110	2900	75	9.2	1.2	3200	< 2	0.04	800	60	< 1	< 5	23	< 10	54	110	130	< 10	3	100	20
62129	2	1.7	10	< 10	6	< 1	45	8.8	< 1	38	1300	46	3.8	1.2	1500	< 2	0.02	450	22	< 1	15	13	< 10	97	25	67	< 10	4	32	6
62130	1	1.2	220	< 10	19	< 1	40	9.0	3	62	1100	65	3.7	1.2	1500	< 2	0.03	490	20	< 1	10	14	< 10	81	17	53	< 10	4	36	7
62131	2	0.77	260	< 10	< 1	< 1	15	5.7	4	59	600	47	2.6	1.2	900	< 2	0.01	280	30	< 1	15	12	< 10	55	18	29	< 10	2	17	5
62132	2	1.6	610	< 10	3	< 1	40	6.5	9	73	1500	56	6.0	1.2	2600	< 2	0.02	520	32	1	15	16	< 10	50	31	70	< 10	3	48	9
62133	3	0.32	630	< 10	10	< 1	10	8.5	10	72	340	51	4.8	1.1	2300	< 2	0.02	540	38	< 1	30	11	< 10	57	4	16	< 10	3	36	6
62134	1	0.46	1300	< 10	< 1	< 1	15	6.9	22	59	540	36	3.7	1.4	1100	< 2	0.01	710	20	< 1	45	11	< 10	67	4	10	< 10	3	26	5
62147	2	0.18	1600	< 10	< 1	< 1	5	5.1	29	68	380	19	3.7	1.4	1000	< 2	0.01	1100	< 2	< 1	60	8	< 10	55	2	< 1	< 10	2	20	3
62148	1	0.23	340	< 10	< 1	< 1	10	8.3	6	54	430	26	2.5	1.3	1100	< 2	0.01	560	< 2	< 1	15	6	< 10	80	< 1	2	< 10	2	10	2
62149	2	0.31	220	< 10	16	< 1	15	8.1	3	49	520	11	2.3	1.3	1300	< 2	0.01	530	20	< 1	10	6	< 10	69	3	6	< 10	2	11	2
62150	2	0.25	440	< 10	< 1	< 1	15	8.1	8	58	490	16	2.2	1.2	1400	< 2	0.01	580	< 2	< 1	15	6	< 10	63	< 1	3	< 10	3	11	2
62151	2	0.40	580	< 10	17	< 1	20	12	10	49	540	13	1.9	1.1	1900	< 2	0.01	430	< 2	< 1	15	7	< 10	120	1	10	< 10	3	11	2
62152	2	0.79	140	< 10	8	< 1	30	6.5	2	41	650	37	1.5	0.86	770	< 2	0.03	190	18	< 1	< 5	8	< 10	51	180	32	< 10	2	12	3

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : W Pare

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1579-RG1

PROJ.:KERR

REPORT No. : T2040

File No. : SE23MA
Date : SEP-30-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al	Fe	Ca	Mg	Na	Ti	Mn	P	Ba	Cr	Zr	Cu	Ni	Pb	Zn	V	Sr	Co	Mo	Ag	Cd	Be	B	Sb	Y	Sc	W	As	Bi	Sn
	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
62153	1.9	2.7	7.6	0.98	0.04	52	960	< 2	8	1300	4	33	470	< 1	29	66	88	34	< 2	9	< 1	< 1	< 10	5	5	10	< 10	< 5	95	< 10
62154	1.8	2.8	6.9	1.0	0.05	43	920	18	84	1200	4	42	530	36	31	64	110	39	< 2	2	< 1	< 1	10	10	6	10	< 10	< 5	70	< 10
62155	1.7	3.1	5.4	1.1	0.03	35	1900	< 2	40	980	6	35	470	14	25	59	56	33	< 2	4	< 1	< 1	10	20	6	14	< 10	< 5	70	< 10
62156	2.9	4.0	3.6	1.1	0.04	56	680	36	9	1500	6	59	640	< 1	34	94	64	46	< 2	3	< 1	< 1	10	15	6	14	< 10	< 5	100	< 10
62157	3.7	4.5	1.4	1.2	0.05	92	600	66	12	1700	2	29	690	< 1	43	100	25	51	< 2	2	< 1	< 1	10	25	7	6	< 10	< 5	110	< 10
62158	1.6	7.4	14	0.76	0.14	180	4000	< 2	190	1200	10	120	790	< 1	34	59	66	58	< 2	4	< 1	< 1	< 10	< 5	8	11	< 10	< 5	120	< 10
62159	2.0	2.7	16	0.81	0.02	690	2100	< 2	12	1300	2	41	670	< 1	35	65	63	49	< 2	3	< 1	< 1	< 10	5	6	6	< 10	< 5	110	< 10
62160	5.3	8.6	4.9	0.88	0.02	710	3500	210	2	470	18	100	340	< 1	290	220	16	50	< 2	3	< 1	< 1	< 10	15	8	22	< 10	< 5	70	< 10
62161	3.3	5.5	4.8	0.81	0.03	540	2400	66	14	400	5	82	380	< 1	68	70	21	59	< 2	2	< 1	< 1	< 10	< 5	5	9	< 10	< 5	35	< 10
62162	3.3	5.7	5.9	0.77	0.03	680	2500	42	21	230	8	59	290	< 1	74	94	38	47	< 2	2	< 1	< 1	< 10	5	5	15	< 10	< 5	30	< 10
62163	3.2	4.4	5.8	0.91	0.03	1200	1700	40	11	960	10	86	490	< 1	60	110	25	48	< 2	2	< 1	< 1	< 10	10	7	18	< 10	10	70	< 10
62164	1.6	2.4	13	0.82	0.01	450	1700	< 2	< 1	830	4	49	320	< 1	20	53	49	27	< 2	2	< 1	< 1	< 10	10	4	11	< 10	< 5	60	< 10
62165	2.0	4.3	8.2	1.1	0.01	36	1200	4	4	1400	7	54	600	< 1	28	73	160	56	< 2	3	4	< 1	< 10	15	4	16	< 10	110	95	< 10
62166	1.3	3.3	6.4	1.1	0.01	19	1200	8	< 1	1000	5	46	420	< 1	17	51	140	42	< 2	2	< 1	< 1	< 10	15	3	13	< 10	35	60	< 10
62167	1.2	3.1	6.1	1.0	0.01	19	1100	14	8	950	5	41	490	< 1	17	46	160	38	< 2	2	< 1	< 1	< 10	15	4	14	< 10	< 5	65	< 10
62168	1.4	2.9	4.2	1.0	0.01	21	950	28	< 1	1100	5	46	380	< 1	15	56	110	31	< 2	2	< 1	< 1	< 10	15	3	13	< 10	< 5	65	< 10
62169	1.9	3.9	6.3	1.1	0.01	30	1200	14	< 1	1400	6	59	490	< 1	30	70	130	64	< 2	3	2	< 1	< 10	20	4	16	< 10	110	90	< 10
62170	2.0	4.7	9.6	1.1	0.01	20	1700	30	< 1	1400	6	48	620	< 1	54	74	260	60	< 2	2	10	< 1	< 10	30	6	15	< 10	450	85	< 10
62171	1.8	6.0	2.5	0.80	0.03	26	1500	410	27	280	10	180	150	3	590	61	35	42	< 2	2	3	< 1	< 10	< 5	4	4	< 10	50	35	10
62172	1.4	6.1	4.7	0.84	0.03	21	2000	420	24	230	11	130	180	< 1	400	71	110	29	< 2	3	3	< 1	< 10	< 5	5	8	< 10	35	35	< 10
62173	1.5	5.4	2.8	0.72	0.04	25	1600	670	31	180	11	370	140	1	2000	41	66	35	< 2	2	4	< 1	< 10	10	6	5	20	85	< 5	< 10
62174	2.5	7.3	4.3	0.87	0.02	59	1900	410	21	110	13	110	73	< 1	150	130	160	36	< 2	2	3	< 1	< 10	5	5	12	< 10	55	35	< 10
62175	1.6	6.9	5.0	0.81	0.03	46	2100	320	21	94	8	84	77	< 1	99	97	160	34	< 2	3	3	< 1	< 10	< 5	4	10	< 10	50	30	< 10
62176	1.5	6.2	5.4	0.85	0.03	35	1700	390	21	170	6	69	180	< 1	78	94	210	43	< 2	3	1	< 1	< 10	5	6	10	< 10	85	15	< 10
62177	1.5	6.6	4.8	0.79	0.03	32	1700	360	20	140	6	100	360	< 1	85	110	190	47	< 2	3	3	< 1	< 10	< 5	5	10	< 10	100	20	< 10
62178	1.4	6.3	5.2	0.82	0.03	28	1800	310	17	170	6	95	98	< 1	46	110	130	38	< 2	3	1	< 1	< 10	< 5	5	11	< 10	65	25	< 10
62179	1.4	6.1	7.4	0.96	0.02	13	2400	140	16	310	6	78	230	< 1	43	53	260	47	< 2	3	5	< 1	< 10	10	6	11	< 10	200	35	< 10
62180	2.7	8.6	5.4	0.93	0.02	37	2600	200	17	470	12	150	430	< 1	83	120	160	60	< 2	3	5	< 1	< 10	10	5	15	< 10	170	60	< 10
62181	0.81	4.0	9.1	1.1	0.01	7	1200	< 2	< 1	1300	1	23	880	< 1	25	29	440	51	< 2	4	14	< 1	< 10	65	4	8	< 10	540	90	< 10
62182	0.68	3.9	7.3	1.2	0.01	7	880	< 2	< 1	1300	1	17	1000	< 1	27	19	350	58	< 2	3	4	< 1	< 10	55	3	8	< 10	170	85	< 10
62183	0.68	4.3	7.5	1.2	0.02	5	940	< 2	< 1	1300	2	18	1100	2	34	19	360	64	< 2	2	< 1	< 1	< 10	35	3	8	< 10	60	75	< 10
62184	0.60	3.9	9.8	1.1	0.01	2	1000	< 2	< 1	920	< 1	20	920	< 1	26	17	590	56	< 2	2	10	< 1	< 10	25	3	7	< 10	410	55	< 10
62185	0.76	4.0	10	1.1	0.01	3	1100	< 2	< 1	1200	2	21	1100	< 1	26	22	600	62	< 2	3	29	< 1	< 10	45	3	8	< 10	1000	90	< 10
62186	0.54	3.7	11	1.1	0.01	< 1	1100	< 2	3	810	1	16	980	< 1	23	17	600	56	< 2	2	40	< 1	< 10	65	3	7	< 10	1400	60	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

TSL/92

Laboratoires TSL/ASSAYERS Laboratories

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1628-RG1

PROJ.:KERR

REPORT No. : T2077

File No. : OC07MA
Date : OCT-10-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
12701	< 1	1.48	6690	< 10	12	< 1	< 5	4.52	< 1	50	84	127	7.48	1.51	1380	< 2	0.04	125	496	5	10	14	< 10	61	59	141	< 10	5	165	10
12702	< 1	1.72	2205	< 10	14	< 1	< 5	4.54	< 1	49	103	123	7.27	1.50	1542	< 2	0.04	102	494	6	5	15	< 10	54	40	167	< 10	5	128	12
12703	< 1	1.14	>9999	< 10	11	< 1	< 5	6.09	< 1	49	140	82	7.78	1.45	2219	< 2	0.03	95	464	6	15	12	< 10	61	23	95	< 10	7	132	8
46001	< 1	2.06	140	< 10	14	< 1	< 5	4.41	< 1	38	90	106	5.15	1.19	1060	< 2	0.03	68	546	6	< 5	16	< 10	86	318	206	< 10	8	168	10
46002	< 1	2.66	30	< 10	< 1	< 1	< 5	3.92	< 1	37	58	124	6.25	1.42	1212	< 2	0.04	64	466	6	< 5	27	< 10	73	582	321	< 10	9	169	18
46003	< 1	1.69	35	< 10	11	< 1	< 5	4.98	< 1	41	48	112	4.39	0.94	1399	< 2	0.03	65	452	4	< 5	14	< 10	84	375	184	< 10	8	149	9
46004	1	3.72	30	< 10	4	< 1	< 5	5.67	< 1	33	26	110	9.73	1.53	2343	< 2	0.03	39	416	6	< 5	31	< 10	108	414	334	< 10	6	139	20
46005	< 1	1.70	40	< 10	5	< 1	< 5	3.40	< 1	49	64	138	4.17	1.20	958	< 2	0.05	101	564	2	5	22	< 10	90	135	252	< 10	5	180	13
46006	< 1	2.65	30	< 10	7	< 1	< 5	5.47	< 1	42	38	117	5.74	1.47	1356	< 2	0.05	76	514	3	5	29	< 10	125	221	311	< 10	6	137	20
46007	< 1	2.37	40	< 10	12	< 1	< 5	5.76	< 1	45	55	73	5.80	1.23	1997	< 2	0.03	63	568	4	< 5	16	< 10	95	166	193	< 10	9	74	10
46008	< 1	2.84	30	< 10	12	< 1	< 5	5.71	< 1	44	35	151	6.36	1.44	1722	< 2	0.04	64	436	4	< 5	22	< 10	99	114	288	< 10	6	96	17
46009	< 1	2.18	50	< 10	8	< 1	15	7.46	< 1	36	48	120	5.26	1.22	2211	< 2	0.03	41	456	6	< 5	14	< 10	124	69	173	< 10	6	120	10
46010	< 1	1.79	90	< 10	18	< 1	< 5	3.96	9	51	269	412	8.19	0.75	1665	< 2	0.03	133	502	44	< 5	5	< 10	56	59	47	180	4	4541	6
46011	< 1	2.27	80	< 10	< 1	< 1	20	7.75	< 1	86	2112	87	7.49	1.87	4207	< 2	0.01	664	80	< 1	10	18	< 10	89	74	90	< 10	4	80	11
46012	< 1	2.84	245	< 10	< 1	< 1	20	4.51	< 1	204	2090	126	8.23	1.41	2110	< 2	0.02	1344	228	< 1	< 5	17	< 10	54	119	103	< 10	3	149	11
46013	< 1	2.90	10	< 10	5	< 1	20	5.35	< 1	87	2475	94	7.48	1.65	2625	< 2	0.02	793	88	< 1	5	20	< 10	73	128	124	< 10	3	81	11
46014	< 1	2.12	40	< 10	91	< 1	15	7.08	< 1	79	1988	105	6.44	1.49	3746	< 2	0.15	559	88	< 1	10	16	< 10	124	104	90	< 10	4	56	10
46015	< 1	1.84	20	< 10	2	< 1	15	9.89	< 1	75	1732	73	5.53	1.83	3195	< 2	0.02	634	40	< 1	10	16	< 10	168	85	74	< 10	5	37	9
46016	< 1	1.26	10	< 10	43	< 1	55	11.83	< 1	58	1261	58	3.23	1.51	2465	< 2	0.08	413	44	< 1	5	13	< 10	154	45	57	< 10	6	29	7
46017	< 1	1.11	10	< 10	23	< 1	45	17.23	< 1	53	964	57	2.54	1.54	2238	< 2	0.06	452	10	< 1	5	12	< 10	245	24	47	< 10	7	27	6
46018	< 1	1.40	155	< 10	< 1	< 1	50	11.38	< 1	95	1131	55	4.54	1.71	2788	< 2	0.02	511	64	< 1	20	12	< 10	148	50	59	< 10	5	35	7
46019	< 1	1.84	275	< 10	< 1	< 1	10	10.29	< 1	83	913	80	6.08	1.73	2810	< 2	0.01	599	162	< 1	35	17	< 10	151	36	110	< 10	5	80	10
46020	< 1	1.98	90	< 10	15	< 1	< 5	3.77	1	64	113	207	9.74	1.15	1400	< 2	0.02	144	436	19	< 5	10	< 10	55	50	106	< 10	4	1191	8
46021	< 1	2.87	90	< 10	1	< 1	< 5	5.07	< 1	45	57	113	7.22	1.48	1819	< 2	0.02	52	434	4	< 5	26	< 10	77	248	270	< 10	4	209	16
46022	< 1	2.00	>9999	< 10	< 1	< 1	< 5	5.58	< 1	50	108	162	8.07	1.42	1337	< 2	0.02	57	622	8	20	24	< 10	55	55	221	< 10	7	86	15
46023	< 1	1.86	>9999	< 10	2	< 1	< 5	4.40	< 1	41	96	101	7.64	1.57	1689	< 2	0.02	47	398	8	15	20	< 10	52	76	187	< 10	4	186	12
46024	< 1	1.89	>9999	< 10	3	< 1	< 5	4.92	< 1	45	114	107	7.61	1.54	1613	< 2	0.02	52	418	7	15	20	< 10	68	56	179	< 10	4	217	13
46025	< 1	1.00	>9999	< 10	4	< 1	< 5	4.97	< 1	40	109	106	6.08	1.35	1459	< 2	0.02	49	412	6	20	14	10	79	26	118	< 10	4	142	10
46026	< 1	2.33	2010	< 10	< 1	< 1	< 5	5.26	< 1	42	40	122	5.57	1.40	1638	< 2	0.02	34	484	3	5	23	< 10	77	63	225	< 10	4	104	14
46027	< 1	1.88	155	< 10	4	< 1	< 5	7.13	< 1	46	46	100	4.49	1.16	1839	< 2	0.03	89	448	2	10	17	< 10	90	49	189	< 10	5	121	11
46028	< 1	1.56	135	< 10	7	< 1	< 5	5.82	< 1	48	57	124	4.14	1.27	1958	< 2	0.02	46	592	3	< 5	9	< 10	64	22	110	< 10	7	74	5
46029	< 1	1.87	160	< 10	7	< 1	< 5	5.45	< 1	51	61	126	4.82	1.31	1736	< 2	0.02	76	416	5	< 5	9	< 10	57	30	121	< 10	5	94	6
46030	< 1	1.39	60	< 10	9	< 1	< 5	3.56	< 1	38	242	120	5.76	0.95	2140	< 2	0.02	149	252	8	< 5	4	< 10	24	29	30	< 10	4	552	5
46031	1	2.50	315	< 10	< 1	< 1	15	5.46	< 1	154	1736	85	10.57	1.66	5321	< 2	0.01	706	102	2	< 5	15	< 10	60	68	76	< 10	3	136	8
46032	< 1	2.20	475	< 10	< 1	< 1	10	5.50	< 1	177	1925	113	7.18	1.57	3226	< 2	0.01	474	94	< 1	10	17	< 10	49	51	88	< 10	4	94	8

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : W Poirier

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1628-RG1

PROJ.:KERR

REPORT No. : T2077

File No. : OC07MA
Date : OCT-10-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
62194	< 1	0.30	1175	< 10	4	< 1	15	11.77	2	43	389	19	5.07	2.13	3013	< 2	0.01	576	780	3	30	6	< 10	531	< 1	9	< 10	7	21	3
62195	< 1	1.19	2500	< 10	4	< 1	10	9.23	< 1	80	901	65	7.10	2.05	2694	< 2	0.01	519	74	< 1	20	12	< 10	300	10	41	< 10	5	45	8
62196	< 1	1.57	1615	< 10	8	< 1	< 5	4.02	< 1	55	156	128	5.62	1.62	1212	< 2	0.03	169	464	4	5	18	< 10	102	42	165	< 10	4	194	12
62197	< 1	1.56	1485	< 10	12	< 1	5	7.02	< 1	74	843	85	7.32	1.87	2392	< 2	0.02	430	250	< 1	15	12	< 10	168	17	77	< 10	5	79	6
62198	< 1	1.00	8125	< 10	17	< 1	< 5	4.86	< 1	47	161	74	6.26	1.51	1758	< 2	0.02	110	406	4	5	10	< 10	96	46	69	< 10	5	107	7
62199	< 1	2.12	1285	< 10	6	< 1	< 5	7.09	< 1	65	577	87	11.58	1.74	3829	< 2	0.02	262	270	5	15	11	< 10	111	31	69	< 10	6	62	7
62200	< 1	1.56	180	< 10	14	< 1	< 5	5.82	< 1	47	193	93	7.53	1.65	2421	< 2	0.03	93	402	6	< 5	15	< 10	103	32	128	< 10	5	65	10
62201	< 1	1.02	80	< 10	10	< 1	< 5	4.34	< 1	21	162	43	5.61	1.36	1724	< 2	0.03	51	264	5	5	6	< 10	76	21	45	< 10	4	58	4
62202	< 1	0.65	115	< 10	8	< 1	< 5	6.76	< 1	37	359	149	7.41	1.46	2868	< 2	0.02	94	256	6	< 5	7	< 10	108	8	39	< 10	4	419	5
62203	< 1	1.40	100	< 10	8	< 1	5	6.19	< 1	108	1074	87	9.36	1.48	3115	< 2	0.01	746	162	7	< 5	10	< 10	89	25	63	< 10	3	125	4
62204	< 1	1.49	30	< 10	17	< 1	< 5	4.73	< 1	33	92	85	5.17	1.35	1665	< 2	0.02	63	414	4	< 5	7	< 10	53	23	91	< 10	4	117	5
62205	< 1	1.91	35	< 10	12	< 1	10	4.49	< 1	28	63	95	5.38	1.20	1786	< 2	0.02	39	392	5	< 5	11	< 10	50	32	133	< 10	5	92	7
62206	< 1	1.96	< 5	< 10	17	< 1	< 5	4.20	< 1	32	88	234	8.23	0.98	1611	< 2	0.01	70	388	19	5	8	< 10	48	31	93	< 10	4	477	5
62207	< 1	0.55	10	< 10	28	< 1	10	2.15	< 1	16	133	24	2.28	0.48	865	< 2	0.02	46	232	3	< 5	< 1	< 10	20	10	8	< 10	2	52	< 1
62208	< 1	3.04	40	< 10	< 1	< 1	5	5.62	< 1	83	920	58	10.97	1.60	5310	< 2	0.01	327	94	5	< 5	9	< 10	48	70	47	< 10	4	80	7
62209	< 1	2.68	20	< 10	12	< 1	15	5.49	< 1	117	2454	103	7.49	1.93	3241	< 2	0.01	527	96	< 1	10	16	< 10	48	41	95	< 10	4	79	8
62210	< 1	1.95	80	< 10	12	< 1	10	6.29	< 1	93	1235	122	7.39	1.89	3075	< 2	0.01	331	88	< 1	10	13	< 10	66	26	71	< 10	4	69	7
62211	< 1	1.97	45	< 10	19	< 1	15	6.68	< 1	101	1873	87	6.45	1.81	3087	< 2	0.01	422	92	< 1	20	13	< 10	64	29	77	< 10	4	65	8
62212	< 1	1.17	30	< 10	17	< 1	60	5.85	< 1	71	1336	61	4.88	1.77	2873	< 2	0.01	459	62	< 1	20	8	< 10	56	13	36	< 10	4	34	4
62213	1	1.86	< 5	< 10	10	< 1	10	6.74	< 1	103	1746	197	9.28	1.86	3490	< 2	0.02	448	64	< 1	5	16	< 10	62	40	86	< 10	4	74	8
62214	< 1	0.75	250	< 10	15	< 1	< 5	6.45	< 1	100	775	68	6.36	1.86	2451	< 2	0.02	441	104	< 1	10	16	< 10	73	11	48	< 10	3	37	10
62215	< 1	1.01	320	< 10	5	< 1	40	8.43	< 1	87	1162	59	4.91	2.12	2066	< 2	0.01	628	62	< 1	15	16	< 10	90	12	48	< 10	4	28	10
62216	< 1	0.38	490	< 10	< 1	< 1	15	9.61	< 1	76	524	33	3.14	2.17	1323	< 2	0.01	647	40	< 1	20	11	< 10	92	< 1	12	< 10	4	14	5
62217	< 1	0.71	895	< 10	< 1	< 1	30	10.11	< 1	68	654	46	3.73	2.23	1347	< 2	0.01	663	58	< 1	35	14	< 10	93	5	29	< 10	5	21	8
62218	< 1	0.52	200	< 10	< 1	< 1	25	11.43	< 1	80	616	39	3.58	2.26	1515	< 2	0.01	815	16	< 1	40	12	< 10	105	23	21	< 10	5	20	6
62219	< 1	0.81	95	< 10	< 1	< 1	40	13.24	< 1	67	887	46	3.51	2.17	1980	< 2	0.01	545	42	< 1	20	13	< 10	111	5	33	< 10	6	28	7
62220	< 1	0.85	135	< 10	3	< 1	20	11.04	< 1	52	563	71	3.96	2.20	1444	< 2	0.02	354	56	< 1	20	19	< 10	98	15	49	< 10	6	32	11
62221	< 1	0.39	760	< 10	< 1	< 1	25	13.17	< 1	74	586	43	3.72	2.18	1459	< 2	0.01	788	62	< 1	30	13	< 10	115	< 1	20	< 10	6	27	6
62222	< 1	0.66	1295	< 10	< 1	< 1	25	9.84	< 1	102	883	67	4.03	2.19	1422	< 2	0.01	924	32	< 1	35	18	< 10	95	5	34	< 10	5	29	9
62223	< 1	0.58	1150	< 10	< 1	< 1	45	10.60	< 1	75	660	45	4.19	2.21	1363	< 2	0.01	747	22	< 1	35	15	< 10	106	3	24	< 10	5	24	9
62224	< 1	0.54	1215	< 10	< 1	< 1	25	7.01	< 1	74	557	33	4.05	2.29	1069	< 2	0.01	754	10	< 1	35	14	< 10	86	4	19	< 10	3	24	8
62225	< 1	0.37	995	< 10	< 1	< 1	25	6.60	< 1	57	718	37	2.96	1.94	927	< 2	0.01	573	22	< 1	15	10	< 10	72	2	25	< 10	3	18	5
62226	< 1	0.75	1635	< 10	< 1	< 1	40	9.91	< 1	94	936	36	3.92	2.23	1356	< 2	0.01	898	14	< 1	35	17	< 10	106	5	35	< 10	4	27	10
62227	< 1	0.67	1360	< 10	< 1	< 1	35	10.15	< 1	82	641	51	4.33	2.20	1411	< 2	0.01	795	60	< 1	30	14	< 10	117	2	24	< 10	5	29	8
62228	< 1	0.52	1435	< 10	6	< 1	20	10.64	< 1	84	549	51	5.04	2.22	1899	< 2	0.01	780	66	4	25	13	< 10	145	< 1	15	< 10	5	24	8

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : W P[illegible]

TSL/92

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1628-RG1

PROJ.:KERR

REPORT No. : T2077

File No. : OC07MA
Date : OCT-10-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
62229	< 1	0.37	1140	< 10	15	< 1	5	6.64	< 1	131	511	133	6.56	1.81	2113	< 2	0.02	778	168	3	15	12	< 10	76	2	14	< 10	4	23	8
62230	< 1	0.54	920	< 10	10	< 1	< 5	7.32	< 1	120	486	65	6.21	1.92	2160	< 2	0.02	607	82	< 1	10	13	< 10	67	3	21	< 10	3	28	9
62231	< 1	0.94	1110	< 10	10	< 1	< 5	6.93	< 1	138	723	88	5.98	1.97	1740	< 2	0.01	753	68	< 1	15	13	< 10	67	7	24	< 10	3	32	8
62232	< 1	0.59	990	< 10	17	< 1	< 5	9.27	< 1	113	339	61	6.07	1.94	2204	< 2	0.01	756	24	3	10	11	< 10	87	2	8	< 10	4	29	7
62233	< 1	0.95	925	< 10	10	< 1	5	7.53	< 1	125	777	85	5.71	1.96	1879	< 2	0.02	726	64	2	10	14	< 10	74	7	28	< 10	3	32	8
62234	< 1	0.26	895	< 10	26	< 1	< 5	8.21	< 1	132	313	97	7.12	1.93	2374	< 2	0.02	933	36	2	10	11	< 10	89	< 1	7	< 10	3	28	5
62235	< 1	0.61	780	< 10	10	< 1	< 5	6.92	< 1	132	565	87	7.23	1.97	2430	< 2	0.02	813	74	2	10	14	< 10	72	5	26	< 10	3	35	8
62236	< 1	0.97	810	< 10	8	< 1	5	6.77	< 1	123	761	96	5.93	1.94	2005	< 2	0.02	697	134	< 1	5	16	< 10	69	8	41	< 10	3	35	10
62237	< 1	0.41	950	< 10	5	< 1	25	11.00	< 1	73	225	52	4.34	2.19	2036	< 2	0.01	470	98	1	20	12	< 10	123	< 1	7	< 10	6	25	6
62238	< 1	1.49	1090	< 10	5	< 1	35	8.74	< 1	104	897	62	5.31	2.21	1535	< 2	0.01	717	62	< 1	20	15	< 10	92	28	57	< 10	4	58	8
62239	< 1	1.25	950	< 10	5	< 1	25	10.11	< 1	89	732	62	5.32	2.23	1892	< 2	0.01	671	50	< 1	20	13	< 10	93	4	39	< 10	6	44	8
62240	< 1	1.13	1040	< 10	9	< 1	10	9.22	< 1	92	983	45	5.50	2.12	2027	< 2	0.01	795	44	4	15	10	< 10	74	6	36	< 10	6	40	7
62241	< 1	1.63	625	< 10	7	< 1	10	8.66	< 1	84	1264	48	5.94	2.18	1967	< 2	0.02	655	44	< 1	20	13	< 10	77	10	53	< 10	6	46	7
62242	< 1	0.84	1575	< 10	8	< 1	20	10.44	< 1	83	558	48	4.84	2.21	1783	< 2	0.02	782	52	< 1	15	12	< 10	125	< 1	22	< 10	6	33	6
62243	< 1	0.41	1285	< 10	6	< 1	20	11.50	< 1	62	390	63	4.61	2.19	2010	< 2	0.02	642	24	1	25	10	< 10	144	< 1	8	< 10	7	24	6
62244	< 1	0.34	1235	< 10	4	< 1	30	10.86	1	56	447	26	4.43	2.14	1807	< 2	0.02	657	30	1	20	8	< 10	142	< 1	7	< 10	6	23	4
62245	< 1	1.00	1090	< 10	< 1	< 1	40	10.35	< 1	69	1078	44	4.77	2.23	1516	< 2	0.01	794	36	< 1	20	12	< 10	123	2	26	< 10	6	38	6
62246	< 1	0.56	785	< 10	3	< 1	25	11.42	< 1	74	617	62	5.36	2.17	1951	< 2	0.01	763	48	2	15	9	< 10	102	< 1	11	< 10	6	30	5
62247	< 1	0.64	1025	< 10	3	< 1	40	11.83	< 1	59	771	46	5.02	2.23	2234	< 2	0.02	631	30	< 1	20	9	< 10	110	< 1	19	< 10	7	29	5
62248	< 1	1.06	400	< 10	6	< 1	10	10.09	< 1	89	1178	56	5.57	2.15	2034	< 2	0.01	827	48	1	15	8	< 10	76	3	23	< 10	6	42	5
62249	< 1	2.25	170	< 10	7	< 1	10	8.17	< 1	103	1525	92	6.18	2.17	1753	< 2	0.01	636	90	< 1	15	10	< 10	65	17	63	< 10	5	73	6
62250	< 1	2.61	250	< 10	6	< 1	15	6.96	< 1	109	2495	83	8.07	2.11	2227	< 2	0.01	990	76	< 1	25	15	< 10	75	31	86	< 10	4	91	7
62251	< 1	1.32	120	< 10	13	< 1	5	4.87	< 1	31	509	55	6.47	1.53	2766	< 2	0.03	300	168	6	< 5	3	< 10	58	20	18	< 10	4	96	4
62252	< 1	3.16	230	< 10	10	< 1	10	4.09	< 1	107	1963	80	12.09	1.72	3615	< 2	0.02	794	106	6	10	12	< 10	63	62	81	< 10	3	126	6
62253	1	3.13	245	< 10	7	< 1	20	6.13	< 1	110	3002	82	11.71	1.97	3974	< 2	0.01	777	50	< 1	15	19	< 10	92	61	118	< 10	3	98	8
62254	< 1	1.94	360	< 10	4	< 1	15	6.17	< 1	79	2024	40	7.82	1.99	3023	< 2	0.01	665	62	< 1	10	16	< 10	126	33	80	< 10	3	63	9
62255	< 1	0.70	1285	< 10	4	< 1	35	8.56	< 1	67	754	43	5.41	2.48	1616	< 2	0.01	850	38	2	30	12	< 10	163	3	23	< 10	4	38	7
62256	< 1	0.51	915	< 10	14	< 1	< 5	10.68	< 1	94	645	60	8.00	2.15	2896	< 2	0.02	842	104	5	15	11	< 10	154	< 1	12	< 10	4	45	6
62257	< 1	0.25	1240	< 10	10	< 1	15	8.17	< 1	62	363	40	5.27	2.39	1146	< 2	0.01	846	38	< 1	30	9	< 10	124	< 1	2	< 10	4	36	5
62258	< 1	0.48	870	< 10	3	< 1	< 5	7.92	< 1	66	467	52	5.85	2.41	1107	< 2	0.02	708	48	4	15	12	< 10	104	32	12	< 10	4	44	7
62259	< 1	0.21	775	< 10	4	< 1	15	9.73	< 1	56	297	45	5.08	2.17	1235	< 2	0.01	501	38	< 1	20	10	< 10	132	< 1	4	< 10	4	35	5
62260	< 1	0.46	1005	< 10	5	< 1	< 5	6.56	< 1	67	460	54	6.05	2.45	1099	< 2	0.01	631	54	4	15	13	< 10	103	< 1	5	< 10	3	46	7
62261	< 1	0.29	1165	< 10	6	< 1	< 5	9.43	< 1	69	419	51	5.73	2.28	1579	< 2	0.02	774	56	2	20	10	< 10	117	< 1	5	< 10	4	34	6
62262	< 1	0.30	1125	< 10	9	< 1	25	9.83	< 1	74	386	43	5.48	2.27	1420	< 2	0.02	852	80	2	25	10	< 10	105	< 1	2	< 10	4	42	6
62263	< 1	0.50	790	< 10	8	< 1	< 5	5.40	< 1	66	534	50	6.07	2.53	1001	< 2	0.02	752	84	3	25	12	< 10	61	1	8	< 10	3	47	7

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

Laboratoires TSL/ASSAYERS Laboratories

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1628-RG1

PROJ.:KERR

REPORT No. : T2077

File No. : OC07MA
Date : OCT-10-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
62264	< 1	0.35	2665	< 10	11	< 1	< 5	7.11	< 1	65	383	44	5.72	2.48	1034	< 2	0.02	747	8	4	20	11	< 10	114	< 1	8	< 10	4	44	6
62265	< 1	0.48	3985	< 10	9	< 1	5	10.48	< 1	55	421	45	4.64	2.24	1332	< 2	0.02	571	58	< 1	25	12	< 10	124	< 1	15	< 10	4	30	7
62266	< 1	0.95	1375	< 10	12	< 1	55	11.83	< 1	67	1179	39	4.67	2.30	1436	< 2	0.02	804	26	< 1	20	12	< 10	89	23	38	< 10	5	42	7
62267	< 1	1.22	570	< 10	2	< 1	65	13.17	< 1	60	1374	43	4.77	2.24	1510	< 2	0.02	777	18	< 1	15	12	< 10	75	7	49	< 10	5	42	7
62268	< 1	1.77	565	< 10	< 1	< 1	70	8.71	< 1	68	1780	47	5.04	2.32	1137	< 2	0.01	702	38	< 1	25	16	< 10	64	27	74	< 10	5	37	9
62269	< 1	1.33	705	< 10	< 1	< 1	55	10.30	< 1	60	1297	33	4.09	2.22	1238	< 2	0.01	583	38	< 1	15	12	< 10	71	14	51	< 10	4	37	6
62270	< 1	0.53	730	< 10	1	< 1	40	13.54	< 1	54	845	35	4.24	2.06	1740	< 2	0.02	575	14	< 1	15	11	< 10	78	1	34	< 10	5	40	6
62271	< 1	0.24	1100	< 10	5	< 1	30	14.96	< 1	66	421	35	4.06	2.10	1946	< 2	0.02	631	12	2	15	8	< 10	92	< 1	7	< 10	6	39	4
62272	< 1	1.50	1350	< 10	< 1	< 1	55	10.15	< 1	57	1342	37	4.96	2.35	1292	< 2	0.02	691	48	< 1	25	14	< 10	94	15	60	< 10	5	37	8
62273	< 1	1.07	2505	< 10	7	< 1	45	10.54	< 1	65	1069	44	4.88	2.29	1353	< 2	0.02	783	40	1	15	13	< 10	106	4	42	< 10	5	35	7
62274	< 1	1.21	1350	< 10	< 1	< 1	50	9.18	< 1	67	1231	40	4.74	2.40	1147	< 2	0.02	783	30	1	35	13	< 10	83	8	43	< 10	4	67	7
62275	< 1	1.74	810	< 10	< 1	< 1	60	8.35	< 1	66	1490	53	5.14	2.42	1071	< 2	0.02	726	54	< 1	40	16	< 10	75	19	65	< 10	4	39	9
62276	< 1	1.42	1115	< 10	< 1	< 1	50	7.95	< 1	64	1353	39	4.74	2.41	1029	< 2	0.01	728	54	2	35	15	< 10	74	13	49	< 10	3	34	7
62277	< 1	0.60	1900	< 10	4	< 1	25	9.65	< 1	76	924	54	4.50	2.12	1424	< 2	0.02	844	32	1	35	13	< 10	65	4	36	< 10	4	26	7
62278	< 1	1.00	1435	< 10	2	< 1	10	11.26	2	73	1231	56	5.89	2.15	1925	< 2	0.02	701	56	5	15	17	< 10	77	49	73	< 10	5	40	11
62279	< 1	0.62	>9999	< 10	15	< 1	< 5	10.56	< 1	98	769	94	7.93	2.10	2854	< 2	0.02	980	52	3	20	14	< 10	94	9	37	< 10	4	30	8
62280	< 1	0.96	2060	< 10	4	< 1	55	12.87	< 1	72	1171	45	5.45	2.22	1836	< 2	0.02	872	58	2	15	15	< 10	98	12	51	< 10	6	47	8
62281	< 1	1.50	5575	< 10	< 1	< 1	100	11.67	< 1	83	2221	54	5.47	2.16	1844	< 2	0.02	896	74	1	25	18	< 10	92	30	102	< 10	5	44	11
62282	< 1	1.88	950	< 10	26	< 1	75	10.35	< 1	80	2113	71	5.05	2.18	1591	< 2	0.04	783	52	< 1	30	18	< 10	68	33	97	< 10	5	48	10
62283	< 1	1.87	410	< 10	< 1	< 1	75	14.50	< 1	78	1941	55	4.55	2.10	2114	< 2	0.02	742	14	< 1	20	16	< 10	95	26	83	< 10	6	48	9
62284	< 1	1.46	1505	< 10	< 1	< 1	75	13.79	< 1	69	1728	47	4.75	2.26	1793	< 2	0.02	807	30	12	35	15	< 10	100	17	72	< 10	6	57	9
62285	< 1	0.87	7005	< 10	< 1	< 1	50	13.69	< 1	61	1051	48	4.78	2.22	1900	< 2	0.02	723	2	2	15	12	< 10	142	5	50	< 10	6	33	7
62286	< 1	1.25	1560	< 10	< 1	< 1	70	14.47	1	66	1574	48	4.68	2.27	1872	< 2	0.02	857	20	< 1	35	14	< 10	102	9	53	< 10	6	40	7
62287	< 1	1.19	1570	< 10	< 1	< 1	60	12.15	< 1	60	1475	60	4.78	2.29	1954	< 2	0.02	752	64	< 1	20	13	< 10	80	10	53	< 10	6	38	8
62288	< 1	2.57	65	< 10	18	< 1	65	15.40	< 1	56	1821	44	4.75	2.07	2243	< 2	0.03	556	24	< 1	15	18	< 10	104	29	97	< 10	6	106	10
62289	< 1	2.37	45	< 10	19	< 1	85	15.39	< 1	53	2028	51	4.54	1.94	2150	< 2	0.04	526	22	< 1	20	18	< 10	108	30	92	< 10	5	46	9
62290	< 1	2.03	55	< 10	115	< 1	20	11.49	< 1	67	2010	46	6.07	2.10	2677	< 2	0.05	730	32	< 1	10	17	< 10	78	48	86	< 10	5	49	10
62291	< 1	1.49	1140	< 10	2	< 1	60	12.60	< 1	71	1533	41	5.30	2.22	2121	< 2	0.01	847	48	< 1	35	14	< 10	93	16	62	< 10	5	47	8
62292	1	0.70	>9999	< 10	10	< 1	5	8.99	< 1	67	1033	197	13.55	1.89	5744	< 2	0.02	728	6	18	15	10	20	81	7	32	< 10	11	128	9
62293	< 1	0.91	2580	< 10	2	< 1	40	12.57	< 1	54	959	22	4.97	2.25	2333	< 2	0.01	702	16	2	30	11	< 10	97	3	34	< 10	7	36	7
62294	< 1	1.92	55	< 10	21	< 1	80	13.38	< 1	58	1793	56	4.12	2.06	1755	< 2	0.03	733	26	< 1	10	16	< 10	82	25	76	< 10	5	67	8
62294	< 1	0.65	65	< 10	< 1	< 1	25	7.18	< 1	42	622	46	2.30	1.95	1022	< 2	0.02	454	56	< 1	10	11	< 10	49	4	20	< 10	3	25	5
62295	< 1	1.12	460	< 10	< 1	< 1	45	11.04	< 1	59	1317	38	4.32	2.29	1354	< 2	0.02	742	24	< 1	20	14	< 10	64	9	49	< 10	5	41	8
62296	< 1	0.74	990	< 10	< 1	< 1	30	8.02	< 1	52	802	37	3.43	2.18	1072	< 2	0.01	640	22	2	20	11	< 10	59	4	28	< 10	3	25	5
62297	< 1	0.95	1230	< 10	1	< 1	30	10.13	< 1	64	1005	46	4.17	2.30	1361	< 2	0.01	793	32	1	25	13	< 10	78	4	37	< 10	4	31	8

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

CYPRUS CANADA

2R-1628-RG1

PROJ.:KERR

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

REPORT No. : T2077

File No. : OC07MA
Date : OCT-10-1992

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
62298	< 1	0.64	1540	< 10	3	< 1	45	12.72	< 1	58	840	35	4.75	2.32	1718	< 2	0.02	772	< 2	3	15	13	< 10	113	39	30	< 10	5	27	8
62299	< 1	1.31	1380	< 10	< 1	< 1	60	11.96	< 1	64	1255	25	4.53	2.43	1446	< 2	0.01	810	26	< 1	25	14	< 10	109	10	44	< 10	5	39	7
62300	< 1	2.15	540	< 10	< 1	< 1	65	7.69	< 1	75	1744	59	4.64	2.37	1173	< 2	0.02	553	32	< 1	25	20	< 10	76	21	77	< 10	4	33	11
62301	< 1	2.01	1675	< 10	< 1	< 1	55	9.20	< 1	63	1716	46	4.60	2.41	1341	< 2	0.02	645	16	< 1	35	17	< 10	98	19	71	< 10	5	35	10
62302	< 1	0.53	3135	< 10	2	< 1	25	12.17	< 1	51	799	23	4.21	2.29	1689	< 2	0.02	673	62	< 1	30	12	< 10	92	2	24	< 10	5	30	7
62303	< 1	0.55	1040	< 10	3	< 1	30	14.13	< 1	59	877	39	4.47	2.19	1865	< 2	0.02	708	40	3	25	13	< 10	76	8	26	< 10	6	23	7
62304	< 1	1.09	410	< 10	3	< 1	55	13.68	< 1	57	1367	39	4.13	2.21	1713	< 2	0.02	718	4	< 1	20	14	< 10	70	19	49	< 10	6	31	7
62305	< 1	0.53	350	< 10	11	< 1	40	22.88	< 1	60	605	51	1.84	1.45	2884	< 2	0.10	488	< 2	< 1	5	10	< 10	123	23	29	< 10	10	28	5
62306	< 1	0.86	10	< 10	72	< 1	50	15.67	< 1	33	1071	40	2.25	1.38	1912	< 2	0.11	346	< 2	< 1	< 5	10	< 10	88	258	45	< 10	5	26	5
62307	< 1	1.77	20	< 10	5	< 1	80	8.69	< 1	27	1688	56	3.09	1.78	1069	< 2	0.03	277	44	< 1	10	11	< 10	67	359	78	< 10	4	22	6
62308	< 1	0.91	5	< 10	5	< 1	45	7.36	< 1	17	859	37	1.55	1.36	737	< 2	0.02	213	18	< 1	10	7	< 10	76	77	33	< 10	3	14	2
62309	< 1	2.22	25	< 10	5	< 1	75	8.47	< 1	41	1775	41	3.56	1.97	991	< 2	0.03	496	34	< 1	10	3	< 10	129	415	68	< 10	4	39	1
62310	< 1	1.52	10	< 10	< 1	< 1	50	10.33	< 1	30	1350	32	2.51	1.78	962	< 2	0.02	443	18	< 1	10	3	< 10	85	180	51	< 10	4	23	1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : [signature]

Laboratoires TSL/ASSAYERS Laboratories

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6

PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1743-RG1

PROJ.:KEER

REPORT No. : **T2109**

File No. : OC21MA
Date : OCT-25-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46045	2.23	6.07	6.00	1.07	0.03	42	1698	108	30	695	14	76	127	3	89	138	56	36	< 2	< 1	4	< 1	< 10	10	3	21	< 10	160	105	< 10
46046	2.69	7.74	6.25	1.06	0.02	37	2789	64	10	1939	16	49	521	< 1	69	135	60	69	< 2	< 1	11	< 1	< 10	< 5	3	20	< 10	365	195	< 10
46047	2.76	7.96	6.26	1.06	0.02	31	2967	30	20	2848	15	57	823	< 1	87	126	59	116	< 2	< 1	24	< 1	< 10	15	3	19	< 10	940	225	< 10
46048	1.86	5.73	8.32	1.10	0.02	17	2026	24	28	2524	10	59	794	< 1	69	90	55	95	< 2	< 1	34	< 1	< 10	25	4	17	< 10	1355	180	< 10
46049	1.11	4.38	7.43	1.23	0.01	9	850	< 2	2	1222	6	34	633	< 1	36	45	47	50	< 2	< 1	12	< 1	< 10	20	3	12	< 10	525	110	< 10
46050	0.82	6.14	10.63	1.07	0.02	6	2697	< 2	14	1298	9	65	528	< 1	36	49	52	56	< 2	< 1	23	< 1	< 10	10	4	13	< 10	915	155	< 10
46051	0.81	6.44	9.70	1.01	0.02	9	2609	26	10	945	10	70	446	2	53	63	43	76	< 2	< 1	16	< 1	< 10	5	4	14	< 10	620	135	< 10
46052	0.20	4.07	13.06	0.96	0.02	< 1	2182	< 2	11	379	5	134	441	2	29	17	54	49	< 2	1	23	< 1	< 10	< 5	4	8	< 10	970	85	< 10
46053	0.23	3.72	15.24	1.07	0.02	< 1	1885	< 2	11	423	5	26	603	< 1	23	14	71	52	< 2	< 1	41	< 1	< 10	15	5	8	< 10	1700	90	< 10
46054	0.32	4.23	9.33	1.22	0.01	< 1	980	< 2	2	1039	4	20	1085	< 1	22	15	70	68	< 2	< 1	50	< 1	< 10	40	3	7	240	2080	100	< 10
46055	0.34	3.13	10.20	1.15	0.02	< 1	1187	110	3	924	3	16	1009	< 1	17	13	77	65	< 2	< 1	43	< 1	< 10	20	3	7	< 10	1795	75	< 10
46056	0.58	4.61	0.98	1.35	0.02	7	947	26	3	1618	4	28	1116	< 1	22	20	13	104	< 2	< 1	41	< 1	< 10	15	2	9	< 10	1710	115	< 10
46057	0.66	3.10	7.12	1.13	0.03	10	1155	< 2	7	1027	5	36	849	< 1	17	29	55	79	< 2	< 1	32	< 1	< 10	10	3	10	< 10	1375	90	< 10
46058	1.94	3.42	6.26	1.03	0.03	809	773	18	27	1801	8	46	377	< 1	27	82	51	32	< 2	< 1	2	< 1	< 10	< 5	3	15	< 10	65	120	< 10
46059	1.51	2.72	8.63	1.03	0.06	65	850	4	14	1568	5	26	395	< 1	23	60	86	30	< 2	< 1	< 1	< 1	< 10	5	4	10	< 10	20	100	< 10
46060	1.90	3.03	9.44	1.09	0.07	55	956	20	19	1395	5	25	392	< 1	29	72	121	31	< 2	< 1	< 1	< 1	< 10	< 5	5	11	< 10	25	100	< 10
46061	2.24	4.24	3.74	1.22	0.03	40	850	38	7	2418	8	42	1055	< 1	36	88	31	65	< 2	< 1	2	< 1	< 10	5	5	16	< 10	60	160	< 10
46062	0.84	1.53	8.73	0.83	0.02	60	866	2	8	789	4	29	205	< 1	14	34	60	28	< 2	< 1	1	< 1	< 10	< 5	3	9	< 10	65	55	< 10
46063	2.08	3.28	4.16	1.07	0.02	366	698	64	4	1575	1	62	387	1	27	78	28	36	< 2	< 1	1	< 1	< 10	< 5	3	3	< 10	45	110	< 10
46064	1.60	4.59	16.04	0.90	0.07	608	2118	< 2	60	1674	8	71	657	< 1	48	94	63	69	< 2	< 1	< 1	< 1	< 10	5	5	12	< 10	5	145	< 10
46065	2.08	3.42	2.62	0.99	0.05	591	896	168	3	528	11	9	352	3	58	143	12	47	< 2	< 1	< 1	< 1	< 10	< 5	4	21	< 10	50	60	< 10
46066	3.73	6.90	5.32	1.02	0.03	1275	1898	400	4	281	16	64	193	3	212	271	17	36	< 2	< 1	1	< 1	< 10	< 5	8	22	10	< 5	105	< 10
46067	3.10	8.62	7.05	0.93	0.15	116	3652	72	280	3057	21	108	1232	4	131	142	34	105	< 2	1	4	< 1	< 10	< 5	5	22	< 10	45	265	< 10
46068	1.75	4.59	8.12	0.89	0.08	146	1911	16	74	1969	7	58	700	< 1	50	82	35	59	< 2	< 1	< 1	< 1	< 10	< 5	4	13	< 10	25	140	< 10
46069	0.96	2.19	10.01	0.80	0.04	110	1382	< 2	11	1094	3	29	290	< 1	19	44	40	23	< 2	< 1	< 1	< 1	< 10	< 5	3	8	< 10	10	80	< 10
46070	1.40	3.09	14.65	0.88	0.07	167	1971	< 2	45	1510	4	41	514	< 1	32	59	65	40	< 2	< 1	1	< 1	< 10	< 5	4	10	< 10	25	110	< 10
46071	1.51	2.67	5.58	0.97	0.02	354	965	22	5	1550	3	50	316	< 1	22	59	30	25	< 2	< 1	< 1	< 1	< 10	5	3	6	< 10	15	90	< 10
46072	1.75	3.10	5.81	1.05	0.02	89	823	44	2	1912	4	58	458	< 1	27	68	33	36	< 2	< 1	< 1	< 1	< 10	< 5	4	10	< 10	25	115	< 10
46073	1.69	4.88	6.65	0.90	0.04	805	707	410	12	593	28	258	262	78	2113	110	56	46	< 2	< 1	5	< 1	< 10	5	7	15	< 10	10	90	< 10
46074	2.34	3.92	4.93	1.15	0.02	56	723	48	6	2103	9	28	592	< 1	35	92	52	48	< 2	< 1	< 1	< 1	< 10	< 5	4	17	< 10	10	130	< 10
46075	1.32	2.52	10.24	1.04	0.03	31	1200	< 2	9	1340	5	40	542	< 1	30	57	103	36	< 2	< 1	< 1	< 1	10	5	5	10	< 10	15	85	< 10
46076	2.07	3.54	9.53	1.12	0.05	43	1053	< 2	15	1982	5	35	566	< 1	34	76	121	47	< 2	< 1	1	< 1	10	10	6	10	< 10	30	125	< 10
46077	1.74	3.26	8.24	1.12	0 04	52	1005	< 2	13	1926	5	51	530	< 1	30	74	95	40	< 2	< 1	< 1	< 1	10	< 5	5	11	< 10	30	120	< 10
46078	1.23	2.36	8.82	0.99	0.02	37	934	< 2	8	1205	3	32	505	< 1	21	50	157	33	< 2	< 1	< 1	< 1	< 10	< 5	4	7	< 10	25	90	< 10
46079	1.84	3.16	12.56	1.08	0.07	31	1297	< 2	13	1702	3	27	489	< 1	32	73	133	47	< 2	< 1	< 1	< 1	10	< 5	7	7	< 10	45	115	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : ______________________

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1743-RG1

PROJ.:KEER

REPORT No. : **T2109**

File No. : OC21MA
Date : OCT-25-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46080	2.89	4.78	1.96	1.25	0.06	76	512	90	12	3281	2	71	1131	< 1	55	107	35	80	< 2	< 1	< 1	< 1	< 10	5	4	4	< 10	< 5	180	< 10
46081	2.57	3.65	8.24	1.08	0.03	523	944	12	9	2360	< 1	35	767	< 1	43	71	78	48	< 2	< 1	< 1	< 1	< 10	< 5	4	1	< 10	5	135	< 10
46082	1.60	2.73	15.05	0.92	0.04	451	1513	< 2	37	1798	< 1	28	536	< 1	30	50	118	36	< 2	< 1	< 1	< 1	< 10	< 5	5	2	< 10	30	125	< 10
46083	2.31	3.81	3.60	1.17	0.04	194	636	50	13	2501	5	34	637	< 1	42	87	37	49	< 2	< 1	< 1	< 1	10	< 5	4	10	< 10	10	140	< 10
46084	2.27	3.67	11.41	1.00	0.04	212	1439	14	49	1858	7	54	662	< 1	53	95	94	71	< 2	< 1	3	< 1	< 10	< 5	4	15	< 10	145	125	< 10
46085	2.55	4.70	14.30	0.93	0.04	257	2320	< 2	29	1272	11	50	670	< 1	102	107	142	57	< 2	< 1	1	< 1	< 10	< 5	5	21	< 10	15	125	< 10
46086	3.16	8.36	10.44	0.88	0.04	234	3146	18	75	363	19	442	353	7	111	106	87	62	< 2	< 1	4	< 1	< 10	< 5	3	23	< 10	< 5	155	< 10
46087	2.67	4.73	10.06	0.99	0.04	587	1901	26	49	1474	6	47	595	< 1	70	93	86	52	< 2	< 1	< 1	< 1	< 10	10	4	12	< 10	20	120	< 10
46088	2.20	4.21	5.16	1.19	0.06	64	760	26	21	2448	5	52	985	< 1	45	90	86	64	< 2	< 1	2	< 1	40	5	5	9	< 10	30	155	< 10
46089	0.69	1.44	15.33	0.82	0.02	10	1406	< 2	8	696	2	27	340	< 1	14	28	152	23	< 2	< 1	< 1	< 1	20	< 5	5	6	< 10	10	60	< 10
46090	1.11	2.28	8.73	1.01	0.03	19	988	< 2	15	1282	3	44	481	< 1	21	46	99	36	< 2	< 1	< 1	< 1	20	< 5	4	8	< 10	15	85	< 10
46091	0.88	1.89	8.82	0.91	0.02	16	964	< 2	8	917	3	38	511	1	16	38	89	33	< 2	< 1	< 1	< 1	20	< 5	3	7	< 10	10	65	< 10
46092	1.26	2.46	13.13	1.00	0.05	24	1341	< 2	12	1156	3	20	353	< 1	22	51	124	28	< 2	< 1	< 1	< 1	10	10	6	6	< 10	15	85	< 10
46093	1.81	3.14	13.57	1.07	0.07	55	1379	< 2	13	1358	3	43	338	< 1	32	71	116	27	< 2	< 1	< 1	< 1	20	< 5	7	6	< 10	30	105	< 10
46094	1.64	2.66	5.55	1.06	0.03	63	631	36	9	1691	< 1	59	651	< 1	30	55	73	43	< 2	< 1	< 1	< 1	10	< 5	4	2	< 10	50	95	< 10
46095	1.30	2.22	6.42	1.00	0.03	97	707	22	12	1342	< 1	38	388	< 1	27	43	91	27	< 2	< 1	< 1	< 1	10	< 5	3	2	< 10	10	75	< 10
46096	2.28	3.23	9.57	1.05	0.03	574	1054	< 2	13	2171	< 1	34	673	< 1	41	62	98	47	< 2	< 1	< 1	< 1	< 10	5	5	1	< 10	20	130	< 10
46097	1.60	2.61	14.00	0.93	0.04	350	1453	< 2	34	1992	< 1	45	519	< 1	30	53	109	44	< 2	< 1	< 1	< 1	10	< 5	5	1	< 10	30	110	< 10
46098	1.80	2.85	11.61	0.96	0.04	375	1305	< 2	27	2143	< 1	45	595	< 1	33	56	92	42	< 2	< 1	< 1	< 1	< 10	< 5	4	< 1	< 10	35	130	< 10
46099	1.52	2.64	3.72	1.07	0.04	129	535	44	71	1549	2	26	572	< 1	34	59	46	41	< 2	< 1	< 1	< 1	10	< 5	3	5	< 10	25	85	< 10
46100	1.46	2.67	8.09	1.00	0.06	110	1049	36	33	1386	3	38	602	< 1	33	58	82	49	< 2	< 1	< 1	< 1	10	< 5	4	7	< 10	35	85	< 10
46101	1.21	2.47	14.24	0.85	0.03	95	1417	< 2	24	1387	4	38	735	< 1	71	52	95	54	< 2	< 1	< 1	< 1	< 10	< 5	3	9	< 10	15	105	< 10
46102	2.86	6.31	7.09	0.89	0.03	181	2499	72	31	455	14	116	394	5	100	112	49	76	< 2	< 1	2	< 1	< 10	< 5	3	23	< 10	15	110	< 10
46103	1.66	2.63	15.49	0.94	0.03	380	1470	< 2	37	1556	< 1	36	552	< 1	30	42	148	36	< 2	< 1	< 1	< 1	< 10	25	4	2	< 10	35	110	< 10
46104	1.35	2.73	6.09	1.09	0.05	35	687	22	19	1551	3	32	659	< 1	30	56	103	46	< 2	< 1	< 1	< 1	30	< 5	4	8	< 10	25	100	< 10
46105	2.05	3.50	5.90	1.18	0.04	37	759	36	25	2217	3	38	940	1	116	84	108	60	< 2	< 1	< 1	< 1	20	< 5	6	7	< 10	25	135	< 10
46106	2.51	4.14	15.67	0.98	0.02	920	1760	< 2	114	2969	7	48	1058	< 1	58	116	308	77	< 2	< 1	2	< 1	< 10	35	8	12	< 10	45	200	< 10
46107	2.13	4.02	4.33	1.22	0.05	54	688	34	21	2276	6	33	851	< 1	47	90	87	55	< 2	< 1	< 1	< 1	30	10	5	11	< 10	25	125	< 10
46108	1.60	3.01	8.57	1.14	0.07	32	887	< 2	36	1008	2	16	358	< 1	34	58	297	27	< 2	< 1	< 1	< 1	20	< 5	6	5	< 10	25	85	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

Laboratoires TSL/ASSAYERS Laboratories

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6

PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1744-RG1,2

PROJ.:RECCE

REPORT No. : T2110

File No. : OC21MA

Date : OCT-25-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
DBS1	0.75	8.80	0.66	0.63	0.02	611	461	106	26	1304	7	42	490	8	42	74	18	45	< 2	< 1	3	< 1	< 10	< 5	2	< 1	< 10	< 5	155	< 10
DBS2	0.71	2.36	6.00	0.53	0.03	346	672	818	39	497	4	55	328	13	40	34	60	32	< 2	< 1	< 1	< 1	< 10	< 5	3	1	< 10	15	55	< 10
DBS3	0.55	3.61	2.19	0.70	0.03	30	618	3056	17	291	6	97	62	8	92	32	226	20	< 2	< 1	< 1	< 1	< 10	< 5	12	6	< 10	15	60	< 10
DBS4	0.19	3.76	4.09	0.82	0.04	56	740	2114	16	243	9	110	42	7	75	19	388	23	< 2	< 1	1	< 1	< 10	< 5	8	8	< 10	< 5	55	< 10
DBS5	0.07	4.66	1.73	0.43	0.05	15	599	1812	9	317	13	41	30	18	24	10	151	21	< 2	< 1	2	< 1	< 10	< 5	11	3	< 10	35	60	20
DBS6	0.12	3.51	4.57	0.91	0.04	6	548	850	23	257	15	42	78	7	36	9	404	26	< 2	< 1	< 1	< 1	< 10	< 5	5	7	< 10	10	55	< 10
DBS7	0.06	3.50	2.79	1.21	0.02	10	614	26	70	585	5	13	354	2	51	9	317	33	< 2	< 1	2	< 1	< 10	< 5	3	7	< 10	40	65	< 10
DBS8	0.44	5.32	3.27	1.32	0.01	74	856	2	31	446	8	8	677	3	80	21	329	60	< 2	< 1	7	< 1	< 10	10	3	11	< 10	215	90	< 10
DBS9	0.19	3.37	3.08	0.89	0.02	7	376	488	10	468	13	12	116	11	30	16	282	25	< 2	1	3	< 1	< 10	< 5	3	6	< 10	35	65	20
DBS10	0.20	2.69	2.47	0.72	0.04	79	425	880	70	280	11	14	40	12	21	65	245	13	< 2	< 1	< 1	< 1	< 10	< 5	6	5	< 10	< 5	45	< 10
DBS11	1.92	9.88	0.24	0.77	0.02	796	780	156	8	1730	10	39	684	7	47	84	15	110	< 2	< 1	2	< 1	< 10	< 5	2	1	< 10	< 5	195	< 10
HE1	1.02	3.21	0.42	0.78	0.04	189	342	328	51	549	5	26	115	5	84	38	22	25	< 2	< 1	1	< 1	< 10	< 5	2	2	< 10	20	50	< 10
HE2	0.76	3.31	0.26	0.61	0.04	114	173	638	24	478	7	37	79	6	29	40	10	22	< 2	< 1	< 1	< 1	< 10	< 5	2	2	< 10	15	55	< 10
HE3	1.09	2.94	0.17	0.70	0.06	31	200	476	58	429	6	10	49	8	23	31	9	8	< 2	< 1	< 1	< 1	< 10	< 5	2	2	< 10	15	50	< 10
HE4	0.51	1.77	0.81	0.47	0.04	10	228	386	16	455	7	120	57	4	17	15	11	18	2	< 1	< 1	< 1	< 10	< 5	2	< 1	< 10	10	40	< 10
HE5	0.92	2.84	0.24	0.73	0.05	41	184	666	23	405	8	51	37	6	94	33	8	10	< 2	< 1	< 1	< 1	< 10	< 5	2	1	< 10	15	40	< 10
HE6	0.60	1.58	0.34	0.63	0.04	22	136	446	10	450	3	11	62	5	30	18	6	11	2	< 1	< 1	< 1	< 10	< 5	2	< 1	< 10	15	30	< 10
12901	0.64	1.65	0.07	0.40	0.02	77	182	314	31	268	3	15	21	15	67	6	5	4	2	< 1	< 1	< 1	< 10	< 5	< 1	< 1	< 10	10	20	< 10
12902	0.98	1.54	0.33	0.70	0.03	10	346	370	10	143	4	4	20	5	48	9	6	9	< 2	< 1	< 1	< 1	< 10	< 5	1	< 1	< 10	15	25	< 10
12903	0.46	0.93	0.03	0.33	0.01	4	135	42	10	260	9	7	14	3	20	3	2	4	< 2	< 1	< 1	< 1	< 10	< 5	2	< 1	< 10	10	15	< 10
12904	1.81	4.10	0.05	0.79	0.01	16	460	70	16	120	8	4	19	35	76	13	1	5	< 2	< 1	1	< 1	< 10	< 5	< 1	< 1	< 10	25	50	< 10
12905	1.39	2.30	0.10	0.76	0.03	9	341	380	12	187	7	15	24	9	80	12	3	9	4	< 1	< 1	< 1	< 10	< 5	2	< 1	< 10	25	30	< 10
12906	0.98	1.82	0.01	0.59	0.02	4	190	52	15	271	11	10	24	7	43	9	2	6	2	< 1	< 1	< 1	< 10	< 5	1	< 1	< 10	15	35	< 10
12907	0.99	2.07	0.01	0.54	0.01	4	246	52	15	169	5	4	25	6	35	12	2	7	< 2	< 1	< 1	< 1	< 10	< 5	< 1	< 1	< 10	20	35	< 10
12908	1.12	1.89	0.01	0.65	0.01	4	255	38	10	240	8	7	17	8	44	8	2	6	< 2	< 1	< 1	< 1	< 10	< 5	< 1	< 1	< 10	15	30	< 10
12909	0.99	1.70	0.01	0.60	0.01	8	229	26	15	262	5	64	30	6	42	9	1	13	< 2	< 1	< 1	< 1	< 10	< 5	3	< 1	< 10	20	25	< 10
12910	2.67	10.62	0.02	0.91	0.01	58	840	36	< 1	275	15	819	45	17	140	7	1	30	4	1	6	< 1	< 10	< 5	2	1	< 10	35	160	20
12911	0.46	11.79	0.01	0.28	0.01	15	158	56	< 1	528	12	935	72	26	52	7	< 1	45	8	3	7	< 1	< 10	< 5	2	< 1	< 10	80	185	80
12912	0.40	2.01	0.02	0.34	0.02	12	140	34	11	808	2	60	60	8	20	16	6	14	< 2	< 1	< 1	< 1	< 10	< 5	< 1	< 1	< 10	10	55	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

CYPRUS CANADA
2R-1760-RG1
ATTN: A. BEECHAM

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

REPORT No. : T2114

File No. : OC20RA
Date : OCT-21-1992

I.C.A.P. WHOLE ROCK ANALYSIS

Lithium MetaBorate Fusion

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Ba	Sr	Zr	Y	Sc	LOI	TOTAL
	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	%	%
14432	53.79	14.57	13.85	1.69	5.91	4.09	0.40	0.89	0.19	0.12	78	33	59	20	41	3.22	98.70
14433	70.34	14.58	4.42	0.42	1.76	4.56	1.94	0.27	0.05	0.20	507	118	102	8	6	1.55	100.09
14434	65.23	15.01	5.34	1.28	3.22	6.05	1.54	0.38	0.08	0.18	561	194	107	10	7	1.45	99.74
14435	68.67	15.33	3.06	1.33	1.71	7.06	1.62	0.31	0.04	0.14	598	394	92	4	6	0.87	100.16
14436	69.48	14.97	4.66	0.35	1.86	6.44	1.24	0.28	0.04	0.12	165	152	100	8	5	1.46	100.90
14437	69.73	14.84	3.14	0.77	1.71	7.37	0.92	0.26	0.05	0.14	138	115	93	4	4	1.10	100.02
14439	70.01	15.02	3.86	0.43	1.99	6.86	0.60	0.29	0.03	0.12	137	183	87	6	4	1.38	100.59
14440	70.33	14.54	4.43	0.43	2.31	3.61	2.42	0.24	0.03	0.14	494	70	111	10	4	1.96	100.45
14441	48.17	13.60	12.88	3.95	11.14	2.31	0.94	0.55	0.34	0.08	293	47	44	14	29	4.63	98.60
14442	44.73	12.58	13.91	9.01	6.03	1.64	0.18	0.79	0.22	0.10	45	52	49	16	39	8.92	98.11
14443	53.32	15.43	14.31	1.29	5.13	5.01	0.26	1.13	0.38	0.12	51	26	78	28	50	3.15	99.51
14444	46.11	13.06	18.30	2.91	9.01	0.78	0.40	0.58	0.45	0.08	88	12	53	10	32	6.26	97.93
14445	44.48	13.53	21.80	1.81	7.79	2.20	0.84	0.84	0.37	0.10	100	26	60	28	41	4.61	98.37
14446	53.79	14.59	13.81	0.89	7.57	3.03	1.20	1.00	0.18	0.12	117	23	58	24	46	3.99	100.16
14447	67.07	15.71	4.54	0.10	2.91	0.50	4.16	0.47	0.06	0.06	329	14	106	10	9	3.09	98.68
14448	67.75	17.63	3.88	0.04	1.90	0.18	5.10	0.51	0.04	0.06	463	16	129	12	9	1.68	98.78
14438	70.45	15.29	3.41	0.40	1.48	5.30	2.52	0.29	0.03	0.14	415	208	98	8	4	0.24	99.53

SIGNED :

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS

2R-1837-RA1
ATTN:BOB STEVENSON
PROJ.:KERR

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

REPORT No. : T2176
Page No. : 1 of 1
File No. : OC29MA
Date : NOV-09-1992

SAMPLE #	Al	Fe	Ca	Mg	Na	Ti	Mn	P	Ba	Cr	Zr	Cu	Ni	Pb	Zn	V	Sr	Co	Mo	Ag	Cd	Be	B	Sb	Y	Sc	W	As	Bi	Sn
	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
46172	<0.01	<0.01	<0.01	<0.01	<0.01	< 1	< 1	4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1	< 1	< 1	< 10	< 5	< 1	< 1	< 10	< 5	< 5	< 10
46173	2.69	8.88	6.99	1.32	<0.01	67	5407	66	7	1871	20	56	707	3	60	108	104	70	< 2	1	< 1	< 1	< 10	15	4	19	< 10	9400	10	< 10
46174	1.93	7.63	8.76	1.33	<0.01	32	4402	292	6	1496	16	51	735	< 1	58	76	105	80	< 2	1	< 1	< 1	< 10	10	6	14	< 10	6470	10	< 10
46175	0.76	5.39	6.83	1.31	0.02	11	2595	564	6	635	7	50	594	< 1	79	30	88	62	< 2	< 1	< 1	< 1	< 10	20	5	6	< 10	9765	25	< 10
46176	1.66	6.23	4.46	1.18	0.02	28	1836	274	4	78	12	106	259	4	183	176	51	31	< 2	< 1	< 1	< 1	< 10	< 5	4	14	< 10	5295	< 5	< 10
46177	1.63	5.88	5.50	1.18	0.01	25	1628	234	7	86	9	104	74	2	94	143	88	32	< 2	< 1	< 1	< 1	< 10	10	4	12	< 10	>9999	< 5	< 10
46193	1.35	4.38	6.21	1.68	<0.01	11	1163	< 2	4	1083	7	29	745	< 1	35	61	59	58	< 2	< 1	< 1	< 1	< 10	15	3	14	< 10	1445	45	< 10
46194	0.82	6.02	5.77	1.46	0.01	12	2333	36	28	1008	6	60	653	< 1	33	39	41	83	< 2	< 1	< 1	< 1	< 10	< 5	2	11	< 10	1185	35	< 10
46195	0.50	7.04	6.90	1.39	0.01	9	2997	< 2	39	518	9	102	601	< 1	36	26	59	78	< 2	< 1	< 1	< 1	< 10	< 5	3	10	< 10	1520	< 5	< 10
46196	2.22	5.75	4.54	1.46	0.01	39	1764	44	5	2358	14	72	591	< 1	63	150	27	88	< 2	< 1	3	< 1	< 10	10	2	24	< 10	620	50	< 10
46197	1.09	3.68	5.03	1.63	<0.01	12	771	16	< 1	984	5	39	558	< 1	25	46	35	47	< 2	< 1	< 1	< 1	< 10	25	2	11	< 10	145	45	< 10
46198	1.03	4.36	7.43	1.46	<0.01	11	1503	26	7	1142	6	52	516	< 1	31	57	35	54	< 2	< 1	< 1	< 1	< 10	10	3	11	< 10	430	45	< 10
46199	0.55	5.22	8.42	1.35	<0.01	4	2177	18	10	751	5	54	439	< 1	30	32	35	43	< 2	< 1	4	< 1	< 10	< 5	3	9	< 10	1020	30	< 10
46200	0.32	5.25	8.60	1.41	<0.01	< 1	2301	16	13	335	5	43	453	< 1	23	15	47	44	< 2	< 1	< 1	< 1	< 10	< 5	3	8	< 10	1835	20	< 10
46201	0.62	4.09	4.80	1.68	<0.01	3	792	30	2	613	5	34	650	< 1	29	22	39	47	< 2	< 1	< 1	< 1	< 10	15	2	9	< 10	1135	15	< 10
46202	0.37	3.73	5.14	1.65	<0.01	2	816	78	4	399	2	25	568	< 1	30	10	46	43	< 2	< 1	< 1	< 1	< 10	10	2	7	< 10	1100	10	< 10
46203	0.13	4.92	6.83	1.32	0.02	2	2067	26	19	235	6	80	387	< 1	19	11	59	47	< 2	< 1	3	< 1	< 10	< 5	2	7	< 10	1075	10	< 10
46204	1.12	4.28	4.20	1.71	<0.01	9	753	24	2	1010	6	44	637	< 1	33	45	42	50	< 2	< 1	2	< 1	< 10	25	2	11	< 10	875	35	< 10
46205	0.82	3.99	5.63	1.65	<0.01	8	825	< 2	2	961	6	50	610	15	31	41	60	47	< 2	< 1	< 1	< 1	< 10	10	2	11	< 10	1205	30	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : W/Pavis

TSL/92

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS

2R-1838-RG1-4

ATTN:BOB STEVENSON

REPORT No. : T2177

File No. : OC29MA
Date : NOV-09-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46109	2.38	5.84	3.91	1.10	0.02	296	1232	300	< 1	25	18	64	31	1	89	282	40	26	< 2	< 1	1	< 1	< 10	< 5	3	27	< 10	10	< 5	< 10
46110	2.16	9.45	4.59	0.94	0.25	43	3184	98	73	30	7	79	24	6	117	50	61	10	< 2	< 1	< 1	< 1	< 10	< 5	5	4	< 10	< 5	< 5	< 10
46111	2.88	7.20	4.12	1.10	0.02	310	1680	328	5	53	18	63	46	< 1	94	299	56	31	< 2	< 1	< 1	< 1	< 10	< 5	4	27	< 10	< 5	< 5	< 10
46112	3.53	7.85	4.39	1.23	<0.01	258	1694	284	6	13	18	66	31	3	106	291	66	29	< 2	< 1	< 1	< 1	< 10	< 5	3	26	< 10	< 5	< 5	< 10
46113	3.43	8.08	4.51	1.18	<0.01	232	1735	280	19	21	20	61	26	< 1	98	295	92	27	< 2	< 1	< 1	< 1	< 10	< 5	3	28	< 10	< 5	< 5	< 10
46114	2.59	6.23	4.58	0.98	0.02	329	1453	320	5	16	15	68	34	2	90	299	62	29	< 2	< 1	< 1	< 1	< 10	< 5	3	24	< 10	10	< 5	< 10
46115	1.94	5.30	3.69	0.95	0.03	281	1181	274	9	131	15	50	41	2	78	277	58	34	< 2	< 1	< 1	< 1	< 10	< 5	3	23	< 10	20	< 5	< 10
46116	2.65	6.41	4.69	1.14	0.02	209	1407	318	7	11	16	68	33	< 1	98	290	68	31	< 2	< 1	< 1	< 1	< 10	< 5	3	25	< 10	< 5	< 5	< 10
46117	3.45	8.47	4.47	1.17	0.02	233	2018	262	12	11	19	51	23	4	89	265	83	24	< 2	< 1	< 1	< 1	< 10	< 5	4	24	10	< 5	< 5	< 10
46118	2.60	6.26	3.06	1.17	0.02	81	1059	358	7	20	11	65	35	3	99	257	48	34	< 2	< 1	< 1	< 1	< 10	< 5	4	20	< 10	5	< 5	< 10
46119	2.83	7.25	4.53	1.18	0.02	72	1691	318	5	34	14	51	38	1	87	244	62	27	< 2	< 1	< 1	< 1	< 10	< 5	4	21	< 10	< 5	< 5	< 10
46120	2.26	5.49	3.66	1.13	0.03	173	1110	412	18	32	8	69	45	2	102	212	50	35	< 2	< 1	< 1	< 1	< 10	< 5	4	15	< 10	25	< 5	< 10
46121	2.61	6.52	5.11	1.11	0.02	197	1738	330	4	22	17	63	41	2	123	283	70	27	< 2	< 1	< 1	< 1	< 10	< 5	7	25	< 10	35	< 5	< 10
46122	3.26	8.97	4.52	1.15	0.03	219	2334	280	16	10	20	62	34	3	86	248	69	27	< 2	< 1	< 1	< 1	< 10	< 5	5	24	20	< 5	< 5	< 10
46123	2.82	7.95	5.31	1.13	0.02	266	2298	246	8	19	18	81	52	< 1	79	260	73	33	< 2	< 1	< 1	< 1	< 10	< 5	5	23	< 10	< 5	< 5	< 10
46124	3.39	8.23	4.93	1.22	0.01	235	1748	296	< 1	12	20	63	26	6	102	291	71	28	< 2	1	< 1	< 1	< 10	< 5	4	25	< 10	< 5	< 5	< 10
46125	2.34	6.80	4.76	1.17	0.03	320	1098	314	< 1	32	20	43	28	< 1	97	325	70	30	< 2	< 1	< 1	< 1	< 10	< 5	5	29	< 10	< 5	< 5	< 10
46126	1.91	6.59	4.17	1.14	0.03	364	1234	330	2	27	20	63	45	< 1	68	357	75	34	< 2	< 1	< 1	< 1	< 10	< 5	6	30	< 10	25	< 5	< 10
46127	2.55	5.83	4.17	1.51	0.03	190	1163	932	55	404	18	52	103	2	71	204	122	32	< 2	< 1	< 1	< 1	< 10	< 5	7	23	< 10	< 5	5	< 10
46128	3.08	6.82	1.89	1.46	0.03	214	1070	698	46	242	17	24	62	2	85	275	59	29	< 2	< 1	< 1	< 1	< 10	10	6	26	< 10	< 5	< 5	< 10
46129	2.66	4.08	5.24	1.57	0.01	1071	772	1134	195	633	17	54	117	13	66	106	261	27	< 2	< 1	< 1	< 1	< 10	10	5	18	< 10	< 5	20	< 10
46130	2.71	4.19	5.12	1.55	0.01	1322	727	1238	252	537	19	55	104	6	66	111	246	26	< 2	< 1	< 1	< 1	< 10	10	6	18	< 10	< 5	10	< 10
46131	2.66	6.75	3.54	1.33	0.06	312	1264	454	96	106	19	56	57	3	94	291	117	28	< 2	< 1	< 1	< 1	< 10	< 5	5	28	< 10	10	< 5	< 10
46132	2.73	8.32	3.55	1.21	0.11	1109	1477	316	215	49	21	64	36	4	97	309	53	31	< 2	< 1	1	< 1	< 10	< 5	9	28	< 10	< 5	< 5	< 10
46133	3.48	8.87	4.13	1.22	0.02	444	1420	288	36	13	18	62	30	3	111	314	67	30	< 2	< 1	< 1	< 1	< 10	< 5	4	28	20	< 5	< 5	< 10
46134	2.32	6.62	3.80	1.23	0.04	195	1297	444	26	62	17	59	55	2	84	318	117	33	< 2	< 1	< 1	< 1	< 10	< 5	3	28	< 10	65	< 5	< 10
46135	2.06	4.91	9.91	1.43	0.01	44	1673	484	2	835	11	117	353	4	71	98	288	37	< 2	< 1	< 1	< 1	< 10	< 5	5	13	< 10	160	25	< 10
46136	2.19	4.53	7.35	1.53	0.01	32	1719	874	1	826	12	69	302	8	148	90	180	33	< 2	< 1	< 1	< 1	< 10	< 5	6	14	< 10	135	25	< 10
46137	2.60	5.95	8.34	1.42	0.01	43	1695	558	2	886	15	69	297	6	81	142	220	34	< 2	< 1	< 1	< 1	< 10	< 5	6	18	< 10	55	30	< 10
46138	1.84	4.38	5.35	1.48	0.02	28	1092	1494	6	375	8	54	142	6	99	79	155	28	< 2	< 1	< 1	< 1	< 10	< 5	6	11	< 10	165	< 5	< 10
46139	2.10	7.37	3.32	1.19	0.01	119	1549	352	33	105	9	87	63	5	273	145	75	29	< 2	< 1	1	< 1	< 10	< 5	3	10	< 10	335	< 5	< 10
46140	1.08	4.69	3.39	1.31	0.01	20	768	798	19	207	11	133	144	12	414	39	146	34	< 2	< 1	< 1	< 1	< 10	< 5	5	5	< 10	120	< 5	< 10
46141	1.73	4.61	5.30	1.56	0.01	24	905	1264	20	387	7	59	159	4	79	47	261	31	< 2	< 1	< 1	< 1	< 10	< 5	7	8	< 10	150	< 5	< 10
46142	0.30	2.88	5.15	1.29	0.01	6	754	508	9	281	6	33	73	3	36	14	247	18	< 2	< 1	< 1	< 1	< 10	< 5	5	4	< 10	50	5	< 10
46143	0.63	3.32	8.85	1.62	<0.01	4	901	36	< 1	596	2	31	673	< 1	41	24	266	41	< 2	< 1	< 1	< 1	< 10	5	3	6	< 10	480	20	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : W. Perina

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS

2R-1838-RG1-4

ATTN:BOB STEVENSON

REPORT No. : **T2177**

File No. : OC29MA
Date : NOV-09-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46144	0.07	3.96	12.36	1.38	<0.01	< 1	1974	20	5	105	< 1	26	569	2	57	3	126	44	< 2	< 1	< 1	< 1	< 10	5	4	3	< 10	280	10	< 10
46145	0.76	3.43	2.30	0.75	0.03	22	531	378	35	165	13	57	132	9	82	16	50	28	< 2	< 1	< 1	< 1	< 10	< 5	4	2	< 10	40	< 5	< 10
46146	1.13	3.34	1.39	0.73	0.03	32	447	480	45	152	10	47	103	5	41	20	38	24	< 2	< 1	< 1	< 1	< 10	< 5	4	2	< 10	45	< 5	< 10
46147	0.48	3.17	3.56	0.92	0.02	23	1135	466	24	166	7	50	191	4	230	15	84	28	< 2	< 1	< 1	< 1	< 10	< 5	4	2	< 10	80	< 5	< 10
46148	0.88	3.17	3.00	1.19	0.02	13	928	648	17	337	6	75	214	4	75	30	106	29	< 2	< 1	< 1	< 1	< 10	< 5	4	4	< 10	85	< 5	< 10
46149	1.69	4.73	4.92	1.53	0.02	46	952	1266	4	317	10	32	85	1	63	84	326	24	< 2	< 1	< 1	< 1	< 10	< 5	6	12	< 10	40	< 5	< 10
46150	2.42	6.51	8.74	2.20	0.01	27	1412	988	1	556	12	44	218	4	71	112	803	36	< 2	< 1	< 1	< 1	< 10	< 5	7	18	< 10	80	< 5	< 10
46151	1.11	5.74	11.05	2.08	0.02	14	1814	826	12	543	10	47	537	1	87	50	299	54	< 2	< 1	< 1	< 1	< 10	< 5	7	10	< 10	160	15	< 10
46152	1.27	4.44	2.75	1.29	0.02	19	780	544	21	192	13	82	141	15	140	42	75	27	< 2	< 1	< 1	< 1	< 10	< 5	5	3	< 10	60	< 5	< 10
46153	1.89	5.33	2.13	1.32	0.02	31	760	636	39	351	11	51	131	10	92	43	53	29	< 2	< 1	< 1	< 1	< 10	< 5	6	3	< 10	70	< 5	< 10
46154	1.31	4.61	2.98	1.26	0.02	26	963	678	27	176	10	60	123	13	130	30	91	32	< 2	< 1	< 1	< 1	< 10	< 5	6	3	< 10	75	< 5	< 10
46155	0.96	8.33	6.16	1.56	0.03	25	2274	604	29	264	10	145	194	38	681	48	159	59	< 2	1	< 1	< 1	< 10	< 5	7	6	< 10	120	< 5	10
46156	1.39	7.45	5.61	1.56	0.03	32	2151	578	14	141	6	113	126	8	424	105	115	48	< 2	< 1	< 1	< 1	< 10	< 5	5	8	< 10	80	< 5	< 10
46157	1.47	5.78	2.80	1.20	0.02	29	1461	274	7	66	4	64	85	7	146	99	41	29	< 2	< 1	< 1	< 1	< 10	< 5	3	7	< 10	50	< 5	< 10
46158	2.38	8.01	4.07	1.32	0.01	158	3145	318	5	52	10	68	55	5	140	181	84	25	< 2	< 1	< 1	< 1	< 10	< 5	3	16	< 10	< 5	< 5	< 10
46159	2.12	5.19	4.31	1.33	0.02	628	1000	566	2	106	10	61	69	11	100	215	105	29	< 2	< 1	< 1	< 1	< 10	< 5	5	17	< 10	35	< 5	< 10
46160	2.12	6.16	2.72	1.34	0.04	1836	1058	368	8	75	13	73	47	6	69	266	43	29	< 2	< 1	< 1	< 1	< 10	< 5	9	20	< 10	< 5	< 5	< 10
46161	2.07	7.11	1.27	1.02	0.05	2153	915	312	14	56	4	79	35	3	107	191	16	32	< 2	< 1	< 1	< 1	< 10	< 5	7	5	< 10	< 5	< 5	< 10
46162	1.87	6.03	2.97	0.99	0.07	2133	1171	346	17	43	6	76	56	4	104	235	22	31	< 2	< 1	< 1	< 1	< 10	< 5	9	10	< 10	10	< 5	< 10
46163	1.57	4.26	1.54	0.99	0.04	2116	601	438	1	65	11	82	187	5	118	292	13	58	< 2	< 1	< 1	< 1	< 10	< 5	11	19	< 10	20	< 5	< 10
46164	2.15	5.38	1.51	1.26	0.03	2128	616	448	3	55	11	80	237	7	143	279	16	41	< 2	< 1	< 1	< 1	< 10	10	10	19	< 10	20	< 5	< 10
46165	2.09	5.10	1.24	1.29	0.02	1971	608	396	< 1	39	11	73	254	5	101	269	14	36	< 2	< 1	< 1	< 1	< 10	10	9	20	< 10	20	< 5	< 10
46166	1.78	4.59	4.39	0.93	0.02	1353	1196	326	< 1	89	10	50	42	6	69	210	76	24	< 2	< 1	< 1	< 1	< 10	< 5	9	18	< 10	15	< 5	< 10
46167	2.45	6.02	4.29	1.20	0.01	131	1348	322	3	35	7	72	36	14	99	199	46	28	< 2	< 1	< 1	< 1	< 10	< 5	4	14	< 10	55	< 5	< 10
46168	2.40	7.30	3.32	0.95	0.02	97	1822	174	11	56	3	86	51	13	887	55	28	17	< 2	< 1	2	< 1	< 10	< 5	5	5	< 10	15	< 5	< 10
46169	0.70	2.89	5.89	1.72	0.01	57	1836	60	< 1	668	3	43	309	< 1	24	36	57	55	< 2	< 1	< 1	< 1	< 10	10	4	8	< 10	140	25	< 10
46170	0.64	3.09	8.20	1.80	<0.01	10	1627	8	< 1	685	3	35	466	< 1	27	30	81	53	< 2	< 1	< 1	< 1	< 10	35	3	7	< 10	685	< 5	< 10
46171	0.61	3.92	7.61	1.31	<0.01	9	2416	16	< 1	706	2	38	558	3	20	26	67	59	< 2	< 1	< 1	< 1	< 10	< 5	3	6	< 10	3710	20	< 10
46178	1.45	3.98	4.95	0.90	0.02	39	1349	280	3	62	7	91	46	4	52	160	71	30	< 2	< 1	1	< 1	< 10	< 5	3	13	< 10	870	< 5	< 10
46179	1.42	3.71	5.09	0.92	0.02	86	995	372	1	74	7	88	43	4	47	150	64	31	< 2	< 1	< 1	< 1	< 10	< 5	10	14	< 10	160	< 5	< 10
46180	1.64	4.31	2.94	1.03	0.03	407	827	346	5	38	10	69	47	3	73	184	30	29	< 2	< 1	< 1	< 1	< 10	< 5	5	16	< 10	60	< 5	< 10
46181	1.56	4.42	3.15	0.91	0.02	237	919	344	1	46	4	93	40	6	98	139	24	29	< 2	< 1	< 1	< 1	< 10	< 5	4	9	< 10	20	< 5	< 10
46182	1.39	3.76	3.38	0.81	0.03	317	898	396	10	26	5	84	56	5	103	145	34	32	< 2	< 1	< 1	< 1	< 10	< 5	4	9	< 10	15	< 5	< 10
46183	1.14	3.36	2.81	0.63	0.02	233	676	384	2	26	5	89	35	6	127	142	29	23	< 2	< 1	< 1	< 1	< 10	< 5	4	10	< 10	10	< 5	< 10
46184	1.72	4.58	4.12	0.85	0.02	117	1427	398	5	51	4	65	30	6	66	134	40	26	< 2	< 1	< 1	< 1	< 10	< 5	6	9	< 10	< 5	< 5	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : ____________

Laboratoires TSL, ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS

2R-1838-RG1-4
ATTN:BOB STEVENSON

REPORT No. : **T2177**

File No. : OC29MA
Date : NOV-09-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46185	1.29	3.67	5.17	0.69	0.02	44	1080	304	2	27	4	90	31	4	49	122	55	22	< 2	< 1	< 1	< 1	< 10	< 5	4	8	< 10	20	< 5	< 10
46186	1.45	3.85	5.17	0.84	0.02	36	1138	316	6	61	5	79	40	2	73	136	55	27	< 2	< 1	< 1	< 1	< 10	< 5	4	9	< 10	10	< 5	< 10
46187	1.16	4.91	4.76	1.04	0.02	33	2823	72	1	1097	4	50	730	< 1	86	58	58	112	< 2	< 1	< 1	< 1	< 10	< 5	2	10	< 10	15	15	< 10
46188	1.65	6.50	4.88	1.57	0.03	58	3174	52	4	1422	8	62	294	< 1	68	94	52	85	< 2	< 1	< 1	< 1	< 10	< 5	2	15	< 10	5	40	< 10
46189	1.11	4.54	5.41	1.26	0.03	36	2606	40	4	1008	6	51	260	< 1	42	67	36	51	< 2	< 1	< 1	< 1	< 10	< 5	2	12	< 10	10	20	< 10
46190	0.38	1.93	4.38	1.78	0.01	6	749	8	1	395	2	41	249	< 1	13	18	32	35	< 2	< 1	< 1	< 1	< 10	< 5	2	7	< 10	75	< 5	< 10
46191	0.41	3.40	5.45	2.13	0.01	4	1000	20	< 1	365	5	43	403	< 1	15	17	43	59	< 2	< 1	< 1	< 1	< 10	10	2	11	< 10	655	5	< 10
46192	0.21	3.06	8.75	2.07	0.01	< 1	1375	2	12	281	3	22	574	< 1	8	9	78	44	< 2	< 1	< 1	< 1	< 10	15	6	8	< 10	1155	< 5	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : [signature]

Laboratoires TSL/ASSAYERS Laboratories

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6

PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA INC.

2R-1931-RG1-5

REPORT No. : T2181

File No. : DE02MA

Date : DEC-07-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

PROJ.:KERR MINE

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm
46206	1.37	4.19	3.12	1.20	0.02	30	758	76	3	1365	23	105	683	2
46207	1.23	3.46	4.45	1.11	0.02	24	893	24	2	1057	20	59	490	< 1
46208	0.63	1.26	9.96	0.65	0.05	332	1156	< 2	25	465	8	33	248	< 1
46209	1.24	1.98	12.18	0.83	0.03	137	1551	< 2	13	768	11	45	512	< 1
46210	2.45	3.55	4.30	1.12	0.07	102	655	40	23	1771	21	41	588	< 1
46211	1.41	2.33	8.45	1.00	0.06	55	1457	8	19	771	12	59	201	9
46212	2.45	3.61	6.89	1.15	0.10	102	1005	26	17	1423	20	49	538	< 1
46213	2.61	3.83	4.46	1.15	0.12	120	720	60	21	1694	20	48	657	< 1
46214	1.69	3.30	1.73	1.19	0.05	170	591	42	11	1552	17	22	777	< 1
46215	2.30	3.68	5.05	1.16	0.09	126	906	34	19	1670	21	70	695	< 1
46216	2.16	3.00	11.51	1.04	0.08	78	1378	< 2	13	1454	15	37	480	< 1
46217	2.37	3.32	8.74	1.00	0.03	116	1276	< 2	13	1640	14	18	571	< 1
46218	2.22	3.33	6.17	1.15	0.04	84	1379	20	13	1439	20	35	494	< 1
46219	2.14	3.80	5.17	1.14	0.02	32	954	54	1	1567	21	52	537	< 1
46220	1.33	4.07	5.03	1.17	0.02	18	957	6	2	1025	24	44	498	< 1
46221	1.62	4.61	4.09	1.23	0.01	18	975	42	3	1312	24	41	747	< 1
46222	1.02	3.81	4.96	1.16	0.02	8	990	4	5	914	21	45	577	< 1
46223	1.35	4.72	5.81	1.16	0.02	11	1400	< 2	6	1103	27	38	659	< 1
46224	1.47	5.99	6.29	0.97	0.02	21	2540	44	15	1197	34	82	638	< 1
46225	1.98	4.86	5.68	1.10	0.02	31	1599	64	4	1793	30	77	573	< 1
46226	1.51	4.58	8.28	1.07	0.02	16	1731	24	9	1231	26	54	575	< 1
46227	0.73	5.68	8.11	0.99	0.02	5	2581	10	19	701	31	57	494	< 1
46228	0.99	4.60	5.53	1.19	0.02	9	1107	32	4	778	24	42	634	< 1
46229	0.29	5.65	8.14	1.05	0.02	< 1	2390	6	18	262	30	59	585	1
46230	1.18	4.64	5.44	1.19	0.02	10	1041	6	4	965	26	43	644	< 1
46231	1.55	3.87	6.21	1.12	0.02	22	1130	28	2	1287	23	44	507	< 1
46232	1.52	4.93	11.35	0.89	0.14	140	2269	< 2	235	1464	30	61	484	< 1
46233	1.21	1.99	9.02	0.82	0.04	435	1122	4	20	736	13	44	199	< 1
46234	2.42	3.52	4.98	1.06	0.06	107	767	46	21	1794	21	46	540	< 1
46235	3.19	4.35	9.96	1.09	0.11	96	1347	40	32	2009	26	64	678	< 1
46236	2.66	4.13	5.65	1.16	0.10	99	925	56	19	1765	22	69	580	< 1
46237	3.25	4.58	1.74	1.19	0.10	129	474	80	16	2442	26	50	688	< 1
46238	2.40	3.73	1.37	1.18	0.07	123	378	56	13	1983	22	25	727	< 1
46239	3.30	4.23	3.94	1.14	0.04	179	680	58	11	2045	17	42	520	< 1
46240	2.19	3.69	4.69	1.14	0.07	82	821	34	14	1686	20	52	608	< 1

SAMPLE #	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46206	44	43	34	61	< 2	< 1	27	< 1	< 10	30	2	13	< 10	1105	85	< 10
46207	23	40	42	66	< 2	< 1	5	< 1	< 10	25	2	12	< 10	245	60	< 10
46208	15	26	64	34	< 2	< 1	9	< 1	< 10	< 5	4	8	< 10	405	30	< 10
46209	23	43	117	34	< 2	< 1	< 1	< 1	< 10	20	6	9	< 10	40	55	< 10
46210	33	81	53	45	< 2	< 1	< 1	< 1	< 10	15	4	16	< 10	35	95	< 10
46211	28	44	96	19	< 2	< 1	< 1	< 1	< 10	10	6	7	< 10	10	55	< 10
46212	39	74	75	39	< 2	< 1	< 1	< 1	110	30	6	12	< 10	< 5	85	< 10
46213	34	86	57	49	< 2	< 1	< 1	< 1	20	30	6	10	< 10	5	95	< 10
46214	28	57	22	48	< 2	< 1	< 1	< 1	20	35	4	12	< 10	10	80	< 10
46215	33	76	63	51	< 2	< 1	< 1	< 1	20	25	6	14	< 10	5	100	< 10
46216	28	67	114	35	< 2	< 1	< 1	< 1	10	25	6	7	< 10	< 5	100	< 10
46217	34	62	96	44	< 2	< 1	< 1	< 1	< 10	15	5	4	< 10	20	115	< 10
46218	28	65	73	39	< 2	1	< 1	< 1	< 10	20	7	12	< 10	20	90	< 10
46219	31	70	50	64	< 2	1	2	< 1	< 10	25	3	14	< 10	120	90	< 10
46220	31	46	56	45	< 2	1	21	< 1	10	35	3	14	< 10	855	75	< 10
46221	38	50	44	56	< 2	< 1	29	< 1	< 10	40	3	14	< 10	1295	80	< 10
46222	28	35	57	45	< 2	< 1	27	< 1	< 10	35	3	11	< 10	1040	70	< 10
46223	37	45	59	57	< 2	< 1	29	< 1	< 10	30	4	14	< 10	1165	85	< 10
46224	41	56	50	86	< 2	< 1	25	< 1	< 10	30	4	14	< 10	1075	95	< 10
46225	44	93	41	78	< 2	< 1	7	< 1	< 10	30	3	20	< 10	315	110	< 10
46226	37	57	47	59	< 2	1	10	< 1	< 10	25	4	13	< 10	480	90	< 10
46227	32	25	46	51	< 2	1	23	< 1	< 10	25	3	11	< 10	995	70	< 10
46228	39	24	53	52	< 2	< 1	29	< 1	< 10	35	3	12	< 10	1190	60	< 10
46229	34	5	95	57	< 2	1	32	< 1	< 10	35	4	10	< 10	1280	50	< 10
46230	40	36	67	57	< 2	< 1	26	< 1	< 10	35	3	13	< 10	1075	75	< 10
46231	25	52	53	64	< 2	1	5	< 1	< 10	30	3	14	< 10	225	80	< 10
46232	27	81	79	51	< 2	< 1	4	< 1	< 10	15	5	17	< 10	240	115	< 10
46233	15	41	75	23	< 2	< 1	< 1	< 1	< 10	15	5	10	< 10	45	40	< 10
46234	28	78	61	41	< 2	< 1	< 1	< 1	< 10	15	4	15	< 10	25	110	< 10
46235	39	95	143	55	< 2	< 1	< 1	< 1	< 10	30	8	16	< 10	< 5	120	< 10
46236	35	83	68	46	< 2	< 1	< 1	< 1	10	35	6	13	< 10	35	105	< 10
46237	41	105	29	55	< 2	< 1	< 1	< 1	< 10	25	4	17	< 10	25	120	< 10
46238	32	82	21	53	< 2	< 1	< 1	< 1	10	30	3	15	< 10	< 5	100	< 10
46239	41	86	47	45	< 2	< 1	< 1	< 1	< 10	20	4	3	< 10	25	120	< 10
46240	29	72	52	44	< 2	< 1	< 1	< 1	20	20	5	11	< 10	5	100	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA INC.
2R-1931-RG1-5

REPORT No. : T2181

File No. : DE02MA
Date : DEC-07-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

PROJ.:KERR MINE

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm
46241	2.60	3.74	5.43	1.15	0.11	54	707	28	17	1648	17	58	648	< 1
46242	3.01	4.10	3.95	1.18	0.08	50	642	50	15	2152	18	70	784	< 1
46243	2.63	3.62	2.31	1.16	0.05	38	524	64	13	1898	21	41	594	< 1
46244	2.23	3.18	9.33	1.01	0.04	345	1195	10	21	1496	19	35	368	< 1
46245	1.64	5.37	0.76	0.83	0.17	1315	455	412	13	461	43	335	490	46
46246	1.44	2.71	9.25	0.95	0.02	20	1230	< 2	6	1002	16	32	556	< 1
46247	1.60	4.69	3.70	0.88	0.13	29	1078	246	20	617	29	115	384	3
46248	1.78	5.50	4.32	0.90	0.12	33	1192	252	13	769	36	131	485	3
46249	2.24	5.62	4.88	0.96	0.12	36	1366	200	14	791	33	125	566	2
46250	2.91	4.64	7.77	1.04	0.06	42	1580	104	70	1071	27	70	505	< 1
46251	1.35	7.07	6.36	0.84	0.22	53	3007	42	12	1404	42	144	1730	< 1
46252	1.64	3.56	11.05	0.86	0.06	26	1970	< 2	77	1350	20	51	595	< 1
46253	2.53	3.50	4.03	1.08	0.02	28	893	78	10	1514	22	51	471	< 1
46254	1.61	5.64	4.49	0.86	0.05	73	926	318	16	620	35	240	345	18
46255	1.31	5.94	3.17	0.80	0.10	203	1028	234	7	787	37	149	478	6
46256	1.82	5.06	4.75	0.89	0.12	137	1425	38	20	2136	30	67	800	< 1
46257	2.33	4.62	4.03	0.99	0.07	229	1397	54	67	2266	29	77	643	< 1
46258	3.10	4.39	2.39	1.11	0.03	158	962	498	14	1365	27	29	631	2
46259	4.69	5.64	1.00	1.22	0.03	142	923	494	8	395	34	20	284	34
46260	2.46	3.55	2.75	1.07	0.02	174	743	418	5	1109	21	44	600	4
46261	1.22	1.93	2.54	0.91	0.01	45	471	64	2	877	11	28	372	< 1
46262	1.18	2.00	3.21	0.96	0.01	19	671	42	2	878	11	24	414	< 1
46263	1.25	2.09	3.83	0.93	0.02	27	685	24	4	899	12	40	373	< 1
46264	0.89	1.43	5.74	0.85	0.04	110	688	28	13	631	7	25	246	1
46265	0.89	1.38	6.84	0.72	0.03	203	734	< 2	18	575	8	21	148	< 1
46266	1.51	2.47	12.30	0.89	0.05	525	1656	< 2	46	1170	14	30	472	< 1
46267	1.17	1.88	12.00	0.80	0.03	275	1419	< 2	20	786	11	34	424	< 1
46268	1.87	2.57	8.96	0.94	0.02	420	1176	40	14	936	14	52	373	1
46269	1.68	2.39	10.45	0.90	0.03	445	1342	8	13	973	14	21	392	< 1
46270	1.93	2.53	3.95	0.97	0.02	294	806	100	9	795	15	43	245	< 1
46271	0.70	1.61	1.22	0.58	0.02	395	333	124	9	667	9	16	75	3
46272	3.58	6.37	4.09	1.01	0.02	898	1338	320	7	665	42	85	379	3
46273	1.23	2.65	8.14	0.69	0.02	290	1155	46	10	648	15	184	190	2
46274	2.10	6.54	1.36	0.86	0.03	1227	694	434	7	128	40	284	125	5
46275	2.03	4.41	1.02	0.87	0.04	1743	529	436	5	225	31	90	130	3

SAMPLE #	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46241	34	77	63	48	< 2	< 1	< 1	< 1	10	30	5	5	< 10	25	90	< 10
46242	39	87	53	61	< 2	1	< 1	< 1	< 10	30	4	7	< 10	40	115	< 10
46243	32	83	30	50	< 2	< 1	< 1	< 1	10	30	5	14	< 10	30	95	< 10
46244	30	70	71	39	< 2	< 1	< 1	< 1	< 10	20	5	13	< 10	45	95	< 10
46245	2471	76	6	58	< 2	< 1	3	< 1	< 10	10	8	11	< 10	35	40	20
46246	31	50	58	50	< 2	< 1	2	< 1	< 10	10	3	10	< 10	145	60	< 10
46247	453	118	24	45	< 2	1	< 1	< 1	< 10	20	3	15	< 10	55	55	< 10
46248	348	153	27	48	< 2	2	< 1	< 1	< 10	10	3	19	< 10	35	75	< 10
46249	387	141	34	50	< 2	< 1	< 1	< 1	< 10	25	3	17	< 10	85	70	< 10
46250	311	94	56	52	< 2	1	4	< 1	< 10	20	4	15	< 10	160	80	< 10
46251	89	85	43	157	< 2	1	9	< 1	10	20	4	19	< 10	455	130	< 10
46252	57	65	62	47	< 2	< 1	< 1	< 1	< 10	20	6	13	< 10	90	85	< 10
46253	77	84	30	84	< 2	< 1	3	< 1	< 10	15	2	16	< 10	210	80	< 10
46254	872	129	25	42	< 2	1	< 1	< 1	< 10	10	5	11	< 10	30	65	20
46255	334	155	19	58	< 2	1	< 1	< 1	< 10	10	5	18	< 10	30	60	20
46256	76	105	27	88	< 2	1	1	< 1	< 10	10	4	17	< 10	135	140	< 10
46257	64	108	22	77	< 2	1	< 1	< 1	< 10	20	3	19	< 10	90	135	< 10
46258	139	98	16	59	< 2	< 1	1	< 1	< 10	15	3	16	< 10	80	80	10
46259	1338	117	10	41	< 2	< 1	3	< 1	< 10	35	3	16	600	55	45	< 10
46260	82	77	22	52	< 2	< 1	< 1	< 1	< 10	15	2	12	< 10	85	70	< 10
46261	21	41	17	34	< 2	< 1	< 1	< 1	< 10	20	1	8	< 10	40	50	< 10
46262	16	36	24	38	< 2	< 1	< 1	< 1	< 10	20	2	9	< 10	45	50	< 10
46263	17	43	34	35	< 2	< 1	< 1	< 1	< 10	20	2	9	< 10	50	45	< 10
46264	19	28	58	21	< 2	< 1	< 1	< 1	< 10	< 5	2	5	< 10	20	40	< 10
46265	12	30	60	15	< 2	< 1	< 1	< 1	< 10	< 5	2	5	< 10	15	25	< 10
46266	31	56	83	40	< 2	< 1	< 1	< 1	< 10	5	4	10	< 10	30	75	< 10
46267	26	38	75	31	< 2	< 1	< 1	< 1	< 10	15	3	8	< 10	15	50	< 10
46268	32	57	96	32	< 2	< 1	< 1	< 1	< 10	15	3	10	< 10	45	60	< 10
46269	29	55	81	36	< 2	< 1	< 1	< 1	< 10	10	4	10	< 10	40	65	< 10
46270	37	68	37	27	< 2	< 1	< 1	< 1	< 10	15	3	10	< 10	45	40	< 10
46271	30	67	11	14	< 2	< 1	< 1	< 1	< 10	< 5	2	5	< 10	10	25	< 10
46272	159	246	38	55	< 2	< 1	< 1	< 1	< 10	15	5	23	< 10	45	65	20
46273	55	71	97	21	< 2	< 1	< 1	< 1	< 10	< 5	4	9	< 10	25	45	30
46274	523	236	14	45	< 2	< 1	< 1	< 1	< 10	10	7	20	< 10	25	30	< 10
46275	195	284	14	37	< 2	< 1	< 1	< 1	< 10	10	7	22	< 10	40	20	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

...bor...ir... TSL, ...SA... S L...ra... ies
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CYPRUS CANADA INC.
2R-1931-RG1-5

REPORT No. : T2181

File No. : DE02MA
Date : DEC-07-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

PROJ.:KERR MINE

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46276	1.77	4.19	2.67	0.77	0.03	1358	754	348	15	153	30	100	61	3	166	259	37	31	< 2	< 1	< 1	< 1	< 10	15	6	20	< 10	15	15	< 10
46277	2.28	5.13	3.23	0.84	0.04	1242	1022	304	25	113	37	123	61	4	204	333	49	33	< 2	< 1	< 1	< 1	< 10	10	5	24	< 10	25	25	10
46278	2.24	4.83	2.96	0.83	0.03	1085	992	430	24	63	35	88	64	2	209	294	41	34	< 2	< 1	< 1	< 1	< 10	5	6	25	< 10	30	15	< 10
46279	2.00	5.12	3.80	0.76	0.04	833	1299	392	40	56	36	102	56	2	194	280	36	35	< 2	< 1	< 1	< 1	< 10	10	7	26	< 10	20	30	< 10
46280	3.43	5.77	4.09	1.00	0.02	296	1388	82	8	2637	36	88	983	< 1	115	136	42	90	< 2	< 1	< 1	< 1	< 10	25	3	21	< 10	115	145	< 10
46281	2.28	3.83	5.20	0.79	0.04	351	1580	76	19	346	25	58	331	< 1	81	93	56	58	< 2	< 1	< 1	< 1	< 10	10	4	17	< 10	75	35	< 10
46282	1.54	2.46	5.30	0.89	0.06	371	871	48	68	887	11	16	333	< 1	39	54	80	28	< 2	< 1	< 1	< 1	< 10	5	3	4	< 10	15	50	< 10
46283	3.28	4.40	3.13	1.11	0.05	806	1014	242	71	951	23	39	452	< 1	113	109	54	39	< 2	< 1	< 1	< 1	< 10	20	5	10	< 10	25	70	< 10
46284	2.30	3.90	4.92	0.99	0.06	799	948	180	85	1010	18	49	485	5	113	91	70	39	< 2	< 1	< 1	< 1	< 10	15	4	5	< 10	15	55	< 10
46285	1.33	2.57	10.10	0.80	0.04	832	1203	60	44	910	10	37	476	4	39	56	144	35	< 2	< 1	< 1	< 1	< 10	< 5	5	1	< 10	10	60	< 10
46286	0.90	1.98	6.55	0.69	0.04	220	741	106	17	660	7	47	535	1	32	39	75	36	< 2	< 1	< 1	< 1	< 10	< 5	3	< 1	< 10	20	40	< 10
46287	0.83	1.68	7.55	0.66	0.06	191	1015	98	32	595	6	36	447	2	34	36	85	33	< 2	< 1	< 1	< 1	< 10	< 5	3	< 1	< 10	15	40	< 10
46288	1.18	2.15	3.01	1.02	0.03	16	648	46	9	990	13	42	524	< 1	18	40	48	35	< 2	< 1	< 1	< 1	< 10	10	3	10	< 10	20	50	< 10
46289	1.13	2.19	4.50	1.02	0.03	11	697	18	11	1024	12	29	424	< 1	18	42	101	29	< 2	< 1	< 1	< 1	10	10	3	8	< 10	20	65	< 10
46290	0.94	1.84	3.02	0.92	0.03	11	380	18	7	774	10	26	495	< 1	15	36	63	31	< 2	< 1	< 1	< 1	< 10	15	3	5	< 10	15	45	< 10
46291	1.40	2.12	8.34	0.87	0.04	220	887	46	27	831	8	70	582	< 1	42	34	150	41	< 2	< 1	< 1	< 1	< 10	5	4	< 1	< 10	25	55	< 10
46292	0.36	1.73	1.55	0.50	0.13	303	319	282	75	201	11	45	199	6	141	45	23	28	< 2	< 1	< 1	< 1	< 10	< 5	3	4	< 10	15	20	< 10
61232	0.57	5.78	4.23	0.79	0.02	10	2311	336	17	60	29	73	51	3	95	26	102	30	< 2	2	< 1	< 1	< 10	15	3	5	< 10	45	25	< 10
61233	0.25	5.21	3.58	0.76	0.02	4	1704	300	19	139	25	63	46	8	106	13	120	28	< 2	1	< 1	< 1	< 10	10	3	4	< 10	55	25	< 10
61257	1.48	5.26	4.34	0.93	0.02	20	1275	578	8	165	30	93	77	4	146	84	154	26	< 2	2	2	< 1	< 10	10	3	9	< 10	90	30	10
61258	1.07	6.06	4.05	0.80	0.03	16	1375	390	9	60	34	79	44	4	130	100	87	30	< 2	2	< 1	< 1	< 10	10	3	12	< 10	110	25	< 10
61280	0.35	4.31	3.35	0.69	0.04	12	773	576	6	164	24	154	245	14	705	43	342	37	< 2	1	13	< 1	< 10	10	3	7	< 10	550	20	20
61281	0.31	3.65	9.73	1.19	0.02	< 1	1368	< 2	1	339	21	9	631	< 1	56	18	369	48	< 2	< 1	35	< 1	< 10	35	6	13	< 10	1545	40	< 10
61300	0.82	3.77	5.61	0.99	0.02	7	1013	1246	1	215	23	81	155	5	39	37	104	35	< 2	2	6	< 1	< 10	10	5	10	< 10	320	30	< 10
61301	0.74	3.59	6.35	1.00	0.02	5	1279	1420	1	245	21	70	995	< 1	44	35	114	128	< 2	< 1	23	< 1	< 10	30	5	9	< 10	1170	25	< 10
61331	0.28	2.86	3.06	1.22	0.01	1	662	52	27	309	15	34	243	< 1	16	6	84	35	< 2	< 1	< 1	< 1	< 10	30	2	8	< 10	100	20	< 10
61332	0.27	2.47	3.06	1.21	0.02	< 1	673	30	63	251	13	32	155	< 1	11	5	182	23	< 2	< 1	< 1	< 1	< 10	25	2	7	< 10	40	25	< 10
61366	1.00	2.66	5.92	1.13	0.01	7	739	30	5	501	17	46	219	3	20	28	178	29	< 2	< 1	< 1	< 1	< 10	10	2	12	< 10	45	35	< 10
61367	1.46	3.02	3.89	1.05	0.02	14	646	1780	5	207	20	51	84	7	38	47	144	21	< 2	1	< 1	< 1	< 10	20	4	12	< 10	60	20	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
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CYPRUS CANADA

2R-1993-RG1-4

PROJ.:KERR MINE

REPORT No. : T2210

File No. : DE09MB
Date : DEC-11-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46444	1.75	4.56	3.00	0.63	0.06	64	1456	464	34	138	23	107	94	< 1	127	195	37	58	< 2	< 1	2	< 1	< 10	10	4	15	< 10	395	25	< 10
46445	0.49	5.84	3.83	0.59	0.03	19	1546	592	6	132	25	77	50	< 1	110	61	72	34	< 2	< 1	< 1	< 1	< 10	20	4	9	< 10	>9999	10	20
46446	1.67	5.96	3.64	0.62	0.04	39	1762	568	5	91	33	56	45	21	367	196	53	33	< 2	< 1	< 1	< 1	< 10	10	6	20	< 10	1870	20	< 10
46447	0.41	4.64	2.72	0.55	0.03	14	1141	548	6	218	19	33	77	< 1	100	38	51	38	< 2	< 1	< 1	< 1	< 10	10	5	8	< 10	>9999	25	20
46448	1.92	4.98	1.69	0.61	0.04	54	921	676	5	99	27	21	65	< 1	226	141	33	34	< 2	< 1	< 1	< 1	< 10	< 5	5	19	< 10	1390	15	< 10
46449	0.68	4.79	3.08	0.62	0.04	19	1166	398	5	210	20	39	149	< 1	101	63	64	43	< 2	< 1	< 1	< 1	< 10	5	4	9	< 10	9965	15	10
46450	0.95	5.66	4.10	0.68	0.03	18	1449	366	6	85	23	68	82	< 1	114	92	68	35	< 2	< 1	< 1	< 1	< 10	10	6	10	< 10	>9999	< 5	10
46451	1.03	5.68	4.39	0.67	0.03	22	1853	396	6	140	24	94	59	14	288	100	59	40	< 2	< 1	< 1	< 1	< 10	10	7	10	< 10	7195	15	< 10
46452	1.92	5.37	3.63	0.71	0.03	36	1402	436	18	64	24	98	71	< 1	139	173	61	38	< 2	< 1	< 1	< 1	< 10	10	5	14	< 10	1135	10	< 10
46453	0.79	5.20	4.21	0.68	0.03	22	1689	514	8	136	22	87	85	< 1	109	74	82	39	< 2	< 1	< 1	< 1	< 10	15	5	9	< 10	>9999	10	< 10
46454	2.87	6.06	2.85	0.68	0.03	89	970	450	3	53	34	114	65	< 1	108	290	52	45	< 2	< 1	< 1	< 1	< 10	10	6	26	< 10	1615	10	< 10
46455	1.26	7.24	3.72	0.63	0.02	24	1563	324	9	82	30	76	65	4	71	86	76	36	< 2	< 1	< 1	< 1	< 10	15	3	8	< 10	>9999	5	40
46456	3.09	6.68	4.98	0.69	0.02	101	1555	424	11	63	33	93	51	< 1	105	209	121	38	< 2	< 1	< 1	< 1	< 10	10	6	17	< 10	8075	20	< 10
46457	3.79	6.82	4.57	0.72	0.02	217	1374	406	3	30	38	88	41	< 1	115	304	81	37	< 2	< 1	< 1	< 1	< 10	15	5	28	< 10	190	25	< 10
46458	1.18	2.76	13.01	0.73	0.12	22	2116	< 2	43	1065	13	59	563	< 1	33	67	119	49	< 2	< 1	2	< 1	< 10	10	5	10	< 10	190	95	< 10
46293	0.53	3.28	1.04	0.56	0.17	469	462	460	46	371	20	85	259	6	238	93	13	37	< 2	< 1	< 1	< 1	< 10	< 5	4	8	< 10	50	25	< 10
46294	0.43	2.82	1.97	0.48	0.17	385	472	564	38	294	15	135	102	14	136	48	35	20	< 2	< 1	1	< 1	< 10	< 5	3	4	< 10	450	20	< 10
46295	0.77	2.97	7.18	0.59	0.12	418	892	252	62	974	15	69	669	15	273	57	92	52	< 2	< 1	< 1	< 1	< 10	15	4	3	< 10	35	80	< 10
46296	1.90	3.73	5.40	0.80	0.10	836	1045	202	110	970	12	61	562	< 1	72	96	75	45	< 2	< 1	< 1	< 1	< 10	10	5	2	< 10	15	70	< 10
46297	1.85	3.53	10.32	0.77	0.10	878	1297	24	138	1313	12	50	748	< 1	55	89	149	50	< 2	< 1	< 1	< 1	< 10	10	5	2	< 10	10	120	< 10
46298	2.10	3.04	11.18	0.85	0.04	200	1309	< 2	20	1029	9	41	456	< 1	52	68	236	32	< 2	< 1	< 1	< 1	< 10	25	7	3	< 10	10	90	< 10
46299	1.79	3.36	7.11	0.97	0.06	41	1114	< 2	35	1390	13	32	617	< 1	30	59	186	41	< 2	< 1	< 1	< 1	30	35	5	8	< 10	10	110	< 10
46300	2.68	3.60	1.71	0.99	0.04	431	473	60	14	1461	11	71	560	< 1	36	80	51	40	< 2	< 1	< 1	< 1	< 10	25	4	2	< 10	35	100	< 10
46301	2.18	3.38	5.38	0.99	0.07	39	830	< 2	31	1511	12	37	634	< 1	33	72	143	42	< 2	< 1	< 1	< 1	30	35	5	7	< 10	20	110	< 10
46302	1.53	2.70	6.03	0.93	0.06	32	847	< 2	27	1139	10	52	485	< 1	26	52	143	32	< 2	< 1	< 1	< 1	30	30	5	6	< 10	10	85	< 10
46303	1.82	3.67	4.71	1.00	0.07	31	747	< 2	32	1965	14	28	846	< 1	31	72	113	51	< 2	< 1	< 1	< 1	50	35	6	8	< 10	25	130	< 10
46304	1.32	2.68	3.99	0.92	0.06	28	555	< 2	21	1139	10	38	627	< 1	23	53	103	42	< 2	< 1	< 1	< 1	30	30	4	6	< 10	20	90	< 10
46305	1.51	3.07	7.07	0.93	0.05	20	966	< 2	19	1135	11	33	436	< 1	22	56	242	31	< 2	< 1	< 1	< 1	20	30	5	7	< 10	< 5	90	< 10
46306	0.88	1.90	3.59	0.79	0.02	24	587	< 2	6	690	9	36	245	< 1	13	36	45	19	< 2	< 1	< 1	< 1	< 10	15	3	8	< 10	15	55	< 10
46307	0.96	2.08	5.03	0.85	0.02	23	954	< 2	6	831	9	38	349	< 1	14	35	78	26	< 2	< 1	< 1	< 1	< 10	25	4	8	< 10	15	50	< 10
46308	0.90	1.81	4.91	0.80	0.02	23	725	< 2	6	755	8	29	256	< 1	12	35	51	18	< 2	< 1	< 1	< 1	< 10	20	3	7	< 10	15	70	< 10
46309	0.89	1.72	8.91	0.76	0.02	16	986	< 2	6	733	8	39	241	< 1	12	34	112	17	< 2	< 1	< 1	< 1	< 10	15	4	8	< 10	10	70	< 10
46310	1.03	1.84	6.10	0.74	0.02	22	834	< 2	5	849	9	40	281	< 1	14	40	61	19	< 2	< 1	< 1	< 1	< 10	15	3	8	< 10	< 5	75	< 10
46311	0.70	1.45	3.47	0.81	0.02	26	465	22	6	714	6	21	233	4	14	29	35	16	< 2	< 1	< 1	< 1	< 10	< 5	2	6	< 10	10	30	< 10
46312	1.27	2.19	5.51	0.98	0.03	35	684	28	8	971	11	31	286	8	19	53	83	28	< 2	< 1	< 1	< 1	< 10	10	4	10	< 10	30	75	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : [signature]

CYPRUS CANADA

2R-1993-RG1-4

PROJ.:KERR MINE

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

REPORT No. : T2210

File No. : DE09MB
Date : DEC-11-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46313	1.05	1.93	5.83	0.90	0.02	27	687	8	5	878	9	48	238	3	16	44	87	21	< 2	< 1	< 1	< 1	< 10	15	3	8	< 10	25	65	< 10
46314	0.86	1.60	6.98	0.78	0.03	136	838	64	4	522	7	28	147	5	13	39	71	14	< 2	< 1	< 1	< 1	< 10	5	2	6	< 10	10	30	< 10
46315	1.06	1.93	7.19	0.86	0.03	152	829	28	5	883	7	38	229	6	17	43	71	24	< 2	< 1	< 1	< 1	< 10	15	2	5	< 10	35	65	< 10
46316	1.47	3.52	5.87	0.84	0.11	507	1208	612	65	544	17	75	248	11	110	95	82	32	< 2	< 1	< 1	< 1	< 10	15	4	10	< 10	45	40	< 10
46317	1.83	4.74	5.12	0.80	0.06	515	1300	546	26	630	21	69	367	21	207	88	81	43	< 2	< 1	< 1	< 1	< 10	15	4	7	< 10	80	35	< 10
46318	1.21	3.27	2.04	0.60	0.08	255	509	670	58	382	15	74	172	20	124	32	47	32	< 2	< 1	< 1	< 1	< 10	< 5	3	2	< 10	40	20	< 10
46319	1.04	2.53	1.62	0.56	0.05	162	341	792	24	320	11	73	131	28	94	22	51	28	2	< 1	< 1	< 1	< 10	< 5	3	1	< 10	40	25	< 10
46320	1.39	2.87	1.41	0.63	0.06	214	384	846	38	284	14	58	133	25	77	23	57	28	2	< 1	< 1	< 1	< 10	< 5	3	2	< 10	45	15	< 10
46321	1.31	2.81	2.59	0.60	0.06	86	466	842	30	282	12	60	115	23	68	23	131	26	< 2	< 1	< 1	< 1	< 10	< 5	3	2	< 10	30	< 5	< 10
46322	1.08	2.51	3.41	0.52	0.05	26	515	730	32	241	11	44	93	24	64	18	141	21	< 2	< 1	< 1	< 1	< 10	< 5	3	1	< 10	25	10	< 10
46323	1.45	4.52	3.75	0.62	0.04	40	673	940	45	267	20	181	167	27	410	29	113	41	< 2	< 1	< 1	< 1	< 10	5	4	3	< 10	35	15	< 10
46324	2.50	6.67	8.61	0.70	0.04	87	2387	562	8	44	32	96	122	12	133	222	206	41	< 2	< 1	< 1	< 1	< 10	5	5	20	20	10	< 5	< 10
46325	2.43	6.27	7.46	0.69	0.04	227	1931	590	< 1	43	34	99	100	14	121	287	148	39	< 2	< 1	< 1	< 1	< 10	15	5	25	< 10	25	5	< 10
46326	2.73	6.79	6.39	0.75	0.05	297	1770	552	2	47	37	93	162	11	124	300	127	39	< 2	< 1	< 1	< 1	< 10	< 5	4	26	< 10	45	5	< 10
46327	3.13	7.31	6.83	0.78	0.03	208	2116	492	< 1	36	36	93	78	10	123	283	133	36	< 2	< 1	< 1	< 1	< 10	15	4	25	< 10	< 5	< 5	< 10
46328	3.47	8.20	7.39	0.79	0.03	233	2421	470	3	39	42	74	99	17	170	270	134	37	4	< 1	< 1	< 1	< 10	15	4	24	< 10	< 5	30	< 10
46329	1.40	5.42	3.93	0.78	0.05	57	1433	772	20	117	24	120	523	6	228	165	44	67	< 2	< 1	< 1	< 1	< 10	5	5	13	< 10	30	< 5	< 10
46330	2.19	6.33	5.77	0.78	0.05	93	1858	614	3	40	33	109	327	7	194	252	33	49	< 2	< 1	< 1	< 1	< 10	10	5	22	< 10	15	< 5	< 10
46331	2.43	7.69	5.33	0.85	0.03	66	2452	590	2	50	39	97	115	8	143	255	40	44	2	< 1	< 1	< 1	< 10	10	4	25	< 10	35	10	< 10
46332	0.54	4.27	12.79	1.14	0.02	< 1	1807	< 2	< 1	480	17	36	785	< 1	28	22	221	61	< 2	< 1	< 1	< 1	< 10	45	5	9	< 10	430	45	< 10
46333	0.45	5.70	13.03	1.07	0.02	7	2273	664	14	708	20	80	937	< 1	219	23	277	74	< 2	< 1	< 1	< 1	< 10	30	7	7	< 10	365	45	< 10
46334	0.89	7.74	5.28	0.77	0.03	21	1849	602	12	300	29	167	227	16	1396	94	122	56	< 2	< 1	< 1	< 1	< 10	< 5	4	9	< 10	105	20	< 10
46335	1.65	5.40	4.02	0.85	0.05	72	1444	674	21	133	23	91	174	8	334	156	72	49	< 2	< 1	< 1	< 1	< 10	15	5	12	< 10	60	< 5	< 10
46336	1.90	5.07	3.99	0.76	0.05	79	1152	698	9	77	25	94	181	9	217	217	74	47	< 2	< 1	< 1	< 1	< 10	10	5	17	< 10	30	< 5	< 10
46337	2.12	5.02	3.63	0.76	0.05	73	1104	714	13	85	23	99	219	10	239	229	66	52	< 2	< 1	< 1	< 1	< 10	10	6	15	< 10	15	< 5	< 10
46338	2.20	5.74	5.75	0.74	0.05	114	1465	594	12	78	26	107	154	12	361	208	89	46	< 2	< 1	< 1	< 1	< 10	< 5	6	14	< 10	15	< 5	< 10
46339	2.26	6.00	5.04	0.71	0.03	62	1349	584	26	61	22	105	105	15	355	148	73	45	< 2	< 1	< 1	< 1	< 10	< 5	6	8	< 10	20	< 5	< 10
46340	2.92	6.89	3.72	0.85	0.04	646	1173	626	2	43	36	86	103	11	150	283	63	36	2	< 1	< 1	< 1	< 10	15	6	23	< 10	< 5	< 5	< 10
46341	2.64	6.35	7.27	0.80	0.03	221	1697	498	8	44	29	76	65	13	152	213	106	34	< 2	< 1	< 1	< 1	< 10	5	5	18	< 10	10	< 5	< 10
46342	1.55	5.00	6.11	0.69	0.09	210	1350	574	31	35	24	87	59	5	103	225	54	39	< 2	< 1	< 1	< 1	< 10	< 5	7	17	< 10	65	< 5	< 10
46343	1.25	4.47	6.54	0.64	0.12	216	1348	594	36	34	22	82	57	4	74	222	51	39	< 2	< 1	< 1	< 1	< 10	10	7	17	< 10	55	< 5	< 10
46344	1.61	4.34	4.78	0.75	0.07	191	1052	630	10	64	23	77	67	6	81	214	35	40	< 2	< 1	< 1	< 1	< 10	< 5	5	17	< 10	70	< 5	< 10
46345	1.40	3.82	12.79	0.82	0.05	40	2264	122	7	754	16	52	603	5	46	90	71	57	< 2	< 1	< 1	< 1	< 10	5	5	10	< 10	120	70	< 10
46346	0.73	2.15	12.14	0.83	0.05	6	2525	< 2	4	751	9	39	654	< 1	21	33	93	57	< 2	< 1	< 1	< 1	< 10	15	6	7	< 10	110	80	< 10
46347	0.63	1.87	12.24	0.80	0.08	6	2191	< 2	16	710	8	39	450	< 1	25	32	107	42	< 2	< 1	< 1	< 1	< 10	15	5	7	< 10	30	70	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : [signature]

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1993-RG1-4

PROJ.:KERR MINE

File No. : DE09MB
Date : DEC-11-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46348	0.37	1.66	11.34	0.48	0.13	< 1	3378	< 2	43	558	6	30	394	< 1	30	24	105	40	< 2	< 1	< 1	< 1	< 10	< 5	9	5	< 10	20	70	< 10
46349	0.24	1.14	11.42	0.43	0.14	9	2545	< 2	11	413	4	23	404	< 1	17	18	125	38	< 2	< 1	< 1	< 1	< 10	10	6	4	< 10	10	70	< 10
46350	0.54	1.36	9.42	0.78	0.02	6	959	< 2	3	535	7	30	188	2	9	23	61	14	< 2	< 1	< 1	< 1	< 10	< 5	3	7	< 10	< 5	45	< 10
46351	0.33	0.93	11.48	0.64	0.02	6	989	< 2	6	284	4	20	148	< 1	7	14	84	12	< 2	< 1	< 1	< 1	< 10	< 5	3	4	< 10	10	25	< 10
46352	0.53	1.18	10.72	0.73	0.02	9	918	< 2	6	510	6	30	180	< 1	8	21	109	12	< 2	< 1	< 1	< 1	< 10	5	4	6	< 10	5	45	< 10
46353	0.35	1.25	12.42	0.57	0.14	24	1752	< 2	5	608	5	48	450	< 1	23	27	81	40	< 2	< 1	< 1	< 1	< 10	10	3	6	< 10	5	60	< 10
46354	0.59	1.67	12.20	0.65	0.13	39	1787	< 2	8	744	7	37	574	< 1	24	31	85	49	< 2	< 1	< 1	< 1	< 10	< 5	4	7	< 10	10	85	< 10
46355	0.44	3.93	11.60	0.65	0.12	3	4207	< 2	7	419	13	111	291	4	41	18	99	26	< 2	< 1	< 1	< 1	< 10	< 5	5	5	< 10	20	65	< 10
46356	1.25	3.81	12.52	0.88	0.03	28	2641	< 2	2	1252	16	54	453	< 1	31	55	57	39	< 2	< 1	< 1	< 1	< 10	10	6	11	< 10	< 5	100	< 10
46357	2.55	8.00	11.63	1.00	0.03	66	5841	< 2	< 1	2511	39	85	684	3	68	108	91	82	< 2	1	< 1	< 1	< 10	20	11	21	< 10	105	240	< 10
46358	2.02	10.05	12.81	0.96	0.05	74	5917	< 2	13	1952	44	44	538	1	138	92	57	56	4	1	< 1	< 1	< 10	15	8	13	< 10	80	175	< 10
46359	1.90	10.16	12.83	0.99	0.03	82	6188	70	2	1796	42	42	566	< 1	62	76	47	64	2	1	< 1	< 1	< 10	20	7	13	< 10	75	175	< 10
46360	0.57	1.56	0.77	0.47	0.06	380	170	134	9	90	5	123	62	4	14	20	3	18	< 2	< 1	< 1	< 1	< 10	< 5	1	2	< 10	15	< 5	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : [signature]

Laboratoires TSL/ASSAYERS Laboratories

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6

PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA INC.

2R-2048-RG1

ATTN:DAVE STEVENSON

PROJ.:KERR

REPORT No. : T22592

File No. : DE16MA

Date : JAN-12-1993

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46361	0.65	11.94	15.48	0.96	0.03	29	7373	28	48	403	25	138	348	11	33	< 1	71	26	< 2	< 1	< 1	< 1	< 10	< 5	10	5	< 10	20	155	< 10
46362	1.69	4.85	14.61	0.93	<0.01	21	2425	10	< 1	1309	9	60	532	< 1	38	81	85	40	< 2	1	< 1	< 1	< 10	< 5	7	15	< 10	55	100	< 10
46363	1.54	4.60	14.70	1.05	<0.01	16	2323	12	< 1	1178	9	48	590	< 1	43	72	84	54	< 2	< 1	< 1	< 1	< 10	5	7	15	10	115	100	< 10
46364	1.66	4.71	15.26	1.17	<0.01	17	2131	42	< 1	1301	9	64	661	< 1	41	72	69	51	< 2	< 1	< 1	< 1	< 10	15	9	15	< 10	85	95	< 10
46365	1.24	4.15	8.99	1.22	<0.01	16	1150	44	< 1	1072	8	56	538	< 1	25	50	43	37	< 2	< 1	< 1	< 1	< 10	15	6	14	< 10	40	75	< 10
46366	0.97	4.04	9.79	1.22	<0.01	10	1052	44	< 1	919	6	66	361	< 1	18	35	48	29	< 2	< 1	< 1	< 1	< 10	15	6	13	< 10	35	60	< 10
46367	0.92	3.96	10.07	1.21	<0.01	10	1441	34	< 1	974	6	52	476	< 1	19	38	42	42	< 2	< 1	< 1	< 1	< 10	15	7	12	< 10	75	65	< 10
46368	0.62	3.01	8.53	1.15	<0.01	11	1757	48	10	1207	3	54	302	< 1	17	38	25	40	< 2	< 1	< 1	< 1	< 10	15	8	8	< 10	60	70	< 10
46369	1.33	4.75	15.20	1.33	<0.01	17	3124	44	< 1	1643	11	56	742	< 1	43	68	39	60	< 2	< 1	< 1	< 1	< 10	25	11	16	< 10	135	125	< 10
46370	1.58	4.50	14.62	0.92	0.05	35	2446	18	49	1557	11	62	587	< 1	43	89	121	47	< 2	< 1	< 1	< 1	< 10	< 5	8	17	10	35	130	< 10
46371	1.52	4.28	15.41	1.19	0.03	17	2069	32	22	1299	9	47	638	< 1	35	64	58	49	< 2	< 1	< 1	< 1	< 10	10	12	15	< 10	30	90	< 10
46372	1.85	4.61	15.40	1.17	0.02	16	1680	28	14	1383	9	66	727	< 1	41	74	89	48	< 2	< 1	< 1	< 1	< 10	20	9	16	< 10	40	105	< 10
46373	2.05	4.63	14.75	0.94	<0.01	25	2341	18	2	1697	10	60	671	< 1	48	97	160	49	< 2	< 1	< 1	< 1	< 10	15	8	18	< 10	30	120	< 10
46374	4.32	9.84	5.58	0.97	<0.01	251	1308	392	2	131	36	133	91	< 1	120	446	86	41	< 2	< 1	< 1	< 1	< 10	5	8	44	< 10	20	60	< 10
46375	3.12	8.14	6.85	0.88	0.01	238	1432	350	8	212	26	84	69	< 1	100	397	128	32	< 2	< 1	< 1	< 1	< 10	< 5	9	36	< 10	35	35	< 10
46376	3.42	8.77	4.99	0.93	0.02	317	1416	438	2	104	28	121	61	< 1	123	444	85	39	< 2	< 1	< 1	< 1	< 10	< 5	5	40	< 10	25	20	< 10
46377	3.40	9.41	5.66	0.93	0.01	280	1497	422	10	101	29	119	59	< 1	127	400	83	38	< 2	< 1	< 1	< 1	< 10	< 5	4	36	< 10	30	40	< 10
46378	3.25	10.39	6.45	0.96	<0.01	333	2460	360	17	85	26	89	40	< 1	123	284	89	33	< 2	< 1	< 1	< 1	< 10	< 5	5	28	< 10	35	60	< 10
46379	2.51	9.01	6.61	0.94	0.01	260	2550	402	10	100	22	102	40	< 1	104	291	76	30	< 2	< 1	< 1	< 1	< 10	< 5	5	27	< 10	30	35	< 10
46380	2.60	9.08	6.48	0.95	0.02	329	2608	412	11	109	28	129	56	< 1	109	352	78	36	< 2	< 1	3	< 1	< 10	< 5	5	31	< 10	45	45	< 10
46381	3.71	9.60	3.96	0.99	<0.01	158	1807	320	5	473	27	60	161	< 1	113	319	56	41	< 2	< 1	< 1	< 1	< 10	< 5	5	30	< 10	20	55	< 10
46382	3.17	7.52	10.35	1.32	<0.01	42	2321	34	1	2510	17	53	1148	< 1	83	140	189	82	< 2	< 1	< 1	< 1	< 10	35	7	26	< 10	195	175	< 10
46383	2.51	6.50	9.23	1.31	<0.01	26	1687	10	2	2023	14	61	923	< 1	59	109	194	70	< 2	< 1	3	< 1	< 10	15	5	21	< 10	200	140	< 10
46384	2.18	5.77	10.80	1.35	<0.01	23	1319	4	< 1	1744	11	52	1006	< 1	44	91	247	66	< 2	< 1	3	< 1	< 10	25	6	17	< 10	215	125	< 10
46385	1.70	3.51	7.97	1.74	0.02	26	1627	22	< 1	1268	12	51	400	< 1	26	57	172	43	< 2	< 1	2	< 1	< 10	10	5	15	< 10	45	100	< 10
46386	0.79	2.70	7.52	1.06	<0.01	11	817	42	2	745	3	45	356	< 1	17	31	98	23	< 2	< 1	< 1	< 1	< 10	15	3	9	< 10	20	45	< 10
46387	1.87	3.94	12.86	1.61	0.06	24	1962	28	9	1238	11	43	723	< 1	40	65	191	55	< 2	< 1	< 1	< 1	< 10	15	6	14	< 10	25	105	< 10
46388	3.03	8.47	4.14	0.92	0.02	103	1806	270	4	1248	13	97	929	< 1	226	100	56	57	< 2	< 1	< 1	< 1	< 10	10	4	16	< 10	55	75	< 10
46389	2.95	7.99	6.57	0.83	0.02	287	1909	406	6	99	22	155	82	< 1	253	310	102	34	< 2	< 1	2	< 1	< 10	< 5	5	30	< 10	80	15	< 10
46390	4.46	10.09	6.99	1.00	<0.01	322	2119	422	2	65	34	141	74	< 1	142	431	226	41	< 2	< 1	< 1	< 1	< 10	10	7	45	< 10	30	45	< 10
46391	4.74	10.84	7.11	0.99	<0.01	385	2195	386	7	48	35	127	62	< 1	153	398	168	39	< 2	1	2	< 1	< 10	< 5	6	41	< 10	50	70	< 10
46392	4.25	10.36	6.32	0.92	<0.01	289	2366	418	6	40	31	123	62	4	130	411	133	32	< 2	< 1	< 1	< 1	< 10	5	5	39	< 10	70	45	< 10
46393	4.00	10.26	6.75	0.98	<0.01	186	2237	406	6	49	30	111	68	< 1	412	374	121	38	< 2	< 1	2	< 1	< 10	< 5	6	36	< 10	25	40	< 10
46394	2.34	9.46	6.31	0.92	0.01	227	2366	438	56	79	18	120	67	1	100	192	120	44	< 2	< 1	< 1	< 1	< 10	< 5	5	19	< 10	95	30	< 10
46395	1.90	8.84	6.61	0.90	0.01	45	1656	410	6	161	15	114	70	< 1	95	169	91	40	< 2	< 1	< 1	< 1	< 10	< 5	5	16	< 10	55	25	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : [signature]

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA INC.

2R-2048-RG1
ATTN:DAVE STEVENSON
PROJ.:KERR

REPORT No. : T22592

File No. : DE16MA
Date : JAN-12-1993

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46396	1.81	8.79	6.65	0.90	<0.01	34	2166	432	10	126	12	93	77	< 1	78	129	90	34	< 2	< 1	< 1	< 1	< 10	< 5	5	14	< 10	50	25	< 10
46397	2.33	9.56	6.53	0.93	<0.01	238	2355	478	30	85	16	108	72	< 1	118	184	154	35	< 2	< 1	< 1	< 1	< 10	< 5	5	17	< 10	35	30	< 10
46398	2.60	9.43	6.39	0.95	<0.01	220	2178	540	26	97	18	107	71	2	111	242	195	38	< 2	< 1	< 1	< 1	< 10	5	5	21	< 10	40	25	< 10
46399	2.10	8.85	7.21	1.01	0.01	103	2397	426	14	134	17	109	71	< 1	99	176	201	37	< 2	< 1	1	< 1	< 10	< 5	6	18	< 10	95	35	< 10
46400	2.42	9.30	6.12	1.02	<0.01	50	2080	484	13	214	17	107	83	< 1	155	137	192	37	< 2	< 1	2	< 1	< 10	< 5	6	15	< 10	105	45	< 10
46401	1.79	10.18	5.43	0.98	<0.01	41	1835	544	20	197	17	136	101	8	114	104	207	41	< 2	< 1	< 1	< 1	< 10	< 5	6	13	< 10	80	40	< 10
46402	1.31	7.07	6.12	1.08	<0.01	13	1106	1478	12	364	10	205	164	4	388	32	300	40	< 2	< 1	2	< 1	< 10	10	9	7	20	125	25	< 10
46403	1.31	6.28	7.23	1.11	<0.01	9	1202	1150	8	563	8	150	201	8	745	23	368	35	< 2	< 1	2	< 1	< 10	10	12	9	50	140	25	< 10
46404	0.70	4.98	6.67	1.04	0.01	10	1098	624	25	325	10	145	257	13	757	11	256	37	< 2	< 1	3	< 1	< 10	5	8	5	< 10	140	25	< 10
46405	1.05	6.48	11.82	1.15	<0.01	5	2165	182	13	564	6	74	611	< 1	143	34	198	47	< 2	< 1	1	< 1	< 10	10	8	9	< 10	100	45	< 10
46406	1.60	4.77	15.56	1.03	<0.01	14	2357	144	< 1	1175	7	78	823	4	69	72	199	51	< 2	< 1	< 1	< 1	< 10	10	7	15	< 10	55	75	< 10
46407	2.24	6.14	10.75	1.03	<0.01	42	1843	458	< 1	703	17	102	440	< 1	83	186	174	41	< 2	< 1	< 1	< 1	< 10	< 5	7	24	< 10	55	45	< 10
46408	1.95	5.42	11.81	1.10	<0.01	28	1947	.932	< 1	847	16	89	399	13	134	106	201	46	< 2	< 1	< 1	< 1	< 10	10	9	19	< 10	100	50	< 10
46409	2.79	8.71	5.45	0.88	<0.01	39	1435	472	9	158	14	195	155	11	289	184	68	37	< 2	< 1	2	< 1	< 10	< 5	6	14	< 10	85	40	< 10
46410	2.21	7.86	7.89	0.84	<0.01	29	1540	954	7	242	12	220	137	12	147	108	117	35	4	< 1	< 1	< 1	< 10	< 5	10	10	< 10	100	20	< 10
46411	1.32	3.51	3.42	0.67	0.02	21	623	694	21	136	4	141	65	5	209	21	45	22	< 2	< 1	< 1	< 1	< 10	< 5	8	2	< 10	70	< 5	< 10
46412	1.26	4.55	3.79	0.71	<0.01	13	881	602	24	199	5	490	103	27	2454	9	43	32	< 2	< 1	6	< 1	< 10	5	7	1	120	55	< 5	< 10
46413	1.41	6.33	3.74	0.62	<0.01	14	647	546	19	364	4	899	219	27	490	9	46	89	< 2	< 1	1	< 1	< 10	5	6	1	50	110	15	< 10
46414	2.23	6.76	1.28	0.85	<0.01	18	399	700	21	188	7	266	122	14	315	29	26	39	< 2	< 1	2	< 1	< 10	< 5	6	3	< 10	100	< 5	< 10
46415	2.57	9.12	7.46	1.08	<0.01	38	2736	396	8	140	21	57	61	3	278	164	81	33	< 2	< 1	2	< 1	< 10	< 5	10	22	< 10	75	45	< 10
46416	3.19	11.25	6.84	1.00	<0.01	60	2762	338	12	84	24	115	48	< 1	145	186	126	32	< 2	< 1	< 1	< 1	< 10	< 5	6	20	< 10	65	65	< 10
46417	1.42	5.81	7.77	1.15	<0.01	15	1745	1558	12	319	7	94	104	< 1	81	42	341	32	< 2	< 1	< 1	< 1	< 10	15	10	11	< 10	135	15	< 10
46418	1.29	8.66	6.24	0.96	<0.01	17	1916	446	15	238	10	164	143	10	1718	48	137	38	< 2	< 1	6	< 1	< 10	< 5	7	8	60	115	30	< 10
46419	1.05	7.79	5.00	0.95	<0.01	12	1847	452	16	301	8	150	165	7	3723	34	118	40	< 2	< 1	9	< 1	< 10	5	6	7	120	85	25	< 10
46420	1.15	5.34	10.07	1.23	<0.01	10	1250	386	18	461	7	81	118	< 1	134	9	549	33	< 2	< 1	1	< 1	< 10	15	7	10	< 10	130	20	< 10
46421	1.14	6.02	5.85	1.11	<0.01	10	942	1616	13	541	9	183	127	9	424	22	250	43	< 2	< 1	3	< 1	< 10	10	8	8	50	130	30	< 10
46422	1.41	5.85	10.46	1.26	<0.01	11	1851	252	4	828	8	75	624	3	76	55	239	52	< 2	< 1	4	< 1	< 10	25	7	14	< 10	335	50	< 10
46423	1.67	6.29	9.86	1.23	<0.01	16	1936	218	3	962	7	83	622	< 1	89	67	117	51	< 2	< 1	< 1	< 1	< 10	15	8	12	< 10	115	55	< 10
46424	1.72	6.68	10.40	1.25	<0.01	15	1929	208	2	1227	11	73	629	< 1	270	77	160	49	< 2	< 1	4	< 1	< 10	30	8	17	< 10	375	75	< 10
46425	1.17	6.37	9.68	1.18	<0.01	11	1912	130	12	624	9	199	454	1	392	48	157	48	< 2	< 1	2	< 1	< 10	20	9	14	30	195	40	< 10
46426	1.59	6.27	9.98	1.24	<0.01	22	1811	156	1	1180	11	70	730	< 1	95	108	149	53	< 2	< 1	2	< 1	< 10	15	7	19	< 10	175	70	< 10
46427	1.14	6.72	10.51	1.19	<0.01	19	1968	226	7	849	12	98	639	12	509	78	155	50	< 2	< 1	2	< 1	< 10	10	7	20	20	115	65	< 10
46428	1.54	7.07	9.08	1.16	0.01	48	1876	282	6	831	19	103	437	68	644	207	153	50	< 2	< 1	2	< 1	< 10	10	7	28	20	125	55	< 10
46429	1.72	4.99	15.38	1.16	<0.01	38	2015	104	< 1	1242	9	78	750	< 1	66	104	167	50	< 2	< 1	< 1	< 1	< 10	10	7	18	< 10	45	70	< 10
46430	1.94	4.54	15.41	1.13	<0.01	37	2071	416	< 1	1025	11	66	567	< 1	54	86	185	40	< 2	< 1	< 1	< 1	< 10	10	9	16	< 10	45	65	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

abo oi TS SSI RS ora rie
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA INC.

2R-2048-RG1
ATTN:DAVE STEVENSON
PROJ.:KERR

REPORT No. : T22592

File No. : DE16MA
Date : JAN-12-1993

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al	Fe	Ca	Mg	Na	Ti	Mn	P	Ba	Cr	Zr	Cu	Ni	Pb	Zn	V	Sr	Co	Mo	Ag	Cd	Be	B	Sb	Y	Sc	W	As	Bi	Sn
	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
46431	1.84	5.33	14.41	1.08	0.03	53	2181	214	41	729	12	86	554	1	87	155	198	44	< 2	< 1	< 1	< 1	< 10	5	7	22	< 10	55	45	< 10
46432	2.10	5.32	15.50	1.00	0.01	52	2035	200	23	639	11	88	376	< 1	82	160	186	38	< 2	< 1	< 1	< 1	< 10	10	8	19	< 10	85	45	< 10
46433	2.07	5.67	11.21	1.11	0.02	44	1581	344	39	502	12	88	307	< 1	83	192	167	36	< 2	< 1	< 1	< 1	< 10	10	6	23	< 10	75	30	< 10
46434	1.88	4.63	15.56	1.11	<0.01	21	2277	364	< 1	1003	8	68	693	2	64	77	146	47	< 2	< 1	< 1	< 1	< 10	40	7	14	< 10	125	55	< 10
46435	1.30	6.62	1.75	0.57	<0.01	37	454	910	15	335	15	731	283	48	2989	23	15	70	< 2	< 1	6	< 1	< 10	< 5	5	3	120	35	5	< 10
46436	2.72	9.47	5.93	1.01	<0.01	54	1512	384	8	182	22	111	82	2	170	252	104	35	< 2	< 1	2	< 1	< 10	< 5	5	25	< 10	140	35	< 10
46437	2.86	8.83	5.22	0.99	0.02	267	1482	442	4	99	28	125	57	1	182	427	158	42	< 2	1	2	< 1	< 10	< 5	8	40	< 10	65	30	< 10
46513	1.14	3.20	5.48	1.20	<0.01	10	1131	78	2	1053	5	64	577	< 1	24	43	246	62	< 2	< 1	< 1	< 1	< 10	20	4	14	< 10	195	50	< 10
46514	1.40	3.92	4.32	1.01	0.05	47	615	1650	34	195	4	49	69	17	63	52	243	17	< 2	< 1	< 1	< 1	< 10	5	6	8	< 10	35	< 5	< 10
46515	0.30	3.58	4.30	0.75	0.03	11	591	1424	32	229	6	53	35	8	54	28	211	16	< 2	< 1	< 1	< 1	< 10	< 5	5	6	< 10	45	< 5	< 10
46516	0.22	2.75	4.63	0.63	0.04	10	492	1804	32	196	5	47	29	6	55	17	360	15	< 2	< 1	< 1	< 1	< 10	< 5	6	5	< 10	35	< 5	< 10
46517	0.30	3.01	4.09	0.66	0.04	22	483	1766	24	262	7	56	28	7	65	23	302	18	< 2	< 1	< 1	< 1	< 10	< 5	6	5	< 10	45	10	< 10
46518	0.19	3.52	3.67	0.67	0.04	11	480	1106	17	253	7	66	30	5	57	16	241	17	< 2	< 1	< 1	< 1	< 10	< 5	5	4	< 10	30	10	< 10
46519	0.31	2.67	2.93	0.59	0.04	119	344	1474	32	253	7	41	26	14	56	52	199	15	< 2	< 1	< 1	< 1	< 10	< 5	4	4	< 10	15	< 5	< 10
46520	0.37	3.11	2.91	0.67	0.07	68	436	1270	31	230	5	42	27	9	88	41	168	17	< 2	< 1	< 1	< 1	< 10	< 5	4	5	< 10	25	< 5	< 10
46521	0.39	3.03	3.17	0.65	0.10	124	411	1228	45	231	6	51	26	15	63	39	220	17	< 2	< 1	< 1	< 1	< 10	< 5	5	6	< 10	20	< 5	< 10
46522	0.43	2.44	3.69	0.49	0.04	69	353	1602	22	269	5	33	29	15	47	38	228	13	< 2	< 1	< 1	< 1	< 10	< 5	4	4	< 10	10	5	< 10
46523	0.34	2.56	3.43	0.51	0.04	28	380	1640	21	259	4	43	30	8	41	32	190	15	< 2	< 1	< 1	< 1	< 10	< 5	4	4	< 10	15	15	< 10
46524	1.24	2.64	2.56	0.62	0.07	188	445	1292	63	128	4	33	16	3	46	56	131	13	< 2	< 1	1	< 1	< 10	< 5	6	6	< 10	5	25	< 10
46525	2.08	2.90	4.32	0.84	<0.01	25	706	120	5	1066	8	44	394	< 1	22	74	95	37	< 2	2	2	< 1	< 10	10	2	14	< 10	35	95	< 10
46526	1.82	3.64	2.12	0.72	0.03	364	649	570	7	415	12	74	161	< 1	118	130	34	24	< 2	2	< 1	< 1	< 10	< 5	5	13	< 10	< 5	35	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

[illegible]bo[illegible]bir[illegible] TSL, [illegible]SSA[illegible]S L[illegible]bra[illegible]ies
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA INC.

2R-2049-RG1

PROJ.:KERR

REPORT No. : T2231
Page No. : 1 of 1
File No. : DE02RA
Date : DEC-09-1992

I.C.A.P. WHOLE ROCK ANALYSIS

Lithium MetaBorate Fusion

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Ba	Sr	Zr	Y	Sc	LOI	TOTAL
61872	18.44	5.09	17.84	24.08	7.16	1.01	1.34	0.23	1.18	0.02	430	110	40	18	17	21.84	98.23
62018	55.75	2.16	4.68	11.07	8.03	0.14	0.12	0.12	0.16	0.02	50	129	15	< 2	9	15.67	97.92
62027	24.37	5.07	9.51	16.64	17.88	0.10	0.04	0.28	0.23	0.02	22	165	28	4	19	24.59	98.72
62035	33.98	6.13	9.67	11.21	17.96	0.05	0.04	0.31	0.21	0.06	25	94	19	8	20	18.40	98.02
WR-MZ-1	37.45	5.32	14.67	10.22	7.74	0.65	1.18	0.28	0.67	0.04	160	75	27	12	21	19.98	98.19

SIGNED :

..bo...oir.. TS., .SSA...S l...bra....ie.
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS

2R-2083-RG3

REPORT No. : T2241
Page No. : 1 of 1
File No. : DE09RA
Date : DEC-18-1992

I.C.A.P. WHOLE ROCK ANALYSIS

Lithium MetaBorate Fusion

SAMPLE #	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	TiO2 %	MnO %	P2O5 %	Ba ppm	Sr ppm	Zr ppm	Y ppm	Sc ppm	LOI %	TOTAL %
21 HW	37.20	5.23	8.28	16.36	7.03	0.30	1.16	0.29	0.33	0.42	164	75	25	8	20	23.19	99.79
21 FW	46.07	12.23	11.59	7.45	3.81	3.24	0.94	1.78	0.31	0.16	130	67	102	40	47	12.21	99.80
21 OR	52.85	10.74	9.51	5.36	2.54	3.81	0.94	1.45	0.18	0.30	153	64	85	26	36	10.41	98.10

SIGNED : [signature]

TSL/92

CYPRUS CANADA INC

2R-2082,83-RG1-3

PROJ.:KERR

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

REPORT No. : **T2241**

File No. : DE17MA
Date : DEC-24-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46661	3.83	7.98	5.18	1.07	0.04	99	1560	458	29	55	21	92	53	3	271	332	75	37	< 2	< 1	3	< 1	< 10	< 5	5	28	< 10	20	< 5	< 10
46662	2.22	7.76	4.71	1.12	0.05	51	2100	418	11	64	16	74	41	2	277	187	52	34	< 2	< 1	< 1	< 1	< 10	< 5	5	17	< 10	8445	< 5	< 10
46663	1.30	5.93	5.02	1.16	0.05	64	1811	434	12	119	10	62	36	2	198	100	53	32	< 2	< 1	< 1	< 1	< 10	< 5	6	10	< 10	3205	20	< 10
46664	0.30	5.76	4.92	1.10	0.04	21	1707	356	10	243	5	62	40	1	172	29	58	38	< 2	< 1	< 1	< 1	< 10	5	5	6	< 10	>9999	< 5	< 10
46665	0.87	6.07	5.07	1.11	0.04	16	2312	418	9	83	8	37	25	2	174	62	50	24	< 2	< 1	< 1	< 1	< 10	5	5	8	< 10	8875	< 5	< 10
46666	0.66	7.91	5.46	1.13	0.03	19	2799	414	9	244	8	50	37	3	152	55	53	33	< 2	< 1	< 1	< 1	< 10	10	5	8	< 10	>9999	< 5	< 10
46667	2.10	7.82	4.99	1.12	0.04	39	2570	510	10	80	14	42	35	3	180	121	41	30	< 2	< 1	< 1	< 1	< 10	5	6	15	< 10	1360	< 5	< 10
46668	0.28	7.38	5.35	1.07	0.04	10	2626	476	9	130	4	75	33	2	165	22	48	29	< 2	< 1	< 1	< 1	< 10	5	5	6	< 10	>9999	< 5	< 10
46669	1.09	5.79	5.62	1.24	0.04	20	1788	328	7	72	7	114	52	2	174	87	52	31	< 2	< 1	< 1	< 1	< 10	< 5	4	8	< 10	1355	< 5	< 10
46670	1.61	6.49	4.91	1.26	0.05	53	1746	352	8	98	10	95	70	7	196	123	48	41	< 2	< 1	< 1	< 1	< 10	5	4	10	< 10	1695	< 5	< 10
46671	0.66	6.44	5.57	1.23	0.03	13	1713	394	12	76	7	89	64	4	116	45	61	39	< 2	< 1	< 1	< 1	< 10	10	5	7	< 10	>9999	< 5	< 10
46672	0.53	7.58	4.48	1.13	0.04	22	1699	316	12	192	5	134	58	6	653	31	50	44	< 2	< 1	< 1	< 1	< 10	10	4	5	< 10	>9999	< 5	< 10
46673	0.34	3.74	3.46	0.83	0.05	9	1802	252	14	259	4	33	71	2	192	14	37	23	< 2	< 1	< 1	< 1	< 10	< 5	3	2	< 10	1640	10	< 10
46674	1.48	10.77	6.71	1.48	0.02	26	4802	28	10	1241	7	88	930	6	172	52	85	118	< 2	< 1	< 1	< 1	< 10	15	4	8	< 10	>9999	5	< 10
46438	4.40	10.48	5.04	1.51	0.05	370	1254	402	12	48	30	110	45	13	194	373	232	45	< 2	< 1	4	< 1	< 10	< 5	5	37	< 10	185	< 5	< 10
46439	3.02	7.56	7.36	1.54	0.05	194	1410	1080	3	81	24	65	49	11	152	299	249	42	< 2	< 1	< 1	< 1	< 10	10	9	28	< 10	85	< 5	< 10
46440	4.41	10.52	4.30	1.53	0.03	276	1161	438	2	23	27	91	33	13	343	354	145	41	< 2	< 1	2	< 1	< 10	10	5	34	< 10	45	< 5	< 10
46441	3.43	8.73	6.66	1.45	0.04	225	1728	306	6	49	25	95	45	12	152	337	177	44	< 2	< 1	< 1	< 1	< 10	10	17	34	< 10	30	< 5	< 10
46442	5.20	12.72	5.17	1.55	0.02	232	2256	310	3	28	29	86	36	19	196	330	86	37	< 2	1	< 1	< 1	< 10	< 5	7	32	< 10	< 5	< 5	< 10
46443	3.09	8.19	4.21	1.22	0.05	150	1317	436	6	97	19	105	72	9	162	317	49	53	< 2	< 1	2	< 1	< 10	< 5	7	26	< 10	110	< 5	< 10
46459	3.59	8.82	3.77	1.47	0.06	641	1375	410	8	36	23	122	53	13	291	346	69	44	< 2	< 1	3	< 1	< 10	< 5	9	31	< 10	< 5	< 5	< 10
46460	3.87	10.61	4.03	1.46	0.09	2465	1442	354	18	54	25	111	31	15	168	332	62	40	< 2	< 1	< 1	< 1	< 10	10	12	32	< 10	< 5	< 5	< 10
46461	3.26	11.30	4.03	1.17	0.03	359	2683	364	14	48	8	186	101	40	1808	67	25	41	< 2	< 1	1	< 1	< 10	15	6	7	< 10	< 5	< 5	< 10
46462	3.07	9.90	9.35	1.60	0.18	158	3701	46	103	2326	13	64	977	2	144	117	65	135	< 2	< 1	< 1	< 1	< 10	10	4	20	< 10	20	15	< 10
46477	1.31	6.44	11.61	1.13	0.15	355	4735	< 2	343	949	7	23	376	< 1	46	48	132	36	< 2	1	< 1	< 1	< 10	< 5	12	7	< 10	20	10	< 10
46478	0.48	1.63	5.73	1.54	0.04	34	849	26	11	409	< 1	18	414	< 1	52	17	45	28	< 2	< 1	< 1	< 1	< 10	< 5	3	4	< 10	5	25	< 10
46479	2.04	3.41	10.33	1.84	0.10	47	992	32	21	1588	< 1	46	654	< 1	82	55	86	47	< 2	< 1	< 1	< 1	< 10	10	6	3	< 10	< 5	105	< 10
46480	0.63	1.34	12.69	1.09	0.04	31	1000	20	14	472	2	25	191	< 1	29	23	97	17	< 2	< 1	< 1	< 1	< 10	< 5	5	5	< 10	10	35	< 10
46481	1.55	2.85	8.54	1.67	0.05	58	880	34	19	1183	5	57	368	2	43	52	71	35	< 2	< 1	< 1	< 1	< 10	< 5	4	9	< 10	< 5	80	< 10
46482	0.88	3.37	11.32	0.86	0.12	344	3908	< 2	171	700	4	89	255	< 1	34	35	139	27	< 2	< 1	< 1	< 1	< 10	5	13	6	< 10	5	75	< 10
46483	1.58	4.08	12.26	1.29	0.09	616	2547	6	97	957	5	44	340	< 1	46	54	125	34	< 2	< 1	< 1	< 1	< 10	10	9	6	< 10	< 5	75	< 10
46484	0.91	1.77	12.20	1.15	0.03	226	1617	6	20	586	< 1	29	267	< 1	30	25	123	24	< 2	< 1	< 1	< 1	< 10	< 5	6	2	< 10	5	50	< 10
46485	1.22	2.08	8.78	1.50	0.06	136	716	32	14	797	< 1	39	334	3	33	27	56	23	< 2	< 1	< 1	< 1	< 10	< 5	4	< 1	< 10	< 5	55	< 10
46486	0.85	2.69	11.66	1.00	0.11	350	2566	< 2	122	778	3	32	354	< 1	30	40	156	31	< 2	< 1	< 1	< 1	< 10	< 5	10	5	< 10	< 5	70	< 10
46487	0.71	1.42	7.56	1.20	0.08	21	681	32	14	519	< 1	31	306	< 1	24	24	55	23	< 2	< 1	< 1	< 1	< 10	< 5	5	2	< 10	< 5	30	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : [signature]

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA INC

2R-2082,83-RG1-3

PROJ.:KERR

REPORT No. : T2241

File No. : DE17MA
Date : DEC-24-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46488	1.18	2.15	4.67	1.62	0.11	37	511	46	21	1021	1	37	474	< 1	31	39	44	39	< 2	< 1	< 1	< 1	< 10	5	4	3	< 10	< 5	70	< 10
46489	0.63	1.34	4.56	1.22	0.07	11	400	44	17	543	< 1	30	321	1	24	24	54	25	< 2	< 1	< 1	< 1	< 10	< 5	3	4	< 10	< 5	35	< 10
46490	1.10	1.82	7.96	1.44	0.05	70	678	46	10	791	< 1	44	392	2	32	27	71	30	< 2	< 1	< 1	< 1	< 10	< 5	3	1	< 10	< 5	55	< 10
46491	0.89	1.64	12.14	1.11	0.03	59	1583	16	13	626	1	48	341	< 1	27	26	192	30	< 2	< 1	< 1	< 1	< 10	< 5	6	3	< 10	< 5	60	< 10
46492	1.18	2.17	12.42	1.21	0.05	366	1492	24	24	838	< 1	43	403	< 1	34	39	140	34	< 2	< 1	< 1	< 1	< 10	5	6	2	< 10	< 5	70	< 10
46493	0.49	1.55	12.03	0.79	0.14	148	1635	8	65	635	< 1	50	403	< 1	26	25	132	38	< 2	< 1	< 1	< 1	< 10	< 5	6	2	< 10	10	55	< 10
46494	0.48	1.19	12.45	0.70	0.11	82	1282	40	22	650	< 1	52	426	< 1	30	21	93	40	< 2	< 1	< 1	< 1	< 10	< 5	5	1	< 10	15	55	< 10
46495	1.08	2.76	8.77	1.07	0.04	116	1238	216	5	412	5	67	493	7	108	47	54	51	< 2	< 1	< 1	< 1	< 10	< 5	4	6	< 10	70	30	< 10
46496	0.98	3.61	3.26	0.86	0.07	64	605	358	4	329	7	82	255	11	202	75	30	40	< 2	< 1	< 1	< 1	< 10	< 5	4	7	< 10	30	25	< 10
46497	1.29	4.60	4.24	1.04	0.04	76	680	478	6	111	12	99	73	4	228	187	49	39	< 2	< 1	< 1	< 1	< 10	< 5	7	16	< 10	15	< 5	< 10
46498	1.58	5.50	6.70	1.11	0.06	177	1482	330	9	239	11	155	142	6	258	144	67	41	< 2	< 1	< 1	< 1	< 10	< 5	5	15	< 10	15	20	< 10
46499	1.60	3.69	7.68	1.17	0.04	51	1319	82	7	937	10	78	426	3	66	74	64	55	< 2	< 1	< 1	< 1	< 10	< 5	6	13	< 10	10	65	< 10
46500	0.97	2.03	12.21	1.05	0.03	66	1836	20	6	786	5	47	555	< 1	41	38	193	50	< 2	< 1	< 1	< 1	< 10	< 5	5	8	< 10	10	60	< 10
46501	1.29	3.58	5.87	0.89	0.05	109	1271	118	45	406	5	75	444	5	59	51	78	65	< 2	< 1	< 1	< 1	< 10	< 5	2	8	< 10	< 5	20	< 10
46502	1.35	1.93	6.45	1.43	0.04	206	676	1224	12	108	3	12	72	11	34	23	197	10	< 2	< 1	< 1	< 1	< 10	5	3	3	< 10	< 5	< 5	< 10
46503	1.09	2.14	5.24	1.16	0.06	217	530	944	11	450	4	36	172	38	41	33	129	28	< 2	< 1	< 1	< 1	< 10	< 5	3	3	< 10	5	30	< 10
46504	0.18	0.65	5.07	0.24	0.04	56	422	156	12	446	1	13	40	31	17	14	132	10	< 2	< 1	< 1	< 1	< 10	< 5	2	2	< 10	< 5	35	< 10
46505	0.70	1.71	7.89	0.84	0.13	188	838	1314	55	140	3	12	29	57	60	30	227	11	< 2	< 1	< 1	< 1	< 10	< 5	5	3	< 10	< 5	10	< 10
46506	0.92	1.58	5.83	1.12	0.08	219	674	1406	26	120	3	8	31	47	33	23	146	8	< 2	< 1	< 1	< 1	< 10	< 5	3	3	< 10	< 5	< 5	< 10
46507	1.21	2.41	5.70	1.04	0.04	119	891	152	5	666	7	68	510	5	41	48	57	54	< 2	< 1	< 1	< 1	< 10	5	2	9	< 10	15	40	< 10
46508	1.31	3.44	4.71	0.85	0.05	90	1049	174	20	187	5	89	299	4	305	51	39	57	< 2	< 1	< 1	< 1	< 10	< 5	2	7	< 10	35	15	< 10
46509	1.36	4.25	5.18	1.00	0.04	70	1299	190	5	473	5	62	320	8	69	36	76	47	< 2	< 1	< 1	< 1	< 10	< 5	4	5	< 10	40	25	< 10
46510	1.00	3.60	4.68	0.78	0.06	331	778	468	6	173	8	113	122	6	201	182	66	53	< 2	< 1	< 1	< 1	< 10	< 5	6	11	< 10	35	5	< 10
46511	1.12	2.52	12.51	1.13	0.02	70	1876	134	3	474	5	48	527	3	48	50	276	53	< 2	< 1	< 1	< 1	< 10	10	5	8	< 10	85	40	< 10
46512	0.94	2.46	5.26	1.01	0.06	103	653	398	7	260	5	86	203	10	232	62	99	32	< 2	< 1	< 1	< 1	< 10	< 5	4	7	< 10	5	15	< 10
46527	0.67	1.72	12.35	0.89	0.16	179	1464	126	72	404	4	32	391	< 1	49	42	285	37	< 2	< 1	< 1	< 1	< 10	< 5	5	6	< 10	10	45	< 10
46528	0.70	1.64	12.18	1.01	0.04	345	1446	20	23	517	5	36	599	< 1	21	32	194	41	< 2	< 1	< 1	< 1	< 10	< 5	6	8	< 10	5	55	< 10
46529	0.48	1.08	12.80	0.78	0.04	387	1031	26	32	331	3	22	164	< 1	14	23	166	14	< 2	< 1	< 1	< 1	< 10	< 5	4	6	< 10	< 5	25	< 10
46530	0.58	1.39	12.39	0.84	0.10	74	1435	34	35	490	3	55	433	< 1	22	22	155	35	< 2	< 1	< 1	< 1	< 10	5	4	5	< 10	5	45	< 10
46531	0.57	1.95	11.81	0.81	0.03	16	2367	8	3	466	3	23	432	< 1	16	21	218	41	< 2	< 1	< 1	< 1	< 10	< 5	6	6	< 10	25	50	< 10
46532	0.77	2.15	12.15	0.82	0.05	23	2640	26	12	653	4	40	441	< 1	22	29	165	50	< 2	< 1	< 1	< 1	< 10	< 5	7	7	< 10	60	55	< 10
46533	0.78	4.41	5.62	1.50	0.46	37	2237	46	189	1038	5	43	878	< 1	33	33	60	86	< 2	< 1	< 1	< 1	< 10	< 5	3	6	< 10	15	75	< 10
46534	0.24	1.11	11.48	0.58	0.07	< 1	2753	< 2	16	427	2	22	251	< 1	14	9	144	18	< 2	< 1	< 1	< 1	< 10	< 5	7	4	< 10	< 5	40	< 10
46535	0.15	1.01	12.31	0.87	0.03	< 1	1759	< 2	2	283	1	19	173	< 1	10	6	125	12	< 2	< 1	< 1	< 1	< 10	< 5	4	4	< 10	< 5	30	< 10
21 HW	0.10	4.62	11.76	1.73	0.03	< 1	1811	1432	3	250	7	116	492	< 1	22	6	48	60	< 2	< 1	8	< 1	< 10	10	4	6	< 10	495	30	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : [signature]

?? ?082,?? ??1-3

I.???.P. PLA? SC

Aqua-Regia Digestion

File No. : ???

Date : ?EC-24-1992

PROJ.:KERR

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
21 FW	0.87	5.42	5.57	1.22	0.04	14	1749	454	6	55	10	55	76	4	62	71	32	43	< 2	< 1	< 1	< 1	< 10	< 5	5	10	< 10	90	< 5	< 10
21 OR	0.32	6.24	4.26	1.10	0.05	17	1116	1018	5	217	9	88	116	2	50	36	36	52	< 2	< 1	2	< 1	< 10	< 5	4	8	< 10	150	< 5	10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : W Paene

TSL/92

Laboratoires TSL, ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-1519&1626,27,28,1837
ATTN:DAVID B.STEVENSON

REPORT No. : T2216

File No. : DE11RA
Date : DEC-18-1992

I.C.A.P. WHOLE ROCK ANALYSIS

Lithium MetaBorate Fusion

SAMPLE #	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	TiO2 %	MnO %	P2O5 %	Ba ppm	Sr ppm	Zr ppm	Y ppm	Sc ppm	LOI %	TOTAL %
62135	37.83	6.14	9.21	14.30	9.82	1.41	0.58	0.31	0.37	0.04	151	76	25	6	22	19.79	99.80
62142	30.57	4.91	7.15	18.42	11.76	0.53	0.86	0.25	0.31	0.04	160	175	27	2	20	25.24	100.01
62292	31.25	4.27	19.44	12.43	6.22	0.90	0.62	0.22	0.86	0.02	188	105	28	12	17	23.81	100.05
62293	26.99	4.60	9.38	19.73	12.85	0.54	0.36	0.21	0.41	0.02	128	128	30	6	20	25.77	100.87
46037	31.42	5.93	19.34	10.83	5.91	0.42	1.90	0.34	0.84	0.04	621	102	27	10	21	23.60	100.57
46043	40.44	8.05	14.90	8.91	5.59	1.29	1.82	0.45	0.43	0.04	609	112	25	8	28	18.80	100.72
46172	38.24	6.07	20.48	10.79	6.84	0.19	0.14	0.34	0.88	0.04	70	115	36	14	25	16.46	100.47
46177	44.62	12.27	11.86	8.73	4.59	2.63	1.34	1.53	0.29	0.14	200	143	85	28	44	12.87	100.87
46202	32.42	4.62	8.31	9.39	15.68	0.38	0.90	0.26	0.16	0.06	114	79	17	4	18	26.56	98.73

SIGNED : [signature]

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-2068-RG1,2
PROJ.:KERR MINE

REPORT No. : T2219

File No. : DE16MA
Date : DEC-18-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46463	0.36	1.21	10.20	0.57	0.02	9	1173	56	3	301	3	65	130	3	12	16	114	10	< 2	< 1	< 1	< 1	< 10	< 5	3	7	< 10	< 5	25	< 10
46464	0.28	2.16	8.03	1.03	<0.01	1	947	64	1	290	5	72	524	< 1	14	5	53	42	< 2	< 1	1	< 1	< 10	15	4	10	< 10	75	25	< 10
46465	0.63	3.88	14.85	1.10	<0.01	17	1963	44	< 1	658	12	60	609	< 1	27	39	77	57	< 2	< 1	4	< 1	< 10	10	7	17	< 10	315	70	< 10
46466	0.80	4.65	10.90	1.12	<0.01	11	1823	62	1	881	13	96	490	< 1	28	39	53	54	< 2	< 1	1	< 1	< 10	15	6	18	< 10	110	80	< 10
46467	1.01	7.01	9.17	0.99	<0.01	26	3382	64	2	1166	20	96	632	< 1	33	69	45	75	< 2	< 1	9	< 1	< 10	5	4	20	< 10	720	125	< 10
46468	0.43	5.51	9.56	1.17	<0.01	5	2087	42	3	405	10	66	530	< 1	25	6	67	51	< 2	< 1	5	< 1	< 10	15	5	14	< 10	510	50	< 10
46469	0.64	6.15	10.19	1.12	<0.01	10	2596	76	5	703	13	84	601	< 1	28	21	63	65	< 2	< 1	10	< 1	< 10	15	5	15	< 10	890	75	< 10
46470	0.47	5.35	10.72	1.14	<0.01	5	2054	72	3	564	12	67	591	< 1	23	19	59	55	< 2	< 1	6	< 1	< 10	15	5	16	< 10	525	55	< 10
46471	0.60	4.87	10.30	1.23	<0.01	5	1543	66	3	492	10	75	574	< 1	25	10	65	55	< 2	< 1	6	< 1	< 10	25	5	17	< 10	650	50	< 10
46472	0.33	6.85	12.72	1.05	<0.01	9	3241	56	11	541	15	106	596	< 1	22	19	68	56	< 2	1	15	< 1	< 10	10	5	16	< 10	1320	75	< 10
46473	0.66	3.59	12.17	1.12	<0.01	26	1538	44	6	537	9	60	477	< 1	18	25	71	54	< 2	< 1	5	< 1	< 10	15	5	16	< 10	500	45	< 10
46474	0.67	4.68	13.56	0.74	0.15	79	2952	30	131	665	10	120	552	< 1	19	48	81	50	< 2	< 1	2	< 1	< 10	5	6	13	< 10	170	70	< 10
46475	0.62	2.00	8.93	0.84	0.04	97	1199	38	25	513	5	63	336	< 1	12	32	58	57	< 2	< 1	2	< 1	< 10	15	4	12	< 10	250	40	< 10
46476	0.63	1.57	10.32	0.73	0.02	36	1006	24	19	405	3	46	151	< 1	9	26	80	13	< 2	< 1	< 1	< 1	< 10	< 5	5	8	< 10	25	25	< 10
46563	0.38	3.93	6.79	1.29	<0.01	5	1052	56	3	355	8	46	590	< 1	17	3	75	47	< 2	< 1	< 1	< 1	< 10	15	4	13	< 10	50	35	< 10
46564	0.37	4.25	5.45	1.31	<0.01	4	865	70	2	374	8	65	537	< 1	17	< 1	61	56	< 2	< 1	1	< 1	< 10	15	3	16	< 10	115	30	< 10
46565	0.41	4.49	5.12	1.34	<0.01	4	966	60	2	404	8	58	727	< 1	19	1	54	57	< 2	< 1	3	< 1	< 10	20	3	14	< 10	255	40	< 10
46566	0.38	4.02	5.03	1.31	<0.01	3	760	50	2	388	8	65	676	< 1	17	3	55	63	< 2	< 1	6	< 1	< 10	20	3	14	< 10	615	25	< 10
46567	0.33	4.48	5.68	1.36	<0.01	2	915	36	3	358	8	39	719	< 1	21	< 1	64	56	< 2	< 1	6	< 1	< 10	30	4	13	< 10	560	25	< 10
46568	0.35	4.48	2.16	1.37	<0.01	4	644	40	2	357	7	30	793	< 1	22	< 1	26	68	< 2	< 1	6	< 1	< 10	40	3	15	< 10	770	10	< 10
46569	0.24	5.00	3.48	1.42	<0.01	4	793	30	4	338	7	29	1035	< 1	31	< 1	44	67	< 2	< 1	14	< 1	< 10	50	3	13	< 10	1230	20	< 10
46570	0.08	4.18	4.05	1.36	<0.01	< 1	693	22	5	261	6	26	788	< 1	21	< 1	53	49	< 2	< 1	11	< 1	< 10	45	3	10	< 10	1120	15	< 10
46571	0.33	5.02	3.98	1.44	<0.01	4	793	20	8	392	8	13	1081	< 1	28	< 1	51	60	< 2	< 1	16	< 1	< 10	50	3	14	< 10	1340	25	< 10
46572	0.32	3.91	3.47	1.35	<0.01	2	713	52	< 1	349	6	46	800	< 1	17	< 1	42	58	< 2	< 1	5	< 1	< 10	35	2	13	< 10	490	25	< 10
46573	0.37	4.12	3.64	1.34	<0.01	3	731	48	< 1	360	9	44	556	< 1	15	< 1	46	54	< 2	< 1	2	< 1	< 10	20	3	15	< 10	210	25	< 10
46574	0.38	4.03	4.83	1.34	<0.01	3	839	84	< 1	349	7	50	675	< 1	16	< 1	65	54	< 2	< 1	< 1	< 1	< 10	15	3	14	< 10	100	25	< 10
46575	0.44	4.44	3.98	1.37	<0.01	3	772	40	1	402	8	44	771	< 1	19	2	55	55	< 2	< 1	< 1	< 1	< 10	25	3	15	< 10	155	25	< 10
46576	0.30	3.70	4.45	1.31	<0.01	3	780	48	< 1	300	7	42	779	< 1	14	< 1	58	53	< 2	< 1	< 1	< 1	< 10	15	3	13	< 10	75	20	< 10
46577	0.47	4.21	4.28	1.34	<0.01	4	915	58	< 1	405	7	45	637	< 1	17	2	58	52	< 2	< 1	< 1	< 1	< 10	15	3	15	< 10	85	30	< 10
46578	0.33	3.78	2.30	1.34	<0.01	4	512	42	< 1	369	5	55	1143	< 1	18	2	32	69	< 2	< 1	10	< 1	< 10	40	2	12	< 10	1135	15	< 10
46579	0.25	4.22	4.59	1.34	<0.01	2	819	60	3	352	6	40	717	< 1	21	< 1	60	50	< 2	< 1	6	< 1	< 10	25	3	11	< 10	730	15	< 10
46580	0.32	4.21	4.04	1.34	<0.01	2	679	44	2	374	6	56	1012	< 1	20	< 1	47	70	< 2	< 1	11	< 1	< 10	35	2	12	< 10	1140	15	< 10
46581	0.59	4.41	6.76	1.31	<0.01	3	1242	64	< 1	476	9	74	803	< 1	40	6	67	55	< 2	< 1	7	< 1	< 10	30	3	15	< 10	790	35	< 10
46582	0.23	4.51	2.52	0.76	0.03	10	515	574	4	265	8	438	176	51	2402	9	34	36	< 2	< 1	8	< 1	< 10	< 5	4	6	50	125	15	< 10
46583	0.19	4.83	2.48	0.89	0.04	10	1036	242	13	206	14	70	133	3	1368	9	41	22	< 2	< 1	5	< 1	< 10	< 5	4	5	< 10	110	< 5	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : [signature]

Laboratoires TSL/ASSAYERS Laboratories

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA

2R-2068-RG1,2
PROJ.:KERR MINE

REPORT No. : T2219

File No. : DE16MA
Date : DEC-18-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm
46584	0.08	7.59	5.28	0.90	0.01	18	1923	520	8	195	15	207	112	< 1	417
46585	0.14	8.17	2.94	0.94	0.02	15	1842	420	16	136	15	151	85	2	147
46586	0.54	8.40	3.76	1.02	0.02	19	1692	256	23	168	15	138	93	3	361
46587	0.48	4.58	4.91	1.33	<0.01	5	979	70	< 1	390	7	51	794	< 1	80

SAMPLE #	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46584	6	67	41	< 2	< 1	2	< 1	< 10	< 5	4	16	< 10	105	35	< 10
46585	25	44	47	< 2	< 1	2	< 1	< 10	< 5	3	16	< 10	175	35	< 10
46586	36	51	45	< 2	< 1	2	< 1	< 10	< 5	3	16	< 10	260	25	< 10
46587	5	50	59	< 2	< 1	6	< 1	< 10	25	3	13	< 10	610	25	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : [signature]

bo ir TSI, SSA S I ra ies
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA INC.

2R-2105-RG1-5

File No. : DE17MA
Date : JAN-12-1993

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al	Fe	Ca	Mg	Na	Ti	Mn	P	Ba	Cr	Zr	Cu	Ni	Pb	Zn	V	Sr	Co	Mo	Ag	Cd	Be	B	Sb	Y	Sc	W	As	Bi	Sn
	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
46536	2.66	6.65	6.20	1.78	0.16	113	1986	92	133	1834	13	86	820	7	55	104	63	86	< 2	< 1	< 1	< 1	< 10	20	4	16	< 10	35	10	< 10
46537	2.47	6.05	3.43	1.61	0.07	686	696	338	49	125	17	81	79	14	83	263	48	45	< 2	< 1	< 1	< 1	< 10	10	5	23	< 10	5	< 5	< 10
46538	1.34	3.58	2.94	1.14	0.09	494	658	300	65	302	14	54	47	9	53	212	57	36	< 2	< 1	< 1	< 1	< 10	< 5	4	20	< 10	30	15	< 10
46539	2.59	6.31	4.98	1.49	0.04	382	1288	356	6	62	18	63	44	14	82	289	55	35	< 2	< 1	< 1	< 1	< 10	10	5	24	< 10	10	< 5	< 10
46540	2.35	5.98	4.11	1.22	0.06	179	1478	260	11	121	12	75	150	11	87	161	27	44	< 2	< 1	< 1	< 1	< 10	10	4	15	< 10	5	< 5	< 10
46541	1.44	2.80	12.06	1.23	0.02	27	2455	< 2	< 1	987	7	31	403	2	27	53	66	42	< 2	< 1	< 1	< 1	< 10	< 5	6	10	< 10	10	90	< 10
46542	0.92	1.99	11.88	1.10	0.02	11	2508	< 2	< 1	680	5	25	345	< 1	18	34	112	41	< 2	< 1	< 1	< 1	< 10	< 5	6	8	< 10	40	60	< 10
46543	0.57	1.39	12.54	0.85	0.05	52	1534	8	8	471	2	22	330	< 1	12	21	99	25	< 2	< 1	< 1	< 1	< 10	5	3	5	< 10	< 5	40	< 10
46544	1.24	2.42	12.62	1.45	0.10	311	1510	32	42	741	6	35	376	2	26	52	75	35	< 2	< 1	< 1	< 1	< 10	< 5	4	9	< 10	< 5	65	< 10
46545	1.22	2.39	12.82	1.43	0.07	248	1344	28	22	781	3	39	362	2	24	54	56	33	< 2	< 1	< 1	< 1	< 10	< 5	4	6	< 10	< 5	55	< 10
46546	0.97	2.16	12.12	1.17	0.08	193	2085	28	52	736	5	34	447	< 1	27	48	76	49	< 2	< 1	< 1	< 1	< 10	10	5	8	< 10	< 5	60	< 10
46547	1.26	2.81	12.38	1.43	0.08	261	1931	40	54	790	7	45	470	2	36	68	73	49	< 2	< 1	< 1	< 1	< 10	< 5	5	10	< 10	< 5	65	< 10
46548	1.17	2.67	12.85	1.19	0.05	78	1666	80	10	298	9	45	336	3	30	65	60	39	< 2	< 1	< 1	< 1	< 10	< 5	4	13	< 10	< 5	20	< 10
46549	0.97	2.39	12.18	1.29	0.08	128	1988	32	60	547	8	38	376	< 1	27	56	101	39	< 2	< 1	< 1	< 1	< 10	10	6	12	< 10	< 5	45	< 10
46550	0.77	3.16	12.10	1.62	0.12	97	2119	8	129	976	8	35	510	< 1	33	56	104	51	< 2	< 1	< 1	< 1	< 10	< 5	7	11	< 10	15	85	< 10
46551	1.48	5.96	12.68	1.96	0.13	126	2452	62	150	1538	12	46	740	1	53	81	78	71	< 2	< 1	< 1	< 1	< 10	10	6	15	< 10	25	100	< 10
46552	0.99	3.15	6.69	1.96	0.03	14	1164	24	7	842	6	37	625	1	18	33	56	46	< 2	< 1	< 1	< 1	< 10	10	3	9	< 10	< 5	50	< 10
46553	0.97	4.35	12.86	2.01	0.03	15	1588	18	4	927	8	31	562	< 1	32	41	102	47	< 2	< 1	< 1	< 1	< 10	10	5	12	< 10	< 5	60	< 10
46554	1.03	3.23	7.82	2.00	0.03	10	1172	58	4	796	6	40	346	3	16	35	83	33	< 2	< 1	< 1	< 1	< 10	15	3	10	< 10	20	50	< 10
46555	1.26	3.21	6.93	2.04	0.03	13	887	40	6	998	7	54	366	5	19	44	84	36	< 2	< 1	< 1	< 1	< 10	15	3	11	< 10	20	65	< 10
46556	1.66	3.78	5.72	2.06	0.03	28	962	44	3	1256	9	43	401	7	23	65	52	36	< 2	< 1	< 1	< 1	< 10	15	3	13	< 10	< 5	85	< 10
46557	0.84	5.41	12.79	1.93	0.03	16	1812	16	6	991	8	45	780	< 1	28	44	84	68	< 2	< 1	< 1	< 1	< 10	5	5	12	< 10	60	65	< 10
46558	0.82	4.99	12.76	1.92	0.03	24	1672	22	6	871	9	26	786	< 1	26	38	107	64	< 2	< 1	< 1	< 1	< 10	10	4	11	< 10	25	65	< 10
46559	0.93	4.29	6.63	2.14	0.03	11	1017	24	2	762	9	45	495	1	22	30	55	52	< 2	< 1	< 1	< 1	< 10	10	3	13	< 10	35	55	< 10
46560	0.86	4.25	4.79	2.16	0.03	7	891	36	2	690	8	28	386	< 1	17	23	39	46	< 2	< 1	< 1	< 1	< 10	10	2	11	< 10	40	40	< 10
46561	1.04	4.51	5.00	2.20	0.03	9	979	44	4	836	9	47	423	3	20	27	40	47	< 2	< 1	< 1	< 1	< 10	15	3	13	< 10	30	50	< 10
46562	0.72	4.47	4.17	2.23	0.03	6	981	22	2	645	7	44	542	< 1	18	18	37	57	< 2	< 1	< 1	< 1	< 10	10	2	12	< 10	40	30	< 10
46588	0.80	4.23	5.01	2.24	0.02	6	795	24	< 1	688	7	33	690	< 1	22	20	43	66	< 2	< 1	5	< 1	< 10	15	2	10	< 10	350	30	< 10
46589	1.03	4.48	3.47	2.23	0.02	9	712	40	< 1	850	7	42	694	3	23	30	31	73	< 2	< 1	3	< 1	< 10	15	2	12	< 10	240	45	< 10
46590	0.77	3.19	8.80	2.00	0.03	6	1172	40	< 1	600	6	38	505	1	16	23	76	56	< 2	< 1	2	< 1	< 10	10	3	10	< 10	145	40	< 10
46591	1.42	3.08	3.92	1.99	0.03	16	715	38	< 1	1102	6	38	730	5	19	49	35	57	< 2	< 1	< 1	< 1	< 10	10	2	11	< 10	50	70	< 10
46592	1.34	3.24	6.15	1.98	0.03	16	916	50	< 1	952	7	40	385	5	20	43	49	49	< 2	< 1	< 1	< 1	< 10	10	3	12	< 10	45	50	< 10
46593	0.93	2.84	11.76	1.59	0.10	25	2032	< 2	72	985	7	28	451	< 1	27	52	148	44	< 2	< 1	< 1	< 1	< 10	< 5	6	10	< 10	10	80	< 10
46594	1.73	3.41	5.45	2.01	0.03	17	876	68	1	1114	8	53	410	7	21	55	74	44	< 2	< 1	< 1	< 1	< 10	15	3	13	< 10	20	75	< 10
46595	1.51	3.15	6.37	2.06	0.03	11	975	28	2	1182	7	35	659	4	20	45	107	73	< 2	< 1	2	< 1	< 10	15	3	11	< 10	180	70	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

TSL/93

bo oir TSI, SSA S I ra ies
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA INC.

2R-2105-RG1-5

REPORT No. : T2255

File No. : DE17MA
Date : JAN-12-1993

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al	Fe	Ca	Mg	Na	Ti	Mn	P	Ba	Cr	Zr	Cu	Ni	Pb	Zn	V	Sr	Co	Mo	Ag	Cd	Be	B	Sb	Y	Sc	W	As	Bi	Sn
	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
46596	1.84	3.76	1.93	1.49	0.06	25	466	450	12	265	9	47	112	20	71	57	87	26	< 2	< 1	< 1	< 1	< 10	< 5	4	6	< 10	25	< 5	< 10
46597	2.42	4.56	0.98	1.44	0.06	28	454	564	44	158	8	49	128	29	83	31	42	31	< 2	< 1	< 1	< 1	< 10	< 5	4	3	< 10	< 5	< 5	< 10
46598	2.07	4.18	1.68	1.25	0.05	22	471	596	28	142	6	55	118	33	83	27	67	27	< 2	< 1	< 1	< 1	< 10	10	3	2	< 10	10	< 5	< 10
46599	2.30	4.06	3.38	1.60	0.06	37	635	476	37	420	8	49	232	31	76	49	90	35	< 2	< 1	< 1	< 1	< 10	5	3	5	< 10	15	20	< 10
46600	2.76	7.84	6.57	1.59	0.03	31	1355	310	21	525	8	181	334	41	781	100	197	51	< 2	< 1	3	< 1	< 10	< 5	4	9	< 10	20	< 5	< 10
46601	3.52	8.65	5.73	1.61	0.03	158	1389	586	13	106	17	82	49	24	129	260	226	37	< 2	< 1	< 1	< 1	< 10	5	7	23	< 10	< 5	< 5	< 10
46602	2.96	7.65	5.13	1.51	0.04	228	1158	556	6	76	18	77	51	25	96	299	228	41	< 2	< 1	< 1	< 1	< 10	< 5	5	26	< 10	< 5	< 5	< 10
46603	3.15	8.48	5.42	1.50	0.04	265	1331	352	3	42	19	77	48	19	90	299	232	40	< 2	< 1	< 1	< 1	< 10	10	5	26	< 10	< 5	< 5	< 10
46604	3.44	8.96	5.18	1.55	0.04	257	1231	368	3	49	21	82	42	23	96	314	204	37	< 2	< 1	1	< 1	< 10	< 5	4	27	< 10	< 5	< 5	< 10
46605	3.42	9.57	5.60	1.49	0.03	133	1385	380	4	24	15	100	40	22	92	268	193	41	< 2	< 1	< 1	< 1	< 10	5	5	24	< 10	20	< 5	< 10
46606	1.27	4.82	3.39	0.84	0.04	17	771	482	19	165	5	103	124	34	335	42	99	33	< 2	< 1	1	< 1	< 10	< 5	4	3	< 10	70	< 5	< 10
46607	3.59	10.60	4.76	1.62	0.03	49	1574	430	8	27	10	74	35	29	116	187	159	38	< 2	< 1	2	< 1	< 10	5	5	13	< 10	< 5	< 5	< 10
46608	1.04	3.02	3.16	0.78	0.04	11	596	476	19	179	4	66	111	36	212	20	103	26	< 2	< 1	< 1	< 1	< 10	< 5	3	2	< 10	50	< 5	< 10
46609	1.32	3.40	4.59	1.03	0.04	26	802	434	14	256	3	53	215	21	224	19	140	31	< 2	< 1	< 1	< 1	< 10	10	3	1	< 10	70	< 5	< 10
46610	2.38	6.10	4.37	1.27	0.05	570	1135	402	5	47	13	95	192	20	144	260	57	41	< 2	< 1	< 1	< 1	< 10	< 5	7	19	< 10	10	< 5	< 10
46611	2.65	6.68	4.78	1.27	0.04	166	1302	384	5	25	13	81	37	18	112	223	60	33	< 2	< 1	< 1	< 1	< 10	< 5	5	18	< 10	< 5	< 5	< 10
46612	2.62	6.40	5.66	1.47	0.04	166	1620	424	6	38	13	78	49	19	101	222	75	35	< 2	< 1	< 1	< 1	< 10	< 5	5	18	< 10	15	< 5	< 10
46613	4.05	11.61	5.60	1.53	0.03	253	2581	298	1	14	20	131	33	26	639	287	99	34	< 2	< 1	1	< 1	< 10	10	5	26	< 10	< 5	< 5	< 10
46614	4.18	13.76	6.41	1.51	0.04	288	2672	274	9	8	19	110	33	39	377	291	97	36	< 2	< 1	< 1	< 1	< 10	10	6	25	< 10	< 5	< 5	< 10
46615	3.20	8.92	4.91	1.44	0.06	498	1610	444	3	47	19	82	84	22	239	354	70	50	< 2	< 1	< 1	< 1	< 10	5	5	30	< 10	< 5	< 5	< 10
46616	1.80	5.26	2.98	1.08	0.06	303	913	530	6	63	12	98	140	16	225	266	41	57	< 2	< 1	< 1	< 1	< 10	5	5	19	< 10	10	< 5	< 10
46617	2.71	6.52	3.80	1.50	0.06	181	902	478	5	37	17	81	68	21	165	319	61	42	< 2	< 1	< 1	< 1	< 10	< 5	5	25	< 10	< 5	< 5	< 10
46618	2.39	6.22	5.10	1.29	0.05	161	1355	444	2	64	17	102	41	19	83	271	99	34	< 2	< 1	< 1	< 1	< 10	5	5	23	< 10	< 5	< 5	< 10
46619	3.00	4.87	7.74	1.77	0.04	60	1434	1946	5	343	8	72	134	32	84	105	183	30	< 2	< 1	< 1	< 1	< 10	10	9	11	< 10	< 5	10	< 10
46620	2.59	6.33	5.48	1.44	0.05	141	1553	526	12	55	10	63	40	19	69	216	89	33	< 2	< 1	< 1	< 1	< 10	< 5	7	15	< 10	< 5	< 5	< 10
46621	0.74	2.25	12.64	0.48	0.03	70	2284	118	5	220	5	41	29	5	32	68	296	15	< 2	< 1	< 1	< 1	< 10	< 5	9	9	< 10	< 5	20	< 10
46622	2.10	4.88	6.16	1.21	0.04	55	1329	290	4	152	9	58	55	17	73	198	107	31	< 2	< 1	< 1	< 1	< 10	< 5	4	12	< 10	< 5	< 5	< 10
46623	2.50	5.84	6.81	1.30	0.04	51	1693	368	10	47	8	104	56	15	87	213	78	35	< 2	< 1	< 1	< 1	< 10	5	5	13	< 10	5	< 5	< 10
46624	2.83	6.72	5.94	1.44	0.05	98	1545	340	10	43	14	100	56	23	110	244	65	36	< 2	< 1	1	< 1	< 10	< 5	4	16	< 10	< 5	< 5	< 10
46625	2.72	6.86	6.24	1.24	0.04	124	1973	418	9	46	13	103	66	21	230	226	68	35	< 2	< 1	< 1	< 1	< 10	10	5	17	< 10	10	< 5	< 10
46626	3.32	9.81	3.93	1.19	0.04	91	2892	218	4	89	2	60	69	25	474	33	38	25	< 2	< 1	2	< 1	< 10	5	4	3	< 10	< 5	< 5	< 10
46627	2.97	7.96	5.23	1.66	0.03	89	2477	90	< 1	2039	10	160	972	17	177	104	53	112	< 2	< 1	< 1	< 1	< 10	15	3	17	< 10	< 5	10	< 10
46628	1.83	6.86	10.87	1.56	0.05	87	4538	18	21	1510	8	65	513	7	48	74	117	59	< 2	< 1	< 1	< 1	< 10	5	5	12	< 10	< 5	10	< 10
46629	2.53	10.67	5.89	1.61	0.29	100	3879	58	272	2110	10	58	799	9	67	110	89	84	< 2	< 1	< 1	< 1	< 10	10	4	15	< 10	10	10	< 10
46630	2.20	6.39	11.16	1.58	0.11	62	2751	262	57	1238	11	125	440	9	49	97	113	69	< 2	< 1	< 1	< 1	< 10	< 5	5	15	< 10	< 5	5	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

TSL/93

bo pir TSI SA S I ra ies
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA INC.

2R-2105-RG1-5

REPORT No. : T2255

File No. : DE17MA
Date : JAN-12-1993

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm
46631	1.88	4.75	12.80	1.54	0.10	61	2639	38	72	1390	9	42	382	8
46632	1.86	4.60	10.24	1.68	0.16	110	1859	82	92	946	12	70	479	7
46633	2.36	4.16	7.60	1.80	0.05	802	872	1492	67	300	15	82	72	20
46634	1.13	2.66	12.88	1.64	0.08	44	1101	74	20	996	5	40	530	6
46635	2.32	5.95	5.78	1.26	0.04	116	1490	444	10	77	12	68	128	16
46636	0.53	6.02	3.62	0.33	0.05	21	909	378	15	172	2	239	172	24
46637	3.53	11.97	6.74	1.54	0.03	66	2322	368	11	26	17	176	64	31
46638	3.38	8.61	5.19	1.51	0.04	150	2005	386	7	26	17	65	45	25
46639	3.15	8.69	5.68	1.47	0.04	100	2084	356	4	21	14	112	48	24
46640	3.76	10.42	4.36	1.52	0.04	220	2022	358	2	28	17	90	39	27
46641	2.34	6.36	5.66	1.21	0.04	178	1797	410	2	27	14	83	46	20
46642	2.05	5.65	4.46	1.19	0.05	177	1338	452	1	20	12	91	41	16
46643	1.98	4.90	5.13	1.22	0.06	192	1380	434	3	34	14	92	45	17
46644	2.33	6.68	4.53	1.27	0.04	196	1450	410	2	31	14	112	38	18
46645	1.36	5.42	6.13	1.00	0.05	98	1615	428	2	50	9	81	52	13
46646	3.08	8.11	4.40	1.56	0.04	236	1448	408	2	21	15	84	44	24
46647	1.28	4.80	8.51	0.88	0.05	77	1773	416	2	46	11	79	49	12
46648	2.00	5.62	4.07	1.25	0.05	188	1022	392	2	30	13	88	47	17
46649	2.63	6.40	4.05	0.70	0.01	112	1475	434	< 1	57	19	83	48	< 1
46650	3.21	6.26	4.80	0.71	0.02	334	1494	296	2	31	26	74	38	< 1
46708	3.92	7.32	4.59	0.70	<0.01	224	2273	336	7	23	25	112	40	< 1

SAMPLE #	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46631	38	85	148	48	< 2	< 1	< 1	< 1	< 10	5	6	13	< 10	< 5	95	< 10
46632	51	115	107	76	< 2	< 1	< 1	< 1	< 10	5	4	18	< 10	5	50	< 10
46633	52	120	115	28	< 2	< 1	< 1	< 1	< 10	5	7	15	< 10	< 5	10	< 10
46634	26	46	172	51	< 2	< 1	< 1	< 1	< 10	5	5	9	< 10	< 5	70	< 10
46635	132	225	44	44	< 2	< 1	1	< 1	< 10	10	4	17	< 10	60	< 5	< 10
46636	1916	25	28	43	< 2	< 1	5	< 1	< 10	< 5	3	2	< 10	20	< 5	10
46637	337	197	56	44	< 2	< 1	1	< 1	< 10	< 5	4	17	< 10	< 5	< 5	< 10
46638	166	256	43	42	< 2	< 1	2	< 1	< 10	10	3	23	< 10	50	< 5	< 10
46639	317	233	43	35	< 2	< 1	< 1	< 1	< 10	10	5	21	< 10	50	< 5	< 10
46640	226	292	35	38	< 2	< 1	< 1	< 1	< 10	15	3	25	< 10	25	< 5	< 10
46641	229	223	54	36	< 2	< 1	1	< 1	< 10	10	3	19	< 10	65	< 5	< 10
46642	152	218	44	45	< 2	< 1	2	< 1	< 10	< 5	3	20	< 10	90	< 5	< 10
46643	167	230	51	46	< 2	< 1	2	< 1	< 10	< 5	4	20	< 10	85	< 5	< 10
46644	151	212	50	42	< 2	< 1	2	< 1	< 10	< 5	3	18	< 10	130	< 5	< 10
46645	133	177	75	42	< 2	< 1	< 1	< 1	< 10	10	3	15	< 10	>9999	< 5	< 10
46646	214	262	54	41	< 2	< 1	7	< 1	< 10	15	4	22	< 10	10	< 5	< 10
46647	155	181	105	41	< 2	< 1	< 1	< 1	< 10	5	5	16	< 10	>9999	< 5	< 10
46648	147	231	52	45	< 2	< 1	6	< 1	< 10	< 5	3	19	< 10	75	< 5	< 10
46649	146	321	85	32	< 2	4	< 1	< 1	< 10	15	6	28	< 10	7625	15	< 10
46650	141	351	81	30	< 2	4	3	< 1	< 10	< 5	6	31	< 10	235	35	< 10
46708	247	307	60	32	< 2	3	2	< 1	< 10	10	4	29	< 10	40	40	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : W Paine

TSL/93

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA INC

2R-2158-RG1,2

PROJ.:KERR

REPORT No. : T2282

File No. : JA08MA
Date : JAN-12-1993

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46651	3.16	6.00	3.82	0.73	0.02	363	1383	402	2	43	30	119	51	< 1	142	402	66	37	< 2	4	2	< 1	< 10	5	4	38	< 10	60	30	< 10
46652	3.10	6.30	3.16	0.73	0.02	294	1264	374	2	49	25	203	50	< 1	141	356	60	38	< 2	3	2	< 1	< 10	< 5	4	35	< 10	80	25	< 10
46653	3.76	7.12	3.80	0.77	0.02	310	1471	344	2	23	29	107	45	< 1	151	365	71	36	< 2	2	5	< 1	< 10	< 5	4	36	< 10	60	40	< 10
46654	3.31	6.37	4.09	0.74	0.02	141	1605	362	< 1	29	24	101	46	< 1	131	333	74	34	< 2	3	3	< 1	< 10	< 5	6	32	< 10	195	35	< 10
46655	2.92	6.87	3.72	0.77	0.01	85	1973	296	3	29	20	88	42	< 1	126	259	56	29	< 2	2	< 1	< 1	< 10	10	4	26	< 10	7875	20	< 10
46656	3.36	6.48	4.31	0.75	0.02	96	1785	382	2	23	24	95	49	< 1	122	348	68	35	< 2	3	< 1	< 1	< 10	5	4	33	< 10	1175	15	< 10
46657	3.43	6.66	4.46	0.71	0.01	80	1728	340	15	29	19	99	67	< 1	130	260	63	33	< 2	3	4	< 1	< 10	5	4	22	< 10	215	25	< 10
46658	2.21	6.42	4.32	0.73	0.02	56	1915	418	9	32	17	95	43	< 1	100	227	52	32	< 2	9	< 1	< 1	< 10	10	4	20	< 10	7970	25	< 10
46659	2.98	6.17	5.59	0.66	0.01	68	1603	388	12	25	15	74	60	< 1	111	256	73	31	< 2	4	3	< 1	< 10	< 5	5	19	< 10	200	30	< 10
46660	2.95	6.40	4.61	0.65	0.02	70	1503	426	12	28	16	52	60	< 1	113	258	66	33	< 2	3	3	< 1	< 10	5	5	20	< 10	270	20	< 10
46675	2.39	8.28	5.48	0.76	<0.01	46	3326	64	13	1734	17	72	708	< 1	68	100	81	73	< 2	3	< 1	< 1	< 10	15	4	15	< 10	3195	165	< 10
46676	2.45	8.39	5.90	0.76	<0.01	63	3902	52	6	1744	17	62	776	< 1	69	105	78	88	< 2	1	< 1	< 1	< 10	15	4	18	< 10	1060	165	< 10
46677	2.50	8.59	5.76	0.76	<0.01	71	4244	58	6	1854	21	54	693	< 1	60	114	82	83	< 2	3	3	< 1	< 10	5	3	19	< 10	610	180	< 10
46678	3.17	8.31	4.48	0.80	<0.01	87	3243	80	2	2354	22	86	774	< 1	78	139	58	96	< 2	3	3	< 1	< 10	10	3	24	< 10	180	210	< 10
46679	3.18	7.29	4.61	0.84	<0.01	72	2248	78	< 1	1745	23	103	393	< 1	77	170	49	76	< 2	3	4	< 1	< 10	10	3	28	< 10	120	175	< 10
46680	2.43	5.97	5.07	0.85	<0.01	46	2135	48	5	2099	14	101	595	< 1	57	121	67	84	< 2	7	4	< 1	< 10	10	3	19	< 10	130	175	< 10
46681	2.35	6.08	6.07	0.88	<0.01	48	2062	62	2	1741	14	60	621	< 1	52	110	91	72	< 2	4	2	< 1	< 10	15	3	20	< 10	110	145	< 10
46682	2.11	6.51	6.28	0.86	<0.01	41	2718	44	3	1510	13	58	545	< 1	53	89	96	59	< 2	3	3	< 1	< 10	25	3	16	< 10	115	140	< 10
46683	2.07	6.48	6.19	0.85	<0.01	34	2689	54	11	1491	13	67	550	< 1	54	88	84	69	< 2	4	3	< 1	< 10	30	3	16	< 10	220	140	< 10
46684	2.41	8.29	6.47	0.81	<0.01	51	3769	68	1	1525	21	63	545	< 1	67	119	83	100	< 2	3	< 1	< 1	< 10	10	3	22	< 10	520	145	< 10
46685	1.27	9.57	6.92	0.82	<0.01	17	6569	20	19	1043	41	91	690	< 1	65	51	91	107	< 2	3	7	< 1	< 10	10	5	16	< 10	1035	210	< 10
46686	2.44	7.77	4.96	0.84	0.01	39	2620	56	7	1728	22	64	593	< 1	69	135	61	97	< 2	3	< 1	< 1	< 10	20	2	24	< 10	1100	160	< 10
46687	1.55	5.06	5.24	0.97	<0.01	14	1233	70	3	994	10	56	688	< 1	40	62	80	61	< 2	< 1	3	< 1	< 10	20	3	16	< 10	2240	90	< 10
46688	0.15	2.94	6.08	0.89	<0.01	< 1	801	< 2	2	222	4	69	436	< 1	15	8	104	34	< 2	< 1	< 1	< 1	10	20	3	9	< 10	2105	30	< 10
46689	0.51	4.43	5.29	1.01	<0.01	2	946	10	5	495	7	33	744	< 1	29	16	70	47	< 2	1	2	< 1	< 10	20	3	11	< 10	1445	50	< 10
46690	0.72	4.21	4.59	0.99	<0.01	4	768	26	2	567	7	61	645	< 1	27	24	38	50	< 2	1	< 1	< 1	< 10	35	2	12	< 10	860	65	< 10
46691	0.46	4.24	8.97	0.93	<0.01	< 1	1216	34	10	377	6	56	536	< 1	30	13	63	45	< 2	4	< 1	< 1	< 10	25	4	11	< 10	920	45	< 10
46692	0.83	4.41	7.32	0.96	<0.01	2	994	44	4	529	8	54	565	< 1	29	26	53	49	< 2	3	< 1	< 1	< 10	25	4	13	180	810	55	< 10
46693	0.53	4.54	10.06	0.90	<0.01	< 1	1411	20	6	413	8	54	593	< 1	24	18	63	50	< 2	2	2	< 1	< 10	15	4	11	20	875	60	< 10
46694	0.85	3.53	7.23	0.82	<0.01	107	965	34	6	554	6	40	392	< 1	28	48	53	36	< 2	< 1	1	< 1	< 10	15	3	9	< 10	380	60	< 10
46695	0.74	3.87	6.95	0.98	<0.01	2	902	94	2	577	7	48	569	< 1	23	26	47	43	< 2	< 1	1	< 1	< 10	30	3	11	< 10	405	70	< 10
46696	0.90	3.86	10.16	0.98	<0.01	3	1128	30	< 1	719	7	38	588	< 1	28	33	66	41	< 2	< 1	< 1	< 1	< 10	20	4	11	< 10	80	80	< 10
46697	0.73	3.08	7.11	0.92	<0.01	5	952	38	< 1	523	5	33	390	< 1	19	31	43	34	< 2	< 1	< 1	< 1	< 10	20	3	10	< 10	305	50	< 10
46698	1.29	4.70	3.51	1.04	<0.01	13	655	26	2	971	10	53	703	< 1	30	50	28	60	< 2	1	1	< 1	< 10	20	2	15	< 10	1045	90	< 10
46699	0.41	4.67	5.78	0.91	<0.01	4	1404	68	6	502	9	55	586	< 1	20	31	46	68	< 2	1	< 1	< 1	< 10	20	3	13	< 10	1630	50	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : [signature]

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

CYPRUS CANADA INC

REPORT No. : **T2282**

File No. : JA08MA
Date : JAN-12-1993

2R-2158-RG1,2

PROJ.:KERR

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm
46700	1.57	4.35	6.59	0.97	<0.01	19	1159	24	< 1	1095	11	51	633	< 1	29
46701	1.27	5.48	8.51	0.93	0.01	21	2055	34	19	927	14	67	609	< 1	36
46702	0.92	3.28	6.78	0.92	<0.01	14	1082	22	3	863	6	26	707	< 1	18
46703	0.37	2.39	5.25	0.93	<0.01	4	872	< 2	< 1	645	5	20	808	< 1	13
46704	0.14	2.64	1.23	1.01	<0.01	3	609	14	2	242	2	19	845	< 1	12
46705	0.10	2.63	1.54	0.99	<0.01	2	574	10	3	191	1	26	682	< 1	10
46706	0.14	2.95	1.95	1.00	<0.01	4	664	16	3	259	3	40	638	< 1	11
46707	0.26	2.04	5.15	0.88	<0.01	3	723	6	3	301	3	42	581	< 1	11
46709	0.44	3.67	4.00	1.00	<0.01	3	716	44	< 1	366	7	49	533	< 1	18
46710	0.59	3.78	5.32	1.01	<0.01	4	827	26	2	511	8	40	596	< 1	22

SAMPLE #	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
46700	65	59	60	< 2	2	< 1	< 1	< 10	15	3	17	< 10	1170	105	< 10
46701	84	62	62	< 2	3	< 1	< 1	< 10	20	5	19	< 10	1775	80	< 10
46702	42	57	58	< 2	2	< 1	< 1	< 10	20	3	13	< 10	1235	85	< 10
46703	12	66	65	< 2	< 1	< 1	< 1	< 10	20	3	10	< 10	1185	65	< 10
46704	1	18	73	< 2	1	< 1	< 1	< 10	30	1	6	< 10	1140	20	< 10
46705	< 1	25	67	< 2	< 1	< 1	< 1	< 10	30	1	5	< 10	640	15	< 10
46706	< 1	29	62	< 2	1	< 1	< 1	< 10	25	2	6	< 10	200	30	< 10
46707	9	62	53	< 2	2	< 1	< 1	< 10	10	2	7	< 10	95	30	< 10
46709	16	31	53	< 2	< 1	2	< 1	< 10	30	2	12	< 10	615	45	< 10
46710	21	40	51	< 2	1	1	< 1	< 10	30	3	13	< 10	690	50	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : ____________

APPENDIX 2

ANALYTICAL PROCEDURES FOR GOLD, ICP AND WHOLE ROCK ANALYSIS

Group 02-1

FIRE ASSAYING AT XRAL

A. Sample Preparation

Primary reduction is achieved by a two stage crushing facility which employs a 6" x 8" jaw crusher for the first stage followed by a 10" Gy-Roll cone crusher as second stage. The product from this system is typically 45% minus 1/8" and 99% minus 1/4".

A subsample is withdrawn from this crusher product by means of a 3/8" Jones sample splitter. The subsample will vary in size depending on the size of the original sample but will normally represent not less than 1/8 of the original. Samples of less than 1/2 pound are normally not split.

Secondary reduction is achieved by means of either a Braun disc pulverizer or an oscillatory swing mill. The former is normally used for the larger samples associated with assessment work, with the swing mills being reserved for geochemical applications. The Braun pulverizer product is 100% minus 100 mesh whereas the swing mill product is minus 200 mesh. The unused portion of the crusher product (crusher reject) is stored for possible future use free of charge for 90 days or is disposed of as per the client's instructions. The pulverized subsample (or assay pulp) is sent on for assay. Any material which remains after assay work is complete is put in storage for 180 days as above.

XRAL has two separate primary crushing facilities backed by eight swing mill stations and two Braun pulverizers.

B. Fire Assay

XRAL fire assay facilities consist of 5 - 32 pot electric assay furnaces, four of which are used for the fusions with the other employed exclusively for cupellation work. This facility has a throughput capacity of 600 - 700 fusions per shift and is manned by a staff of 10.

The assay procedure follows the classical lines of the lead-silver collection. The flux used for this purpose is prepared from the highest purity reagents available, being comprised of the normal proportions of litharge, soda-ash, borax and silica. Adjustments to the flux to compensate for abnormal sulphide or carbonate content of samples are made at time of assay. For such samples a pilot assay is required which utilizes a small aliquot of sample and provides the information required to make these adjustments properly. This practice assures the best composition necessary for a good collection during the fusion.

To monitor the quality of flux and as part of general quality control the following procedures are followed:

1. For each tray of samples, two reagent blanks are prepared. One is run with the samples, the other is run with all other similar blanks at the end of the shift.

2. A standard reference sample doped with cobalt and copper is run with each tray. The position of this standard is varied systematically from one tray to the next. This serves as a check to identify each batch through to the final cupellation and as a monitor of the final measurement of gold content.

3. Every tenth sample is run in duplicate. The second run is made at a different time from the first.

4. A large number of blanks are run at renewal of reagents and with each new batch of flux.

The routine involves weighing of a 20 gram aliquot of sample on a top loader electronic balance to $\pm$ 0.01 grams tolerance. This is added to a 20 gram assay crucible which has been pre-charged with 85-90 grams of flux. A fixed amount of reducing agent is then added to ensure production of a 24-35 gram lead button during fusion. Finally for gold assays five milligrams of silver is added and the sample and flux are mixed together.

The fusion is carried out at an average temperature of about 980 degrees celsius for about 45 minutes. Melts are poured and when the slag has cooled the lead buttons are recovered, deslagged, and placed in preheated cupels in the cupellation furnace. Cupellation takes about 30 minutes and is carried out at about 900 degrees celsius. The silver bead recovered after cupellation can be treated in several ways to determine the gold content as indicated below.

1. Neutron activation analysis: This requires only an irradiation followed by measurement of the gold content by gamma spectrometry.

2. Plasma spectrometry: Requires digestion of the bead with aqua regia followed by measurement of the gold content in the solution.

3. For high grade samples the gold can be parted from the silver and weighed as per the classical technique.

Sensitivities of 1 and 2 are 1-2 ppb for a 20 gram sample. These analyses are carried up to about 10,000 ppb as a rule. Higher values are checked gravimetrically.

A regular systematic cross check of the three methods is carried out to maintain the integrity of the calibrations. (See attached table).

Atomic absorption is seldom used as the sensitivity is not quite adequate for the low levels required for geochemical applications.

Silver analyses follow the same path as gold samples except that the final measurement is always gravimetric.

Other elements analyzed by the lead collection method are platinum, palladium and rhodium.

In addition to the lead collection XRAL also employs a nickel sulphide collection technique which quantitatively collects the six platinum metals into a nickel sulphide button. The metals so collected are determined after separation from the nickel sulphide by neutron activation analysis.

We cordially invite you to visit and inspect our facilities at your convenience.

Method Code 70-1
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Part
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XRAL **X-Ray Assay Laboratories**
A Division of SGS Supervision Services Inc.

Acid Extraction, determination by ICP Spectroscopy - 36 elements

Description:

A quarter gram sample is digested with 2 ml of nitric acid for one half hour in a water bath, then 1 ml of hydrochloric acid is added and the digestion continues for another 2 hours. Test tubes are shaken at regular intervals.

In house standards and previously analysed samples are run to monitor proper digestion procedures. Synthetic standards are used to calibrate the instrument.

Limitations:

The nitric aqua regia extraction will not completely extract difficultly soluble elements such as Ba,Cr,Sb,Sn,Ta,W,V and Zr. The multi-acid extraction (Method code 80-1) will ensure better extraction, though some refractory minerals may remain incompletely attacked. Volatile elements such as As may be lost from solution in the multi-acid attack.

Elements:

Al	0.01%	Fe	0.01%	Na	0.01%
Sb	5ppm	Pb	2ppm	Sr	.5ppm
As	5ppm	Li	1ppm	Ag	.1ppm
Ba	1ppm	Mg	.01%	Sn	10ppm
Be	.5ppm	Mn	.01%	Ti	.01%
Bi	3ppm	Mo	1ppm	W	10ppm
Cd	1ppm	Ni	1ppm	V	2ppm
Ca	.01%	P	.01%	Y	.1ppm
Cr	1ppm	K	.01%	Zr	.5ppm
Co	1ppm	Sc	.5ppm	Zn	.5ppm
Cu	.5ppm				

Prepared by　　　　Approved by　　　　Date

Method Code 100-1: Whole Rock Analysis - XRF, fused button

A 1.3 gram sample, after roasting at 950 degrees for 1 hour, is fused with 5 grams of lithium tetraborate and the melt is cast into a 40 mm button.

The button is analyzed on a Philips PW1600 simultaneous x-ray fluorescence spectrometer. This system is calibrated using more than 40 reference materials, most of them being tabulated in Syd Abbey's "preferred" values compilation.*

Counting time on major elements is 90 seconds and each element is analyzed for through its own fixed channel. Trace elements in this package are run as counts are accumulating for the majors using a scanner.

L.O.I. is obtained from the roasting mentioned above. All elements determined are added and any samples with a sum of less than 98% or higher than 101% are automatically repeated. This gives us control over the button preparation. Instrument precision on most elements is better than 0.5%. Only on lower count rates would one experience errors of 1-2%.

*Geological Survey of Canada, Paper 80-14, Studies in "Standard Samples" for Use in the General Analysis of Silicate Rocks and Minerals, Part 6:1979 Edition of "Usuable" Values.

Notes:

1. Sums which are found to be less than 98%, are checked by running the WRA buffer on the PW1400 for Cu, Zn, Pb, Ni, U, Mo & As.

2. Calibrations are also set up for 0.65g and 0.13g sample size which results in lower precision and accuracy.

Fire Assay Procedure / A.A. Finish

1) Weigh 1 A.T. sample of rolled pulp into
30g crucible containing neutral flux. (see attached sheet)

2) Add 2 mg Ag. Mix well. Add borax cover and fuse @ 2000°F for 1 hour.

3) Pour sample, cool, clean button.

4) Place button in preheated cupels @ 1700°F. Cupel until finished. Remove, cool.

5) Clean and flatten beads. Place beads in test tubes for parting.

6) Parting - Add 1ml 1-1 HNO_3 to each tube. Place in hot water bath for 20 minutes. Remove tubes - add 2 mls HCl. Reheat in water bath a further 10 minutes.

7) Remove - bulk each sample to 5 mls and shake well.

8) Read samples on A.A against aqueous standards made up in 50% Aqua Regia

Notes:

) Included with each Fire assay load are: a flux blank, two sample duplicates. If the flux blank shows Au values, the entire run is re-done with new flux.

2) Au concentrations in excess of 500 PPB are routinely re-assayed to obtain more precise values.

3) A.A Standards used are 86 PPB
171 PPB
514 PPB

Fluse mixture:

44% PbO
24% Soda Ash
10% Borax
2% Silica

METHOD 1002-WM

Whole rock Minors - Base metals > 1 %

1. Samples are pulverized to sub 200 mesh and left to dry overnight in a drying oven at 105 C.

2. A 250 mg portion of the sample is weighed into a 125 ml teflon beaker and are wetted with distilled water and have 10 ml HNO3 and 5 ml HF acid added. The samples are left uncovered for 10 minutes. The beaker is then covered and heated till all red Nitrous fumes are gone. The beaker is removed from the heat and 15 ml of HCL is added. The covered beaker is returned to the heat, for a further 15 minutes. The cover is then removed and the solution is slowly brought to dryness.

3. The dried sample is reconstituted with 5 ml HCL and heated gently until salts are dissolved. If any residue remains an additional 5 ml HF is added and the sample is then again brought to dryness and brought back with 5 ml HCL.

4. Ten ml of saturated boric acid solution is added to the HCL salt mixture which is then brought to 100 ml volume with distilled water. An aliquot of this solution is poured into plastic auto-sampler tubes to be run by ICAP.

METHOD 1001-WI

ICAP Whole Rock instrument analysis procedure:

1. For every sample run a blank and a standard are run for every five samples; one these standards must be a "blind" for every ten samples.

2. Calibration of the instrument is achieved by the running of 4 international rock standards with well established values and one synthetic standard for the trace elements. These standards will have been previously digested using the standard whole rock procedure in triplicate and run to assure precision and accuracy. The synthetic is made by replacing 7 ml of DI water in a blank with 7, one ml aliquots of 1000 ppm of the different metals of interest. Where possible, if the type of rock material to be analysed is known beforehand, SRM' of the same rock type should be run as standards with these samples.

3. The suite of metals known to cause interferences upon other metals are run daily and the interference factors stored. Since all elements are automatically background corrected, the blank solutions are run to check for digestion contamination for each "batch" of samples but not to correct for background

intensities.

4. Recalibration of the instrument is performed when a drift of more than 5 percent occurs. The calibration is verified once every ten samples.

5. One out of every ten samples is repeated. These are usually samples where the combined oxides and LOI does not equal 99.5% +/- 1.5%. Samples that repeat low, with an overall precision of better than 2 %, are averaged and reported low to the customer. Low totals may result from samples having elements such as sulphur or flourine that are not necessarily reported with the whole rock analysis.

METHOD 1003-WB

ICAP whole rock instrument analysis - base metals > 1 %

1. Instrument calibration is performed using synthetic solutions in the final acid matrix as the samples (5% HCl) Standards similar in composition are digested and run along with samples to verify recoveries and accuracy of the calibration. Where recovery of the known standards is less that 95 % compared to the synthetic calibration, the digestion of the samples is repeated. All synthetic solutions are from chemical supply companies who certify their solutions from high purity stock materials for use with ICAP.

METHOD 1001-WA

Whole rock procedure - Silicate Rocks

1. Samples are pulverized to sub 200 mesh and left to dry overnight in a drying oven at 105 C.

2. A portion of the dried sample is weighed into a previously weighed ceramic crucible and put into a furnace for two hours at 1000 C. The crucible and sample is then placed after cooling in the 105 C. oven to be later weighed for LOI losses.

3. A 200 mg sample of the dried sample is weighed into a carbon crucible containing flux and mixed thoroughly. This mixture is cured for half an hour and then heated to 1100 C. The hot melt is added to a dilute HNO3 acid solution and stirred for 3 hours on a rotary shaking tray.

4. The flux acid mixture is diluted with double dionized water and poured into plastic auto-sampler tubes to be run on the ICAP.

METHOD 1001-WS

Whole rock procedure - Sulphide containing rocks (> 2%)

1. Samples are pulverized to sub 200 mesh and left to dry overnight in a drying oven at 105 C.

2. A portion of the dried sample is weighed into a previously weighed ceramic crucible and put into a furnace for two hours at 1000 C. The crucible and sample is then placed after cooling in the 105 C. oven to be later weighed for LOI losses. A portion of this sample is used to perform the whole rock digestion instead of the dried sample sample. The "real" weight is back calculated from the LOI and is used as the "sample weight".

3. A 200 mg portion of the sample after LOI losses is weighed into a carbon crucible containing flux and mixed thoroughly. This mixture is cured for half an hour and then heated to 1100 C. The hot melt is added to a dilute HNO3 acid - Hydrogen Peroxide solution and stirred for 3 hours on a rotary shaking tray.

4. The flux acid mixture is diluted with double deionized water and poured into plastic auto-sampler tubes to be run on ICAP.

APPENDIX 3

KERR MINE PROJECT - COST SUMMARY

APRIL 1 TO DECEMBER 31, 1992

APPENDIX 4

1992 DRILL LOG SUMMARIES

C-13-1 TO 3, C-20-1, C-25-1 TO 4

1992 DRILL LOG SUMMARIES

This section will summarize the geology, structure and assay results of each hole on an individual basis. For an overall summary of the drill hole geology and assay results, on a property scale, please refer to sections 7.0 and 8.0 of the OMIP #2 Report. For more detail of each drill hole please refer to each respective drill log.

In order to visualize the succession of rocks present in the Kerr Mine area, in a north to south direction, an attempt has been made to place and label the different units of rocks encountered in the drill holes into the same units which were mapped during our mapping/sampling phase of the Kerr program. The units encountered during our drill program, from north to south, include Mixed Mafic Volcanic/Ultramafic, Central Ultramafic/Ultramafic Agglomerate, Massive Mafic Volcanic/Agglomerate, Southern Ultramafic and Southern Sediment/Volcanic.

In a general sense the "G" and Mill Zone lie near the northern boundary of the Southern Ultramafic unit and the South Zone lies along the southern boundary of this unit.

As described in OMIP Report #1, the ultramafic and mafic volcanic rocks are komatiitic and iron tholeiite volcanics, respectively, based on lithogeochemistry.

All footage widths indicated in the following are true widths.

C-13-1

This hole is located on the 1300 level of the Kerr Mine and at 5180.12N 6468.32E of the Kerr Mine geological grid. Drilling azimuth began at 088 degrees and a dip angle of minus 65 degrees. Final hole depth was 632.0 feet. Drill core size was BQ for the entire length of the hole. The target was the Mill Zone.

C-13-1 intersected mafic volcanics from the collar to 177.0 feet followed by ultramafic rocks to the end of the hole at 632.0 feet.

Massive Mafic Volcanic/Agglomerate Unit

The mafic volcanic rocks consist of flows and agglomerates.

The mafic volcanics are massive dark green to grey-black in color and often show flow, flow breccia and occasional pillow selvage textures. A few thin interflow sedimentary units, recognized by black chlorite, are present. The volcanics are carbonatized to iron dolomite/ankerite and frequently contain abundant secondary calcite veinlets. This rock type occasionally contains localized sections of disseminated euhedral pyrite in concentrations not exceeding 15 percent. No quartz veining was noted.

The mafic agglomerates are massive to slightly schistose and dark grey-black in color. Fragments are ellipsoidal, range from $^{1}/_{8}$ inch to 4 inch in size and are altered to sericite and iron dolomite/ankerite. The matrix is graphitic, chloritic and calcite-rich. The rock unit consists of up to 80 percent fragments. Occasional thin beds of interflow sediments are present. Pyrite-pyrrhotite mineralization is rare and does not exceed 5 percent. Quartz-calcite veinlets are common, however, quartz veins were rarely observed.

Southern Ultramafic Unit

The ultramafic rocks consist of weakly altered ultramafic flows, weak-dull green carbonate, grey carbonate and mineralized grey carbonate, Mill Zone 2 and talc carbonate schist.

The weakly altered ultramafic flows are massive to locally strongly schistose and dark green to black in color. Calcite veinlets, serpentine and talc are pervasive throughout the unit and polysutures are often observed. No sulphide was noted.

The weak-dull green carbonate rocks are immediately recognized by their green color which is reflecting 2 percent to 5 percent of fuchsite. These rocks are moderately to strongly altered to iron dolomite/ankerite and are frequently silicified with minor to locally abundant quartz-carbonate and quartz veins. Nil to trace pyrite was noted.

The grey carbonate to mineralized grey carbonate rocks are grey to dark grey in color, highly carbonatized (iron dolomite/ankerite and calcite), weakly sericitic and often contain up to 30 percent white and smoky quartz veins. In this hole the grey carbonate may host some serpentine stringers and narrow dull green carbonate sections. Pyrite content is locally up to 20 percent.

The Mill Zone 2 unit is hosted entirely within the ultramafic sequence, approximately 260 below the mafic/ultramafic contact. It is a black massive to slightly schistose rock with 10 percent to 20 percent ladder-style quartz-carbonate veins and veinlets. Fine grained disseminated pyrite occurs as halos around the quartz-carbonate veins and veinlets. Pyrite content can reach up to 20 percent locally. Trace arsenopyrite was observed.

Talc carbonate schists consist of distorted, alternating layers of black talc-serpentine and white calcite. No sulphide was noted.

Fault Zones

No significant faulting was noted in this hole.

Auriferous Zones

Four auriferous horizons were intersected in C-13-1. These include the "G" Zone, two mineralized grey carbonate zones and a Mill Zone 2 interval. One of the lower most ultramafic units also returned some sporadic gold values, the highest being 0.032 opt over 1.61 feet, however, this appears to be a local occurrence.

The best gold intercept in the hole occurs within the upper mineralized grey carbonate unit. This unit returned a high of 0.25 opt over 4.0 feet. Combining this value with the two adjacent values of 0.041 opt and 0.10 opt, results in a best average grade of 0.123 opt gold over 12.3 feet.

The lower mineralized grey carbonate unit returned an average grade of 0.056 opt gold over 2.5 feet.

The Mill Zone 2 intercept returned a best average grade of 0.103 opt gold over 3.8 feet of which the best intercept was 0.13 opt gold over 2.1 feet.

C-13-2

This hole is located on the 1300 level of the Kerr Mine and at 5171.53N 6447.78E of the Kerr Mine geological grid. Drilling azimuth began at 200 degrees and a dip angle of minus 70 degrees. Final hole depth was 990.0 feet. Drill core size was BQ for the entire length of the hole. The target was the Mill Zone.

C-13-2 intersected mafic volcanics from the collar to 327.0 feet followed by ultramafics to the bottom of the hole at 990.0 feet.

Massive Mafic Volcanic/Agglomerate Unit

The mafic volcanics encountered in C-13-2 consist of flows and agglomerates which are similar in terms of texture and alteration to those encountered in C-13-1.

Pyrite content is noted to be up to 15 percent in the mafic volcanics. Arsenopyrite and quartz veining, which was not noted in C-13-1, is present in C-13-2 in trace to up to 5 percent, respectively.

Southern Ultramafic Unit

The ultramafic rocks are comprised of weakly altered ultramafics, dull green carbonate to green carbonate, grey and mineralized grey carbonate, altered carbonate, talc chlorite schist, chlorite carbonate schist, chlorite calcite schist, talc carbonate schist and talc carbonate flow, green to brown and brown carbonate and Mill Zone 2 rock.

The weakly altered ultramafic flows are grey-green to brown in color, massive to schistose and strongly calcitic. At times these flows are brecciated to agglomeratic in appearance.

Talc, serpentine and chlorite are the other major minerals. No sulphide was noted in this rock type, however, up to 40 percent calcite veinlets are present.

Dull green carbonate (DGC) and green carbonate (GC) units are the same rock type, the only difference is in fuchsite content. DGC rocks have less fuchsite while GC rocks have more. All DGC and GC units are pervasively altered to iron dolomite/ankerite with calcite mainly as veinlets. Quartz veining is present usually only in brecciated areas. There is less than 2 percent disseminated pyrite in most areas but in areas with abundant quartz veins there is up to 15 percent pyrite. These quartz-rich areas also tend to have minor yellow-brown sericite. Polysutures were noted occasionally indicated an ultramafic flow origin.

Grey and mineralized grey carbonate rocks are light to dark grey in color. The lighter color is indicative of an increase in silicification. These rocks are massive homogenous and strongly carbonatized (iron dolomite/ankerite) with occasional dark green chloritic sections and seams of graphite. These units contain abundant white and smoky grey quartz veining and are well silicified. In some sections of the mineralized grey carbonate quartz veining and silicification can comprise over 50 percent of the rock. Sulphide consists predominantly of pyrite and lesser arsenopyrite and combined they can make up approximately 15 percent of the rock over short intervals of 5 feet or less.

Altered carbonate rock is a massive, bleached, intensely carbonate ultramafic flow. Iron dolomite/ankerite is the main carbonate mineral. Other minerals consist of quartz, sericite and fuchsite. Polygonal jointing is present. No sulphide or quartz veining were noted.

Talc chlorite schist, chlorite carbonate schist, chlorite calcite schist, talc carbonate schist and talc carbonate flow are altered and sheared or non sheared variations of ultramafic flows. The dominant mineral(s) present in the rock is indicated in the name of the rock. The carbonate is invariably iron dolomite/ankerite with lesser calcite. These rocks are dark green to black in color. Only the chlorite-calcite schist was noted to contain sulphide. In this unit a 2.4 foot section contained 10 percent pyrite and 1 percent arsenopyrite. None of the above rock types contained quartz veining.

Green/brown and brown carbonate are a less altered variety of the DGC and GC rocks. These rocks are buff to brown to dull green in color and often exhibit ultramafic textures such as polysutures and spinifex. The majority of the rock is composed of iron dolomite/ankerite with occasional fuchsite and sericite. These rock types contain no sulphide or quartz veins.

Mill Zone 2 rock resembles a strongly mineralized and silicified grey carbonate unit. This rock is dark to light grey in color, massive to slightly schistose, weakly talcose and strongly altered to iron dolomite/ankerite. Strong silicification is pervasive throughout this unit. Quartz veining is abundant and randomly oriented. Pyrite, arsenopyrite and chalcopyrite occur as disseminations, matrix material in brecciated areas and as halos around quartz veins. Chalcopyrite occurs in trace amounts while pyrite content ranges from 5 percent to 15 percent and arsenopyrite from 1 percent to 3 percent.

Fault Zones

No faulting was noted in this hole.

Auriferous Zones

The mafic volcanic flows, DGC-GC, grey carbonate and Mill Zone 2 units were found to be anomalous in gold.

The mafic volcanics returned a high of 0.041 opt gold over 5.9 feet which included a higher grade section of 0.047 opt gold over 2.1 feet. The mafic volcanic flows are interpreted to be "G" Zone by Deak Resources.

Anomalous gold values in the DGC-GC units ranged from 100 ppb to a high of 910 ppb and would average between 200 and 400 ppb.

Grey carbonate rocks were found to be more consistently anomalous in gold than the DGC-GC units. Gold values in the grey carbonates would average between 300 and 500 ppb but occasional highs of 0.077 opt over 2.2 feet and 0.038 over 1.5 feet were encountered.

Mill Zone 2 rocks returned the best gold values of the entire hole. An average grade of 0.033 opt over 30.4 feet was encountered. This included highs of 0.036 opt over 4.3 feet and 0.055 opt over 11.5 feet.

C-13-3

This hole is located on the 1300 level of the Kerr Mine and at 5068.84N 5477.56E of the Kerr Mine geological grid. Drilling azimuth began at 136 degrees and a dip angle of minus 20 degrees. Final hole depth was 1241.0 feet. Drill core size was BQ for the entire length of the hole. The target was the Mill Zone.

This hole intersected dominantly mafic volcanics from the collar to 831.0 feet, ultramafics from 831.0 feet to 1091.0 feet, mafic volcanics from 1091.0 to 1206.0 feet and finally ultramafics from 1206.0 to 1241.0 feet.

Mixed Mafic Volcanic/Ultramafic, Central Ultramafic/Agglomerate and Mixed Mafic Volcanic/Agglomerate Units

Two sequences of mafic volcanic flows/tuffs and agglomerate were intersected in C-13-3. The mafic flow part of the first sequence is interpreted to be equivalent to the mixed mafic volcanic/ultramafic unit mapped during our underground mapping/sampling phase. This unit hosts the #21 and #16 flow orebodies. The second part of the sequence, which is a mafic agglomerate, is interpreted to be equivalent to the central ultramafic/agglomerate unit encountered on level 2050, even though there is no ultramafic component present. It is presumed the ultramafic which forms part of this group on the 2050 level have pinched out before reaching the 1300 level. The second sequence is equivalent to the massive mafic volcanic/agglomerate unit.

In both sequences, the mafic volcanic flows and tuffs are grey to grey-green to dark green in color, massive to weakly schistose and very homogeneous to locally heterogenous. Where the flows or tuffs are heterogenous they are reflecting a weak agglomeratic texture. Generally the tuffs are well laminated occasionally with pyrite and/or calcite, graphite or fuchsite on the lamellae surfaces. The flows occasionally show pillow selvages and flow contacts. These rocks are pervasively weak to moderately chloritic and calcitic. Iron dolomite/ankerite alteration is very weak to only locally moderate. Overall sulphide content is very low to non existent throughout these rock types and quartz veining was rarely seen.

The mafic agglomerates are grey-green to dark green in color, weak to moderately schistose (schistosity defined by stretched clasts) and are mainly clast supported (80% clasts and 20% matrix). Clast size ranges from less the 1 inch to 6 inches. Many of the clasts have been altered to calcite with minor sericite, iron dolomite/ankerite and quartz. The matrix can be composed of all or some of the following: calcite, chlorite, fuchsite, sericite and graphite. Some agglomerate units have a significant graphitic interflow component. Often the graphitic interflows host minor quartz veining and trace to 5 percent pyrite.

At the mafic volcanic-ultramafic contact is a 7.7 foot section of interflow sediments. This unit is grey to dark green in color, well laminated and weak to moderately altered to iron dolomite/ankerite. No sulphide was noted.

<u>Southern Ultramafic Unit</u>

The southern ultramafics are dominated by weakly altered ultramafic flows and talc carbonate schist with minor, dull green carbonate, Mill Zone 2 and grey carbonate. There is also a 115.0 foot wide mafic volcanic flow within this dominantly ultramafic sequence. The unit is interpreted to be the thin wedge of mafic volcanics in the southern ultramafic section as seen on Deak's section 56 cross section.

The weakly altered ultramafic rocks are dark green to black with occasional buff brown sections. The rock appears to be composed primarily of talc and serpentine which has been weak to moderately altered to iron dolomite/ankerite. Frequent calcite and iron dolomite/ankerite laminae are present. Polysutures, polygonal joints and selvages are often seen.

The talc carbonate schists represent the sheared variety of the unaltered ultramafics. However, these rocks have more talc alteration and may have more calcite and iron dolomite/ankerite laminae.

The dull green carbonate rocks are slightly green to green-brown in color, massive to brecciated and show polygonal jointing. These rocks are moderately altered to iron dolomite/ankerite with minor calcite and serpentine.

The Mill Zone 2 rocks are composed of alternating sections of strongly mineralized green, grey and brown carbonate. Contacts are gradational. The main carbonate mineral is a fine to coarse crystalline iron dolomite/ankerite. Pyrite and arsenopyrite are the only sulphides present. Pyrite can be as high as 15 percent and arsenopyrite as much as 10 percent. These sulphide-rich areas are always associated with abundant, random, smoky or white quartz veins. The white quartz veins were noted not to contain any sulphide while the smoky quartz veins were often mineralized.

The grey carbonate rocks are grey in color, massive to weakly schistose and moderately altered to iron dolomite/ankerite. Minor sericite and talc present along thin lamellae surfaces. No sulphide or quartz veins were noted, however, many calcite veins and veinlets are present.

The mafic volcanic unit intersected at the bottom of the hole appears identical to the mafic volcanic flows intersected at the beginning of the hole. However, this unit is bleached due to the intense calcite alteration.

<u>Fault Zones</u>

A 14.5 foot and 9.0 foot fault zone were intersected in the mafic volcanic flow and agglomerates encountered in the upper part of the hole. The former fault is recognized by a strongly brecciated agglomerate with abundant graphitic gouge and trace to 5 percent pyrite. The latter fault occurs at a mafic flow-mafic tuff contact. It is brecciated, mineralized with 5 percent to 15 percent pyrite, trace to 5 percent arsenopyrite and silicified with minor quartz veining. This mineralized fault is interpreted to be part of the "G" Zone.

A 18.9 foot fault zone was noted at the upper contact of the mafic volcanic unit present in the ultramafic section. This fault is interpreted to be the down dip extent of the South Cross Cut fault encountered in the 1000 level south cross cut. No sulphide or quartz veining were observed.

<u>Auriferous Zones</u>

The upper part of the mafic volcanic sequence returned only sporadic, low anomalous gold values.

The "G" Zone fault returned an average gold grade of 0.034 opt over 7.1 feet.

The Mill Zone 2 unit is the only other unit found to be auriferous in C-13-3. This unit averaged 0.035 opt gold over 36.3 feet. This included a high of 0.25 opt over 2.4 feet, which is part of a larger section which ran 0.155 opt over 4.3 feet, and another section which returned 0.061 opt over 6.5 feet.

C-20-1

This hole is located on the 2050 level of the Kerr Mine and at 5644.94N 6008.60E of the Kerr Mine geological grid. Drilling azimuth began at 165 degrees and a dip angle of minus 50 degrees. Final hole depth was 1047.0 feet. Drill core size was BQ for the entire length of the hole. The target was the Mill Zone.

Hole C-20-1 intersected ultramafic rocks from the collar to 105.0 feet, dominantly mafic volcanics from 105.0 feet to 471.0 feet and ultramafic rocks from 471.0 to the end of the hole at 1047.0 feet.

Central Ultramafic Unit

The weakly altered ultramafic rocks are dark green to black in color and well laminated by the presence of abundant iron dolomite/ankerite veinlets. Calcite, chlorite, talc and serpentine are also present in minor to major amounts. Some polygonal jointing is noted. No sulphide is present.

Massive Mafic Volcanic/Agglomerate Unit

The mafic volcanics are comprised of mainly flows, tuffs and agglomerates with minor graphitic argillite and grey/green carbonate.

A 14.2 foot graphitic argillite unit marks the contact between the Central Ultramafic and Massive Mafic Volcanic/Agglomerate Units. It consists of alternating laminations of graphite-rich argillite and iron dolomite/ankerite. Some lamellae are pyrite-rich. These units can also occur as thin interflows in the mafic agglomerate units.

The mafic volcanic flow to tuffs are buff to grey to grey-green in color and can be massive to tuffaceous. Thin lapilli tuffs, tuff breccia and agglomeratic sections are present. These rocks are highly carbonatized to iron dolomite/ankerite and/or calcite with minor sericite and chlorite-rich sections. Quartz gashes and veinlets are frequently observed. Where there are agglomeratic sections graphite and up to 5 percent pyrite and trace arsenopyrite can be present.

The mafic agglomerates are dark grey to dark green in color. Fragment composition is noted to be composed of either chlorite, calcite and/or iron dolomite/ankerite. Matrix material consist of argillite, graphite, calcite and iron dolomite/ankerite. The fragment composition was noted to change to a more ultramafic composition with depth. The ultramafic fragments were recognized by being altered to talc and serpentine. Frequent dull green carbonate intervals were observed particularly toward the ultramafic contact. The mafic agglomerates do not contain quartz veins or pyrite. Trace concentrations of pyrite were noted in the dull green carbonate intervals.

Towards the top of the mafic volcanic/agglomerate section is a 18.8 foot interval of grey/green carbonate which is interpreted to be "G" Zone. This rock is massive to slightly schistose and composed of iron dolomite/ankerite, calcite, sericite and fuchsite. There are occasional quartz and quartz-carbonate veinlets and gashes which at one location contains a fleck of visible gold. The green carbonate intervals within this unit contain up to 10 percent very fine grained pyrite and 3 percent arsenopyrite.

Southern Ultramafic Unit

The ultramafics are comprised of ultramafic agglomerate, dull green carbonate, grey/green carbonate, weakly altered ultramafic flows, moderately altered ultramafic flows, talc chlorite schist, Mill Zone 2 rock and a mafic flow unit towards the bottom of the hole.

At the top of the ultramafic section is a ultramafic agglomerate unit. This unit is dark green to black in color and consists of fragments composed of talc and serpentine in a iron dolomite/ankerite matrix. No sulphide or quartz veins were noted.

The dull green carbonates within this ultramafic section are dull green to emerald green in color, massive to weakly schistose and strongly altered to iron dolomite/ankerite with minor sericite. These units frequently contain randomly orientated smoky quartz veining and 2 percent to 10 percent pyrite and trace arsenopyrite.

The grey/green carbonate intervals are either grey or grey-green in color and appear to be less altered and mineralized than the dull green carbonates. These rocks are massive to slightly foliated and carbonatized to iron dolomite/ankerite and calcite. Minor to locally moderate amounts of sericite and fuchsite are present. Only minor quartz-carbonate veinlets were observed. No sulphide was identified in this unit.

The weakly altered ultramafic flows are green-black to brown in color, massive to weakly schistose and moderately altered to iron dolomite/ankerite, calcite and serpentine. Polygonal jointing is observed.

The moderately altered ultramafic flows and talc chlorite carbonate schist are the moderately to strongly altered and/or sheared varieties of the weakly altered ultramafics. The talc chlorite carbonate schists are at the extreme end of alteration and shearing. These rocks are dark green to buff to brown in color, weak to strongly sheared with moderate to abundant laminations of iron dolomite/ankerite, calcite and lesser sericite, fuchsite and serpentine. There are occasional quartz veinlets and gashes with moderate pyrite and trace arsenopyrite.

In this hole the Mill Zone 2 unit is a massive black strongly carbonatized (iron dolomite/ankerite) rock with a dense quartz stockworking and up to 20 percent disseminated pyrite, 5 percent arsenopyrite and trace chalcopyrite. The rock unit also has minor fuchsite giving the rock a dull green carbonate appearance.

As in C-13-3 a mafic flow unit was intersected in the ultramafic section below the Mill Zone 2 unit. This rock is interpreted to be a basaltic komatiite rather than a iron tholeiite which all mafic volcanic flows and tuffs are in this hole. This rock is grey to pale green in color, massive to weakly schistose, strongly altered to iron dolomite/ankerite and has occasional dull green carbonate intervals. There are occasional calcite veinlets and 1 percent to 3 percent pyrite.

Fault Zones

Two faults were encountered in the hole, however, neither were note to be mineralized even though both returned anomalous gold values of 193 and 194 ppb. Both faults occur in the Southern Ultramafic Unit.

Auriferous Zones

The "G" Zone and Mill Zone 2 units were found to be the auriferous units in this hole.

The "G" Zone returned a average grade of 0.062 opt gold over 2.7 feet. This includes a high of 0.166 opt gold over 0.76 feet where a speck of visible gold was identified.

The Mill Zone 2 unit returned an average grade of 0.042 opt gold over 4.6 feet. There were also some localized anomalous gold values in other units, however these did not exceed 0.027 opt gold over 4.0 feet.

C-25-1

This hole is located on the 2500 level of the Kerr Mine. More specifically it is located at 4408.58N 5019.24E of the Kerr Mine geological grid. Drilling azimuth began at 145 degrees and a dip angle of minus 50 degrees. Final hole depth was 1330.0 feet. Drill core size was BQ from the collar to 1277.0 feet and then AQ to the end of the hole at 1330.0 feet. The target were the Mill and South Zones.

C-25-1 is dominated by mafic volcanics from the collar to 512.0 feet, followed by ultramafics to the end of the hole at 1330.0 feet where the hole was lost.

Massive Mafic Volcanic/Agglomerate Unit

The mafic volcanics include agglomerates, flows and tuffs.

The mafic agglomerates are dark green to green-grey rocks which have some tuffaceous and massive intervals. Fragments consist of chlorite, calcite and plagioclase in a matrix of graphite, chlorite and calcite. Fragment size varies from lapilli size to greater than 2 inches. These rocks are non to very weakly carbonatized (iron dolomite/ankerite). No sulphide or quartz veining were noted.

The mafic flows and tuffs can be grey to dark green in color and massive to tuffaceous. Flow breccia, amygdules and graded bedding were observed. Graded bedding indicates tops are down hole. The mafic volcanics are relatively unaltered towards the top of the hole but become more altered down hole. Alteration consists of calcite-epidote and chlorite and progressing to iron dolomite/ankerite toward the "G" Zone, Mill Zone 1 and Mill Zone 2 units. There are some argillite interflow units within the mafic flows and tuffs. Quartz veining is rare and pyrite and arsenopyrite were noted to occur as trace amounts.

Hosted within the mafic volcanic section are the "G" Zone and Mill Zone 1 units. The Mill Zone 2 unit occurs at the contact between the overlying mafic volcanics and underlying ultramafics and is regarded to be of ultramafic origin. The Mill Zone 2 unit will be described in the following section.

The "G" Zone is a altered mafic volcanic flow which is buff grey in color, massive, very fine grained and moderately silicified. This unit has up to 10 percent pyrite and 3 percent arsenopyrite.

The Mill Zone 1 unit resembles a mafic volcanic which has been strongly carbonatized (iron dolomite/ankerite), silicified and mineralized. Minor fuchsite has given the rock a dull green color in places. This rock contains abundant smoky quartz veins and near massive amounts of pyrite minor arsenopyrite and trace chalcopyrite. Two small clusters of visible gold were observed to be associated to the smoky quartz veins.

Southern Ultramafic Unit

The ultramafic rocks are comprised of weakly altered ultramafic flows, breccia, talc carbonate schist and Mill Zone 2. These ultramafics are also host to three mafic flow units which are identical to the flows in the above and therefore will not be described in this section.

The weakly altered ultramafic flows and breccias are dark green to black in color. They can be massive to strongly brecciated with many polygonal jointing and polysutures present. There are a considerable amount of calcite veinlets present throughout these units particularly in the brecciated sections where calcite is also present as matrix material. The fragments in the brecciated intervals are either massive ultramafic or talcose-rich. No quartz veining was noted, however, very localized areas contained up to 10 percent pyrrhotite and trace chalcopyrite and magnetite.

The talc carbonate schists are similar to the weakly altered ultramafic flows and breccias except they are more sheared, talcose and contain more calcite veinlets. These units do not contain any quartz veining however some do contain trace pyrite and pyrrhotite.

There is considerably more fuchsite present in the Mill Zone 2 unit than in any of the overlying mafic volcanic rocks. It is also strongly altered to iron dolomite/ankerite with lesser sericite. There are occasional quartz-carbonate veinlets and trace pyrite in this unit.

Fault Zones

There are a considerable number of faults in the Southern Ultramafic Unit, particularly toward the bottom where the hole was lost due to caving. These faults ranged from 2 feet to 15 feet in width. No mineralization or quartz veining were noted in these structures.

Auriferous Zones

Three auriferous intervals were intersected in C-25-1. These include the "G" Zone, Mill Zone 1 and Mill Zone 2 units.

The "G" Zone unit returned an average grade of 0.039 opt gold over 12.4 feet.

The Mill Zone 1 interval returned an average grade of 0.114 opt gold over 32.2 feet which included a higher grade section of 0.15 opt gold over 13.4 feet. The highest grade in this interval, which reflects an area of visible gold, was 0.435 opt gold over 0.94 feet.

The Mill Zone 2 unit averaged 0.024 opt gold over 9.4 feet.

C-25-2

This hole is located on the 2500 level of the Kerr Mine and at 4606.09N 4237.72E of the Kerr Mine geological grid. Drilling azimuth began at 148 degrees and a dip angle of minus 50 degrees. Final hole depth was 2440.0 feet. Drill core size was NQ from the collar to 1553.0 feet, followed by BQ to 2071.0 feet and AQ to the end of the hole at 2440.0 feet. The target was the Mill and South Zones.

C-25-2 intersected dominantly mafic volcanics from the collar to 1012.0 feet followed by dominantly altered ultramafics to 2253.2 feet then interflow sediments to 2357.6 feet and finally an alternating sequence of mafic flows, tuff, agglomerates and interflow sediments to the end of the hole at 2440.0 feet.

Massive Mafic Volcanic/Agglomerate Unit

The mafic volcanics consist of flows, tuffs, agglomerates, "G" Zone and minor dull green carbonate and graphitic argillite/tuff.

The mafic volcanic flows are dark green to grey-green in color. They can be massive or amygdaloidal, tuffaceous, or vesicular. Flow top breccia and pillows were also noted and indicate tops are to the south. Calcite stringers are frequent. These rocks are weakly carbonatized (iron dolomite/ankerite). No quartz veining or sulphide is present in these units except in the altered mafic volcanics where local areas may contain up to 5 percent to 10 percent pyrite. These altered sections are also moderately to strongly silicified, carbonatized (iron dolomite/ankerite) and sericitic. Very minor dull green carbonate and grey carbonate were noted in these altered mafic volcanic sections also.

The mafic tuffs are dark green to black in color, massive or fine to coarsely laminated. These rock types generally contain more disseminated and stringer calcite and iron dolomite/ankerite than the mafic volcanic flows. The mafic tuffs were also noted to contain minor sections of argillaceous and graphitic material. These rocks contain up to 5 percent pyrrhotite and trace chalcopyrite, however, no quartz veining was noted.

The mafic agglomerates are grey-green in color and are comprised of small stretched fragments of calcite, sericite and chlorite in a graphitic argillaceous and chloritic matrix. Rare smoky quartz veining and locally up to 5 percent pyrite were observed.

The "G" Zone is hosted within the mafic volcanic section approximately 160 feet above the mafic volcanic/ultramafic contact. This unit is comprised of alternating sections of dull green carbonate, green carbonate and grey carbonate. Most notably this unit contains minor moderate quartz-carbonate veinlets and abundant (up to 10% pyrite) and trace to 2 percent arsenopyrite.

A thin 15.4 foot dull green carbonate unit was intersected just above the graphitic argillite/tuff unit. The dull green carbonate looks like a silicified weakly fuchsitic mafic flow. This unit is altered to calcite and iron dolomite/ankerite. Only trace pyrite was noted along with minor quartz gashes.

One 52.6 foot wide interval of graphitic argillite/tuff was intersected midway within the mafic volcanic section. These rocks are slightly silicified and strongly carbonatized to calcite and iron dolomite/ankerite. There are several graphitic-rich sections which contain up to 5 percent pyrite as laminations. No quartz veining was noted.

<u>Southern Ultramafic Unit</u>

The ultramafic rocks are comprised of weakly altered and moderately altered ultramafic flows and talc-carbonate schist with lesser carbonate rock, Mill Zone 2, interflow sediments, debris flows, mafic volcanic flows and mafic agglomerates.

The unaltered ultramafic flows are black to dark green in color and massive to weakly to locally strongly sheared. They also contain abundant calcite either as veinlets or coating polysuture rims. The rock is composed primarily of talc, serpentine and lesser chlorite. Thin intervals of argillite and mafic volcanic flows can occur.

The moderately altered ultramafic flows and carbonate rocks are just more carbonatized (iron carbonate/ankerite) varieties of the unaltered ultramafic rocks. Their color has changed to a buff grey to green to brown-green and they tend to be more sheared resulting in a more schistose appearance. These rocks also tend to contain more calcite and iron carbonate/ankerite veinlets and in places they host thin intervals of silicified and pyritized dull green carbonate. No quartz veining was noted with these rocks.

The talc-carbonate schist rocks are strongly sheared ultramafic rocks. They are black in color and consist of numerous thin alternating layers of talc-carbonate schist and calcite. No quartz veining or sulphide was noted.

Mill Zone 2 rock is hosted within the ultramafic rocks and approximately 25 feet from the ultramafic/mafic volcanic contact. This unit is comprised of massive, black, alternating layers of ultramafic/dull green carbonate and mafic volcanic flows. Contacts between the different rock types is gradational. These rocks contain minor to moderate quartz and quartz-carbonate veining and veinlets with trace to up to 2 percent pyrite.

The ultramafic hosted interflow sediments consist of interbedded siltstones, argillites, greywackes and conglomerate. The siltstones, argillites and greywackes are dull grey-green to grey-black to black, depending of graphite content, and massive to laminated to thinly bedded. Most top determinations indicate tops are downhole but some up-hole top determinations were made. These sediments often contain trace to up to 2 percent to 5 percent pyrite, pyrrhotite and chalcopyrite. The graphitic argillites were noted to be closely associated to and interbedded with debris flows and thin mafic flows.

The conglomerate is located toward the bottom of the ultramafic section. It is polymictic and contains slightly rounded to subrounded clasts of black talcose ultramafic, green mafic volcanic, pale rhyolitic tuff, reddish fine to medium grained sandstone in a matrix of green silty material. There is an increasing amount of siltstone, calcite and ultramafic fragments toward the bottom of this unit where it is in contact with an ultramafic flow.

The debris flows, mafic volcanic flows and mafic agglomerates tend to cluster together toward the center of the ultramafic sequence. These units are thin, less than 20 feet, compared to the ultramafic and interflow sedimentary units which can be 50 to >300 feet in width. The debris flows consist of angular to locally rounded fragments (up to 2 to 3 inches) of ultramafic and silicified mafic volcanic flows in a matrix of black argillite. The matrix contains 1 percent to 2 percent sedimentary pyrite. The mafic volcanic flows are dark green, massive to locally amygdaloidal and strongly magnetic. These units can have some interbedded sulphide-bearing interflow sediments and occasionally weakly mineralized quartz and calcite veins, up to 7 feet in width in one instance. There was only one 16.8 foot wide mafic agglomerate unit identified in this hole. This unit is strongly foliated and is comprised of dark grey/black talcose ultramafic, pale grey-green mafic volcanic and green to beige or grey silicified mafic volcanic in a medium green mafic volcanic matrix. Fragments are up to 3 inches in size. There is minor calcite veining but no sulphide was noted.

Southern Sediment/Volcanic Unit

Following the ultramafic sequence is a wide 104.4 foot section of interflow sediments which consist of interbedded greywacke, argillite and minor coarse wacke/tuff. These rocks are non to weakly calcitic with minor calcite veinlets and rare foliation parallel quartz veins. These rocks contain trace to locally 1 percent pyrite and pyrrhotite in thin lenses along bedding planes in the argillites. Top determinations indicate the younging direction is up-hole. The wacke/tuff contain 1 percent to 2 percent rounded lensoidal fragments of pale grey to purplish grey mafic volcanic.

The last sequence of rocks encountered at the bottom of the hole were mafic volcanic rocks consisting of lapilli tuff, ash tuff, tuffaceous greywacke, mafic volcanic flow, mafic agglomerate and minor interbedded graphitic argillite.

The lapilli tuff, ash tuff and tuffaceous greywacke comprise a single poorly bedded unit. The lapilli tuffs contain 5 percent to 20 percent lensoidal deformed fragments of grey to purplish grey mafic volcanic in a chloritized dark green ash matrix. The ash tuff/tuffaceous greywacke consists of poorly to non-bedded grey to green-grey tuff with occasional mafic fragments. These fragments are strongly calcitic while the matrix is weak to non-calcitic. There is trace to 0.5 percent disseminated pyrite and pyrrhotite associated with this unit.

The mafic volcanic flows, mafic agglomerates and minor graphitic argillite comprise the other units in this mafic volcanic section of rocks. As in the above these rock types are frequently interbedded with one another. The mafic volcanics are medium grey to grey-green and tend to frequently change from being texturally massive to agglomeratic. In one 8.5 foot wide unit the mafic volcanic was noted to be weakly ankeritic and fuchsitic with minor quartz-carbonate veinlets and trace to locally 1 percent pyrite. The agglomerates are characterized by fragments of mafic volcanic within a black argillaceous or chloritic matrix. The graphitic argillites are black, massive and contain locally 1 percent to 3 percent pyrite.

Fault Zones

Faulting is concentrated near the top of the Southern Ultramafic Group sequence from 1164.0 feet to 1318.0 feet. Three attempts were made, the last being successful, to get through the faulted, brecciated and gouge zones present within this interval.

Auriferous Zones

Two auriferous zones, the "G" Zone and Mill Zone 2, were intersected in C-25-2.

The "G" Zone returned 0.026 opt gold over 19.3 feet while the Mill Zone 2 intercept only returned an anomalous value of 0.005 opt gold over 39.2 feet.

The South Zone was expected at the bottom of the Southern Ultramafic Unit, however, no significant mineralization or alteration were intersected. It is assumed this hole drilled over or under the plunge extent of this mineralized alteration system.

C-25-3

This hole is located on the 2500 level of the Kerr Mine and at 4404.75N 3534.76E of the Kerr Mine geological grid. The drilling azimuth began at 154 degrees and the dip angle at minus 45 degrees. Final hole depth was 2736 feet. Drill core size was NQ for the entire length of the hole. The target was the Mill and South Zones.

C-25-3 is dominated by ultramafic flows from the collar to 400.5 feet, followed by mainly mafic volcanics to 1128.5 feet, then ultramafic flows and lesser mafic volcanics and grey/brown carbonate (South Zone) to 2585.3 feet and lastly interflow sediments/mafic tuffs to the bottom of the hole at 2736 feet.

Central Ultramafic Unit

The upper ultramafic sequence consists of moderately altered ultramafic flows with minor thin units of mafic flows. The ultramafics are dark grey to blue-black in color, massive to locally strongly foliated and often with abundant calcite veins and veinlets. Polysutures are observed occasionally. These ultramafics are weak to strongly altered to talc, chlorite, calcite and iron dolomite/ankerite. Chlorite-calcite alteration is pervasive through this section, with the addition of iron dolomite/ankerite toward the bottom. There are local areas of quartz and quartz-calcite or iron dolomite/ankerite veins, however, none were noted to be mineralized.

The mafic volcanic flows in this section of ultramafic rocks are dark grey or green to green-grey to brownish dark grey, massive and moderately to strongly altered to chlorite and locally siderite. These volcanics are also locally weak to strongly silicified and contain minor quartz-calcite and fewer quartz veinlets. Only trace to 1 percent to 2 percent pyrite and lesser pyrrhotite were observed in these rock types.

Massive Mafic Volcanic/Agglomerate Unit

Following the upper ultramafic sequence is a 728 foot sequence of alternating mafic tuffs, flows, flow breccia, hyaloclastite, variolitic flows and agglomerates. Thin units of ultramafic flows and interflow sediments also occur but are less frequent. The "G" Zone is also located within this mafic sequence approximately 170 feet from its contact with the lower ultramafic body.

The mafic tuffs are fine grained, dark green, massive tuffaceous rocks. These rocks are very chloritic and contain 2 percent to 3 percent calcite and quartz blebs and veins. Trace to 1 percent pyrite occurs as bands and aggregates along foliation/bedding planes.

Mafic flows are dark green, massive and chloritized. There is frequent local quartz-calcite and quartz stockworking and silicification present with trace to 2 percent pyrite.

The flow breccia's, hyaloclastite and variolitic flows are often found together. The flow breccia's are characterized by grey volcanic fragments in a chloritized glassy volcanic matrix while the hyaloclastite's consist of dark green chloritic shard-like fragments in a calcite to grey iron dolomite/ankerite matrix. The variolitic flows often occur adjacent to flow tops and contain 5 percent to 95 percent coalesced grey to purplish grey varioles of which some are zoned. All varioles are flattened to cigar shapes within the foliation plane. Calcite is the main carbonate alteration but iron dolomite/ankerite is observed to be associated with grey silicification. There is 1 percent quartz veining and veinlets and trace to 1 percent pyrite.

The mafic agglomerates were frequently found to be associated with interflow sediments and mafic flows. The agglomerates consist of grey (silicified?) fragments of mafic composition in a dark green/grey chloritic to locally weakly fuchsitic matrix. Fragments are less than 2 inches in size and are matrix supported. When the agglomerates are closely associated with the interflow sediments the matrix is usually graphitic and argillaceous.

The interflow sediments are comprised of graphitic argillite and siltstone. These sediments are dark grey to black in color, massive and mainly occur as matrix material to the agglomerates or as thin interflow units within the various mafic volcanic rock types. These rocks often contain 1 percent to 3 percent disseminated pyrite and a similar amount of quartz and quartz-carbonate veins and veinlets.

The "G" Zone is a mineralized grey to grey-green massive mafic volcanic flow. Alteration is associated with several grey quartz and iron carbonate/ankerite vein sets. The veins are generally less than 0.5 inches in width and locally reach 1 inch. Alteration consists of grey to locally purplish silicification and weak iron carbonate/ankerite. Mineralization occurs predominantly in the wallrock as disseminations of fine grained pyrite and lesser arsenopyrite. Some pyrite is present in the quartz and carbonate veins.

Southern Ultramafic Unit

Following the mafic volcanic sequence is a 1456.8 foot section of predominantly ultramafic rock and lesser mafic flows, tuff and agglomerates. Also part of this ultramafic section are two Mill Zone 2 intervals and a 130 foot wide zone of grey/brown to green carbonate and minor mafic flow which represents the South Zone. Interflow sediments form a minor part of this ultramafic sequence.

The ultramafic rock types encountered in this sequence are predominantly moderately altered flows with minor agglomerate, conglomerate and talc schist.

The moderately altered ultramafic flows are massive to locally strongly schistose, dark grey to green to blue-black in color and frequently cut by numerous foliation parallel calcite and quartz-calcite veinlets. There is also abundant calcite present in the groundmass. When the ultramafics appear green it is the result of minor fuchsite. Polysutures are often observed. The ultramafics are mainly altered to talc with less chlorite and biotite. Iron dolomite/ankerite was noted to replace calcite as the main carbonate mineral closer to the South Zone alteration system. The ultramafics do not contain many quartz veins and only locally trace to 1 percent pyrrhotite and/or pyrite.

The ultramafic agglomerates are comprised of 10 percent to 40 percent angular fragments of pale grey fine grained sediment, bleached mafic volcanic and talcose ultramafic in either a graphitic argillaceous, chloritic mafic volcanic or talcose ultramafic matrix. The fragments are up to several inches in length. No significant quartz veining or sulphide were noted in these rock types.

The ultramafic conglomerates resemble the ultramafic agglomerates but are distinctive in that they are characterized by subrounded to subangular fragments of reddish-brown to green mafic volcanic (10%-30%), black ultramafic (<5%) and grey chert (<1%) in a chloritic to weakly talcose ultramafic matrix. The clasts are matrix supported and up to several inches. These rocks have 1 percent to 5 percent calcite veinlets and trace pyrite.

The single talc schist unit encountered occurs from 1381 feet to 1428 feet. There are numerous faults and gouge material present here. We lost our original hole at 1400 feet but our second attempt at penetrating this zone was successful and the hole eventually completed its targeted depth.

The mafic tuffs, flows and agglomerates are the second most dominant rock types present in C-25-3. As in C-25-2 these rock types tend to cluster together near the center of the ultramafic body.

The mafic volcanic flows are dark green, massive to flow brecciated to locally variolitic and often strongly chloritized. These rocks can contain minor to moderate amounts of calcite and quartz-calcite veinlets with trace to 2 percent pyrite and pyrrhotite. Very rarely the mafic volcanic flows are silicified and mineralized. When silicified the flows are medium to dark grey to pale beige in color, non-foliated and often cut by 1 percent to 3 percent hairline dark grey quartz veinlets. These veinlets have bleached locally purplish silicification haloes (0.5 to 1 inch) which produce a pervasive alteration throughout most of the unit. Sulphide content varies from trace to up to locally 4 percent and consist of disseminated pyrite, pyrrhotite and arsenopyrite.

The mafic tuffs are not as common as the flows. They are medium green/grey in color and contain abundant laminae of graphitic argillite. Lapilli are rarely seen. These rocks are frequently found with mafic agglomerates and interflow sediments. Contacts between these units is often gradational.

The mafic agglomerates are comprised of angular grey mafic volcanic fragments in a matrix of either pale grey mafic volcanic or more commonly graphitic argillite. The fragments are often altered to leucoxene, fragment supported and up to several inches in size. These rocks contain minor quartz-carbonate veinlets and trace pyrite and pyrrhotite.

Interflow sediments which form a minor part of the ultramafic sequence consist of graphitic argillite, siltstone and greywackes. These sediments are fine grained to thinly bedded and weak to moderately graphitic. At times they were found with pulses of ultramafic flows. Folding shows axial planes are parallel to foliation. These rocks have minor calcite veinlets and trace to 1 percent pyrite.

The Mill Zone 2 intervals are located approximately 70 and 110 feet below the mafic/ultramafic contact. Both auriferous intervals are located in a ultramafic flow unit which is a calcitic, bleached and weakly fuchsitic. This unit contains 5 percent quartz-carbonate and quartz veins with 1 percent disseminated pyrite haloing the quartz veins.

The South Zone alteration system was intersected from 2401.0 feet to 2531 feet. It is comprised of ultramafic flows which have been intensely altered to massive to veined coarse crystalline grey/brown carbonate and minor green carbonate. The dominant carbonate mineral is iron dolomite/ankerite. Calcite is not present. Fuchsite is present in minor (dull green) to locally abundant amounts (emerald green). These fuchsitic zones contain minor to moderate, low angle, 1 to 3 inch white/grey quartz veins. Trace pyrite and chalcopyrite was noted in the quartz veins while trace to 2 percent pyrite was observed in the host rock.

Included within this carbonate altered section is a 13.4 foot unit of mineralized, silicified mafic flow/tuff with minor graphitic argillite. These rock types are frequently interbedded with one another. Bedding is parallel to foliation. The mafic flow/tuff is weak to non-foliated with local brecciated textures. Silicification in the mafic volcanics takes on a medium grey to purplish grey color. These silicified zones are often associated with pyrite mineralization in broad haloes around quartz veins and stockworks. Iron dolomite/ankerite with up to 4 percent pyrite and trace chalcopyrite is observed to rim some veins. Both ash and lapilli tuff were noted and show the younging direction to be downhole. The finer tuffs are thinly interbedded with graphitic argillite and may be reworked.

Southern Sediment/Volcanic Unit

The interflow sediments/tuffs were the last group of rocks to be intersected in this hole. These rocks consist of interbedded and reworked greywackes, mafic tuffs and graphitic argillite.

The interflow sediments consist of thick to thinly bedded medium grey, locally graded greywacke and graphitic argillite. Younging direction is shown to be up-hole. These sediments have trace to 1 percent disseminated pyrite.

The mafic tuffs are medium green to grey fine grained ash to lapilli tuffs. These are interbedded with several 1 to 2 inch bands of purplish, silicified tuff. Fragment size is fine to coarse. These rocks are weakly calcitic and locally contain 2 percent to 3 percent grey quartz veins and trace to locally 1 percent to 2 percent pyrite and pyrrhotite.

Fault Zones

Faulting is occasionally observed in this hole but is particularly abundant in the Southern Ultramafic Unit from 1381.0 feet to 1428.0 feet. It was within this interval a wedge had to be placed after loosing the first hole.

Auriferous Zones

Three auriferous intervals were intersected in C-25-3. These included the "G" Zone, Mill Zone 2 and South Zone.

The "G" Zone returned an average grade of 0.025 opt gold over 22.1 feet while the Mill Zone 2 returned two intervals which ran 0.034 opt gold over 9.1 feet and 0.05 opt gold over 4.5 feet.

The grey/brown to green carbonate in the South Zone is not anomalous in gold, however, the mafic volcanic returned a grade of 0.027 opt gold over 13.4 feet.

C-25-4

This hole is located on the 2500 level of the Kerr Mine and at 4405.30N 5016.90E of the Kerr Mine geological grid. Drilling azimuth began at 180 degrees and a dip angle of minus

55 degrees. Final hole depth was 624.0 feet. The entire length of the hole was drilled with BQ core. The target was the Mill Zone.

The majority of the hole intersected mafic volcanics from the collar to 484.6 feet followed by moderately altered ultramafics to the end of the hole at 624.0 feet.

Massive Mafic Volcanic/Agglomerate Unit

The mafic volcanics consist of flows, flow breccia/hyaloclastite and agglomerates. Also included in this section are the occasional thin unit of ultramafic flow and graphitic argillite. The "G" Zone and Mill Zone 1 horizon are hosted within this mafic volcanic sequence.

The mafic volcanic flows are medium grey to grey-green, massive to brecciated and weak to moderately calcitic. The flows are frequently mixed with flow top breccia/hyaloclastite and minor agglomerate. When brecciated the fractures in the mafic volcanic are filled with dark grey argillaceous and chloritic material. These rocks contain trace to 3 percent calcite and quartz veins and veinlets with trace to locally up to 5 percent wisps and stringers of either pyrrhotite and pyrite and/or arsenopyrite.

The flow breccia/hyaloclastite are dark green, massive and chloritized. These rocks may contain <1% disseminated pyrite.

The agglomerates consist of medium grey sub-rounded to sub-angular mafic fragments in a argillaceous matrix.

The mafic volcanic hosted ultramafics are grey to grey-green and strongly foliated rocks which are strongly calcitic and locally weak to moderately biotitic and chloritic. Calcite veins can comprise up to 30 percent of the rock at times. Some flows do not contain any sulphide while others contain trace to 2 percent pyrite.

The "G" Zone is a thin unit of mafic volcanic flow approximately 110 feet above the mafic/ultramafic contact. Only patchy calcite alteration was noted including trace to 2 percent pyrite and 1 percent pyrrhotite.

The Mill Zone 1 horizon is located directly at the mafic/ultramafic contact. This unit is a medium green-grey to grey, massive mafic volcanic flow which has been moderately to strongly altered to calcite and iron dolomite/ankerite. Local silicification is grey in color and is associated with disseminated arsenopyrite, pyrite and grey iron dolomite/ankerite quartz veins. Sulphide content ranges from trace to locally up to 5 percent pyrite.

<u>Southern Ultramafic Unit</u>

The majority of the ultramafic section in this hole consists of altered grey, brown and dull green carbonate. There is also a thin unit of moderately altered ultramafic flow.

The grey carbonates are noted to be more chloritic than the other alteration types. They contain 5 percent grey quartz-iron dolomite/ankerite veins and 1 percent to 2 percent pyrite as haloes around the veins.

The moderately altered ultramafic flow is strongly altered to iron dolomite/ankeritic and weakly silicified. This unit is dull green-grey to grey in color, weak to moderately foliated to banded with 5 percent to 10 percent grey iron dolomite/ankerite veinlets and up to 20 percent grey quartz veins. Sulphide content is from trace to locally up to 5 percent pyrite and trace arsenopyrite.

The dull green carbonates appear to be weakly fuchsitic altered grey carbonate. This unit has 5 percent to 10 percent grey iron dolomite/ankerite-quartz veinlets with 1 percent to 2 percent pyrite as haloes.

Brown carbonate has a drab grey-brown color and is moderately foliated. The brown color is caused by lamellae/foliation planes of dark brownish mica (biotite?). There is <1% quartz veining and nil to trace pyrite.

<u>Fault Zones</u>

No significant faulting was noted in this hole.

<u>Auriferous Zones</u>

No significant values were encountered in the "G" Zone, however, a average grade of 0.037 opt gold over 28.0 feet was encountered in the Mill Zone 1 intercept. This includes higher grade intervals of 0.075 opt over 5.2 feet and 0.116 opt over 1.8 feet.

The Mill Zone 2 intercept returned an average grade of 0.01 opt gold over 45.0 feet.

APPENDIX 5

1992 DIAMOND DRILL LOGS

C-13-1 TO 3, C-20-1, C-25-1 TO 4

APPENDIX 5

1992 DIAMOND DRILL LOGS

C-13-1 TO 3, C-20-1, C-25-1 TO 4

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine	GRID COORDINATE 5180.12N 6468.32E	STARTED August 17, 1992	DIP AND BEARING TEST					
			FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING
HOLE NO. C-13-1		FINISHED August 21, 1992	100	-62°	087°	507	-53°	100°
BEARING 088°	ELEVATION -1300	LENGTH 632'	312	-58°	093°	600	-52°	102°
DIP COLLAR -65°	SECTION	LOGGED BY Kenneth Guy	412	-55°	095°			

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppm)	Au (opt)			
		SUMMARY											
0	3.5	CASING											
3.5	43.0	BASALT FLOW - FE THOLEIITE											
43.0	59.5	MAFIC AGGLOMERATE											
59.5	68.3	BASALT FLOW - FE THOLEIITE											
68.3	177.0	MAFIC AGGLOMERATE											
177.0	311.5	ULTRAMAFIC											
311.5	317.0	WEAK GREEN CARBONATE - SILICIFIED ZONE											
317.0	322.0	ULTRAMAFIC											
322.0	342.7	MINERALIZED GREY CARBONATE - MAFIC VOLCANIC											
342.7	385.5	GREY CARBONATE - ULTRAMAFIC TO MAFIC											
385.5	394.7	DULL GREY CARBONATE - ULTRAMAFIC											
394.7	399.0	MINERALIZED GREY CARBONATE											
399.0	415.0	DULL GREEN CARBONATE ULTRAMAFIC											
415.0	435.8	ULTRAMAFIC FLOW											
435.8	445.6	MILL ZONE 2 - MINERALIZED BLACK CARBONATE											
445.6	456.0	ULTRAMAFIC											
456.0	472.0	GREY CARBONATE - ULTRAMAFIC											
472.0	531.0	ULTRAMAFIC FLOW											
531.0	565.0	TALC CARBONATE SCHIST											
565.0	632.0	ULTRAMAFIC FLOW											
	632.0	END OF HOLE											

CYPRUS GOLD (Canada) Ltd.

PROPERTY	GRID COORDINATE	STARTED	DIP AND BEARING TEST					
			FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING
HOLE NO. C-13-1		FINISHED						
BEARING	ELEVATION	LENGTH						
DIP COLLAR	SECTION	LOGGED BY						

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
0	3.5	**CASING**											
3.5	43.0	**BASALT FLOW - FE THOLEIITE**			61801	3.5	6.5	3.0	480				
		- dark green to grey black colour			61802	6.5	9.0	2.5	220				
		- flow textured, occasional pillow selvages, flow breccia			61803	9.0	11.5	2.5	700		690		
		- carbonatized, Fe dolomite			61804	11.5	18.0	6.5	310				
		- calcite rich selvage, interflow sections, black chlorite			61805	18.0	22.3	4.3	340				
		- sections of fine-grained, disseminated, euhedral pyrite			61806	22.3	27.0	4.7	95				
		3.5 to 6.5 - 10 to 15% f.g. py			61807	31.0	36.0	5.0	94				
		9.0 to 11.5 - 5 to 10% f.g. py											
		18.0 to 22.3 - 5% f.g. py											
		- schistosity at 45° to C.A.											
43.0	59.5	**MAFIC AGGLOMERATE**			61808	43.0	48.5	5.5	38				
		- dark grey-black colour			61809	48.5	55.0	6.5	630		620		
		- fragments are sericite, Fe dolomite rich, 0.2 cm to 10 cm											
		- matrix is gf, chlorite, calcite rich											
		- rock is 80% fragments											
		- schistosity at 40° to C.A.											
		48.5 to 55.0 - 5 to 10% f.g. disseminated euhedral py, qtz-calcite veinlets at 10 to 20° to C.A.											
59.5	68.3	**BASALT FLOW - FE THOLEIITE**											
		- dark green to grey black colour			61810	63.5	66.0	3.0	41				
		- massive, homogenous											
		- amygdaloidal, calcite filled											
		64.0 to 65.0 - interflow, fractured, gf, 5 to 10% py, 45° to C.A.											
		- schistose at 45° to C.A.			61811	66.0	68.3	2.3	7				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-13-1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
68.3	177.0	**MAFIC AGGLOMERATE**			61812	68.3	72.0	3.7	5				
		- as above but not homogenous, many thin flow and interflow sections			61813	72.0	77.0	5.0	48				
		- interflow sections are well bedded, 45° to C.A., cherty, Fe dolomite			61814	87.0	92.0	5.0	4				
		- flow sections are massive, medium-grained, occasional selvages or cooling fractures, gf filled			61815	100.0	107.0	7.0	12				
		- matrix is gf, black chlorite			61816	113.0	117.0	4.0	81				
		68.3 to 70.0 - small fragmental agglomerate, 5% py			61817	121.0	127.0	6.0	7				
		- increasing calcite, decreasing Fe dolomite downhole			61818	137.0	142.0	5.0	5				
		92.0 to 150.0 - less gf, matrix, larger fragments, more flow, massive			61819	147.0	152.0	5.0	2				
		- from 117.0 mostly calcite with occasional ferrodolomite			61820	152.0	157.0	5.0	2				
		150.0 to 165.0 - gf rich matrix section, 10 to 20% gf, matrix			61821	157.0	162.0	5.0	5				
		160.0 - 50° to C.A.			61822	162.0	167.0	5.0	9				
		175.2 to 175.4 - py, po laminations			61823	167.0	172.0	5.0	24				
		177.0 to 183.0 - talcose fragments in Fe dolomite matrix			61824	172.0	177.0	5.0	4				
177.0	311.5	**ULTRAMAFIC**			61825	177.0	183.0	6.0	5				
		- dark green to black colour			61826	183.0	188.0	5.0	7				
		- serpentine, talc, calcite			61827	188.0	194.0	6.0	4				
		- schistose at 50° to C.A.			61828	202.0	207.0	5.0	3				
		177.0 to 183.0 - UM agglomerate, buff brown colour, Fe dolomite, talc			61829	212.0	217.0	5.0	4				
		- from 183.0 calcite rich, mostly in laminations and/or fractures, polysutures			61830	222.0	227.0	5.0	4				
		- increasing talc downhole to 206.0			61831	232.0	237.0	5.0	3				
		206.0 to 217.0 - talc schist, schistosity at 55° to C.A.			61832	237.0	242.0	5.0	4				
		- from 222.0 to 235.0 - rock is mostly talc, extremely soft, with calcite fractures, polysutures			61833	247.0	252.0	5.0	6				
		235.0 to 250.0 - talc serpentine, polysutures, calcite, harder than surrounding rock			61834	257.0	262.0	5.0	2				
		250.0 to 285.0 - talcose, extremely soft, soapstone			61835	267.0	272.0	5.0	<1				
		- from 285.0 downhole carbonate is mostly Fe dolomite, decrease in calcite			61836	277.0	282.0	5.0	10				
					61837	287.0	292.0	5.0	11				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-13-1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
					61838	297.0	302.0	5.0	<1				
					61839	302.0	307.0	5.0	8				
					61840	307.0	311.5	4.5	25				
311.5	317.0	**WEAK GREEN CARBONATE, SILICIFIED ZONE**			61841	311.5	315.0	3.5	59				
		- pale green to grey-brown colour			61842	315.0	317.0	2.0	32				
		- carbonatized, Fe dolomite											
		- silicified, pervasive qtz stringers and veinlets											
		- 5% fuchsite sections											
		- 5% random qtz veins											
317.0	322.0	**ULTRAMAFIC**											
		- as before			61843	317.0	319.0	2.0	68				
		- talc, Fe dolomite			61844	319.0	322.0	3.0	180		170		
		319.0 to 322.0 - 15% qtz carbonate veinlets, random orientation											
322.0	342.7	**MINERALIZED GREY CARBONATE - MAFIC VOLCANIC**			61845	322.0	325.3	3.3	160				
		- grey to dark grey colour			61846	325.3	329.0	3.7	>1000	0.055			
		- massive to slight schistosity at 45° to C.A.			61847	329.0	332.0	3.0	>1000	0.100			
		- rock is medium-grained, 80% Fe dolomite			61848	332.0	337.0	5.0	>1000	0.041			
		- sericitic			61849	337.0	342.7	5.7	>1000	0.250			
		-15 to 20% fine-grained, disseminated py, tr cpy											
		322.0 to 325.3 - 30% random qtz veins											
		325.3 to 332.0 - 20% random qtz veins											
		332.0 to 342.7 - massive, homogenous, occasional qtz-cb veinlet											
342.7	385.5	**GREY CARBONATE - ULTRAMAFIC TO MAFIC**											
		- light grey to dark grey colour			61850	342.7	349.0	6.3	38				
		- medium to coarse-grained, 80% Fe dolomite			61851	349.0	354.0	5.0	24				
		- occasional serpentine stringers			61852	354.0	357.5	3.5	110				
		354.0 to 357.5 - 30% white/grey qtz veins			61853	357.5	363.0	5.5	54				
		357.5 to 363.0 - 30% grey to smoky qtz veins			61854	363.0	369.5	5.5	20				
		363.0 to 369.5 - 30% white to grey to smoky qtz veins			61855	369.5	376.0	6.5	5				
		- from 369.5 massive, homogenous, schistose at 45° to C.A.			61856	376.0	381.0	5.0	16				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-13-1

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		380.0 - 4" smoky qtz-cb vein at 20° to C.A.			61857	381.0	385.5	4.5	110				
385.5	394.7	**DULL GREEN CARBONATE - ULTRAMAFIC**											
		- pale green to grey-green colour			61858	385.5	388.0	2.5	650		680		
		- fractured			61859	388.0	392.0	4.0	240				
		- highly carbonatized - Fe dolomite			61860	392.0	394.7	2.7	110				
		- 2 to 5% fuchsite usually in qtz veined sections											
		- random qtz-cb veins throughout, 10%											
		385.5 to 387.4 - smoky qtz-cb vein at 30° to C.A.											
394.7	399.0	**MINERALIZED GREY CARBONATE**											
		- black-grey colour			61861	394.7	399.0	4.3	>1000	0.056			
		- darker colour than earlier section											
		- calcite rich											
		- 10% py, f.g., disseminated											
		- 15% random qtz veins <1 cm											
		- much harder than DGC											
399.0	415.0	**DULL GREEN CARBONATE- ULTRAMAFIC**											
		- pale green to grey-green colour			61862	399.0	403.0	4.0	330				
		- as above			61863	403.0	407.0	4.0	60				
		- massive, slight schistosity at 45° to C.A.			61864	407.0	411.0	4.0	85				
		- 2 to 5% qtz-cb veinlets			61865	411.0	415.0	4.0	190				
		- tr py usually associated with fuchsite, qtz veinlets randomly throughout section											
415.0	435.8	**ULTRAMAFIC FLOW**											
		- dark green, grey, black colour			61866	415.0	419.0	4.0	89				
		- talcose, carbonatized-calcite			61867	419.0	423.0	4.0	16				
		- intervals of talc-serpentine alternating with sections of carbonate, primarily calcite with slight Fe dolomite			61868	423.0	427.0	4.0	32				
		- fairly massive with polygonal jointing defined by serpentine-calcite			61869	427.0	431.0	4.0	9				
		- 5 to 10% carbonate laminae			61870	431.0	435.8	4.8	25				
		427.0 to 431.0 - dull green carbonate											
435.8	445.6	**MILL ZONE 2 - MINERALIZED BLACK CARBONATE**											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-13-1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- black massive to slightly schistose rock with 10 to 20% randomly oriented qtz-cb veins and veinlets, 10 to 20% local py			61871	435.8	437.7	1.9	69				
		- fine-grained			61872	437.7	440.0	2.3	>1000	0.067			
		- calcite rich			61873	440.0	443.0	3.0	>1000	0.130			
		- 10% py disseminated throughout with up to 20% py halo around randomly oriented qtz-cb veins			61874	443.0	445.6	2.6	200				
		- tr f.g. aspy											
		- HCL bleaches rock to a grey colour therefore black colour possible due to Fe carbonate-siderite											
		435.8 to 437.7 - 10% qtz-cb veinlets to 1 cm, 5% py											
		437.7 to 443.0 - 20% qtz-cb veinlets, gashes to 3 cm, 15-20% py, tr aspy											
		443.0 to 445.6 - 10% qtz-cb veinlets to 2 cm, 2% py											
445.6	456.0	**ULTRAMAFIC**											
		- dark green colour			61875	445.6	450.0	4.4	42				
		- fractured with many carbonate, serpentine veinlets in random orientation			61876	450.0	453.0	3.0	5				
		- talc, serpentine, Fe dolomite			61877	453.0	456.0	3.0	9				
456.0	472.0	**GREY CARBONATE - ULTRAMAFIC**											
		- light grey to buff grey colour			61878	456.0	458.5	2.5	3				
		- massive to slightly schistose, homogenous			61879	458.5	462.0	3.5	5				
		- schistosity at 45° to C.A.			61880	462.0	467.0	5.0	10				
		- carbonate are both calcite and Fe dolomite			61881	467.0	472.0	5.0	9				
		458.5 to 462.0 - weak DGC, 2 to 5% fuchsite											
		465.0 to 466.0 - weak DGC											
		- increasing Fe dolomite, decreasing calcite downhole											
472.0	531.0	**ULTRAMAFIC FLOW**											
		- dark green, grey, buff colour			61882	472.0	477.0	5.0	13				
		- talc, serpentine, Fe dolomite			61883	477.0	479.5	2.5	1100		710		
		- polygonal jointing, polysutures			61884	479.5	484.0	4.5	100				
		477.0 to 479.5 - weak DGC, 5% qtz vein, 2% py			61885	484.0	489.0	5.0	5				
		489.0 to 494.0 - weak DGC, tr py			61886	489.0	494.0	5.0	430		370		

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-13-1

FOOTAGE From	FOOTAGE To	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	FOOTAGE LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		494.0 to 504.5 - fractured, brecciated, 5% qtz veins, tr py			61887	494.0	497.0	3.0	290				
		- schistosity increasing downhole, 40° to C.A.			61888	497.0	501.5	4.5	180				
					61889	501.5	504.5	3.0	330				
					61890	504.5	512.0	7.5	93				
					61891	517.0	522.0	5.0	7				
					61892	527.0	532.0	5.0	5				
531.0	565.0	**TALC-CARBONATE SCHIST**											
		- alternating black, talc-serpentine, and white, calcite, intervals			61893	537.0	542.0	5.0	3				
		- very schistose at 35 to 55° to C.A., 45° is most prevalent			61894	552.0	559.0	7.0	1				
		- very soft, broken, blocky core											
		- slightly sheared appearance but no gouge											
565.0	632.0	**ULTRAMAFIC FLOW**			61895	567.0	572.0	5.0	1				
		- dark green to black colour			61896	577.0	582.0	5.0	<1				
		- polygonal jointing, polysutures, selvages constitute 40% of rock and are calcite, remaining rock is talc, serpentine			61897	587.0	592.0	5.0	<1				
					61898	597.0	602.0	5.0	<1				
					61899	607.0	612.0	5.0	<1				
					61900	617.0	622.0	5.0	1				
					61901	627.0	632.0	5.0	8				
	632.0	**END OF HOLE**											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine	GRID COORDINATE 5171.53N 6447.78	STARTED: August 24, 1992	DIP AND BEARING TEST											
			FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING
HOLE NO. C-13-2	ELEVATION -1300	FINISHED: August 31, 1992	100	-67.5°	205	467	-66.5°	203	777	-66°	199			
BEARING 200°	SECTION	LENGTH: 990'	200	-68°	205	562	-64°	200	877	-64°	197			
DIP COLLAR -70°	STORAGE	LOGGED BY: Kenneth Guy	307	-65°	202	662	-64°	199	990	-63°	198			

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		SUMMARY											
0	4.0	CASING											
4.0	50.6	MAFIC VOLCANIC FLOW - FE THOLEIITE											
50.6	99.0	MAFIC AGGLOMERATE - FE THOLEIITE											
99.0	118.0	MAFIC FLOW - FE THOLEIITE											
118.0	151.3	MAFIC AGGLOMERATE - FE THOLEIITE											
151.3	172.0	MINERALIZED MAFIC FLOW - FE THOLEIITE											
172.0	327.0	MAFIC AGGLOMERATE - FE THOLEIITE											
327.0	443.0	ULTRAMAFIC											
443.0	450.0	DULL GREEN CARBONATE - ULTRAMAFIC											
450.0	483.5	GREY CARBONATE - MAFIC - UM FLOW											
483.5	523.0	DULL GREEN CARBONATE - UM											
523.0	555.0	ALTERED CARBONATE - UM											
555.0	622.0	ULTRAMAFIC - TCS											
622.0	658.6	CHLORITE-CARBONATE SCHIST - UM											
658.6	675.5	GREEN CARBONATE - UM											
675.5	695.5	GREY CARBONATE - UM											
695.5	723.5	GREEN TO BROWN CARBONATE - UM											
723.5	763.0	DULL GREEN CARBONATE - UM											
763.0	783.5	MINERALIZED GREY CARBONATE											
783.5	796.0	MILL ZONE 2 - MINERALIZED SILICIFIED ZONE											
796.0	809.0	BROWN CARBONATE - UM											
809.0	862.0	MILL ZONE 2 - MINERALIZED GREY CARBONATE - UM											
862.0	870.5	CHLORITE - CALCITE SCHIST											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine	GRID COORDINATE	STARTED	
HOLE NO. C-13-2		FINISHED	
BEARING	ELEVATION	LENGTH	
DIP COLLAR	SECTION	LOGGED BY	

DIP AND BEARING TEST

FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
870.5	887.0	ULTRAMAFIC FLOW											
887.0	942.0	TALC CARBONATE SCHIST											
942.0	990.0	TALC CARBONATE FLOW											
	990.0	END OF HOLE											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-13-2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
0	4.0	CASING											
4.0	50.6	MAFIC VOLCANIC FLOW - FE THOLEIITE			61902	4.0	13.0	9.0	>1000	0.038			
		- dark green to grey colour			61903	13.0	18.0	5.0	>1000	0.047			
		- flow textured, pillow selvages, flow breccia, amygdaloidal			61904	18.0	24.0	6.0	200				
		- schistosity at 25° to C.A.			12701	24.0	30.0	6.0	538				
		- occasional agglomerate or flow breccia sections			12702	30.0	35.0	5.0	183				
		- carbonatized, mostly calcite with occasional Fe dolomite sections			12703	35.0	41.0	6.0		0.021			
		- interflow, pillow selvages, flow breccia sections are often sericite, Fe dolomite rich with py, grey to buff colour			61905	41.0	47.0	6.0	250				
		4.0 to 13.0 - 4' of ground core			61906	47.0	50.6	3.6	740				
		13.0 to 18.0 - bleached, sericite, calcite 5% v.f.g. py, tr aspy											
50.6	99.0	MAFIC AGGLOMERATE - FE THOLEIITE			61907	50.6	57.0	6.4	1000				
		- dark green to grey colour			61908	64.0	68.0	4.0	850				
		- fragments are grey colour, sericite, Fe dolomite - matrix is black to dark green colour, chlorite, argillite, occasionally slightly graphitic, calcite			61909	75.0	80.0	5.0	910				
		- sections of Fe dolomite, sericite, py-bleached			61910	80.0	85.0	5.0	480				
		- fragments vary from 1cm to 20cm, elongated in plane of schistosity, 25° to C.A.			61911	91.0	94.0	3.0	180				
					61912	97.0	99.0	2.0	640				
99.0	118.0	MAFIC FLOW - FE THOLEIITE			61913	103.0	107.0	4.0	54				
		- dark green to grey colour			61914	115.0	118.5	3.5	380				
		- massive to schistose											
		- occasional pillow selvages, flow breccia, agglomerate											
		- Fe dolomite, calcite											
		- sections of sericite, Fe dolomite with 5-10% py, tr aspy											
		103.0 to 107.0 - well laminated, tuffaceous sections, 25° to C.A., 15% py											
		115.0 to 118.5 - bleached section, 10% py, tr aspy											
118.0	151.3	MAFIC AGGLOMERATE - FE THOLEIITE			61915	120.5	125.5	5.0	100				
		- as above			61916	132.0	137.0	5.0	35				
		- mostly clasts, little matrix			61917	142.0	147.0	5.0	77				
		- matrix is chloritic, dark green, not gf argillite, black			61918	147.0	151.3	4.3	100				

CYPRUS GOLD (Canada) Ltd.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
151.3	172.0	**MINERALIZED MAFIC FLOW - FE THOLEIITE**			61919	151.3	156.0	4.7	>1000	0.042			
		- dark green to grey colour			61920	156.0	158.8	2.8	530				
		- massive, homogenous			61921	158.8	164.0	5.2	150				
		- occasional agglomerate or flow breccia sections			61922	164.0	168.0	4.0	250				
		- many qtz fractures at random orientation, 30 to 80° to C.A.			61923	168.0	172.0	4.0	>1000	0.030			
		151.3 to 158.8 - 10% py, 5% qtz veins, tr aspy											
		157.0 to 157.5 - smoky qtz vein at 70° to C.A.											
		158.8 to 168.0 - 5% py											
		168.0 to 172.0 - 10% py, 5% qtz, tr aspy											
172.0	327.0	**MAFIC AGGLOMERATE - FE THOLEIITE**			61924	172.0	177.0	5.0	110				
		- dark green colour			61925	179.0	180.5	1.5	10				
		- as above but more matrix component			61926	186.0	192.0	6.0	4				
		- matrix is black chlorite, gf argillite			61927	197.0	202.0	5.0	2				
		- clasts are Fe dolomite rich, matrix calcite			61928	207.0	212.0	5.0	1				
		179.9 - 2cm smoky qtz vein at 70° to C.A., py			61929	217.0	222.0	5.0	2				
		- increasing calcite downhole			61930	227.0	232.0	5.0	2				
		226.0 to 232.0 - tuffaceous section			61931	237.0	242.0	5.0	3				
		242.0 to 243.5 - f.g. mafic dyke			61932	248.0	252.0	4.0	21				
		248.0 to 252.0 - 2% py in veinlets and gf matrix			61933	256.0	260.0	4.0	19				
		252.0 to 256.0 - volcaniclastic sediment, v.f.g, well laminated at 25° to C.A., chloritic, slightly graphitic argillite, calcite rich			61934	272.0	277.0	5.0	2				
		256.0 to 260.0 - very chloritic clasts, 2% py			61935	282.0	287.0	5.0	13				
		- from 260.0' clasts are smaller, chloritic, matrix strongly calcitic, argillaceous, well laminated at 25° to C.A.			61936	292.0	297.0	5.0	29				
		- from 300.0' C.A. decreases to 10° to C.A. at 315.0'			61937	305.0	310.0	5.0	76				
					61938	322.0	327.0	5.0	4				
327.0	443.0	**ULTRAMAFIC**			61939	332.0	337.0	5.0	3				
		- breccia, agglomerate, flow			61940	342.0	347.0	5.0	4				
		- grey green colour			61941	352.0	357.0	5.0	2				
		- highly carbonatized - calcite as veinlets and disseminated			61942	367.0	372.0	5.0	3				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-13-2

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- carbonate (calcite), serpentine, talc, chlorite			61943	382.0	387.0	5.0	23				
		- at 327.0' 15° to C.A. increasing to 25° to C.A. at 350.0'			61944	392.0	397.0	5.0	4				
		- increasing talc, serpentine, decreasing calcite downhole			61945	402.0	409.0	7.0	210				
					61946	417.0	422.0	5.0	4				
					61947	432.0	437.0	5.0	5				
					61948	437.0	443.0	6.0	41				
443.0	450.0	**DULL GREEN CARBONATE - ULTRAMAFIC**			61949	443.0	447.0	4.0	71				
		- pale dull green colour			61950	447.0	450.0	3.0	140				
		- many random calcite veinlets											
		- silicified, carbonatized-calcite, Fe dolomite											
450.0	483.5	**GREY CARBONATE - MAFIC-ULTRAMAFIC FLOW**			61951	450.0	453.3	3.3	76				
		- grey colour			61952	453.3	455.5	2.2	94				
		- massive, homogenous			61953	455.5	459.0	3.5	>1000	0.038			
		- calcite, albite, quartz, sericite			61954	459.0	462.5	3.5	370				
		- cooling textures, selvages polygonal jointing			61955	462.5	468.4	5.9	230				
		- occasional dark green chloritic sections			61956	468.4	472.5	4.1	400				
		450.0 to 453.3 - 5% py, occasional qtz			61957	472.5	476.0	3.5	400				
		453.3 to 455.5 - tr py			61958	476.0	479.1	3.1	290				
		455.5 to 459.0 - 5% py, 10% qtz vein			61959	479.1	483.5	4.4	350				
		459.0 to 462.5 - 5% py, 2% qtz											
		- py is associated with qtz veining, halo of up to 3 cm											
		450.0 to 462.5 - is hard, silicified, massive											
		462.5 to 468.4 - dark green, softer, chloritic, Fe dolomite, tr py											
		468.4 to 468.9 - smoky qtz vein, tr py halo											
		468.4 to 483.5 - grey, hard, siliceous with occasional chloritic sections											
		471.6 to 472.2 - smoky qtz vein, py halo											
		472.5 to 476.0 - massive homogenous, tr py											
		476.0 to 479.1 - tr py											
		479.1 to 483.5 - 10% qtz vein, 5% py											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-13-2

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
483.5	523.0	**DULL GREEN CARBONATE - UM**			61960	483.5	487.0	3.5	14				
		- dull to emerald green colour			61961	487.0	492.0	5.0	70				
		- schistose at 25° to C.A.			61962	492.0	497.0	5.0	300				
		- laminations of fuchsite rich carbonate, Fe dolomite			61963	497.0	502.0	5.0	64				
		- qtz, carbonate laminae, Fe dolomite, calcite			61964	502.0	506.5	4.5	120				
		- tr py			61965	506.5	511.0	4.5	160				
		- carbonate polygonal jointing			61966	511.0	515.2	4.2	360				
		- rock is quite hard but softer than grey cb above			61967	515.2	519.0	3.8	200				
		502.0 to 511.0 - 30% qtz veining, brecciation, random orientation but most at 20 to 45° to C.A., 2% py with local concentration to 5%			61968	519.0	523.0	4.0	910				
		515.2 to 523.0 - grey carbonate, green carbonate, 50% qtz, 15% py											
523.0	555.0	**ALTERED CARBONATE - UM**			61969	523.0	527.0	4.0	550				
		- pale green, white to grey colour			61970	527.0	532.0	5.0	250				
		- more intensely altered carbonate rock			61971	532.0	537.0	5.0	130				
		- Fe dolomite, albite, qtz, sericite, fuchsite			61972	537.0	542.0	5.0	230				
		- polygonal jointing			61973	542.0	547.0	5.0	23				
		- schistose at 35° to C.A.			61974	547.0	552.0	5.0	80				
		- bleached sections are Fe dolomite, albite, qtz			61975	552.0	555.0	3.0	120				
		523.0 to 538.0 - pale green, tr fuchsite											
		538.0 to 547.0 - white, bleached, albitized											
		547.0 to 555.0 - alternating pale green and bleached/buff sections											
555.0	622.0	**ULTRAMAFIC - TCS**			61976	555.0	562.0	7.0	33				
		- dark green to black colour			61977	572.0	577.0	5.0	<1				
		- very soft, talcose			61978	587.0	592.0	5.0	<1				
		- 40° calcite laminae			61979	602.0	607.0	5.0	<1				
					61980	617.0	622.0	5.0	2				
622.0	658.6	**CHLORITE-CARBONATE SCHIST - UM**			61981	632.0	637.0	5.0	38				
		- dark green colour			61982	647.0	652.0	5.0	14				
		- chlorite, calcite, talc			61983	652.0	658.6	6.6	6				
		- calcite as laminae and disseminated with chlorite											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-13-2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		- harder than above											
		- from 650.0 increasing Fe dolomite replacing calcite											
658.6	675.5	**GREEN CARBONATE - UM**			61984	658.6	662.0	3.4	22				
		- dull green to emerald green colour			61985	662.0	667.0	5.0	150				
		- many qtz cb veinlets at random orientations			61986	667.0	672.0	5.0	73				
		- green carbonate breccia texture			61987	672.0	675.5	3.5	48				
		- polysutures											
		- Fe dolomite, fuchsite, sericite											
		- Fe dolomite in veinlets and disseminated throughout											
		- tr py											
675.5	695.5	**GREY CARBONATE - UM**			61988	675.5	679.0	3.5	200				
		- dark grey colour			61989	679.0	683.0	4.0	300				
		- Fe dolomite, chlorite, gf, biotite			61990	683.0	687.0	4.0	69				
		- graphite in seams and disseminated to 5%			61991	687.0	691.7	4.7	340				
		- schistose at 35° to C.A.			61992	691.7	693.0	1.3	>1000	0.110			
		- sharp upper contact at 35° to C.A.			61993	693.0	695.5	2.5	>1000	0.06			
		675.5 to 683.0 - 10% qtz vein, 10% py, 1% aspy - sulphide halo veins											
		683.0 to 691.7 - occasional qtz veins, 5% disseminated py											
		691.7 to 695.5 - 15% qtz vein, 10% py, 2% aspy - sulphides to 15% halo veins and disseminated throughout											
		691.5 to 692.0 - smoky qtz vein at 80° to C.A., qtz veinlets off vein and py, aspy halo for 0.5 feet											
		694.6 - 0.1 smoky qtz vein at 70° to C.A., py, aspy halo											
695.5	723.5	**GREEN TO BROWN CARBONATE - UM**			61994	695.5	699.0	3.5	290				
		- pale, dull green to brown colour			61995	699.0	703.0	4.0	570				
		- UM flow, polysutures, spinifex			61996	703.0	707.0	4.0	39				
		- rock is mostly Fe dolomite with fuchsite (green colour), albite, sericite (yellow to brown colour)			61997	707.0	712.0	5.0	96				
		- green carbonate at top of unit to yellow to brown			61998	712.0	717.0	5.0	180				
					61999	717.0	723.5	6.5	160				
723.5	763.0	**DULL GREEN CARBONATE - UM**			62000	723.5	727.0	3.5	22				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-13-2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		- slight emerald green to dull green colour			62001	727.0	732.0	5.0	32				
		- schistose at 30° to C.A.			62002	732.0	737.5	5.5	52				
		- Fe dolomite, quartz, fuchsite, sericite			62003	737.5	740.2	2.7	190				
		- schistosity defined by quartz laminae			62004	740.2	744.4	4.2	470				
		- occasional qtz veinlets, gashes with py haloes			62005	744.4	748.0	3.6	350				
		741.5 - tr cpy with py in qtz gash			62006	748.0	751.5	3.5	120				
		- qtz gashes and siliceous sections have disseminated yellow-brown sericite			62007	751.5	753.5	2.0	520				
		757.8 to 758.7 - smoky qtz vein, broken contacts, 2% py			62008	753.5	757.0	3.5	60				
					62009	757.0	759.0	2.0	71				
					62010	759.0	763.0	4.0	44				
763.0	783.5	**MINERALIZED GREY CARBONATE**			62011	763.0	767.0	4.0	280				
		- dark to light grey colour			62012	767.0	770.0	3.0	300				
		- silicified and random oriented quartz veins			62013	770.0	774.0	4.0	910				
		- Fe dolomite, qtz, albite, sericite			62014	774.0	778.0	4.0	770				
		- 5 to 10% py, 2% aspy			62015	778.0	783.5	3.5	180				
		- sulphides are disseminated throughout and haloing veining											
		- 10% qtz veining, mostly smoky qtz, randomly oriented											
		763.0 to 767.0 - 5% py, <1% aspy, 5% qv											
		767.0 to 770.0 - 50% qv, 5% py, tr aspy											
		770.0 to 774.0 - 10% py, 1% aspy, 5% qv											
		774.0 to 778.0 - 10% py, 2% aspy, 10% qv											
		778.0 to 783.5 - 2% py, tr aspy, 5% qv											
783.5	796.0	**MILL ZONE 2 - MINERALIZED SILICIFIED ZONE**			62016	783.5	787.0	3.5	800				
		- as above except silicified throughout			62017	787.0	790.0	3.0	890				
		- randomly oriented qtz veinlets with silicified halos, sulphide halos			62018	790.0	792.5	2.5	420				
		- qtz breccia sections, silicified, sulphide matrix			62019	792.5	794.0	1.5	320				
		- 10% py, 2 to 3% aspy			62020	794.0	796.0	2.0	300				
		793.0 - possible pinhead of VG in qtz veinlet in silicified section											
796.0	809.0	**BROWN CARBONATE - UM**			62021	796.0	801.0	5.0	79				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-13-2

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- brown to buff colour			62022	801.0	805.0	4.0	89				
		- brecciated UM texture, polysutures			62023	805.0	809.0	4.0	110				
		- Fe dolomite, albite, sericite											
		- no sulphides, little qtz											
809.0	862.0	**MILL ZONE 2 - MINERALIZED GREY CARBONATE - UM**			62024	809.0	812.5	3.5	270	0.008			
		- dark to light grey colour			62025	812.5	816.0	3.5	>1000	0.038			
		- massive to slightly schistose texture at 35° to C.A.			62026	816.0	820.0	4.0	>1000	0.034			
		- talcose, Fe dolomite, qtz, albite, sericite			62027	820.0	824.0	4.0	230	0.007			
		- from 820.0 increasing talc-silicification is local, concentrated			62028	824.0	827.0	3.0	>1000	0.049			
		810.0 to 812.0 - sections of random qv, py halos, tr cpy			62029	827.0	830.0	3.0	150	0.004			
		812.5 to 820.0 - 15% py, 3% aspy, 10% qv			62030	830.0	834.0	4.0	270	0.008			
		827.0 to 834.0 - silicified, qv, 5% py, <1% aspy			62031	834.0	838.0	4.0	>1000	0.043			
		836.0 to 842.0 - 15% qv, 10% py, 1% aspy			62032	838.0	842.0	4.0	>1000	0.052			
		- from 852.0 downhole, increasing calcite			62033	842.0	846.0	4.0	>1000	0.059			
					62034	846.0	850.0	4.0	>1000	0.055			
					62035	850.0	854.0	4.0	>1000	0.065			
					62036	854.0	858.0	4.0	640	0.019			
					62037	858.0	862.0	4.0	570	0.017			
862.0	870.5	**CHLORITE - CALCITE SCHIST**			62038	862.0	864.3	2.3	340				
		- dark green to green-black colour			62039	864.3	868.0	3.7	>1000	0.10			
		- schistose at 40° to C.A.			62040	868.0	870.5	2.5	>1000	0.065			
		- chlorite, calcite rich											
		864.3 to 868.0 - 10% py, 1% aspy											
870.5	887.0	**ULTRAMAFIC FLOW**			62041	870.5	877.0	6.5	190				
		- brown colour			62042	877.0	882.0	5.0	5				
		- calcite, talc, serpentine, albite			62043	882.0	889.0	7.0	7				
		- schistose at 40° to C.A.											
887.0	942.0	**TALC CARBONATE SCHIST**			62044	902.0	907.0	5.0	3				
		- black colour			62045	917.0	922.0	5.0	<1				
		- talc, calcite			62046	932.0	937.0	4.0	<1				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-13-2

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- calcite in laminae at random core angles from 0 to 45^{o} to C.A.											
		- very soft, soapstone											
942.0	990.0	**TALC CARBONATE FLOW**			62047	947.0	952.0	5.0	6				
		- black colour			62048	962.0	967.0	5.0	1				
		- as above but massive, not schistose			62049	977.0	982.0	5.0	<1				
		- less calcite as is confined to random fractures											
	990.0	**END OF HOLE**											

CYPRUS GOLD (Canada) Ltd.

PROPERTY	Kerr Mine	GRID COORDINATE 5068.84N 5477.56E	STARTED: September 2, 1992	
HOLE NO.	C-13-3		FINISHED: September 14, 1992	
BEARING	136	ELEVATION -1300	LENGTH: 1241'	
DIP COLLAR	-20°	SECTION	LOGGED BY: Ken Guy	

DIP AND BEARING TEST

FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING
100	-15	135	351	-10.5	137	656	-6	140	1100	-2	143.5
141	-14	133	451	-9	136	776	-4.5	143	1201	-1	143
250	-12.5	134	550	-7	137	886	-3	142			

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
0	1.0	CASING											
1.0	41.0	MAFIC VOLCANIC - FE THOLEIITE											
41.0	132.0	MAFIC AGGLOMERATE											
132.0	159.0	MAFIC AGGLOMERATE WITH GRAPHITIC INTERFLOW											
159.0	249.0	MAFIC AGGLOMERATE - FE THOLEIITE											
249.0	264.0	FAULT ZONE											
264.0	330.0	MAFIC AGGLOMERATE - FE THOLEIITE											
330.0	491.8	MAFIC TUFF/FLOW - FE THOLEIITE											
491.8	501.0	MINERALIZED FAULT ZONE											
501.0	579.0	MAFIC FLOW - FE THOLEIITE											
579.0	680.0	MAFIC TUFF - FE THOLEIITE											
680.0	823.0	MAFIC AGGLOMERATE - FE THOLEIITE											
823.0	831.0	INTERFLOW SEDIMENT											
831.0	871.0	ULTRAMAFIC FLOW											
871.0	882.8	DULL GREEN CARBONATE - ULTRAMAFIC FLOW											
882.8	920.4	MILL ZONE 2 - UM											
920.4	946.0	GREY CARBONATE - UM											
946.0	967.0	TALC CARBONATE SCHIST											
967.0	1072.0	ULTRAMAFIC FLOW											
1072.0	1091.0	FAULT ZONE - ULTRAMAFIC FLOW											
1091.0	1206.0	MAFIC VOLCANIC FLOW - FE THOLEIITE											
1206.0	1241.0	TALC CARBONATE SCHIST											
	1241.0	END OF HOLE											

CYPRUS GOLD
(Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-13-3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
0	1.0	**CASING**											
1.0	41.0	**MAFIC VOLCANIC - FE THOLEIITE**			62050	1.0	7.0	6.0	275				
		- grey to grey-green colour			62051	7.0	15.0	8.0	64				
		- tuffaceous to massive texture			62052	22.0	28.0	6.0	129				
		- carbonatized - Fe dolomite			62053	28.0	36.0	8.0	74				
		- Fe dolomite, qtz, sericite, chlorite, plagioclase			62054	36.0	41.0	5.0	21				
		- schistose at 70^{o} to C.A.											
		- from 23.0' trace fuchsite, and occasional gf laminae											
		22.0 to 28.0 - trace fuchsite, occasional qv, slight silicification, tr py											
		37.0 to 41.0 - albite-sericite-Fe dolomite, 2 to 5% py											
41.0	132.0	**MAFIC AGGLOMERATE**			62055	41.0	46.0	5.0	16				
		- greyish green to grey colour			62056	46.0	51.0	5.0	24				
		- schistosity defined by stretched clasts and phylosilicate laminae at 70^{o} to C.A.			62057	51.0	56.0	5.0	14				
		- highly carbonate - calcite			62058	56.0	61.0	5.0	240				
		- calcite, chlorite, sericite, fuchsite, albite			62059	66.0	71.0	5.0	172				
		- greenish colour due to mostly chlorite with minor to 1% fuchsite			62060	79.0	86.0	7.0	10				
		- rock is mostly clast supported, 80% clast			62061	86.0	91.0	5.0	17				
		- clasts are mostly calcite with minor sericite, albite, qtz			62062	96.0	101.0	5.0	30				
		- matrix is calcite with chlorite, fuchsite, sericite			62063	106.0	111.0	5.0	84				
		- fuchsite ends at 121.0', matrix is mostly chlorite-calcite, clasts are calcite, sericite - 80^{o} to C.A. - tr py			62064	116.0	121.0	5.0	6				
					62065	121.0	128.0	7.0	90				
					62066	128.0	132.0	4.0	12				
132.0	159.0	**MAFIC AGGLOMERATE WITH GF INTERFLOW**			62067	132.0	136.0	4.0	34				
		- carbonatized, Fe dolomite, calcite			62068	136.0	142.0	6.0	206				
		- 60% agglomerate, similar to above except Fe dolomite, chlorite, 2% py			62069	142.0	145.0	3.0	445				
		- 40% gf argillite with Fe dolomite, qtz, 5% py, 70^{o} to C.A.			62070	145.0	150.0	5.0	30				
		132.0 to 134.0 - gf argillite			62071	150.0	154.0	4.0	52				
		136.5 to 142.0 - 70% gf argillite, 5% py			62072	154.0	159.0	5.0	61				

CYPRUS GOLD (Canada) Ltd.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		145.0 to 146.5 - gf argillite, 2% py											
		148.0 to 149.0 - gf argillite											
		150.0 to 154.0 - 50% gf argillite with qtz, 3% py											
		154.0 to 159.0 - tuff, agglomerate, calcite, sericite, 5% py											
159.0	249.0	**MAFIC AGGLOMERATE - FE THOLEIITE**			62073	159.0	166.0	7.0	26				
		- dark green colour			62074	171.0	178.0	7.0	118				
		- calcite rich			62075	191.0	198.0	7.0	130				
		- schistosity at 75° to C.A.			62076	201.0	209.0	8.0	9				
		- varied clast size from 0.2" to 6"			62077	221.0	228.0	7.0	7				
		- mostly clast supported			62078	236.0	243.0	7.0	36				
		- clast are chlorite, calcite, sericite											
		- matrix is calcite, chlorite, tr gf											
249.0	264.0	**FAULT ZONE**			62079	249.0	253.0	4.0	17				
		- brecciated agglomerate			62080	253.0	257.0	4.0	55				
		- broken, blocky very poor RQD			62081	257.0	261.0	4.0	13				
		- Fe dolomite, tr py			62082	261.0	264.0	3.0	278				
		249.0 to 257.5 - brecciated agglomerate, fair RQD, tr py											
		257.5 to 262.0 - gf rich, gouge, very poor RQD, tr py											
		262.0 to 264.0 - gf argillite, silicified, 5% py											
264.0	330.0	**MAFIC AGGLOMERATE - FE THOLEIITE**			62083	264.0	271.0	7.0	51				
		- dark green and grey colour			62084	271.0	276.0	5.0	29				
		- finely laminated at 70° to C.A.			62085	276.0	283.0	7.0	12				
		- elongated clasts			62086	290.0	297.0	7.0	38				
		- clasts of chlorite, calcite or sericite, Fe dolomite			62087	312.0	316.0	4.0	162				
		- matrix is chlorite, argillite, calcite			62088	326.0	331.0	5.0	8				
		264.0 to 283.0 - 2 to 5% py											
		312.5 to 314.0 - brecciated section with 5% py											
		- from 314.0' occasional minor tuffaceous beds to 2" thick, increasing downhole, indications in these sections are fining downhole therefore tops to South											
330.0	491.8	**MAFIC TUFF/FLOW - FE THOLEIITE**			62089	338.5	342.0	3.5	25				

CYPRUS GOLD
(Canada) Ltd.

PROPERTY KERR MINE   HOLE NO. C-13-3

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- green, grey-green colour			62090	351.0	356.0	5.0	15				
		- medium-grained, very homogenous, massive			62091	370.0	376.0	6.0	10				
		- schistose at 80° to C.A.			62092	379.0	384.6	5.6	8				
		- occasional py laminae			62093	394.0	401.0	7.0	10				
		- calcite, chlorite, albite, sericite, qtz			62094	411.0	414.8	3.8	24				
		414.8 to 417.2 - silicified, Fe dolomite, 15% py, 5% aspy, 75° to C.A.			62095	414.8	418.5	3.7		0.054			
		417.2 to 418.5 - smoky qv, py on contacts			62096	418.5	420.0	1.5	54				
		418.6 to 418.5 - smoky qv			62097	431.0	438.0	7.0	8				
					62098	450.0	453.0	3.0	13				
					62099	466.0	473.0	7.0	102				
					62100	480.0	486.0	6.0	108				
					62101	486.0	491.8	5.8	440				
491.8	501.0	**MINERALIZED FAULT ZONE**			62102	491.8	495.0	3.2		0.039			
		491.8 to 495.0 - brecciated, silicified, tuff, 15% py, 5% aspy - 55° to C.A., Fe dolomite			62103	495.0	499.0	4.0		0.030			
		495.0 to 499.0 - fault, gf, qtz, sulphide laminae at 60° to C.A., silicified, 15% py, 5% aspy			62104	499.0	501.0	2.0	104				
		499.0 TO 501.0 - mafic flow, Fe dolomite, 5% py, tr aspy											
501.0	579.0	**MAFIC FLOW - FE THOLEIITE**			62105	501.0	506.0	5.0	124				
		- dark green colour, occasional buff to grey sections			62106	506.0	511.0	5.0	288				
		- massive, homogenous			62107	516.0	522.0	6.0	426				
		501.0 t 536.0 - mixed thin flows, agglomerate, tuffs, flow breccia			62108	531.0	537.0	6.0	14				
		- 536.0 downhole massive flows, occasional selvages, flow contacts, leucoxene basalt			62109	546.0	552.0	6.0	38				
		- calcite, plagioclase, qtz, leucoxene			62110	566.0	572.0	6.0	54				
		- sharp lower contact at 80° to C.A.											
579.0	680.0	**MAFIC TUFF - FE THOLEIITE**			62111	586.0	592.0	6.0	81				
		- dark green colour			62112	610.0	616.0	6.0	84				
		- heterogenous, varied texture from fine-grained well laminated tuffs to agglomerate with fragments to 0.5"			62113	641.0	646.0	5.0	82				
		- chlorite, calcite, plagioclase			62114	661.0	666.0	5.0	9				
		584.0 to 590.0 - coarse fragmental, agglomerate											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-13-3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		- laminated at 80° to C.A.			62115	666.0	674.0	8.0	6				
		- occasional highly carbonatized sections of near massive calcite			62116	674.0	680.0	6.0	46				
		- from 660.0 increasing Fe dolomite downhole											
		- from 660.0 slightly silicified											
		675.0 to 676.0 - qtz-cb vein											
		676.0 to 680.0 - sericitic, Fe dolomite											
680.0	823.0	**MAFIC AGGLOMERATE - FE THOLEIITE**			62117	680.0	684.0	4.0	65				
		- dark green to grey-green colour			62118	684.0	688.0	4.0	15				
		- matrix is gf, chlorite, calcite			62119	693.0	701.0	8.0	98				
		- fragments vary from <1" to >6", Fe dolomite, chlorite, calcite, occasional albite, sericite			62120	706.0	712.0	6.0	73				
		- clast supported, 80% clast			62121	726.0	732.0	6.0	15				
		680.0 to 688.0 - 5 to 10% py			62122	737.5	745.0	7.5	42				
		681.5 to 683.0 - albite, sericite, Fe dolomite, tuffaceous section, qv, py - 80° to C.A.			62123	761.0	766.0	5.0	34				
		683.0 to 683.3 - fault-gf, calcite, py - 80° to C.A.			62124	781.0	786.0	5.0	27				
		737.5 to 745.0 - 2% py, minor random qv			62125	805.0	811.0	6.0	<5				
		- from 785.0' decreasing gf and matrix increasing clasts size and massive flow sections			62126	818.0	823.0	5.0	18				
		810.0 to 823.0 - Fe dolomite											
823.0	831.0	**INTERFLOW SEDIMENT**											
		- grey to dark green colour			62127	823.0	826.0	3.0	39				
		- well laminated at 75° to C.A.			62128	826.0	831.0	5.0	8				
		- Fe dolomite, qtz											
		823.0 to 826.0 - grey colour, sericite											
		826.0 to 831.0 - UM texture, very chloritic, calcite, Fe dolomite laminae											
831.0	871.0	**ULTRAMAFIC FLOW**			62129	836.0	841.0	5.0	62				
		- dark green to black colour with occasional buff brown sections			62130	854.0	859.0	5.0	47				
		- Fe dolomite, talc, serpentine with calcite, Fe dolomite laminae			62131	866.0	871.0	5.0	55				
		- 80° to C.A.											
871.0	882.8	**DULL GREEN CARBONATE - UM FLOW**			62132	871.0	876.0	5.0	79				

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-13-3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- massive to brecciated texture			62133	876.0	880.0	4.0	122				
		- polygonal jointing			62134	880.0	882.8	2.8	71				
		- Fe dolomite, calcite, fuchsite, serpentine											
		880.0 to 882.8 - green to brown carbonate											
		- very sharp lower contact at 75° to C.A.											
882.8	920.4	MILL ZONE 2 - UM											
		- 882.8 - very sharp contact at 75° to C.A., distinct change from no sulphides to 15 % py, tr aspy in qtz rich green carbonate			62135	882.8	885.0	2.2	343	0.010			
		882.8 to 887.0 - Green Carbonate, 10% disseminated py, 20% qtz as veinlets and gashes			62136	885.0	887.0	2.0		0.041			
		- 887.0 sharp contact at 80° to C.A., most significant change is to 10% aspy, less green carbonate			62137	887.0	889.5	2.5		0.246			
		887.0 to 888.9 - grey-brown carbonate, 15% py, 10% aspy, 5% qtz laminae			62138	889.5	893.0	3.5	154	0.005			
		888.9 to 889.5 - smoky qtz vein, subparallel to schistosity, lower contact parallel to schistosity, upper contact at high angle (75° to C.A.) but not parallel to schistosity, smoky vein is cut by 0.5" white qtz vein at 10° to C.A. - lower contact is not mineralized			62139	893.0	895.8	2.8	274	0.008			
		889.5 to 892.0 - 1" white qtz vein at 5-10° to C.A., no mineralization in host			62140	895.8	898.4	2.6	81	0.002			
		892.0 to 893.0 - massive white qtz vein			62141	898.4	903.0	4.6	240	0.007			
		893.0 to 895.8 - 2% py, 10% smoky qtz veins, gashes			62142	903.0	908.0	5		0.015			
		895.8 to 898.4 - brown carbonate, Fe dolomite, albite			62143	908.0	911.0	3.0		0.041			
		898.4 to 920.4 - grey-green carbonate, Fe dolomite, sericite, fuchsite, qtz, py, aspy			62144	911.0	914.7	3.7		0.077			
		898.4 to 908.0 - 20% smoky qtz veins at random orientation, 2 to 5% py			62145	914.7	917.0	2.3	262	0.008			
		908.0 to 914.7 - 10% py, 3% aspy, 10% qtz veins and gashes			62146	917.0	920.4	3.4	256	0.008			
		914.7 to 920.4 - 2% py, 10% qtz veins, gashes											
920.4	946.0	GREY CARBONATE - UM											
		- grey colour			62147	920.4	926.0	5.6	54				
		- Fe dolomite, sericite, talc			62148	926.0	931.0	5.0	68				
		- talcose laminae at 60° to C.A.			62149	931.0	936.0	5.0	57				
		920.4 to 926.0 - buff brown carbonate			62150	936.0	941.0	5.0	9				

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-13-3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		941.0 to 946.0 - trace fuchsite, increase calcite, decrease Fe dolomite, many calcite veins, veinlets											
946.0	967.0	**TALC CARBONATE SCHIST**			62151	941.0	946.0	5.0	79				
		- dark green, black colour talc-serpentine alternating white calcite			62152	956.0	966.0	10.0	10				
		- 65° to C.A.											
		- very soft											
		963.0 to 966.0 - 3' ground											
967.0	1072.0	**ULTRAMAFIC FLOW**											
		- black to dark green colour			62153	986.0	991.0	5.0	20				
		- many calcite polygonal joints, polysutures, selvages			62154	1006.0	1015.0	9.0	8				
		- talc, serpentine, calcite			62155	1031.0	1036.0	5.0	19				
		1011.0 to 1014.0 - 3' ground core											
1072.0	1091.0	**FAULT ZONE - UM FLOW**											
		- brecciated, more calcitic			62156	1071.0	1077.0	6.0	20				
		- occasional gouge sections of 1 to 4"			62157	1086.0	1091.0	5.0	16				
		- gouge sections have sharp contacts at 85° to C.A., fragments of UM in gouge											
1091.0	1206.0	**MAFIC VOLCANIC FLOW - FE THOLEIITE**											
		- green to pale green colour			62158	1100.0	1103.0	3.0	256				
		- light colour due to extremely high calcite content			62159	1116.0	1121.0	5.0	13				
		1091.0 to 1094.0 - UM appearance and texture but harder, no talc			62160	1143.0	1148.0	5.0	61				
		1094.0 to 1126.0 - mostly massive to laminated calcite - 85° to C.A.			62161	1161.0	1166.0	5.0	6				
		1100.0 to 1102.0 - po stringers			62162	1181.0	1186.0	5.0	6				
		- occasional weakly magnetic sections			62163	1201.0	1206.0	5.0	5				
		1126.0 to 1206.0 - massive mafic volcanic											
1206.0	1241.0	**TALC CARBONATE SCHIST**											
		- dark green to black (talc, serpentine) laminated with white (calcite)			62164	1221.0	1226.0	5.0	8				
		- 80° to C.A.											
	1241.0	**END OF HOLE**											

CYPRUS GOLD (Canada) Ltd.

PROPERTY	KERR MINE	GRID COORDINATE		STARTED September 16, 1992		
HOLE NO.	C-20-1	5644.94N 6008.60E		FINISHED September 23, 1992		
		ELEVATION -2050				
BEARING	165	SECTION		LENGTH 1047'		
DIP COLLAR	-50°	STORAGE		LOGGED BY	Ken Guy	

DIP AND BEARING TEST

FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING
35	-48.5	162	536	-37	160	1041	-22	159			
116	-47	164	636	-34.5	161						
235	-44	165	736	-30	159						
336	-42	162	886	-26.5	158						

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		SUMMARY											
0	2.0	CASING											
2.0	105.0	ULTRAMAFIC											
105.0	119.2	GRAPHITIC ARGILLITE											
119.2	171.0	MAFIC TUFF - FE THOLEIITE											
171.0	182.5	MAFIC AGGLOMERATE - FE THOLEIITE											
182.5	216.5	ALTERED MAFIC FLOW - FE THOLEIITE											
216.5	241.0	GREY-BROWN CARBONATE - FE THOLEIITE											
241.0	333.5	MAFIC TUFF - GREY CARBONATE - FE THOLEIITE											
333.5	336.0	GRAPHITIC ARGILLITE											
336.0	471.0	MAFIC AGGLOMERATE - FE THOLEIITE											
471.0	560.0	ULTRAMAFIC - AGGLOMERATE FLOW											
560.0	626.0	DULL GREEN CARBONATE											
626.0	678.0	GREY/GREEN CARBONATE - UM											
678.0	687.0	ULTRAMAFIC TUFF - AGGLOMERATE											
687.0	692.0	GRAPHITIC FAULT ZONE											
692.0	711.0	ULTRAMAFIC											
711.0	777.0	DULL GREEN CARBONATE - UM											
777.0	818.0	ALTERED ULTRAMAFIC FLOW											
818.0	837.0	TALC-CHLORITE-CARBONATE SCHIST - UM											
837.0	856.3	ALTERED ULTRAMFIC FLOW											
856.3	879.6	TALC-CHLORITE-CARBONATE SCHIST - UM											
879.6	885.6	MILL ZONE 2											
885.6	904.5	TALC-CARBONATE SCHIST											

CYPRUS GOLD (Canada) Ltd.

PROPERTY	Kerr Mine	GRID COORDINATE		STARTED	
HOLE NO.	C-20-1	ELEVATION		FINISHED	
BEARING		SECTION		LENGTH	
DIP COLLAR		STORAGE		LOGGED BY	

DIP AND BEARING TEST											
FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
904.5	962.0	MAFIC FLOW - BASALTIC KOMATIITE											
962.0	1047.0	TALC-CARBONATE SCHIST											
	1047.0	END OF HOLE											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-20-1

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
0	2.0	**CASING**											
2.0	105.0	**ULTRAMAFIC**			62165	3.0	11.0	8.0	203				
		- dark green to black colour with 50% carbonate (Fe dolomite) laminations			62166	36.0	46.0	10.0	5				
		2.0 to 12.0 - pale green, olivine, Fe dolomite, serpentine			62167	66.0	72.0	6.0	10				
		12.0 to 101.0 - greenish black, talc, well laminated at 45° to C.A., laminae are ¼ to 2" wide			62168	81.0	86.0	5.0	8				
		- resembles Talc Carbonate Schist but slightly less schistose, not sheared			62169	96.0	101.0	5.0	9				
		40.0 to 44.0 - ground core			62170	101.0	105.0	4.0	5				
		101.0 to 105.0 - Fe dolomite, slightly silicified											
105.0	119.2	**GRAPHITIC ARGILLITE**			62171	105.0	111.0	6.0	32				
		- very sharp contacts at 50° to C.A.			62172	111.0	116.0	5.0	25				
		- well laminated with alternating laminae of gf rich, Fe dolomite rich			62173	116.0	119.2	3.2	92				
		- occasional py rich laminae											
		112.0 to 115.0 - mafic agglomerate											
119.2	171.0	**MAFIC TUFF-FE THOLEIITE**			62174	119.2	125.0	5.8	6				
		- grey to greyish green colour			62175	127.0	132.0	5.0	14				
		- fine grained tuffs, lapilli tuffs, tuff breccia			62176	136.0	142.0	6.0	16				
		- highly carbonatized Fe dolomite			62177	151.0	156.0	5.0	10				
		- Fe dolomite, albite, sericite, occasional chlorite rich sections			62178	166.0	171.0	5.0	30				
171.0	182.5	**MAFIC AGGLOMERATE - FE THOLEIITE**			62179	171.0	177.0	6.0	60				
		- dark grey colour			62180	177.0	182.5	5.5	267				
		- very altered, Fe dolomite, fuchsite, sericite, albite											
		- tr py											
		- 50° to C.A.											
		177.0 to 182.5 - gf matrix, 5% py											
		182.1 to 182.5 - fault, gouge - 70° to C.A.											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-20-1

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
182.5	216.5	**ALTERED MAFIC FLOW - FE THOLEIITE**			62181	182.5	187.0	4.5	28				
		- grey to buff colour			62182	187.0	194.0	7.0	18				
		- massive to slight shearing at 50° to C.A., mottled texture, homogenous			62183	194.0	201.0	7.0	17				
		- Fe dolomite, sericite, albite, quartz			62184	201.0	208.0	7.0	70				
		- occasional qtz veinlets and gashes			62185	208.0	213.0	5.0	12				
		182.5 to 186.0 - 10% qtz veinlets at random orientations			62186	213.0	216.5	3.5	164				
		- increasing calcite downhole											
216.5	241.0	**G-ZONE-GREY-GREEN CARBONATE FE THOLEIITE**			62187	216.5	220.0	3.5		<0.01			
		- massive mottled to slightly schistose texture			62188	220.0	223.5	3.5		<0.01			
		- 50° to C.A.			62189	223.5	225.0	1.5		0.016			
		- Fe dolomite, calcite, albite, sericite, fuchsite			62190	225.0	226.0	1.0		0.166			
		- qtz as veinlets and gashes			62191	226.0	227.0	1.0		0.028			
		223.5 to 227.0 - grey carbonate, 10% very fine grained py, 3% aspy			62192	227.0	229.0	2.0		<0.01			
		225.5 to 226.0 - irregular qtz-cb veinlet, 2 x 1mm flecks of VG			62193	229.0	232.0	3.0		<0.01			
		228.0 to 236.0 - silicified, many qtz gashes, blebs			62194	232.0	236.0	4.0	110				
					62195	236.0	241.0	5.0		0.021			
241.0	333.5	**MAFIC TUFF - FE THOLEIITE - GREY CARBONATE**			62196	241.0	246.0	5.0	258				
		- grey to blackish grey colour			62197	246.0	251.0	5.0	130				
		- schistose at 50° to C.A.			62198	261.0	266.0	5.0		0.020			
		- homogenous			62199	270.0	276.0	6.0	375				
		- Fe dolomite, calcite gf, chlorite			62200	276.0	284.0	8.0	30				
		- occasional agglomerate sections, gf matrix			62201	284.0	289.0	5.0	65				
		261.0 to 266.0 - agglomerate, 5% py, tr aspy			62202	289.0	296.0	7.0	96				
		270.0 to 276.0 - broken, blocky core, cb veinlets, 5% py, possible fault			62203	306.0	311.0	5.0	17				
		284.0 to 286.0 - agglomerate, gf, py			62204	321.0	326.0	5.0	<5				
		290.0 to 296.0 - agglomerate, gf, py			62205	326.0	331.0	5.0	6				
		- from 35.0′ calcite rich			62206	331.0	334.0	3.0	12				

CYPRUS GOLD (Canada) Ltd.

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		331.0 to 334.0 - py rich, including two massive bands at 333.2 to 333.3', 333.5 to 333.6'											
333.5	336.0	**GRAPHITIC ARGILLITE**			207	334.0	337.0	3.0	<5				
		- 50% to C.A.											
		- calcite rich											
		- tr py											
336.0	471.0	**MAFIC AGGLOMERATE - FE THOLEIITE**			208	346.0	351.0	5.0	<5				
		- green to dark green colour			209	351.0	358.0	7.0	<5				
		- calcite rich			210	380.0	386.0	6.0	7				
		- fragments of chlorite, Fe dolomite			211	386.0	391.0	5.0	<5				
		- matrix calcite, occasional gf argillite			212	402.0	408.0	6.0	8				
		- tuffaceous sections			213	418.5	419.5	1.0	10				
		- carbonatized, matrix calite, fragments Fe dolomite			214	434.0	440.0	6.0	47				
		352.0 to 358.0 - slight DGC			215	446.0	451.0	5.0	10				
		380.0 to 391.0 - slight DGC			216	458.0	465.0	7.0	14				
		402.0 to 408.0 - slight DGC			217	465.0	471.0	6.0	120				
		418.7 to 418.9 - silicified sericitic, 30% py at 70° to C.A.											
		434.0 to 440.0 - trace DGC											
		- matrix is increasingly Fe dolomite rich downhole											
		446.0 to 451.0 - trace DGC											
		- from 451.0' fragments are increasing UM composition, talcose, serpentine, Fe dolomite											
		458.0 to 471.0 - trace DGC											
471.0	560.0	**ULTRAMAFIC - AGGLOMERATE FLOW**			62218	481.0	486.0	5.0	<5				
		- dark green to black colour			62219	501.0	506.0	5.0	ND				
		- Fe dolomite, serpentine, talc, chlorite			62220	521.0	526.0	5.0	<5				
		- agglomerate sections are talcose, serpentine fragments with Fe dolomite matrix			62221	547.0	553.0	6.0	52				
		- flow sections are massive talc, serpentine with Fe dolomite sutures, jointing			62222	556.0	560.0	4.0	85				

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-20-1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
560.0	626.0	DULL GREEN CARBONATE - DGC			62223	560.0	564.0	4.0	22				
		- altered UM flow			62224	564.0	567.0	3.0	5				
		- 80% DCG, Fe dolomite, fuchsite, sericite, qtz			62225	567.0	570.0	3.0	332				
		- 20% Grey Cb, Fe dolomite, sericite, qtz			62226	570.0	573.0	3.0	8				
		- massive to weakly schistose at 40° to C.A.			62227	573.0	577.0	4.0	13				
		567.5 to 569.2 - smoky qtz-cb vein at 30° to C.A.			62228	577.0	580.7	3.7	8				
		580.7 to 584.7 - 30% smoky qtz vein, random orientation, 10% py			62229	580.7	584.7	4.0	80				
		591.5 to 594.0 - 20% smoky qtz vein, 5% py											
		597.5 to 601.0 - 10% random, thin qty veins at low angle to C.A., py on vein contacts and halo, 10% py, tr aspy			62230	584.7	588.0	3.3	50				
		611.0 to 616.0 - 10% random smoky qtz veins, 5% py			62231	588.0	591.5	3.5	58				
		616.0 to 621.0 - silicified, 2% py			62232	591.5	594.0	2.5	312				
					62233	594.0	597.5	3.5	130				
					62234	597.5	601.0	3.5	127				
					62235	601.0	611.0	10.0	65				
					62236	611.0	616.0	5.0	33				
					62237	616.0	626.0	10.0	116				
626.0	678.0	GREY/GREEN CARBONATE - UM			62238	626.0	631.0	5.0	4				
		- grey to greyish green colour			62239	631.0	636.0	4.0	18				
		- massive to slightly foliated at 45° to C.A.			62240	636.0	641.0	5.0	66				
		- Fe dolomite, calcite, sericite, qtz, fuchsite			62241	641.0	646.0	5.0	9				
		- green carbonate, fuchsite, as laminae or sections with fuchsite disseminated throughout			62242	646.0	651.0	5.0	39				
		641.0 to 663.0 - many thin qtz-cb veinlets, 0.1 to 0.5 inch random orientation, averaging approx. 7 per 1 foot, commonly 70° to C.A.			62243	651.0	656.0	5.0	52				
		654.6 to 655.0 - fault gouge			62244	656.0	661.0	5.0	36				
					62245	661.0	666.0	5.0	52				
					62246	666.0	671.0	5.0	60				
					62247	671.0	674.0	3.0	39				
					62248	674.0	678.0	4.0	38				

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-20-1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
678.0	687.0	**ULTRAMAFIC TUFF, AGGLOMERATE**			62249	678.0	683.0	5.0	5				
		- dark green colour			62250	683.0	687.0	4.0	6				
		- very schistose at 60° to C.A.											
		- Fe dolomite, calcite, chlorite											
687.0	692.0	**FAULT ZONE - GF**			62251	687.0	692.0	5.0	193				
		- black, graphitic, broken, blocky core											
		- gouge, mud sections											
692.0	711.0	**ULTRAMAFIC**			62252	692.0	696.0	4.0	100				
		- greenish black to brown colour			62253	696.0	701.0	5.0	7				
		- schistose, 60° to C.A., to massive as proceed downhole			62254	701.0	706.0	5.0	48				
		705.0 to 711.0 - massive, polygonal jointing			62255	706.0	711.0	5.0	8				
711.0	777.0	**DULL GREEN CARBONATE - UM**			62256	711.0	716.0	5.0	273				
		- dull green to local emerald green colour			62257	716.0	721.0	5.0	40				
		- massive UM texture, polysectives, polygonal jointing			62258	721.0	726.0	5.0	7				
		- alteration is patchy with intervals to 5 feet of green carbonate and intervals to 5 feet of more chlorite, serpentine UM			62259	726.0	731.0	5.0	116				
		736.5' - 1" smoky qtz vein at 30° to C.A., py halo 736.0 to 737.0 of 5% py			62260	731.0	735.0	4.0	<5				
		746.8 to 752.0 - 5 to 10% py, 1% aspy			62261	735.0	738.0	3.0	128				
					62262	738.0	743.0	5.0	40				
					62263	743.0	746.8	3.8	17				
					62264	746.8	748.5	1.7		0.021			
					62265	748.5	752.0	3.5	513				
					62266	752.0	756.0	4.0	88				
					62267	756.0	761.0	5.0	54				
					62268	761.0	766.0	5.0	10				
					62269	766.0	770.0	4.0	515				
					62270	770.0	774.0	4.0	50				
					62271	774.0	777.0	3.0	40				

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-20-1

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
777.0	818.0	**ALTERED ULTRAMAFIC FLOW**			62272	777.0	781.0	4.0	52				
		- dark green to buff colour			62273	781.0	786.0	5.0	191				
		- massive UM texture, popysutures, polygonal jointing			62274	786.0	791.0	5.0	144				
		- Fe dolomite			62275	791.0	796.0	5.0	71				
		- varying amounts of sericite, chlorite, albite, fuchsite, serpentine			62276	796.0	801.0	5.0	86				
		791.0 to 801.0 - bleached, massive Fe dolomite			62277	801.0	805.0	4.0	158				
		806.6 to 811.0 - silicified, 10% py, 1% aspy			62278	805.0	806.6	1.6	118				
		816.0 to 818.0 - bleached, silicified, 5% py, tr aspy			62279	806.6	811.0	4.4		0.027			
					62280	811.0	816.0	5.0	65				
					62281	816.0	818.0	2.0	352				
818.0	837.0	**TALC-CHLORITE-CARBNATE SCHIST - UM**			62282	818.0	823.0	5.0	175				
		- green and white colour			62283	832.0	837.0	5.0	18				
		- alternating laminations of chlorite-talc and calite, <1 inch											
		- 75° to C.A.											
837.0	856.3	**ALTERED ULTRAMAFIC FLOW**			62284	837.0	841.0	4.0	107				
		- brown carbonate, sericite - carbonate schist			62285	841.0	846.0	5.0	641				
		- buff to beige colour			62286	846.0	851.0	5.0	38				
		- slightly schistose at 65° to C.A.			62287	851.0	856.3	5.3	88				
		- laminations of calcite with alternating sericite, Fe dolomite, albite											
		- silicified with qtz veins, gashes, sweats											
		841.0 to 846.0 - silicified, fuchsite, 10% py, 1% aspy											
		851.0 to 856.3 - silicified, brecciated, fuchsite, tr py											
856.3	879.6	**TALC-CHLORITE-CARBONATE SCHIST - UM**											
		- as above			62288	856.3	861.0	4.7	7				
					62289	865.0	870.0	5.0	6				
					62290	872.0	876.0	4.0	21				
					62291	876.0	879.6	3.6	177				
879.6	885.6	**MILL ZONE - 2**			62292	879.6	882.2	2.6		0.092			
		- very sharp upper contact at 50° to C.A.			62293	882.2	885.6	3.4	143	0.004			

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-20-1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		879.6 to 882.2 - massive black rock, calcite, Fe dolomite, qtz stockwork, 40% qtz, 20% py, 5% aspy, tr cpy											
		822.2 to 885.6 - DGC, qtz veining, Fe dolomite laminations, tr py											
885.6	904.5	**TALC - CARBONATE SCHIST**			62294	885.6	890.0	4.4	34				
		- dark green talc - serpentine laminations			62295	900.0	904.5	4.5	7				
		- white calcite, laminations											
		- schistose at 60° to C.A.											
904.5	962.0	**MAFIC FLOW - BASALTIC KOMATIITE**			62296	904.5	909.0	4.5	56				
		- grey to pale green colour			62297	909.0	914.0	5.0	98				
		- massive to slightly schistose at 60° to C.A.			62298	914.0	919.0	5.0	54				
		- Fe dolomite, sericite, albite, fuchsite			62299	919.0	923.5	4.5	16				
		- occasional DGC intervals			62300	930.0	936.0	6.0	15				
		- occasional calcite veinlets			62301	936.0	941.0	5.0	194				
		904.5 to 923.5 - 1% py, local concentrations to 3%			62302	941.0	946.0	5.0	270				
		923.5 to 927.0 - talcose			62303	946.0	951.0	5.0	46				
		930.0 to 941.0 - Fault Zone - talcose, broken, brecciated, gouge sections			62304	951.0	956.0	5.0	37				
		941.0 to 946.0 - slightly silicified, 1% py, tr aspy, qtz calcite veinlets			62305	956.0	961.0	5.0	7				
962.0	1047.0	**TALC - CARBONATE SCHIST**			62306	961.0	966.0	5.0	5				
		- dark green to black talc - serpentine laminations			62307	981.0	986.0	5.0	6				
		- white calcite laminations			62308	1001.0	1006.0	5.0	9				
		- 65° to c.A.			62309	1021.0	1026.0	5.0	7				
	1047.0	**END OF HOLE**			62310	1041.0	1047.0	6.0	14				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine	GRID COORDINATE	STARTED September 22, 1992	DIP AND BEARING TEST											
			FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING
HOLE NO. C-25-1A,B	4408.58N 5019.84E	FINISHED October 9, 1992	40	-48	146	440	-42	147	840	-39	148			
	ELEVATION -2500		140	-47	147	540	-41.5	147	980	-38	149			
BEARING 145	SECTION	LENGTH 1330'	240	-45	145	620	-41.5	146	1140	-37	150			
DIP COLLAR -50	STORAGE	LOGGED BY Ken Guy	340	-44	147	790	-39	147.5	1200	-36	149			

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		SUMMARY											
0	105.0	MAFIC AGGLOMERATE - FE THOLEIITE											
105.0	170.0	MAFIC FLOW - FE THOLEIITE											
170.0	175.0	GRAPHITIC ARGILLITE											
175.0	217.0	MAFIC FLOW - FE THOLEIITE											
217.0	265.0	MAFIC TUFF/FLOW - BASALTIC KOMATIITE											
265.0	289.0	CHLORITE - CALCITE SCHIST											
289.0	339.0	MAFIC VOLCANIC FLOW - FE THOLEIITE											
339.0	352.4	G-ZONE - ALTERED MAFIC FLOW - FE THOLEIITE											
352.4	431.0	MAFIC VOLCANIC FLOW - FE THOLEIITE											
431.0	465.3	MILL ZONE 1 - MINERALIZED ZONE											
465.3	512.0	MAFIC VOLCANIC - FE THOLEIITE											
512.0	530.0	MILL ZONE 2 - DULL GREEN CARBONATE - UM											
530.0	568.0	ULTRAMAFIC FLOW											
568.0	740.0	TALC - CARBONATE SCHIST											
740.0	803.0	MAFIC VOLCANIC FLOW - FE THOLEIITE											
803.0	940.0	ULTRAMAFIC FLOW											
940.0	1165.0	ULTRAMAFIC BRECCIA											
1165.0	1178.0	TALC - CARBONATE SCHIST											
1178.0	1193.0	MAFIC VOLCANIC FLOW - FE THOLEIITE											
1193.0	1210.0	ULTRAMAFIC FLOW BRECCIA											
	1210.0	HOLE LOST DUE TO CAVE											
983.0	1058.0	C-25-1A - ULTRAMAFIC BRECCIA											

CYPRUS GOLD (Canada) Ltd.

	GRID COORDINATE	STARTED	DIP AND BEARING TEST											
PROPERTY Kerr Mine			FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING
HOLE NO. C25-1A,B		FINISHED												
	ELEVATION													
BEARING	SECTION	LENGTH												
DIP COLLAR	STORAGE	LOGGED BY												

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
1058.0	1066.0	FAULT ZONE											
	1066.0	HOLE LOST DUE TO CAVE											
995.0	1050.0	C-25-1B - CEMENT											
1050.0	1060.0	½ CEMENT ½ ULTRAMAFIC BRECCIA											
1060.0	1064.0	LOOSE ? GROUND ULTRAMAFIC – CEMENT											
1064.0	1070.0	FAULT ZONE											
1070.0	1115.0	ULTRAMAFIC BRECCIA											
1115.0	1155.0	BASALT FLOW - KOMATIITE											
1155.0	1165.0	FAULT ZONE - ULTRAMAFIC											
1165.0	1177.0	TALC - CARBONATE SCHIST											
1177.0	1194.0	MAFIC VOLCANIC FLOW - FE THOLEIITE											
1194.0	1220.0	ULTRAMAFIC BRECCIA											
1220.0	1230.0	FAULT ZONE											
1230.0	1330.0	ULTRAMAFIC BRECCIA											
	1330.0	END OF HOLE											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-25-1A,B

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
0	105.0	**MAFIC AGGLOMERATE - FE THOLEIITE**			46001	10.0	15.0	5.0	10				
		- dark green to green-grey colour			46002	30.0	35.0	5.0	12				
		- 65° to C.A. - relatively unaltered			46003	50.0	55.0	5.0	27				
		- occasional tuffaceous and massive sections			46004	65.0	70.0	5.0	6				
		- fragments are chlorite, calcite, plagioclase			46005	85.0	90.0	5.0	27				
		- matrix often graphite with chlorite, calcite											
		- variable fragment size from tuff to >2"											
		85.0 to 90.0 - massive, homogenous, sericite, Fe dolomite											
105.0	170.0	**MAFIC FLOW - FE THOLEIITE**			46006	105.0	110.0	5.0	11				
		- massive, homogenous			46007	125.0	130.0	5.0	9				
		- dark green colour			46008	140.0	145.0	5.0	19				
		- calcite, chlorite, plagioclase			46009	165.0	170.0	5.0	5				
		- relatively unaltered											
		- occasional amygdaloidal sections											
170.0	175.0	**GRAPHITE ARGILLITE**			46010	170.0	175.0	5.0	98				
		- massive to slightly laminated at 70° to C.A.											
		- 3% py, 3% po											
175.0	217.0	**MAFIC FLOW - FE THOLEIITE**			46011	195.0	200.0	5.0	<5				
		- as above			46012	209.0	211.0	2.0	6				
		- occasional sections of calcite laminations											
		209.0 to 211.0 - calcite laminations 5% py, po											
217.0	265.0	**MAFIC TUFF/FLOW - BASALTIC KOMATIITE**			46013	215.0	220.0	5.0	8				
		- dark green colour			46014	230.0	235.0	5.0	<5				
		- massive to schistose at 65° to C.A.			46015	240.0	245.0	5.0	<5				
		- epidote rich sections, including calcite - epidote veinlets			46016	255.0	260.0	5.0	<5				
		- calcite rich											
		- calcite, chlorite, plagioclase, epidote											
		- occasional bleached, sericite, albite sections and Fe dolomite											
265.0	289.0	**CHLORITE - CALCITE SCHIST**			46017	265.0	270.0	5.0	<5				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-25-1A,B

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- 65° to C.A.			46018	284.0	289.0	5.0	<5				
		- 50% chlorite, calcite laminae											
		- 50% calcite laminae											
		- laminae 0.2 - 1 inch											
		- occasional massive tuffaceous section											
289.0	339.0	**MAFIC VOLCANIC FLOW - FE THOLEIITE**			46019	289.0	294.0	5.0	<5				
		- green to grey-buff colour			46020	297.5	299.5	2.0	78				
		- massive, flow textured, amygdaloidal, selvage and contact zones, flow breccia			46021	315.0	320.0	5.0	34				
		- calcite, chlorite, plagioclase											
		- occasional grey-buff sections of sericite-albite alteration, calcite, silicified, py, aspy											
		296.0 to 297.5 - flow breccia graded bedding indicates tops downhole											
		297.5 to 299.5 - gb argillite, 65° to C.A., 10% po, py											
339.0	352.4	**G-ZONE ALTERED MAFIC FLOW - FE THOLEIITE**			46022	339.0	343.0	4.0	1680	0.049			
		- albite - sericite rock, silicified			46023	343.0	347.0	4.0	789	0.023			
		- buff-grey colour			46024	347.0	350.0	3.0	1371	0.040			
		- massive, very fine grained, hard			46025	350.0	352.4	2.4	1543	0.045			
		- calcite											
		- 10% py, 3% aspy											
		- occasional <6 inch sections of unaltered rock											
352.4	431.0	**MAFIC VOLCANIC FLOW - FE THOLEIITE**			46026	360.0	365.0	5.0	87				
		- as above			46027	375.0	380.0	5.0	10				
		- occasional calcite - albite - sericite sections with tr py, aspy			46028	395.0	400.0	5.0	754				
		- occasional tuffaceous and flow breccia sections			46029	410.0	415.0	5.0	13				
		420.0 to 431.0 - tuffaceous, interflow, minor gf, py, po - 70° to C.A.			46030	420.0	425.0	5.0	13				
		- increasing Fe dolomite from 420.0 to 431.0			46031	425.0	428.0	3.0	15				
					46032	428.0	431.0	3.0	30				
431.0	465.3	**MILL ZONE 1 - MINERALIZED ZONE**			46033	431.0	434.0	3.0		.09			
		- near massive py, aspy			46034	434.0	436.0	2.0		.068			

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-25-1A,B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		- green carbonate, Fe dolomite			46035	436.0	438.7	2.7		0.080			
		- randomly oriented, black to smoky qtz veins, brecciated with NMS inclusions			46036	438.7	439.7	1.0		0.435			
		- massive to slightly schistose at 70° to C.A.			46037	439.7	442.0	2.3		0.117			
		- overall: 30% qtz, smoky, veins, gashes			46038	442.0	445.0	3.0		.196			
		25% py, fine grained, disseminated			46039	445.0	448.5	3.5		.110			
		35% Fe dolomite, fuchsite, sericite			46040	448.5	453.0	4.5		.106			
		10% aspy, fine grained disseminated tr cpy			46041	453.0	457.0	4.0		.064			
		439.0 - small cluster of pinhead VG			46042	457.0	460.0	3.0		.095			
		439.4 - small cluster of pinhead VG - 1 cluster in sample, 1 in box			46043	460.0	463.0	3.0		.130			
		- VG associated with erratic smoky qtz gash			46044	463.0	465.3	2.3		.082			
		433.0 to 434.0 - smoky qtz vein with py, aspy inclusions											
		439.7 to 448.5 - near massive sulphide 35% py, 15% aspy, tr cpy, 20% qv											
		448.5 to 459.0 - 40% qv, mostly smoky, random orientation, many inclusions, 70°, 30° is common											
465.3	512.0	**MAFIC VOLCANIC-FE THOLEIITE**			46045	465.3	469.0	3.7	257				
		- green to grey colour			46046	469.0	474.0	5.0	26				
		- laminated at 75° to C.A.			46047	474.0	479.0	5.0	23				
		- Fe dolomite, chlorite, sericite, qtz, plagioclase, fuchsite			46048	485.0	490.0	5.0	45				
		- occasional DGC sections			46049	500.0	505.0	5.0	16				
		- occasional smoky qtz veins											
512.0	530.0	**MILL ZONE 2 - DULL GREEN CARBONATE - UM**			46050	511.0	515.0	4.0	82				
		- pale to dull green colour			46051	515.0	520.0	5.0		0.020			
		- massive			46052	520.0	525.0	5.0		0.028			
		- Fe dolomite, sericite, fuchsite, qtz			46053	525.0	530.0	5.0	103				
		- gradational contacts											
		- occasional qtz-cb veinlet, random orientation with tr py											
530.0	568.0	**ULTRAMAFIC FLOW**			46054	530.0	535.0	5.0	202				
		- massive			46055	535.0	540.0	5.0	26				
		- UM textures, polysutures, polygonal jointing			46056	550.0	555.0	5.0	38				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-25-1A,B

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- Fe dolomite, talc, serpentine											
		- occasional sections of pale green massive talc											
568.0	740.0	**TALC - CARBONATE SCHIST**			46057	565.0	570.0	5.0	59				
		- black, white colour			46058	585.0	590.0	5.0	5				
		- to 570' Fe dolomite, after 570' calcite			46059	605.0	610.0	5.0	<5				
		615.0 to 630.0 - fault zone many sections of mud, gouge, breccia			46060	620.0	625.0	5.0	6				
		713.5 to 718.5 - sericite, Fe dolomite, tr py, po			46061	640.0	645.0	5.0	12				
		- from 713.0, decreasing talc, increasing chlorite, becoming more basaltic composition			46062	660.0	665.0	5.0	<5				
		726.0 to 730.0 - albite - sericite - Fe dolomite			46063	685.0	690.0	5.0	<5				
		- schistose at 70° to C.A.			46064	713.5	718.5	5.0	5				
					46065	726.0	730.0	4.0	<5				
740.0	803.0	**MAFIC VOLCANIC FLOW - FE THOLEIITE**			46066	740.0	745.0	5.0	8				
		- grey to dark green colour			46067	770.0	775.0	5.0	14				
		- pillowed, pillow breccia, agglomerate			46068	800.0	805.0	5.0	6				
		740.0 to 755.0 - grey coloured, very calcite rich, sericite											
		- from 755.0' dark green, chloritic, unaltered, slight calcite, slightly magnetic											
805.0	940.0	**ULTRAMAFIC FLOW**			46069	810.0	815.0	5.0	6				
		- dark green to black colour			46070	830.0	835.0	5.0	<5				
		- many calcite veins, veinlets, 20%			46071	850.0	855.0	5.0	<5				
		- talcose, serpentine, slightly magnetic			46072	870.0	875.0	5.0	<5				
		- occasional basaltic sections			46073	902.0	906.0	4.0	22				
		- polygonal jointing, polysutures			46074	925.0	930.0	5.0	14				
		902.0 to 906.0 - basaltic interflow, chert, 10% po, tr cpy - magnetic											
940.0	1165.0	**ULTRAMAFIC BRECCIA**			46075	955.0	960.0	5.0	<5				
		- as above but rounded to angular UM in calcite matrix			46076	985.0	990.0	5.0	6				
		1062.0 to 1069.0 - fault zone - 60% calcite matrix with UM angular fragments			46077	1015.0	1020.0	5.0	<5				
		1155.0 to 1165.0 - extremely talcose, massive, brecciated, occasional thin gouge or mud, possible fault zone			46078	1040.0	1045.0	5.0	<5				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-25-1A,B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
					46079	1063.0	1068.0	5.0	8				
					46080	1085.0	1090.0	5.0	7				
					46081	1110.0	1115.0	5.0	<5				
					46082	1135.0	1140.0	5.0	6				
					46083	1155.0	1160.0	5.0	10				
1165.0	1178.0	**TALC - CARBONATE SCHIST**			46084	1165.0	1170.0	5.0	10				
		- well laminated at 80° to C.A.											
		- fragmental or agglomerate											
		- calcite, talcose laminae to 2" thick											
1178.0	1193.0	**MAFIC VOLCANIC FLOW - FE THOLEIITE**			46085	1177.0	1180.0	3.0	<5				
		- dark green colour			46086	1185.5	1186.5	1.0	7				
		- massive with many calcite fractures			46087	1188.0	1193.0	5.0	8				
		- chlorite, Fe dolomite											
		- occasional schistosity at 75° to C.A.											
		1185.9 to 1186.2 - massive po, very magnetic, calcite vein, 75° to C.A.											
1193.0	1210.0	**ULTRAMAFIC FLOW, BRECCIA**			46088	1200.0	1205.0	5.0	10				
		- black colour											
		- calcite veinlets											
		- as above											
		- very talcose											
		1193.0 to 1197.0 - talc - carbonate schist at 80° to C.A., very sharp lower contact at 65° to C.A.											
		1202.0 to 1210.0 - broken, blocky core, poor RQD, no gouge, but sections to 4" of extremely broken, soft ground											
	1210.0	**HOLE LOST DUE TO CAVE**											
		- 1210.0' hole lost due to problems at 1060.0 to 1070.0, tight ground? prevents circulation of water											
		- hole cemented to 980.0'											
		HOLE C25-1A											
		- hole re-entered but cement is too hard, hole wanders out of cement onto rock											
983.0	1058.0	**ULTRAMAFIC BRECCIA**			46089	993.0	998.0	5.0	30				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine   HOLE NO. C-251A,B

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- black to dark green colour			46090	1015.0	1020.0	5.0	27				
		- talcose angular fragments in a calcite matrix			46091	1040.0	1045.0	5.0	7				
		990.0 to 992.0 - wash 2'											
		1059.0 to 1060.0 - ground 1'											
		- occasional flow sections, selvages, polysutures											
1062.0	1066.0	**FAULT ZONE**			46092	1060.0	1066.0	6.0	29				
		- subrounded UM frays in a calcite matrix, mostly matrix											
	1066.0	**HOLE LOST DUE TO CAVE**											
		- same problems as earlier											
		- hole cemented again, drill before it gets too hard											
		HOLE C25-1B											
995.0	1050.0	- cement											
1048.0	1060.0	½ cement, ½ UM Breccia											
1060.0	1064.0	loose ?, ground UM, cement, re-drill											
1064.0	1070.0	**FAULT ZONE**			46093	1065.0	1070.0	5.0	6				
		- calcite cement fault zone											
		- 60% calcite											
1070.0	1115.0	**ULTRAMAFIC BRECCIA**			46094	1190.0	1195.0	5.0	12				
		- talcose, calcite			46095	1103.0	1108.0	5.0	7				
		1105.0 to 1107.5 - fault zone, porous, broken core											
1115.0	1155.0	**BASALT FLOW - KOMATIITE**			46096	1115.0	1120.0	5.0	8				
		- pale to dark green colour			46097	1135.0	1140.0	5.0	6				
		- highly carbonatized - calcite			46098	1145.0	1150.0	5.0	5				
		- chlorite, plagioclase, serpentine, sericite											
1155.0	1165.0	**FAULT ZONE - ULTRAMAFIC**			46099	1155.0	1160.0	5.0	7				
		- Brecciated			46100	1160.0	1165.0	5.0	<5				
		- gouge - 55° to C.A.											
1165.0	1177.0	**TALC - CARBONATE SCHIST**			46101	1170.0	1175.0	5.0	20				
		- 80° to C.A.											
		- 75% calcite laminae											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-25-1A,B

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
1117.0	1194.0	**MAFIC VOLCANIC FLOW - FE THOLEIITE**			46102	1184.0	1186.0	2.0	9				
		- dark green colour			46103	1190.0	1195.0	5.0	<5				
		- massive, calcite veinlets											
		- slightly magnetic											
		- calcite, chlorite, Fe dolomite											
		1185.0 to 1185.1 - po, very magnetic											
1194.0	1220.0	**ULTRAMAFIC BRECCIA**			46104	1200.0	1205.0	5.0	<5				
		- dark green to black colour											
		- talcose, calcite matrix, veinlets											
1220.0	1230.0	**FAULT ZONE**			46105	1220.0	1225.0	5.0	<5				
		- UM breccia with gouge and fault breccia											
1230.0	1330.0	**ULTRAMAFIC BRECCIA**			46106	1245.0	1250.0	5.0	5				
		- black to dark green colour			46107	1270.0	1275.0	5.0	<5				
		- talcose, calcite veinlets and matrix			46108	1295.0	1300.0	5.0	12				
		- at 1227.0' reduce to AQ core, rock is soft and not able to maintain wall, loose falling in hole and/or jamming rods, remove BQ rods, replace with AW casing, drill ahead with AQ rods											
		1306.0 to 1308.0 - 2' of ground core											
	1330.0	**END OF HOLE**											
		- rods still sticking, high water pressure, cave - abandon hole											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE	GRID COORDINATE 4606.09N 4237.72E	STARTED September 14, 1992	
HOLE NO. C-25-2, 2A, 2B	ELEVATION -2500	FINISHED November 11, 1992	
BEARING 148	SECTION	LENGTH 2440	
DIP COLLAR -50	STORAGE	LOGGED BY Ken Guy D. Broughton	

DIP AND BEARING TEST

FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING
50	-47	193	400	-45.5	186	1000	-36	190	1170	-33	190
100	-47	194	550	-42	186	1020	-35	190	1410	-30	190
200	-46	192	700	-39	187	1060	-34	189	1810	-28	191
300	-46	189	850	-38	191	1160	-33	190	2010	-27	192
									2440	-17	193

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		SUMMARY											
0	340.0	MAFIC VOLCANIC TUFF - FE THOLEIITE											
340.0	431.0	MAFIC FLOW - FE THOLEIITE											
431.0	477.0	MAFIC TUFF											
477.0	558.0	MAFIC VOLCANIC FLOW - FE THOLEIITE											
558.0	580.0	ALTERED MAFIC VOLCANIC - FE THOLEIITE											
580.0	595.0	MAFIC AGGLOMERATE											
595.0	610.4	DULL GREEN CARBONATE, ALTERED VOLCANIC											
610.4	663.0	GRAPHIC ARGILLITE/TUFF											
663.0	710.0	MAFIC VOLCANIC - AGGLOMERATE - FE THOLEIITE											
710.0	781.0	MAFIC FLOW - FE THOLEIITE											
781.0	823.0	ALTERED MAFIC FLOW											
823.0	828.0	MAFIC TUFF/ARGILLITE											
828.0	839.5	ALTERED MAFIC VOLCANIC											
839.5	860.0	G-ZONE - MINERALIZED ALTERED VOLCANIC											
860.0	872.0	MAFIC TUFF - FE THOLEIITE											
872.0	920.0	PILLOWED MAFIC FLOW - FE THOLEIITE											
920.0	977.0	ALTERED PILLOWED FLOW - FE THOLEIITE											
977.0	1012.0	MAFIC TUFF - FE THOLEIITE											
1012.0	1038.5	ULTRAMAFIC - BASALTIC KOMATIITE											
1038.5	1080.2	MILL ZONE 2 - ALTERED ULTRAMAFIC - BASALTIC KOMATIITE - MILL ZONE											
1080.2	1095.0	ULTRAMAFIC - SLIGHTLY ALTERED											
1095.0	1105.0	TALC - CARBONATE SCHIST											
1105.0	1295.0	ULTRAMAFIC FLOW - TALCOSE											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE	GRID COORDINATE	STARTED	DIP AND BEARING TEST											
HOLE NO. C-25-2, 2A, 2B	ELEVATION	FINISHED	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING
BEARING	SECTION	LENGTH												
DIP COLLAR	STORAGE	LOGGED BY												

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
1295.0	1308.0	ULTRAMAFIC BRECCIA - TALCOSE											
1308.0	1320.7	ULTRAMAFIC BRECCIA - FAULT ZONE, TALC											
1320.7	1353.9	ULTRAMAFIC BRECCIA - TALCOSE											
1353.9	1355.9	GREYWACKE, WEAKLY GRAPHITIC ARGILLITE											
1355.9	1439.5	ULTRAMAFIC FLOW - TALCOSE											
1439.5	1457.0	DEBRIS FLOW WITH ARGILLACEOUS MATRIX, MINOR ULTRAMAFIC FLOW											
1457.0	1466.1	ULTRAMAFIC FLOW - WEAKLY TALCOSE											
1466.1	1470.6	MAFIC VOLCANIC FLOW - FE THOLEIITE											
1470.6	1486.4	ULTRAMAFIC FLOW - TALCOSE											
1486.4	1494.0	GRAPHITIC ARGILLITE, DEBRIS FLOW WITH ARGILLACEOUS MATRIX											
1494.0	1496.6	MAFIC VOLCANIC FLOW - FE THOLEIITE											
1496.6	1502.8	ULTRAMAFIC FLOW - TALCOSE											
1502.8	1504.2	GRAPHITIC ARGILLITE/DEBRIS FLOW, GRAPHITIC FAULT											
1504.2	1600.0	ULTRAMAFIC FLOW - TALCOSE, SERPENTINE											
1600.0	1607.0	QTZ VEIN ZONE IN MAFIC VOLCANIC AND ULTRAMAFIC FLOWS											
1607.0	1639.9	MAFIC VOLCANIC FLOWS, MINOR GRAPHITIC SEDIMENT											
1639.9	1650.0	ULTRAMAFIC FLOW, TALCOSE											
1650.0	1661.4	MAFIC VOLCANIC FLOW											
1661.4	1693.5	ULTRAMAFIC FLOW, MINOR MAFIC VOLCANIC											
1693.5	1710.3	STRONGLY FOLIATED MAFIC AGGLOMERATE											
1710.3	1713.1	BANDED MAFIC - ULTRAMAFIC VOLCANIC											
1713.1	1820.1	ULTRAMAFIC FLOW - TALCOSE											
1820.1	1835.7	SILTSTONE, MINOR CONGLOMERATE AND ULTRAMAFIC											
1835.7	1872.1	CONGLOMERATE, MINOR SILTSTONE											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE	GRID COORDINATE	STARTED	
HOLE NO. C-25-2, 2A, 2B	ELEVATION	FINISHED	
BEARING	SECTION	LENGTH	
DIP COLLAR	STORAGE	LOGGED BY	

DIP AND BEARING TEST											
FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
1872.1	2253.2	ULTRAMAFIC FLOW - TALCOSE											
2253.2	2357.6	GREYWACKE, ARGILLITE, MINOR COARSE WACKE/TUFF											
2357.6	2381.3	LAPILLI TUFF, ASH TUFF/TUFFACEOUS GREYWACKE											
2381.3	2393.2	MAFIC VOLCANIC FLOW, MAFIC AGGLOMERATE											
2393.2	2401.7	WEAKLY ANKERITIC, LOCALLY WEAKLY FUCHSITIC MAFIC VOLCANIC											
2401.7	2440.0	MAFIC AGGLOMERATE, MAFIC VOLCANIC FLOW, LOCAL GRAPHITIC ARGILLITE											
	2440.0	END OF HOLE											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C-25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
0	340.0	**MAFIC VOLCANIC TUFF - FE THOLEIITE**			46109	20.0	25.0	5.0	<5				
		- dark green to black colours											
		- tuffaceous texture, schistose at 60° to C.A.			46110	36.0	43.0	7.0	13				
		- finely laminated to coarser, massive sections ie: thin flows			46111	43.0	48.0	5.0	51				
		- carbonatized, calcite disseminated and veinlets 0 - 70.0' is black colour, possible graphite, carbon			46112	75.0	80.0	5.0	14				
		- pyroxene, chlorite, plagioclase, calcite			46113	100.0	105.0	5.0	5				
		36.0 to 43.0 - fault zone, gf, py, calcite, 3' of ground core			46114	120.0	125.0	5.0	5				
		220.0 to 260.0 - more massive flow section			46115	137.5	142.5	5.0	10				
		300.0 to 340.0 - occasional narrow sections of calcite - sericite			46116	165.0	170.0	5.0	<5				
		301.0 to 302.0 - 5% po in flow top			46117	195.0	200.0	5.0	50				
		320.0 to 321.0 - 5% po, tr cpy in agglomerate			46118	220.0	225.0	5.0	10				
		- occasional narrow variolitic sections			46119	250.0	255.0	5.0	6				
					46120	270.0	275.0	5.0	5				
					46121	290.0	295.0	5.0	34				
					46122	300.0	303.0	3.0	<5				
					46123	319.0	322.0	3.0	<5				
					46124	338.0	343.0	5.0	<5				
340.0	431.0	**MAFIC FLOW - FE THOLEIITE**											
		- dark green to grey green colour			46125	360.0	365.0	5.0	<5				
		- massive with many calcite stringer laminations			46126	390.0	395.0	5.0	40				
		- 65° to C.A.			46127	413.0	418.0	5.0	6				
		- flow top and tuff sections			46128	427.0	432.0	5.0	<5				
		- narrow flows											
431.0	477.0	**MAFIC TUFF**			46129	445.0	450.0	5.0	<5				
		- calcite - amphibole - biotite schist			46130	465.0	470.0	5.0	5				
		- 65° to C.A.											
		- very homogenous, schistose, gneissic texture											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- calcite in gneissic laminae											
		- black colour											
		- lower contact very sharp at 65° to C.A.											
477.0	558.0	**MAFIC VOLCANIC FLOW - FE THOLEIITE**			46131	485.0	490.0	5.0	37				
		- dark green to grey-green colour			46132	520.0	525.0	5.0	3				
		- many thin flows, heterogenous			46133	540.0	545.0	5.0	<5				
		- flow breccia, amygdaloidal to massive sections											
		- tuffaceous sections											
		- 65° to C.A.											
		- calcite											
		520.0 to 558.0 - occasional narrow silicified sections of sericite calcite											
558.0	580.0	**ALTERED MAFIC VOLCANIC - FE THOLEIITE**			46134	558.0	562.0	4.0	22				
		- sericite, calcite			46135	562.0	565.0	3.0	60				
		- buff to grey-green colour			46136	565.0	570.0	5.0	36				
		- tuffs, thin flows			46137	570.0	575.0	5.0	22				
		- 65° to C.A.			46138	575.0	580.0	5.0	16				
		- occasional py rich sections											
		562.0 to 565.0 - vfg disseminated py, 5% - 10%, in massive sericite, calcite											
		567.0 to 574.0 - very contorted laminae minor faulting											
580.0	595.0	**MAFIC AGGLOMERATE**			46139	580.0	585.0	5.0	23				
		- calcite, sericite, chlorite frags			46140	585.0	590.0	5.0	34				
		- gf argillite, chlorite matrix			46141	590.0	595.0	5.0	6				
		- frags 0.2" to 2"											
		- 2% to 5% py											
		586.3 to 587.5 - gf argillite, 5% py, silicified											
		589.4 to 589.6 - smoky qtz vein, gf contacts											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- 65° to C.A.											
595.0	610.4	**DULL GREEN CARBONATE, ALTERED VOLCANIC**			46142	595.0	600.0	5.0	8				
		- Fe tholeiite			46143	600.0	605.0	5.0	<5				
		- calcite, Fe Dolomite, sericite, fuchsitic			46144	605.0	610.4	5.4	5				
		- silicified sections											
		- tr py											
		595.0 to 600.0 - silicified, qtz gashes											
		600.0 to 605.0 - sericitic, Fe dolomite											
		605.0 to 610.4 - DGC, Fe dolomite											
610.4	663.0	**GRAPHITIC ARGILLITE/TUFF**			46145	610.4	615.0	5.4	83				
		- slightly silicified, sericitic			46146	615.0	620.0	5.0	18				
		- carbonatized, calcite, Fe dolomite			46147	620.0	625.0	5.0	14				
		- 70° to C.A.			46148	625.0	627.0	2.0	7				
		- gf rich sections have occasional py laminations			46149	627.0	630.0	3.0	6				
		610.4 to 626.0 - gf argillite with minor gf tuff, sericitic			46150	630.0	634.0	4.0	<5				
		626.0 to 627.0 - silicified section			46151	634.0	637.0	3.0	6				
		627.0 to 634.0 - tuff, sericitic			46152	637.0	642.0	5.0	7				
		634.0 to 637.0 - DGC, 2% py, silicified			46153	642.0	646.0	4.0	11				
		637.0 to 657.0 - finely laminated argillite and tuff, slightly graphitic			46154	655.0	660.0	5.0	9				
		657.0 to 660.0 - tuff			46155	660.0	663.0	3.0	65				
		660.0 to 663.0 - tuff, agglomerate, gf rich matrix, 5% py											
663.0	710.0	**MAFIC VOLCANIC - AGGLOMERATE - FE THOLEIITE**			46156	663.0	668.0	5.0	21				
		- greyish green colour			46157	680.0	685.0	5.0	22				
		- chloritic, argillaceous matrix			46158	700.0	705.0	5.0	23				
		- 65° to C.A.											
		- mostly small fragments, stretched parallel to schistosity											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
710.0	781.0	**MAFIC FLOW - FE THOLEIITE**											
		- dark green unaltered with occasional buff altered sections			46159	720.0	725.0	5.0	<5				
		- flow textured, pillow selvages amygdaloidal, vesicular, flow top			46160	740.0	745.0	5.0	<5				
		- tops appear to be downhole to south			46161	760.0	765.0	5.0	12				
		- occasional narrow sericite, calcite and/or Fe dolomite sections			46162	770.0	775.0	5.0	<5				
781.0	823.0	**ALTERED MAFIC FLOW**			46163	780.0	785.0	5.0	9				
		- buff to grey colour			46164	785.0	790.0	5.0	10				
		- flow textured as above			46165	790.0	795.0	5.0	<5				
		- sericite, calcite, ferrodolomite			46166	800.0	805.0	5.0	<5				
		- occasional silicified sections			46167	818.0	823.0	5.0	12				
		- occasional qtz-calcite veins											
		781.0 to 790.0 - buff coloured, silicified, very hard											
823.0	828.0	**MAFIC TUFF/ARGILLITE**			46168	823.0	828.0	5.0	21				
		- green to black colour											
		- mafic tuff, graphitic argillite, chloritic argillite											
		- calcite, fe dolomite											
		- 65° to C.A.											
		823.7 to 824.6 - gf argillite, py											
828.0	839.5	**ALTERED MAFIC VOLCANIC**			46169	828.0	832.0	4.0	22				
		- DGC, grey carbonate			46170	832.0	836.0	4.0	6				
		- schistose at 70° to C.A.			46171	836.0	839.5	3.5	211				
		- laminae of calcite, fe dolomite with sericite, fuchsitic, chlorite, fe dolomite											
839.5	860.0	**G-ZONE - MINERALIZED ALTERED VOLCANIC**			46172	839.5	843.0	3.5		0.044			
		- DGC, GC, grey carbonate			46173	843.0	846.0	3.0		0.016			
		- as above with py, aspy, qv			46174	846.0	850.0	4.0		0.024			

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- 70° to C.A.			46175	850.0	853.4	3.4		0.014			
		- upper contact very abrupt, broken			46176	853.4	857.0	3.6		0.021			
		839.5 to 843.0 - 5% py, 2% qtz-cb veinlets, chlorite carbonate			46177	857.0	860.0	3.0		0.035			
		843.0 to 846.0 - DGC, 10% py, tr aspy, 5% qtz-cb veinlets usually at high angle 60° to 90° to C.A.											
		846.0 to 850.0 - GC breccia, 30% qtz-cb, 10% py, 2% aspy											
		850.0 to 853.4 - GC, DGC, 15% qtz-cb, 10% py, 2% aspy											
		853.4 to 860.0 - massive grey carbonate, 10% py, 1% aspy											
860.0	872.0	**MAFIC TUFF - FE THOLEIITE**			46178	860.0	865.0	5.0	192				
		- dark green colour			46179	870.0	875.0	5.0	11				
		- find grained											
		- finely laminated at 70° to C.A.											
		- calcite											
872.0	920.0	**PILLOWED MAFIC FLOW - FE THOLEIITE**			46180	885.0	890.0	5.0	8				
		- dark green colour			46181	910.0	915.0	5.0	5				
		- massive with chlorite - calcite pillow selvages											
		- chlorite, plagioclase, pyroxene, calcite, slight Fe dolomite											
920.0	977.0	**ALTERED PILLOWED FLOW - FE THOLEIITE**			46182	920.0	925.0	5.0	11				
		- grey colour			46183	930.0	935.0	5.0	<5				
		- as above but sericitic and increased Fe dolomite			46184	945.0	950.0	5.0	5				
		- massive, homogenous			46185	955.0	960.0	5.0	6				
					46186	965.0	970.0	5.0	8				
977.0	1012.0	**MAFIC TUFF - FE THOLEIITE**			46187	975.0	980.0	5.0	16				
		- green to dark green colour			46188	990.0	995.0	5.0	<5				
		- finely laminated at 75° to C.A.			46189	1005.0	1010.0	5.0	8				
		- laminae of chlorite with calcite, Fe dolomite											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
1012.0	1038.5	**ULTRAMAFIC - BASALTIC KOMATIITE**			46190	1015.0	1020.0	5.0	6				
		- black colour with carbonate laminae			46191	1025.0	1030.0	5.0	32				
		- serpentine, talc			46192	1034.0	1038.5	4.5	15				
		- 70° to C.A.											
1038.5	1080.2	**MILL ZONE 2 - ALTERED ULTRAMAFIC - BASALTIC KOMATIITE**			46193	1038.5	1041.5	3	274	0.008			
		- tuff, grey, green colour			46194	1041.5	1045.0	3.5	308	0.009			
		- massive, schistose at 70° to C.A.			46195	1045.0	1047.0	2	206	0.006			
		- calcite, fe dolomite			46196	1047.0	1051.0	4	274	0.008			
		1038.5 to 1041.5 - sericite, talc, 10% qv			46197	1051.0	1054.0	3	137	0.004			
		1041.5 to 1047.0 - weak DGC, occasional qv with 5% py			46198	1054.0	1058.0	4	206	0.006			
		1047.0 to 1058.0 - schistose, sericite, chlorite			46199	1058.0	1061.0	3	240	0.007			
		1058.0 to 1064.0 - DGC, tr qv, py			46200	1061.0	1064.0	3	309	0.009			
		1064.0 to 1070.0 - polysutured, sericitic, talcose			46201	1064.0	1067.0	3	69	0.002			
		1070.0 to 1074.0 - weak DGC			46202	1067.0	1070.0	3	34	0.001			
		1074.0 to 1080.2 - polysutured, sericitic			46203	1070.0	1074.0	4	103	0.003			
		1079.0 to 1080.2 - silicified, 5% py			46204	1074.0	1079.0	5	137	0.004			
					46205	1079.0	1080.2	1.2	34	0.001			
1080.2	1095.0	**ULTRAMAFIC - SLIGHTLY ALTERED**			46206	1080.2	1085.0	4.8	14				
		- talc, serpentine, sericite, chlorite			46207	1085.0	1090.0	5.0	17				
		- Fe dolomite, calcite											
		- brown to dark grey colour											
1095.0	1105.0	**TALC - CARBONATE SCHIST**			46208	1100.0	1105.0	5.0	21				
		- black colour with alternating calcite laminae (white)											
		- 75° to C.A.											
1105.0	1305.0	**ULTRAMAFIC FLOW**			46209	1125.0	1130.0	5.0	6				
		- black colour with calcite polysutures			46210	1149.0	1154.0	5.0	5				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C25-2, 2A, 2B

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- very talcose, serpentine rich			46211	1172.0	1175.0	3.0	5				
		- very soft but rock is mostly competent with occasional sheared talcose, gouge seam of 0.5 to 1 inch at high angle to C.A., 75° to C.A.			46212	1190.0	1195.0	5.0	13				
		1149.0 to 1153.0 - very talcose, sheared			46213	1215.0	1220.0	5.0	<5				
		1198.0 to 1200.0 - ground core - core was re-drilled			46214	1238.0	1243.0	5.0	6				
		1200.5 to 1201.0 - fault gouge - very soft			46215	1256.0	1261.0	5.0	7				
		1264.0 to 1277.0 - abundant calcite present as matrix material in weakly brecciated zone			46216	1270.0	1275.0	5.0	5				
		1277.0 - strongly sheared and calcite rich weakly brecciated			46217	1285.0	1290.0	5.0	10				
		1292.0 to 1305.0 - brecciated, sheared, porous rock			46218	1300.0	1305.0	5.0	7				
	1305.0	**END OF HOLE** - abandoned due to squeezing ground, rod sticking											
		- C-25-2A - Wedge off of above for another attempt to penetrate through the UM											
1023.0	1039.7	**ULTRAMAFIC FLOW**			46219	1025.0	1030.0	5.0	13				
		- black to dark green colour											
		- calcite veinlets, laminae											
		- talc, serpentine											
		- very soft, but competent											
1039.7	1047.3	**CARBONATE ROCK - UM**			46220	1039.4	1043.0	3.6	36				
		- brownish green colour			46221	1043.0	1047.3	4.3	8				
		- coarse grained massive Fe dolomite											
		1039.7 to 1042.5 - qtz-calcite vein with 30% assimilated host, 3% PY											
1047.3	1082.5	**MILL ZONE - ALTERATION ZONE**			46222	1047.3	1050.0	2.7	15				
		- mixed altered UM and altered tholeiite			46223	1050.0	1053.0	3.0	17				
		- massive, competent rock			46224	1053.0	1058.0	5.0	131				
		- occasional mineralization, qtz veining			46225	1058.0	1063.0	5.0	10				
		- 75° to C.A.			46226	1063.0	1068.0	5.0	23				

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		1047.3 to 1053.0 - weak DGC, occasional small qtz-cb veinlet, massive UM			46227	1068.0	1073.0	5.0	625				
		1053.0 to 1068.0 - Tholeiite? black, schistose, carbonatized - Fe dolomite, 1% py, tr DGC			46228	1073.0	1078.0	5.0	21				
		1068.0 to 1073.0 - DGC, 2% py, occasional qtz-cb veinlet			46229	1078.0	1082.5	4.5	422				
		1073.0 to 1082.5 - black, massive, carbonate rock, occasional remnant polysuture, tr py											
1082.5	1090.0	**ULTRAMAFIC FLOW - SLIGHTLY ALTERED**			46230	1082.5	1087.0	4.5	18				
		- greenish brown colour											
		- Fe dolomite											
		- massive, polysutures											
1090.0	1100.0	**TALC - CARBONATE SCHIST**			46231	1095.0	1100.0	5.0	16				
		- alternating green (talc) laminal with which (calcite) laminal											
		- very soft											
		- schistose at 65° to 75° to C.A.											
1100.0	1232.0	**ULTRAMAFIC FLOW**			46232	1100.0	1105.0	5.0	74				
		- black colour			46233	1120.0	1125.0	5.0	8				
		- talc, serpentine, calcite			46234	1145.0	1150.0	5.0	<5				
		- very soft, soapy, good RQD			46235	1175.0	1180.0	5.0	<5				
		1100.0 to 1104.0 - silicified			46236	1210.0	1215.0	5.0	<5				
		1104.0 to 1114.0 - 50% talc - carbonate schist											
		- after 1114.0' polysutured, massive brecciated											
		- to 1170.0' occasional 1" to 4" seam of schistose, talc, gouge											
		- after 1170.0' rock is very competent, massive, good RQD											
		1216.0 to 1220.0 - mislatch, core overdrilled											
	1232.0	**END OF HOLE** - bad ground, squeezing, tight, hole cemented											
		C25-2B - hit cement at 1135.0' start to deviate out of cement at 1160.0', by 1164.0' entirely out of cement											

CYPRUS GOLD (Canada) Ltd.

PROPERTY Kerr Mine HOLE NO. C25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
1160.0	1353.9	**ULTRAMAFIC FLOW**			46237	1170.0	1175.0	5.0	<5				
		- black colour			46238	1200.0	1205.0	5.0	<5				
		- talc, serpentine, calcite			46239	1230.0	1235.0	5.0	<5				
		- polygonal jointing, polysutures			46240	1260.0	1265.0	5.0	<5				
		- occasional seam of 1 to 4 inches of schistose talc, serpentine gouge?			46241	1275.0	1280.0	5.0	6				
		- generally rock is competent, high RQD			46242	1295.0	1300.0	5.0	<5				
		1169.0 to 1173.5 - broken, blocky, poor RQD			46243	1315.0	1320.0	5.0	<5				
		1295.0 to 1302.0 - brecciated broken rock, moderate RQD, talc seams			46244	1325.0	1330.0	5.0	<5				
		1308.0 to 1320.7 - brecciated, talc seams, friable, porous core RQD <10% R.H. 0 to 2											
		- Fault zone centred @ 1318.0' (3 inch gouge)											
		1320.7 to 1353.9 - med to dk grey, 5% - 30% (overall) deformed grey white calcite ± qtz veins, foliation @ 65° to 70°, contact @ 70° to C.A.											
1353.9	1355.9	**GREYWACKE, WEAKLY GRAPHITIC ARGILLITE**			46245	1353.9	1355.9	2.0	31				
		1353.9 to 1354.7 - med grey, greywacke, fines uphole - tops uphole. 1% py, trace po occur as irregular (sedimentary) blebs and lenses, % sulphide increasing downhole, contact @ 75° to C.A.											
		1354.7 to 1355.9 - black argillite, weakly graphitic, with 2% to 5% thinly interbedded fine greywacke/siltstone, 3 to 5% po + py, trace cp as discontinuous lenses/boudinaged beds, contact @ 75°											
1355.9	1439.5	**ULTRAMAFIC FLOW**			46246	1434.8	1439.5	4.7	<5				
		- same as 1320.7' to 1353.9' - weakly talcose, 5% to 20% calcite veining, local bands of weak brown carbonate alteration eg @ 1406', RQD >70%											
		- trace pyrite associated with weakly bleached zone below 1435.0', contact @ 43° to C.A.											
1439.5	1457.0	**DEBRIS FLOW WITH ARGILLACEOUS MATRIX, MINOR ULTRAMAFIC FLOW**			46247	1439.5	1445.0	5.5	8				
		1439.5 to 1454.1 - debris flow angular to locally rounded fragments (up to 2 to 3 inches) of ultramafic and silicified (mauve-grey) mafic flow in a matrix of black argillite, generally fragment-supported, matrix contains 1% to 2% sedimentary pyrite, overall 1% calcite veinlets			46248	1445.0	1450.0	5.0	10				

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PROPERTY Kerr Mine HOLE NO. C25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		1454.1 to 1455.3 - med grey, fg, non-talcose, possibly ultramafic flow, tr py around qtz vn			46249	1450.0	1454.1	4.1	11				
		1455.3 to 1457.0 - debris flow as above			46250	1454.1	1457.0	2.9	15				
1457.0	1466.1	**ULTRAMAFIC FLOW**											
		- med grey, massive flow, local seams of dark grey argillaceous material below 1463.5', 2% to 5% grey calcite veins - noticeably less than in above units (more basaltic chemistry?) weakly talcose, gradational contact											
		- local high angle grey qtz-calcite veins											
1466.1	1470.6	**MAFIC VOLCANIC FLOW - IRON THOLEIITE**			46251	1466.1	1470.6	4.5	68				
		- dark green, magnetic massive flow, aphanitic, locally amygdaloidal											
		- locally flow brecciated with matrix of black argillite											
		- 1% to locally 5% py in flow - fg foliation											
1470.6	1486.4	**ULTRAMAFIC FLOW**			46252	1477.0	1482.0	5.0	<5				
		- green-grey, massive flow, 5% to locally 30% grey calcite ± qtz veinlets - talcose throughout			46253	1482.0	1486.4	4.4	<5				
		- minor intercalated argillite with 1% py @ 1480.5' to 1481.5'											
		- grades to agglomeratic texture below 1474.0' fragments of massive grey ultramafic in pale grey calcitic vein breccia - tectonic agglomerate, contact @ 75° to C.A.											
1486.4	1494.0	**GRAPHITIC ARGILLITE, DEBRIS FLOW WITH ARGILLACEOUS MATRIX**			46254	1486.4	1490.0	3.6	33				
		1486.4 to 1487.9 - darker grey/black graphitic argillite with 1% to % discontinuous beds and aggregates of amorphous pyrite, tr to 1% po, grad contact			46255	1490.0	1494.0	4.0	19				
		1487.9 to 1494.0 - Debris Flow fragment supported, angular blocks to 2 inches of green-grey mafic and lesser ultramafic in a matrix of locally graphitic argillite, matrix hosts 1% to 3% irregular wisps and lenses of amorphous pyrite, fragments host trace to 1% fg-mg pyrite, grad contact - base of unit has large block of green mafic flow											
1494.0	1496.6	**MAFIC VOLCANIC FLOW - IRON THOLEIITE**			46256	1494.0	1496.6	26	7				
		- dark green, strongly magnetic											

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PROPERTY Kerr Mine   HOLE NO. C25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check
		- massive aphanitic to vfg									
		- mod calcitic - non-foliated, contact broken									
1496.6	1502.8	**ULTRAMAFIC FLOW**			46257	1496.6	1499.7	3.1	<5		
		- grades downhole from green-grey, more basaltic affinity to grey, more komatiitic, weakly to moderately talcose, non-magnetic			46258	1499.7	1502.8	3.1	<5		
1502.8	1504.2	**GRAPHITIC ARGILLITE/DEBRIS FLOW, GRAPHITIC FAULT**			46259	1502.8	1504.2	1.4	11		
		- black graphitic argillite with 5% fragments of grey ultramafic fragments of grey ultramafic, fragments are rounded and <1 inch in size, contains trace to ½% ancorphous py									
1504.2	1600.0	**ULTRAMAFIC FLOW**			46260	1504.2	1509.2	5.0	<5		
		- grey to black, talcose, serpentine, massive flow			46261	1515.0	1520.0	5.0	<5		
		- local weak beige/brown alteration @ 1523.0' to 1525.5'			46262	1525.0	1530.0	5.0	<5		
		- 5% to 20% deformed calcite veinlets, local qtz-cal. veinlets RQD >70%			46263	1540.0	1545.0	5.0	7		
		1510.7 - debris fell into hole from fault zone @ 1318.0'			46264	1560.0	1565.0	5.0	<5		
		- foliation defined by deformed calcite veinlets within ultramafic - @ 65° to C.A. @ 1545.0'			46265	1570.0	1575.0	5.0	7		
		1553.0 - reduced from NQ to BQ			46266	1575.0	1580.0	5.0	5		
		1554.0 to 1563.1 - RQD 10% to 20% - talc gouge coats the foliation and fracture planes, can squeeze water			46267	1580.0	1585.0	5.0	<5		
		1553.1 to 1578.5 - green-grey, with banks of pale yellow chlorite, local fragmental texture @ 1569.0' flow top? 1% to 2% undeformed white qtz - calcite veins cut foliation, below 1571.0'			46268	1585.0	1590.0	5.0	<5		
		- local banded texture, alternating blue-grey calcite and green chlorite, bands defined foliation @ 30° to 40° to C.A.									
		1578.5 to 1580.0 - alternating dark grey/black and banded grey/green alteration. 10% to 20% grey calcite veinlets, 2% to 3% white qtz-cal, veins from ½" to 6" wide			46269	1590.0	1595.0	5.0	<5		
		1595.0 to 1598.0 - RQD 20% talc-serp coats foliations fracture planes, minor gouge along cal vein margin @ 1598.0'			46270	1595.0	1600.0	5.0	6		
		1599.0 to 1600.0 - tholeiitic basalt, grey-green, massive, no talc, 30% grey-white qtz veins, contact broken									

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PROPERTY Kerr Mine HOLE NO. C25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
1600.0	1607.0	**QTZ VEIN ZONE IN MAFIC VOLCANIC AND ULTRAMAFIC FLOWS**			46271	1600.0	1603.2	3.2	7				
		- 70% white qtz and calcite and chlorite veins including a 3' and 2' vein (sampled), veins are simple, single opening structures except for upper margin of lower vein (@ 1605.1') - laminated greenish (Crmica?) calcite with qtz fragments wallrock is mixed mafic and ultramafic rock, also with local graphitic slips. No significant alteration, veins generally cut foliation are undeformed			46272	1603.2	1605.1	1.9	11				
		1605.1 - foliation @ 55° vein @ 135'			46273	1605.1	1607.0	1.9	<5				
		- veins are barren, wallrock hosts local amorphous and mg disseminate, py (tr-1%), trace po											
1607.0	1639.9	**MAFIC VOLCANIC FLOWS, MINOR GRAPHITIC SEDIMENT**			46274	1607.0	1610.0	3.0	4				
		- dark grey, massive textured mafic flow, aph to fg, with local graphitic sediment (flow top) @ 1634.0' numerous graphitic slips and seams from 1607.0' to 1610.0'			47275	1610.0	1620.0	10.0	5				
		- cut by local 1" to 6" qtz-cal veins (overall 5%) at low angles (<20°) to C.A. oblique to foliation			46276	1620.0	1625.0	5.0	17				
		- 1% to 3% irregular injection veinlets and seams of argillaceous material, locally graphitic, commonly chloritized these define the foliation @ 60° to 70° to C.A.			46277	1625.0	1630.0	5.0	5				
		- weakly calcitic			46278	1630.0	1635.0	5.0	<5				
		1607.0 to 1610.0 - 2% to 3% pyrrhotite - trace cp, 1% py-po occurs in graphitic seams and as blebs and bladed grains in the matrix-cp in stringer py in graphite and disseminations			46279	1635.0	1639.9	4.9	191				
		- core broken and ground below 1599.0'											
		1610.0 to 1620.0 - 8' core ground and lost											
		1620.0 to 1639.9 - 1% po disseminated in groundmass, qtz veins below 1629.5', 1% to 3% grey calcite veins											
		1639.0 - 1" qtz ± cal and pinkish brown euhedral mineral with prismatic, rhomb habitat											
		1639.9 - contact @ 62° to C.A.											
1639.9	1650.0	**ULTRAMAFIC FLOW**			46280	1639.9	1645.0	5.1	24				
		- dark green-grey to grey, weakly to moderately talcose, massive ultramafic flow											
		- 2% to 5% calcite veinlets along foliation @ 70° to 80° to C.A.											
		- RQD 60% to 70% weakly calcitic											
		- contact broken											

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PROPERTY Kerr Mine HOLE NO. C25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
1650.0	1661.4	**MAFIC VOLCANIC FLOW**			46281	1650.0	1655.0	5.0	<5				
		- medium to dark grey, non-talcose, massive aph to vfg mafic flow, weakly calcitic, 1% to 3% calcite veinlets and qtz-cal veinlets parallel and at low angles to foliation moderately foliated											
		- lower contact somewhat gradational, placed at point of increase in calcite alteration and talc											
1661.4	1693.5	**ULTRAMAFIC FLOW, MINOR MAFIC VOLCANIC**			46282	1670.0	1675.0	5.0	5				
		1661.4 to 1673.0 - banded grey calcitic and dark grey/black talcose massive ultramafic flow, banding equals foliation @ 70° to 80° to C.A. 1% local grey qtz veinlets parallel the foliation			46283	1685.0	1690.0	5.0	<5				
		1670.3 to 1673.0 - talc/serpentine along foliation and fractures, minor gouge, RQD 10% to 30%			46284	1690.0	1693.5	3.5	<5				
		1673.0 to 1675.3 - pale green, strongly calcitic, chloritic											
		1675.3 to 1686.0 - dark grey/blue-black, talcose to local wk chl, 1% to 3% cal veinlets											
		1686.0 to 1689.1 - fault zone - RQD 0% to 30% rock breaks under finger pressure from 1687.0' to 1687.9', rock fragments separated by gouge											
		1688.0 to 1689.1 - fault breccia - fragments of calcite veins disrupted by fault and cleavage planes @ 35° to C.A.											
		1690.0 to 1692.0 - chloritic, med green mafic volcanic flow , massive, aph-vfg, contact @ 20° to C.A.											
		1692.0 to 1693.5 - strongly foliated ultramafic, with bands of dark grey ultramafic disrupted to form a tectonic agglomeratic texture, talcose foliation @ 20° to 30° to C.A.											
1693.5	1710.3	**STRONGLY FOLIATED MAFIC AGGLOMERATE**			46285	1693.5	1698.5	5.0	7				
		- strongly foliated (0° to 30° to C.A.) fragmental with medium green fg mafic volcanic matrix, fragment types include 10% to 15% dark grey/black			46286	1698.5	1703.5	5.0	<5				
		- green is dull, similar to the "dull green carbonate"			46287	1703.5	1708.5	5.0	<5				
		- talcose ultramafic, 5% pale grey-green fg mafic volcanic, 1% pale green to beige or grey, silicified mafic volcanic, 2% to 5% grey disrupted calcite veins, local 1% dark grey to black calcite bands with a spheroidal/perlitic fracture pattern texture, frags up to 3"											
		- foliation @ 22° to C.A.											
		1708.5 to 1709.7 - fragments much smaller <1" - matrix somewhat softer than above, possibly ultramafic, very strong foliation											
		1709.7 to 1710.3 - similar to 1963.5' to 1708.5' gradational contact											

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PROPERTY Kerr Mine HOLE NO. C25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
1710.3	1713.1	**BANDED MAFIC/ULTRAMAFIC VOLCANIC**											
		- alternating bands (<1") of dull medium green, mafic volcanic - relatively soft but not talcose, dark grey/black talcose ultramafic, and grey calcitic ultramafic, bands are transposed into foliation - can see fold closures truncated by foliation @ 1712.6', @ 40° grad contact											
1713.1	1820.1	**ULTRAMAFIC FLOW**			46288	1720.0	1725.0	5.0	<5				
		- dark grey to blue-black, talcose, generally massive with curirplaner calcite veinlets along polygonal sutures, local zones of foliation, otherwise non-foliated, 5% to 10% calcite veins			46289	1760.0	1765.0	5.0	<5				
		1713.5 to 1715.0 - contains brecciated fragments of calcite veins			46290	1780.0	1785.0	5.0	<5				
		1720.0 to 1724.0 - local stretched core, RQD generally >70% throughout			46291	1815.0	1820.0	5.0	9				
		1798.3 - ¼" fault gouge @ 75° to C.A.											
		1804.0 to 1820.0 - weakly to moderately foliated pervasive - @ 70° to 80° to C.A.											
		1815.5 to 1820.1 - 15% to 25% calcite veins, contact @ 75°											
1820.1	1835.7	**SILTSTONE, MINOR CONGLOMERATE AND ULTRAMAFIC**			46292	1820.0	1825.0	5.0	<5				
		1820.1 to 1821.2 - blocky and conglomerate with clasts of pale green-grey to beige mafic volcanic, grey-white siliceous rhyolite (altered mafic?) in a medium green fg chloritized matrix, clast-supported, clasts up to 2", slightly rounded but blocky, weakly foliated @ 70° cut by calcite ± po vein @ 5° to C.A., grad contact			46293	1825.0	1830.0	5.0	30				
		1821.2 to 1832.5 - medium, dull greyish green fg siltstone, poorly bedded except for local thin, grey coarser beds eg @ 1827.8' to 1828.0', local thin chert beds, v. weakly to non-calcitic			46294	1830.0	1832.5	2.5	41				
		- locally brecciated by grey hairline pyrrhotite bearing veinlets - generally irregular angles, or form and stockwork			46295	1832.5	1835.7	3.2	6				
		- coarser beds contain trace to 2% fg po, contact broken											
		1832.5 to 1833.8 - green-grey, chloritic to locally weakly talcose along foliation, ultramafic, contact @ 70°											
		1833.8 to 1835.7 - pale green siltstone as above, contact @ 78° to C.A.											
1835.7	1872.1	**CONGLOMERATE, MINOR SILTSTONE**			46296	1835.7	1840.7	5.0	10				
		- polymictic conglomerate contains slightly rounded to subrounded clasts of black talcose ultramafic, green mafic volc. pale felsic/rhyolitic (siliceous) tuff, reddish fg-mg sandstone, in matrix of green silty material. Grades to green siltstone (as above) @ 1839.3' tops downhole Sharp contact @ 1839.8' to a second conglomerate unit.			46297	1850.0	1855.0	5.0	<5				

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PROPERTY Kerr Mine HOLE NO. C25-2, 2A, 2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		1859.0 to 1872.1 - increasing amount of siltstone and calcite towards the bottom of the section - some ultramafic fragments towards bottom of section also											
		- lower contact sharp at 75° to C.A.			46298	1867.1	1872.1	5.0	9				
1872.1	2253.2	**ULTRAMAFIC FLOW**			46299	1905.0	1910.0	5.0	17				
		- dark green/grey to blue-black			46300	1960.0	1965.0	5.0	<5				
		- talcose throughout			46301	1990.0	1995.0	5.0	7				
		- massive to locally polysutured texture, 1872.1' to 2128.0' overall <5% calcite veinlets, occur as 1% to 2 % thin (<¼") veinlets and local 2" to 6" sections of intense veining			46302	1995.0	2000.0	5.0	5				
		1943.0 to 1971.0 - very competent massive flow with brecciated texture due to irregular stringers and clots of black talc-chlorite			46303	2030.0	2035.0	5.0	<5				
		1990.0 to 2069.0 - RQD 30% to 50% - local zones of talc schist, with minor gouge - foliation @ varying angles to C.A. (25° to 60°), no major gouge zones			46304	2064.0	2069.0	5.0	<5				
		2071.0 - changed to AQ - rod count indicates BOTTOM OF HOLE of 2081 - confirmed			46305	2103.0	2108.0	5.0	<5				
		2118.0 - foliation @ 50° to C.A.			46306	2154.0	2159.0	5.0	<5				
		2128.0 to 2253.2 - ultramafic flow as above, but overall increase in calcite vein abundance, to 5% to 15%, calcite also occurs as disseminated clots and grains			46307	2186.0	2191.0	5.0	<5				
		2246.0 - foliation @ 53° to C.A., contact @ 60° to C.A.			46308	2215.0	2220.0	5.0	9				
					46309	2220.0	2225.0	5.0	<5				
					46310	2225.0	2230.0	5.0	<5				
					46311	2230.0	2235.0	5.0	<5				
					46312	2235.0	2240.0	5.0	<5				
					46313	2240.0	2245.0	5.0	<5				
					46314	2245.0	2250.0	5.0	<5				
					46315	2250.0	2253.2	3.2	<5				
2253.2	2357.6	**GREYWACKE, ARGILLITE, MINOR COARSE WACKE/TUFF**			46316	2253.2	2258.2	5.0	5				
		- grey fg-mg greywacke beds to 6" thick, thinly interbedded with argillite			46317	2258.2	2263.0	4.8	8				
		- non-calcitic to locally very weakly calcitic			46318	2263.0	2268.0	5.0	6				

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		- graded bedding @ 2268.0' to 2272.0' indicates tops to north			46319	2285.0	2290.0	5.0	<5				
		- 1% overall calcite veinlets, rare bedding-parallel qtz veinlets			46320	2310.0	2315.0	5.0	6				
		- rare high-angle (to bedding) qtz-cal veinlets			46321	2325.0	2330.0	5.0	10				
		- trace to locally 1% po and py in thin lenses along bedding in the argillites			46322	2345.0	2350.0	5.0	6				
		- trace to ½% py, mg, disseminated in greywackes			46323	2355.0	2357.6	2.6	5				
		2253.2 to 2255.0 - green, chloritized											
		- local sections of greywackes are coarser-grained, possibly mixed sedimentary/tuffaceous carpet											
		- more argillaceous sections commonly contain 1% to 2% rounded lensoid fragments of pale grey to purplish grey fg mafic volcanic											
		2308.0 to 2309.0 - graded bedding, fines and tops uphole bedding @ 75° to C.A.											
		2310.0 to 2357.0 - greywacke beds thicker, more poorly bedded											
		2357.0 to 2357.6 - graphitic argillite, greywacke, 5% overall massive bedded po, 1% cg disseminated py, gradational contact											
2357.6	2381.3	LAPILLI TUFF, ASH TUFF/TUFFACEOUS GREYWACKE			46324	2357.6	2362.0	4.4	21				
		- poorly bedded sequence of lapilli tuff and ash tuff or tuffaceous greywacke			46325	2362.0	2367.0	5.0	<5				
		- lapilli tuffs contain 5% to 20% lensoid deformed fragments of grey to purplish grey fg mafic volcanic, generally <1", these locally define 1" to 6" bands of >95% fragment, this texture is similar to that in the agglomerate			46326	2367.0	2372.0	5.0	<5				
		- matrix is a chloritized dark green ash			46327	2372.0	2377.0	5.0	<5				
		- ash tuff/tuffaceous greywacke predominates to 2371.5', consists of poorly to non-bedded grey to green-grey fg tuff with occasional mafic fragments			46328	2377.0	2381.3	4.3	187				
		- grey mafic fragments are strongly calcitic, matrix is weakly to non-calcitic											
		- mineralized with trace to ½% po and py disseminated locally in the matrix											
		- overall <1% calcite veinlets, no significant qtz veining											
		- moderately foliated to weakly foliated, @ 80° to 85° to C.A.											
		- lapilli are flattened and lineated within the foliation plane, contact @ 90° to C.A.											

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
2381.3	2393.2	**MAFIC VOLCANIC FLOW, MAFIC AGGLOMERATE**			46329	2381.3	2386.0	4.7	7				
		- medium grey to grey-green			46330	2386.0	2390.0	4.0	6				
		- aph to vfg mafic volcanic with alternately massive and "agglomeratic" textures			46331	2390.0	2393.2	3.2	24				
		- gradational contacts between the two types; the agglomerate is characterized by fragments of volcanic within a black, argillaceous or chloritic matrix - typically fragment - supported, texture poorly develops, generally the agglomerate texture is related to irregular injections/stringers of argillaceous material											
		- local minor (<1" to 2") sections of lapilli tuff, characterized by pale grey/beige lapilli											
		- grey, weakly calcitic to 2389.0' grad contact to grey-green, mod-strongly calcitic to 2392.2', weakly ankeritic to 2393.2', 2392.2' to 2393.2' lapilli tuff, grad contacts											
		- trace to ½% disseminated fg and cg pyrite											
2393.2	2401.7	**WEAKLY ANKERITIC, LOCALLY WEAKLY FUCESITIC, MAFIC VOLCANIC**			46332	2393.2	2398.0	4.8	8				
		- grey to locally weakly green-grey ankeritized volcanic, probably transitional tholeiite/basaltic komatiitic chemistry			46333	2398.0	2401.7	3.7	18				
		- massive textured flow											
		- banded grey/weak fuchsitic green along foliation, abundance of fuchsitic alteration is highest adjacent to a stockwork of white qtz-ankeritic veins from 2398.7' to 2401.7'											
		- moderately foliated @ 75° to 90° to C.A.											
		- mineralized with trace to locally 1% (2401.0' to 2401.7') fg aggregate pyrite, associated with qtz veins											
		2401.0 to 2401.7 - thinly banded, possibly fg interbedded sediments, contact broken											
2401.7	2440.0	**MAFIC AGGLOMERATE, MAFIC VOLCANIC FLOW, LOCAL GRAPHITIC ARGILLITE**			46334	2401.7	2406.7	5.0	46				
		2401.7 to 2403.0 - graphitic pyritic argillite, grades downhole to same with interbedded grey mafic volcanic, 1% to 3% aggregate to semi-massive pyrite, weakly ankeritic, grades to weakly calcitic			46335	2406.7	2410.0	3.3	8				
		2403.0 to 2407.0 - grey massive vfg mafic volcanic, with local slips and injection veinlets of pyritic graphite, overall 1% to 2% py			46336	2410.0	2415.0	5.0	6				
		2407.0 to 2416.9 - grey massive to locally brecciated (argillaceous injection veinlets) mafic volcanic, weakly to moderately calcitic, grad contact			46337	2415.0	2420.0	5.0	12				

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PROPERTY Kerr Mine

HOLE NO. C25-2,2A,2B

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		2416.9 to 2426.5 - mixed mafic agglomerate and lesser mafic volcanic, agglomeratic fragments same as the mafic volcanic, grad contacts, agglomerate generally fragment-supported, weak-moderate foliation @ 80° to 90° to C.A., weak to moderate calcitic, trace disseminated mg-cg py.			46338	2420.0	2425.0	5.0	6				
		2426.5 to 2440.0 - mixed green-grey mafic volcanic flows, minor agglomerate and lapilli tuff			46339	2425.0	2430.0	5.0	10				
		- weakly to moderately calcitic			46340	2430.0	2435.0	5.0	8				
		- local calcite-qtz veins subparallel to foliation @ 80° to 90° to C.A.			46341	2435.0	2440.0	5.0	<5				
		- local trace disseminated py											
	2440.0	END OF HOLE											

CYPRUS GOLD
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PROPERTY	KERR MINE	GRID COORDINATE	STARTED: Nov. 11, 1992
		4404.75N	
HOLE NO.	C-25-3,3A	3534.76E	FINISHED: Nov. 30, 1992
		ELEVATION -2500	
BEARING	154°	SECTION	LENGTH: 2736'
DIP COLLAR	-45°	STORAGE	LOGGED BY: D. Broughton

DIP AND BEARING TEST											
FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING
50	-44	156	400	-39	158	800	-38	155	1500	-33	152
100	-44	155	500	-38	158	900	-37	156	1700	-28	154
200	-44	155	600	-38	156	1000	-36	157	1900	-26	151
300	-41	158	700	-38	157	1200	-35	156	2100	-24	151

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		SUMMARY											
0	4.0	CASING											
4.0	16.7	MAFIC VOLCANIC FLOW											
16.7	162.9	ULTRAMAFIC FLOW CHLORITE/TALC											
162.9	165.0	MAFIC VOLCANIC FLOW											
165.0	192.8	ULTRAMAFIC FLOW CHLORITE											
192.8	207.5	SIDERITIC, LOCALLY SILICIFIED & PYRITIC MAFIC VOLCANIC FLOW											
207.5	291.4	ULTRAMAFIC FLOW, CHLORITE, LOCALLY ANKERITIC											
291.4	303.8	MAFIC VOLCANIC FLOW											
303.8	326.4	BANDED CHLORITIC MAFIC VOLCANIC & SILICEOUS SEDIMENT											
326.4	400.5	ULTRAMAFIC FLOW, TALC, LOC. ANKERITE											
400.5	425.2	MAFIC VOLCANIC TUFFS											
425.2	538.1	MAFIC VOLCANIC FLOWS, FLOW BRECCIA & TUFF											
538.1	539.1	ULTRAMAFIC FLOW (BASALTIC KOMATIITE)											
539.1	552.5	MAFIC VOLCANIC FLOW BRECCIA & TUFF											
552.5	658.2	MAFIC VOLCANIC FLOW, LOCAL TUFF & INTERFLOW CHERT											
658.2	677.5	MAFIC VOLCANIC FLOW & AGGLOMERATE, GRAPHITIC ARGILLITE											
677.5	707.0	ALT'D MAFIC VOLCANIC FLOW, AGGLOMERATE, ULTRAMAFIC FLOW											
707.0	732.0	GRAPHITIC ARGILLITE, SILTSTONE, MAFIC AGGLOMERATE											
732.0	768.3	MAFIC VOLCANIC FLOW & FLOW BRECCIA											
768.3	776.3	MAFIC VOLCANIC AGGLOMERATE, GRAPHIC ARGILLITE											
776.3	808.6	ANKERITIC, WEAKLY FUCHSITIC MAFIC AGGLOMERATE & ULTRAMAFIC FLOW											
808.6	816.2	TALC-CHLORITE ULTRAMAFIC FLOW & SILICIFIED MAFIC AGGLOMERATE											
816.2	870.5	MAFIC AND ULTRAMAFIC FLOW BRECCIAS, FLOWS & AGGLOMERATES											

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				DIP AND BEARING TEST											
PROPERTY KERR MINE	GRID COORDINATE	STARTED		FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING
HOLE NO. C-25-3,3A		FINISHED		2300	-23	152									
	ELEVATION			2500	-22	152									
BEARING	SECTION	LENGTH		2730	-19	148									
DIP COLLAR	STORAGE	LOGGED BY													

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
870.5	873.2	SILTSTONE, ARGILLITE											
873.2	930.3	MAFIC VOLCANIC FLOWS, FLOWTOPS, VARIOLITIC FLOW, LOCAL BASALTIC KOMATIITE											
930.3	955.8	G-ZONE - MINERALIZED MAFIC VOLCANIC FLOW - 1 to 10% PY											
955.8	994.8	MAFIC VOLCANIC FLOWS, FLOW BRECCIA, HYALOCLASTITE, VARIOLITIC FLOW											
994.8	1021.6	MAFIC VOLCANIC FLOWS, MASSIVE TO INCIPIENT PILLOWS											
1021.6	1044.3	MAFIC VOLCANIC - HYALOCLASTITE, FLOW BRECCIAS, VARIOLITIC FLOW											
1044.3	1061.3	MAFIC VOLCANIC - FLOW											
1061.3	1081.8	MAFIC VOLCANIC - FLOW, VARIOLITIC PILLOWED FLOW											
1081.8	1090.3	MAFIC VOLCANIC - FLOW											
1090.3	1119.4	MAFIC VOLCANIC - PILLOWED FLOW											
1119.4	1128.5	MAFIC VOLCANIC FLOW, MINOR TALCOSE ULTRAMAFIC FLOW											
1128.5	1173.1	TALCOSE ULTRAMAFIC FLOW											
1173.1	1240.6	MILL ZONE 2 - CALCITIC, BLEACHED, LOC. WK. FUCHSITIC ULTRAMAFIC FLOW											
1240.6	1242.0	ULTRAMAFIC FLOW - CHLORITIC											
1242.0	1400.0	ULTRAMAFIC FLOW - TALCOSE, FAULT ZONE											
		HOLE ABANDONED, WEDGED AT 1240' INTO 25-3A											
1248.0	1304.3	ULTRAMAFIC FLOW, TALCOSE, LOCAL SCHIST											
1304.3	1327.3	ULTRAMAFIC FLOW, CHLORITE/TALC CALCITE VEINS											
1327.3	1524.5	ULTRAMAFIC FLOW, TALCOSE, LOCAL SCHIST											
1524.5	1565.1	ALTERED ULTRAMAFIC FLOW/GREY/CARBONATE - CALCITE											
1565.1	1573.0	ULTRAMAFIC AGGLOMERATE											
1573.0	1579.3	ULTRAMAFIC FLOW - TALCOSE											
1579.3	1589.0	GRAPHITIC ARGILLITE, GREYWACKE - SILTSTONE, ULTRAMAFIC FLOW											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE	GRID COORDINATE	STARTED	DIP AND BEARING TEST											
			FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING
HOLE NO. C-25-3,3A		FINISHED												
	ELEVATION													
BEARING	SECTION	LENGTH												
DIP COLLAR	STORAGE	LOGGED BY												

FOOTAGE		DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE			ASSAYS				
FROM	TO					FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
1589.0	1607.7	MAFIC VOLCANIC - TUFF, AGGLOMERATE WITH ARGILLACEOUS MATRIX											
1607.7	1669.1	ULTRAMAFIC FLOW - CHLORITE, LOCAL TALC											
1669.1	1687.0	ULTRAMAFIC FLOW - BASALTIC KOMATIITE, 30% QV											
1687.0	1735.5	ULTRAMAFIC, MINOR MAFIC VOLCANIC FLOWS											
1735.5	1792.9	MAFIC VOLCANIC TUFF, LOCAL AGGLOMERATE, ULTRAMAFIC & ARGILLITE											
1792.9	1816.0	MAFIC AGGLOMERATE WITH ARGILLACEOUS MATRIX											
1816.0	1844.2	STRONGLY CALCITIC MAFIC/ULTRAMAFIC AGGLOMERATE											
1844.2	1845.4	ARGILLITE											
1845.4	1849.5	MAFIC VOLCANIC FLOW											
1849.5	1891.7	ULTRAMAFIC FLOW, TALCOSE											
1891.7	1938.1	SILICIFIED MINERALIZED MAFIC VOLCANIC FLOW											
1938.1	1946.4	ULTRAMAFIC FLOW, TALCOSE											
1946.4	1949.1	MAFIC VOLCANIC - FLOW, LOCALLY VARIOLITIC											
1949.1	1972.4	ULTRAMAFIC CONGLOMERATE											
1972.4	2066.0	ULTRAMAFIC FLOW, TALCOSE, LOC. CHLORITIC											
2066.0	2068.6	MAFIC VOLCANIC FLOW											
2068.6	2073.3	ULTRAMAFIC FLOW											
2073.3	2074.7	MAFIC VOLCANIC FLOW											
2074.7	2090.6	INTENSELY CALCITIC ULTRAMAFIC FLOW											
2090.6	2125.4	MAFIC VOLCANIC FLOWS, FLOW BRECCIAS LOC. VARIOLITIC											
2125.4	2199.0	MAFIC VOLCANIC - FLOW, AGGLOMERATE LOCAL TUFF											
2199.0	2247.5	INTENSELY CALCITIC ULTRAMAFIC FLOW											
2247.5	2297.2	ULTRAMAFIC FLOW - CHLORITE, TALC											
2297.2	2316.6	ULTRAMAFIC & LESSER MAFIC VOLCANIC FLOWS											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE	GRID COORDINATE	STARTED	
HOLE NO. C-25-3,3A		FINISHED	
	ELEVATION		
BEARING	SECTION	LENGTH	
DIP COLLAR	STORAGE	LOGGED BY	

DIP AND BEARING TEST											
FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
2316.6	2337.3	ULTRAMAFIC FLOW, TALCOSE, LOC. TALC SCHIST, ANKERITIZED											
2337.3	2342.9	MAFIC/ULTRAMAFIC FLOW (BASALTIC KOMATIITE) ANKERITIZED											
2342.9	2391.6	ULTRAMAFIC FLOW - TALC, ANKERITE											
2391.6	2401.0	MAFIC/ULTRAMAFIC FLOW (BASALTIC KOMATIITE) ANKERITIZED											
2401.0	2420.0	SOUTH ZONE - ULTRAMAFIC FLOW - PATCHY GREY & BROWN CARBONATE											
2420.0	2433.8	SOUTH ZONE - ULTRAMAFIC FLOW - GREY & BROWN CARBONATE ALTERATION											
2433.8	2446.7	SOUTH ZONE - ULTRAMAFIC FLOW - GREY/BROWN CARBONATE, WEAKLY FUCHSITIC											
2446.7	2456.3	SOUTH ZONE - ULTRAMAFIC FLOW - GREEN CARBONATE ALTERATION											
2456.3	2487.0	SOUTH ZONE - ULTRAMAFIC FLOW - GREY/BROWN CARBONATE ALTERATION											
2487.0	2493.0	SOUTH ZONE - ULTRAMAFIC FLOW - WEAK GREEN CARBONATE, QTZ VEIN											
2493.0	2497.0	SOUTH ZONE - ULTRAMAFIC FLOW - GREY CARBONATE ALTERATION											
2497.0	2511.1	SOUTH ZONE - MINERALIZED, SILICIFIED MAFIC VOLCANIC FLOW & TUFF, MINOR GRAPHIC ARGILLITE											
2511.1	2526.0	SOUTH ZONE - ULTRAMAFIC FLOW, GREY CARBONATE ALTERATION											
2526.0	2531.0	ULTRAMAFIC FLOW, PATCHY GREY CARBONATE ALTERATION											
2531.0	2548.0	ULTRAMAFIC FLOW, TALCOSE, ANKERITIZED											
2548.0	2566.0	ULTRAMAFIC FLOW, INTENSELY CALCITIC											
2566.0	2583.3	ULTRAMAFIC FLOW, TALCOSE, ANKERITIC											
2585.3	2639.9	GREYWACKE/REWORKED MAFIC TUFF, ARGILLITE											
2639.9	2664.4	MAFIC VOLCANIC - TUFF, LOC. SILICIFIED											
2664.4	2736.0	GRAPHITIC ARGILLITE, GREYWACKE, LOC. MAFIC VOLCANIC TUFF											
	2736.0	END OF HOLE											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
0	4.0	**CASING**											
4.0	16.7	**MAFIC VOLCANIC FLOW**			46342	4.0	9.0	5.0	6				
		- dark grey, grades to medium green - grey, massive mafic flow			46343	9.0	14.0	5.0	<5				
		- local fg leucoxene, non-magnetic, Fe tholeiite			46344	14.0	16.7	2.7	<5				
		- pervasive, weak to moderate calcitic, weakly silicified to 5'											
		- weakly foliated at 50° to 60° to C.A.											
		- 2% to 5% cal and qtz veinlets, at high angles to foliation											
		- trace to loc 1% disseminated mg py											
		- contact sharply gradational at 55° to C.A.											
16.7	70.2	**ULTRAMAFIC FLOW, CHLORITE (TALC) - CALCITE ALTERATION**			46345	16.1	21.7	5.0	20				
		- green-grey to locally dark grey/blue-black (talcose)			46346	21.7	26.7	5.0	<5				
		- appears massive, but primary textures generally masked by intense calcite veining and alteration			46347	32.0	37.0	5.0	<5				
		- weakly talcose with chloritic green haloes around veins to 33', grades to pervasive chlorite alteration			46458	37.0	41.6	4.6	8				
		- 20% to 60% grey calcite with qtz veins, at least 2 ages. early veins are disrupted and transposed into a strong foliation, later veins relatively undeformed.			46348	50.0	55.0	5.0	<5				
		27.0 to 34.0 - strongly foliated, almost schistose, ¼" to ½" fault gouge at 33.5 to 34.0, along foliation at 53° to C.A., RQD <20 %			46349	65.0	70.0	5.0	<5				
		- intense veining locally creates agglomeratic texture - isolated fragments of volcanic in calcite											
		41.5 to 49.3 - veining only 5% to 10%, grey-green local fleck leucoxene, soft. Low Mg basaltic komatiite? gradational lower contacts. loc tr py											
		49.3 to 70.2 - local leucoxenitic sections as above, but with >20% calcite veining throughout. loc tr py. contact gradational, change in alteration.											
70.2	128.0	**ULTRAMAFIC FLOW, TALC - CALCITE ALTERATION**			46350	85.0	90.0	5.0	<5				
		- dark grey to blue-black, massive textured, talcose			46351	102.4	107.4	5.0	52				
		- 10% to locally 30% grey calcite veinlets, some with minor qtz. Veinlets are transposed into foliation at 60° to 65° to C.A.			46352	107.4	112.4	5.0	30				
		- broken throughout, RQD overall 10% to 30%. Local ⅛" to ¼" fault gouge along zones of schisted foliation											
		88.5' - 1.5" fault gouge											

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		94.0 to 102.4 - 75% olive brown patches, non-carbonated, separated by dark grey talc haloes around network of calcite - talc veinlets. RQD >60%											
		102.4 to 109.5 - local massive aggregate py along qtz-cal vein margins, 2% to 3%, 1 to 3" qtz-cal veins											
		121.0 to 122.0 - spaced (½" to 1")shear planes disrupt the banded (calcite-veined) ultramafic, shears at 65° to C.A., oblique to regional foliation defined by talc-chlorite gradational contact											
128.0	162.9	**ULTRAMAFIC FLOW, CHLORITIC CALCITE ALTERATION**			46353	130.0	135.0	5.0	<5				
		- similar to 16.7' to 70.2'			46354	145.0	150.0	5.0	<5				
		- medium to dark grey-green, chloritic to weak talcose											
		- local polysuture textures											
		- 10 to 50% grey calcite veinlets and pervasive alteration - the strong deformation produces a tectonic layering of calcitic/chloritic bands, difficult to distinguish from disrupted calcite veins that are transposed into the foliation											
		- foliation at 50° to C.A. at 158.0'											
		- local deformed grey qtz - white calcite veins at 148.0 to 150.0, contact at irregular vein margin											
162.9	165.0	**MAFIC VOLCANIC FLOW, CHLORITE-CALCITE ALTERATION**			46355	162.9	165.0	2.1	78				
		162.9 to 163.4 - qtz-cal breccia vein with rounded fragments of white calcite vein in grey qtz - cal matrix											
		163.4 to 165.0 - dark green to grey massive mafic flow, strongly chloritized to 164.1', grey and strongly calcitic to 165.0'.											
		- tr to 1% amorphous pyrite, gradational lower contact, possibly a chloritized basaltic komatiite?											
165.0	192.8	**ULTRAMAFIC FLOW, CHLORITE-CALCITE ALTERATION**			46356	180.0	185.0	5.0	<5				
		- same as 128.0' to 162.9'			46357	185.0	189.0	4.0	5				
		- 20% to 50% transposed cal ± qtz veinlets			46358	189.0	192.8	3.8	14				
		- local late high angle undeformed calcite veinlets. Foliations at 50° to C.A. at 179.0'.											
		- RQD >60% Competent, locally broken.											
		189.0 to 192.8 - gradual decrease in % calcite, increase in banded grey carbonate/green chlorite, transition zone contact marked by qtz vein											
192.8	207.5	**SIDERITIC, LOCALLY SILICIFIED SEDIMENT/MAFIC VOLCANIC**			46359	192.8	198.0	5.2	270				
		- brownish dark grey, etches with 10% HCL to med grey			46360	198.0	203.0	5.0	393				

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- upper contact placed at change to relatively undeformed sideritic sediment(?) with 5% to 10% green chlorite stringers			46361	203.0	207.5	4.5		0.119			
		- stringers form a network, grade downhole into deformed section where transposition creates a banding of grey sediment and green chlorite											
		- massive, weakly silicified from 203.0' to 207.5'											
		- 2% to 5% qtz-cal veinlets subparallel to foliation at 50° to 60° to C.A., 205' - 1" grey qtz-chl-py vein orthogonal to foliation											
		192.8 to 203.0 - trace py, po											
		203.0 to 207.5 - 1% to 2% po, tr to 1% py in veins and dissem.											
		- deformed sections look similar to carbonated mafics/ultramafics, but massive sections may be iron carbonate sediments											
		- similar to black carbonate in Mill Zone											
		198.0 to 203.0 - broken and ground core, 85% recovery											
		- RQD overall 60%											
		- contact broken											
207.5	291.4	**ULTRAMAFIC FLOW, CHLORITE-CALCITE/ANKERITE**			46362	207.5	212.5	5.0	68				
		- similar to 165.0' to 189.0'			46363	212.5	217.5	5.0	124				
		- grey-green, intensely veined and carbonated, banded carbonate ± qtz (20% to 60%) and chloritic/talcose flow			46364	217.5	222.5	5.0	23				
		- local fragments of disrupted qtz-carb veins			46365	222.5	227.0	4.5	10				
		- local late high angle cal ± qtz veins			46366	227.0	232.0	5.0	5				
		- moderately to strongly foliated to locally schistose			46367	232.0	237.0	5.0	5				
		- foliation at 40° to C.A. at 233', at 35° to C.A. at 252'			46368	237.0	240.0	3.0	17				
		- local broken core, minor grit to 227', RQD 60% to 70%			46369	240.0	245.0	5.0	<5				
		227.5 to 230.0 - 1" fault gouge and grit followed by broken core and local gouge, RQD <10%			46370	260.0	265.0	5.0	9				
		230.0 - RQD 60% local broken schisted core			46371	265.0	270.0	5.0	11				
		207.5 to 222.0 - calcitic			46372	270.0	275.0	5.0	89				
		222.0 to 252.0 - ankerite to locally calcitic 237.0 to 240.0 - 70% to 80% qtz-ankerite vein, upper contact at 55° parallel to foliation, irregular internal contact cut foliation			46373	286.4	291.4	5.0	<5				
		252.0 to 278.0 - calcitic, local vuggy calcite veinlets, pale green chloritic/weak Cr-green mica haloes											
		278.0 to 291.4 - calcitic, grey talcose ultramafic											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		281.0 - spaced shear bands at 50% to C. A., shear sense N side up assuming steep dip											
		- contact at 45° to C.A., parallel to foliation											
291.4	303.8	**MAFIC VOLCANIC FLOW**			46374	291.4	296.4	5.0	<5				
		- dark green massive mafic flow, aph to vg, chloritic			46375	296.4	300.0	3.6	<5				
		- non-foliated to weakly foliated, stronger below 299.0'			46376	300.0	303.8	3.8	26				
		- cut by 3% to 5% qtz-cal veins, generally at high angles to foliation											
		- these locally have silicified haloes (296.4' to 300.0')											
		- trace to ½% dissem mg pyrite from 291.4' to 300.0'											
		302.0 to 303.8 - % calcite fragments/bands increases downhole gradational contact											
303.8	326.4	**BANDED CHLORITIC MAFIC VOLCANIC AND SILICEOUS SEDIMENT**			46377	303.8	308.0	4.2	<5				
		- distinctive unit characterized by 1/16 to ½" alternating bands of dark green chloritic fg mafic volcanic (tuff?) and medium grey siliceous, locally ankeritic fg sediment			46378	308.0	312.0	4.0	<5				
		- banding is discontinuous, bondinaged and possibly transposed along the foliation			46379	312.0	317.0	5.0	<5				
		- locally could be interpreted as an alteration			46380	317.0	321.9	4.9	5				
		- cut by 2% qtz-ankerite veins with coarse ankerite crystals along vein walls			46381	321.9	326.4	4.5	5				
		- both parallel and cut the banding, in which use they are buckled											
		- cut by 2% to 3% grey cal ± qtz veinlets, generally along the foliation at 55° to C.A.											
		- trace to loc 1% mg - cg dissem py											
		321.9 to 325.6 - 15% grey white ½" to 4" qtz veins cut foliation											
		323.0 to 326.4 - 50% massive green mafic volcanic as above, gradational contacts to banded volcanic, lower contact gradational											
326.4	400.5	**ULTRAMAFIC FLOW TALC - CALCITE, LOC. ANKERITE**			46382	326.4	329.4	3.0	5				
		- medium to dark grey talcose ultramafic flow			46383	329.4	334.4	5.0	18				
		326.4 to 339.0 - qtz vein zone			46384	334.4	339.0	4.6	21				
		- ultramafic is intensely altered and veined with ankerite ± qtz ribbons, cut by 5% to 10%, 1" to 6" qtz ± ankerite veins, both parallel and oblique to foliation			46385	339.0	344.0	5.0	7				
		- ankerite ribbons are strongly deformed, often chaotically disrupted			46386	360.0	365.0	5.0	<5				

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PROPERTY KERR MINE   HOLE NO. C-25-3,3A

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	FOOTAGE LENGTH	ASSAYS Au (ppb)	ASSAYS Au (opt)	ASSAYS Au (ppb) check		
		- RQD 30% to 50%, weakly talcose			46387	380.0	385.0	5.0	<5				
		339.0 to 400.5 - typical talcose flow with 55% to 20% irregular deformed calcite veinlets, ankerite to 340.5', RQD >70%, foliation at 55° to C.A. at 377.0'											
		370.0 to 384.0 - local weak, pale green chloritic haloes around carbonate veinlets											
		381.0 - 2" fragment of grey qtz vein											
		399.0 to 400.5 - becomes greener (chloritic), drop in vein %, contact at 58° to C.A.											
400.5	425.2	**MAFIC VOLCANIC TUFFS-CHLORITIZED**			46388	400.5	405.0	4.5	15				
		400.5 to 403.8 - two graded dark green fg tuff beds, both fine downhole			46389	405.0	410.0	5.0		.010			
		- contact at 402.4', chloritic, calcitic											
		- trace to 1% amorphous pyrite in bands and aggregates along the foliation/bedding											
		- bedding at 65° to C.A. at 403.8', 1% to 2% deformed calcite veinlets											
		403.8 to 425.2 - medium to dark grey fg tuff with 2% to 3% calcite ± qtz blebs											
		- 1% dark chloritic bands, rare rounded grey qtz fragments, probably a tuff											
		- 1% to 2% cal ± qtz veins gradational contact											
425.2	538.1	**MAFIC VOLCANIC FLOWS, FLOW BRECCIAS AND TUFFS**			46390	425.2	430.0	4.8	5				
		- sequence of dark green to grey-green massive mafic flows, variolitic flow, flow breccia and minor tuff			46391	445.0	450.0	5.0	200				
		- contacts generally gradational between lithologies, chloritized throughout, local leucoxeitic			46392	460.0	465.0	5.0	5				
		- variolitic, loc from 434.5' to 433.0', 482.5'			46393	485.0	490.0	5.0	<5				
		- local zones of weak grey silicification are transposed to create an agglomeratic texture			46394	530.0	535.0	5.0	16				
		- 1% calcite ± qtz veinlets, at various angles to foliation											
		- moderately to strongly foliated at 70° to 75° to C.A.											
		- local trace to 1% amorphous/aggregate pyrite											
		515.0 to 538.1 - predominantly lapilli tuff, flow breccia and grey weakly silicified flow / ash tuff											
		- contact sharp but irregular											
538.1	539.1	**MG THOLEIITIC/BASALTIC KOMATIITIC FLOW**											

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PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- grey-green with typical speckled texture of komatiites											
		- flecks of dark green chlorite											
		- massive flow, moderately foliated											
		- lower contact in zone of ground core (fell out of tube)											
539.1	552.5	**MAFIC VOLCANIC FLOW BRECCIA AND TUFF, LOCAL AGGLOMERATE**											
		- same as 515.0' to 538.1'											
		- calcite-chlorite alteration, gradational lower contact											
552.5	658.2	**MAFIC VOLCANIC FLOW, LOCAL TUFFS AND INTERFLOW CHERT**			46395	568.0	573.0	5.0	29				
		- similar to 425.2' to 515.0,' with predominantly massive mafic flow a and associated flow breccia			46396	594.0	599.0	5.0	14				
		- hyaloclastite (chloritized fragments)			46397	616.5	621.5	5.0	5				
		- local poorly developed selvages with spherulites at 556.0' to 558.0'			46398	623.5	628.5	5.0	37				
		563.5 - 2" black chert fragments in mafic volcanic matrix			46399	653.2	658.2	5.0	32				
		- overall <1% qtz ± carb veins, ½" to 2", subparallel to foliation											
		- weakly foliated at 70° to 80° to C.A.											
		552.5 to 555.0 - weakly calcitic											
		555.0 to 658.2 - weakly ankeritic											
		- notes: silicified sections commonly have a purplish grey hue (presence of hematite?) and contacts may be sharp or gradational. The alteration destroys the primary flow textures.											
		- lower contact placed at first graphitic step											
658.2	677.5	**MAFIC VOLCANIC FLOW & AGGLOMERATE, GRAPHITIC ARGILLITE, GRAPHITE**			46400	658.2	663.0	4.8	81				
		- similar to above but with interbedded graphitic argillite and graphite fault zone from 671.0' to 674.5'			46401	663.0	667.3	4.3	34				
		- well developed agglomerate texture from 663.5' to 667.3'			46402	667.3	669.6	3.3	36				
		- grey fragments of mafic volcanic is a dark green/grey (chloritic?) matrix			46403	669.6	674.5	4.9	19				
		- 5% grey mottled qtz veins, commonly with associated fg pyrite mineralization			46404	674.5	677.5	3.0	11				
		- veins generally subparallel to foliation/bedding											
		- 2% to 3% cal-qtz veins associated with graphitic fault											
		- trace to 5% mg - cg disseminated pyrite (663.0' to 667.3')											
		- local 1% to 2% fg disseminated py (667.3' to 669.6')											

CYPRUS GOLD (Canada) Ltd.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		669.4 to 669.6 - olive green sericite in mafic volcanic bedding at 70° to C.A. at 668.8'											
677.5	707.0	**ALTERED MAFIC VOLCANIC FLOW, AGGLOMERATE, ULTRAMAFIC FLOW**			46405	677.5	682.5	5.0	20				
		677.5 to 680.0 - agglomerate, angular fragments of pale grey mafic volcanic (same as altered MV above and below) in a grey/green to locally weakly fuchsitic green ankeritized volcanic matrix, matrix supported, fragments generally <2", tr to 1%, amorphous pyrite to 678.0', gradational contact			46406	692.0	697.0	5.0	172				
		680.0 to 697.0 - altered mafic volcanic flow, minor basaltic komatiitic flow			46407	697.0	702.0	5.0	12				
		- patchy brown/purplish grey silicification isolates patches of dark green chloritic flow			46408	702.0	707.0	5.0	61				
		- grey patches are ankeritic to 682.5', strongly calcitic from 682.5' to 707.0'											
		- also present are transposed to irregular grey calcite ± qtz veinlets											
		- density locally reaches >80% from 691.4' to 697.0' (basaltic komatiite?)											
		697.0 to 707.0 - agglomerate, minor massive mafic flow											
		- agglomerate has volcanic, chloritic matrix, tr to loc 1% amorphous pyrite											
		- contact broken											
707.0	732.0	**GRAPHITIC ARGILLITE, SILTSTONE, MAFIC AGGLOMERATE & FLOW**			46409	707.0	712.0	5.0	22				
		- mixed sequence, predominantly of interflow sediments and agglomerate with a dark, locally graphitic matrix			46410	712.0	715.8	3.8	46				
		707.0 to 713.0 - mafic agglomerate - differs from 697.0' to 707.0' having an argillaceous, locally graphitic matrix			46411	715.8	720.0	4.2	27				
		- fragment-supported, locally grades to in situ brecciation of mafic flow by black veinlets			46412	720.0	725.0	5.0	40				
		- fragments are mafic volcanic, aph, not altered (silicified) as in the uphole unit			46413	725.0	730.0	5.0	96				
		- 1% stringer amorphous pyrite			46414	730.0	732.0	2.0	35				
		713.0 to 714.6 - chloritized mafic flow											
		714.6 to 732.0 - graphitic argillite with associated massive pyrite beds, interbedded with siltstone and grey mafic volcanic, possibly fg tuffs											
		- local cal veins associated with graphite bedding at 70° to 75° to C.A.											

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PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		725.0 to 732.0 - broken core											
		- faulted graphite and gouge at 727.0′ to 727.5′											
		- bedding and gouge at 20° to C.A. in this zone											
		- contact broken											
732.0	768.3	**MAFIC VOLCANIC FLOW AND FLOW BRECCIA**			46415	732.0	737.0	5.0	14				
		- massive grey/green aph mafic flow			46416	759.0	763.3	4.3	245				
		- flow brecciated from 732.0′ to 735.0′, locally elsewhere			46417	763.3	768.3	5.0	28				
		- patchy development of pale purplish grey silicification, generally associated with grey carbonate qtz stockwork veinlets, very weakly ankeritic											
		- local trace amorphous pyrite, 1% to 2% late calcite veinlets											
		- RQD >70%											
		764.0 - 2" graphitic argillite											
		763.3 to 768.3 - broken core, RQD 30%											
		- contact broken at approximately 75° to C.A.											
768.3	776.3	**MAFIC VOLCANIC - AGGLOMERATE, GRAPHITIC ARGILLITE**			46418	768.3	772.3	4.0	164				
		- similar to 707.0′ to 732.0′, mafic agglomerate with fragments of grey mafic in matrix of black, pyritic graphitic argillaceous material			46419	772.3	776.3	4.0	38				
		- local beds of pyritic graphitic argillite											
		- overall 1% to 2% amorphous and coarse-grained py											
		- 2" calcite vein associated with argillite, otherwise no significant veins											
		- contact broken											
776.3	808.6	**ANKERITIC, WEAKLY FUCHSITIC MAFIC AGGLOMERATE AND ULTRAMAFIC FLOW, MINOR GRAPHITIC ARGILLITE**			46420	776.3	778.8	2.5	9				
		776.3 to 780.8 - dull green - green massive volcanic flow			46421	778.8	780.8	2.0	40				
		- ankeritized and very weakly fuchsitic with interflow graphitic sediments			46422	780.8	785.0	4.2	10				
		- associated calcite veins at 778.8′ to 779.4′, 780.1′ to 780.3′, 780.8′			46423	785.0	790.0	5.0	35				
		- probably a basaltic komatiite			46424	790.0	795.0	5.0	65				
		- local 1% to 2% fg-mg dissem py from 779.4′ to 780.1′			46425	795.0	800.0	5.0	22				
		- 1% mg amorphous pyrite in graphitic sediments			46426	800.0	804.0	4.0	6				
		- gradational contact, RQD >70%			46427	804.0	808.8	4.8	16				

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PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		780.8 to 808.6 - mixed agglomerate and ultramafic flow											
		- agglomerate characterized by silicified fragments of grey mafic volcanic in a matrix of variably altered, ankeritic-fuchsitic or ankeritic-talcose/chloritic ultramafic volcanic, alternately fragment and matrix supported											
		- local graphitic sediment at 795.0' to 795.3'											
		- ultramafic flow has typical banding of talc/weakly fuchsitic flow with grey ankerite veins and tectonic layers											
		- local qtz veins at 781.3' (1.5"), 795.3' (5" vein brecciated) and 797.9' (irregular stockwork), all generally subparallel to foliation											
		- local trace to ½% fg-mg pyrite from 796.0' to 800.0', local trace pyrite throughout											
		792.0 to 808.8 - broken core throughout											
		- RQD 10%, contact broken											
808.6	816.2	**TALC-CHLORITE ULTRAMAFIC FLOW AND SILICIFIED MAFIC AGGLOMERATE**			46428	808.6	810.9	2.3	242				
		- same as above but alteration is talc-chlorite			46429	810.9	816.2	5.3	201				
		- ankeritic to 810.9', calcitic from 810.9' to 816.2'											
		- calcitic section characterized by 10% to 20%, deformed grey/white calcite veinlets											
		- local trace fg pyrite, generally in silicified mafic fragments											
		- gradational contact RQD 40% to 60%											
816.2	870.5	**MAFIC AND ULTRAMAFIC FLOW BRECCIAS, FLOWS AN AGGLOMERATES**			46430	816.2	821.1	4.9	5				
		- very mixed sequence of both mafic and ultramafic volcanics, largely characterized by extensive flow top material including breccias, hyaloclastite, spinifex and local agglomerate			46431	830.5	835.5	5.0	<5				
		- mafics are locally variolitic, eg. at 853.8', 856.5'			46432	835.5	840.4	4.9	446				
		- spinifex at 827.7'			46433	852.3	857.3	5.0		0.024			
		- fragment size fining upwards in hyaloclastite at 836.0' indicates tops downhole			46434	865.5	870.5	5.0	409				
		- local zones of silicified, purplish grey mafic eg at 839.5' to 840.4'											
		855.0 to 856.0 - contain trace ½% py											
		- entire sequence is characterized by extensive calcite/locally ankerite veining and alteration, typical of ultramafic sequences											
		- <1% overall qtz veins											
		- moderately to locally strongly foliated											

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(Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		889.0 to 890.0 - very weakly fuchsitic ultramafic gradational contact, RQD >70%											
870.5	873.2	**SILTSTONE, ARGILLITE**			46435	870.5	873.2	2.7	69				
		- thinly bedded grey siltstone and black argillite											
		- hosts 1% to 2% amorphous and coarsely crystalline pyrite, tr to loc 1%, pyrrhotite											
		- broken contact			46436	882.3	886.7	4.4	26				
873.2	930.3	**MAFIC VOLCANIC FLOWS, ABUNDANT FLOWTOPS, VARIOLITIC FLOW, LOCAL BASALTIC KOMATIITE FLOW**			46437	891.4	896.4	5.0	20				
		873.2 to 897.1 - dark green mafic volcanic flow, hyaloclastite, flow breccia and variolitic flow			46438	903.1	907.0	3.9	37				
		- hyaloclastite characterized by dark chloritized shard-like fragments in a grey carbonated matrix			46439	907.0	910.0	3.0	31				
		- flow breccias have grey volcanic fragments in a chloritized volcanic (glassy) matrix			46440	910.0	914.9	4.9	302				
		- variolitic flow occurs adjacent to flow tops and contains 5% to locally 95% (coalesced), grey to purplish grey ¼" to 1" varioles, some are zoned			46441	914.9	918.0	3.1	550				
		- all are deformed to flattened cigar shapes within the foliation			46442	918.0	922.7	4.7	76				
		- generally calcitic with local ankerite associated with grey silification to 926.7'			46443	922.7	926.7	5.0	48				
		- 1% overall grey/white qtz veins, ½" to 1", two sets parallel and sub-orthogonal to foliation			46444	926.7	930.3	3.6	239				
		- alteration of flow top/variolite/massive flow material makes tops determination uncertain											
		- the contact at 873.2' with the sediments grades from massive flow, downhole to flow top - tops downhole											
		- local trace to ½% disseminated py associated with silicification and with altered matrix of hyaloclastite											
		897.1 to 903.1 - weakly ankeritized flow characterized by spotted texture (carbonate) typical of ultramafics											
		- possibly a basaltic komatiite, chloritized											
		- intervening section of mafic from 903.4' to 904.2' contacts parallel to foliation											
		903.1 to 930.3 - trace to local 1% py, fg-mg disseminated and in aggregate bands											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		915.1 to 915.5 - qtz-cal vein											
		927.5 to 928.4 - qtz vein, parallel to foliation, no alteration halo											
		926.7 to 930.3 - ankeritic											
		- gradational contact											
930.3	955.8	**G-ZONE - MINERALIZED MAFIC VOLCANIC FLOW**			46445	930.3	933.8	3.5		0.048			
		- grey to locally grey/green where less altered, generally massive mafic volcanic flow			46446	933.8	935.0	1.2		0.020			
		- aph to fg, locally leucoxenitic, presumably an iron tholeiite			46447	935.0	936.8	1.8		0.025			
		- moderately foliated throughout			46448	936.8	937.8	1.0		0.014			
		- alteration is associated with several grey qtz ± ankerite vein sets			46449	937.8	940.0	2.2		0.023			
		- at 90° to 110°, 35 °to 45° and 0 °to 10°, veins generally <½"			46450	940.0	943.0	3.0		0.026			
		- 90° to 110° set locally reach 1"			46451	943.0	946.6	3.6		0.022			
		- 35° to 45° and 0° to 10° veins locally continuous, also continuous with similar, regularly oriented stockwork veins, overall 5% veins			46452	946.6	950.2	3.6	90	0.003			
		- mineralization occurs predominantly in the wall rock as disseminated fg-mg pyrite, but also locally as fg pyrite within the veinlets			46453	950.2	951.6	1.4		0.019			
		- alteration is a grey, locally purplish silicification and weak ankeritization, calcite below 952.0'			46454	951.6	953.8	2.2	297	0.009			
		930.3 to 933.8 - predominantly 90° to 110° veinlets marking the upper margin of the zone, grades to 40° veinlets at 932.3', 7% to 10% pyrite, densely disseminated in local patches			46455	953.8	955.8	2.0		0.068			
		933.8 to 935.0 - 1% disseminated fg-mg pyrite, no clusters, in dark green chloritic mafic											
		935.0 to 936.8 - 7% to 10% fg-mg (more of the mg)py, fairly evenly disseminated rather than clustered, veinlets at 110°, 10° and 40° to C.A.											
		936.8 to 937.8 - ½% fg-mg disseminated py in chloritic mafic, no significant veining											
		937.8 to 940.0 - 5% to 10% fg py, % increases downhole, local clusters but generally disseminated, associated with 40° and irregular stockwork veinlets, alteration haloes around the veinlets are patchy, produce a pseudo-agglomeratic texture											
		940.0 to 943.0 - 7% to 10% fg, minor mg py, both disseminated and in clusters, 90° to 110° vein set predominates to 941.3', grades to 40° and irregular set											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		943.0 to 946.6 - 1% to 3% (local 5%) fg-mg disseminated py, in generally non-silicified and non-veined chloritic basalt, local 5% py associated with central 0.8' section of veining											
		946.6 to 951.2 - local trace to ½% fg-mg disseminated py in leucoxenitic, chloritic basalt											
		951.2 to 951.6 - 3% to 5% fg-mg disseminate py in altered basalt, veins at 110', 40° to C.A.											
		951.6 to 953.8 - local 5% fg pyrite from 953.2' to 953.5', associated with veinlets at 40° and subparallel to foliation. Otherwise nil to trace py in unaltered volcanic											
		953.8 to 955.8 - 7% to 10% fg, loc mg pyrite, disseminated in dense clusters and bands along the foliation, local banded silicified flow/non-silicified flow contact at 53° to C.A.											
955.8	994.8	**MAFIC VOLCANIC FLOWS, FLOW BRECCIAS, HYALOCLASTITE AND VARIOLITIC FLOWS**			46456	955.8	960.0	4.2		0.01			
		955.8 to 980.0 - mixed massive mafic flow and lesser flow breccia, hyaloclastite, local sections of variolitic (?) flow, varioles <1/8", pale grey, strongly deformed, could be lapilli fragments but general environment suggests flow textures. Local ½" to 1" bands of grey to beige silicified flow/coalesced varioles.			46457	960.0	965.0	5.0	8				
		- dark green chloritic and calcitic, moderately foliated at 55° to C.A. at 965' loc trace py			46459	993.2	998.0	4.8	13				
		980.0 to 993.2 - alternating hyaloclastite, flow top breccia, variolitic flow and minor massive flow, hyaloclastite typified by dark green chloritic shards in a matrix of grey/white perlitic fractures. Varioles occur within massive flow, commonly coalesce to form 1" to 6" zones of >95% varioles, eg. @ 990.2' to 990.8'.											
		- local qtz veins at 53° to 50° to C.A. lack alteration haloes, no mineralization											
		993.2 to 994.8 - trace py associated with spaced qtz veinlets at 60° to C.A.											
		- minor gouge and broken core at contact											
994.8	1021.6	**MAFIC VOLCANIC FLOWS, MASSIVE TO INCIPIENT PILLOWS**											
		- grey/green aphanitic to fg, massive mafic flow with minor local flow breccia at 1001.1' to 1002.1'											
		- local ½" chloritic bands are incipient pillow selvages											
		- calcitic throughout											
		- 1% to 2% qtz veinlets, local trace pyrite											

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PROPERTY KERR MINE   HOLE NO. C-25-3,3A

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
1021.6	1044.3	**MAFIC VOLCANIC FLOW - HYALOCLASTITE, FLOW BRECCIA AND VARIOLITIC FLOW**			46460	1021.6	1026.6	5.0	8				
		- similar to 980.0' to 993.2', generally dark green, chloritic											
		- varioles are pale creamy/beige colour, locally coalesce into 3" to 6" bands											
		- local amorphous pyrite <1% veins											
		- moderately foliated, varioles and fragments flattened and weakly lineated, foliation at 65° to C.A.											
		- massive flow from 1037.0' to 1041.0'											
		- contact parallel to foliation at 70° to C.A.											
1044.3	1061.3	**MASSIVE MAFIC VOLCANIC FLOW**											
		- dark/medium grey green, aph - fg massive mafic flow											
		- calcitic, chloritic, weakly to moderately foliated											
		- 1% to 2% calcite veinlets											
		- grades to variolitic top and dark chloritic flow top, at 1061.2' to 1061.3'											
1061.3	1081.8	**MAFIC VOLCANIC FLOWS - MIXED MASSIVE & VARIOLITIC PILLOWED**											
		- similar to above, except varioles define 2" to 3" zones separated by weakly flow brecciated material											
		- incipient variolitic pillow structures											
		- no significant veining or mineralization											
1081.8	1090.3	**MASSIVE MAFIC FLOW**											
		- medium grey/green, aph to vfg massive mafic flow											
		- gradational contact to overlying pillowed section											
1090.3	1119.4	**PILLOWED MAFIC FLOW**											
		- medium grey/green, aph to vfg with ¼" to ½" chloritic pillow selvages spaced 2" to 15"											
		- minor hyaloclastite locally in selvages, locally amygdaloidal											
		- pillow margins commonly bleached to pale creamy grey colour, locally variolitic, calcitic throughout											
		- contact at 65° to C.A., parallel to foliation											
1119.4	1128.5	**MASSIVE MAFIC VOLCANIC, MINOR TALCOSE ULTRAMAFIC FLOW**			46461	1125.7	1126.7	1.0	20				
		- as above, green chloritic massive mafic flow with intercalated dark grey talcose ultramafic at 1125.0' to 1125.4'			46462	1126.0	1128.5	2.5	7				

CYPRUS GOLD
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PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		1125.7' to 1126.4' - 5% to 7% vfg py in bands and stringers along foliation. Has a brown colour due to fineness, possibly some associated pyrrhotite, otherwise section is barren											
		- local qtz-cal veins cut foliation at 1126.0' to 1127.3'											
		- no associated alteration, trace pyrite											
1128.5	1173.1	**TALCOSE ULTRAMAFIC FLOW**			46463	1128.5	1133.5	5.0	51				
		- dark grey to blue/black, talcose, massive ultramafic flow			46464	1168.1	1173.1	5.0	48				
		- cut by 5% to 20% deformed calcite veinlets											
		- 1% calcite - talc veinlets, rare 1" to 4" calcite ± qtz veins subparallel to foliation											
		- RQD >60%, foliated at 60° to 70°, contact at 65°											
1173.1	1240.6	**MILL ZONE 2 - CALCITIC, BLEACHED, LOC. WK FUCHSITIC ULTRAMAFIC FLOW**			46465	1173.1	1178.0	4.9	120				
		- medium grey to green/grey, massive ultramafic flow			46466	1190.0	1195.0	5.0	11				
		- moderately to strongly calcitic, green sections are very weakly fuchsitic			46467	1195.0	1200.0	5.0		0.033			
		- 5% grey foliation - parallel cal ± qtz veinlets			46468	1200.0	1205.0	5.0		0.035			
		- local grey qtz veinlets, pyritic (fg-mg) haloes at 10° to 30° to C.A. or irregular at 1200.5' to 1235.5'			46469 46470	1205.0 1215.0	1210.0 1220.0	5.0 5.0	177 265				
		- moderately foliated at 65° to C.A. RQD >70%			46471	1220.0	1225.0	5.0	30				
		- possibly a basaltic komatiite			46472	1232.0	1237.0	5.0		0.050			
		- contact is gradational			46473	1237.0	1240.6	3.6	35				
1240.6	1242.0	**CHLORITIZED ULTRAMAFIC VOLCANIC**											
		- dark green, strongly chloritized volcanic with typical ultramafic spotted texture, strongly calcitic			46474	1240.6	1242.0	1.4		0.021			
		- massive to weakly foliated RQD >70%											
		- trace to 1% pyrrhotite, dissem											
		- gradational contact, parallel to foliation at 65°											
1242.0	1400.0	**TALCOSE ULTRAMAFIC FLOW**			46475	1242.0	1247.0	5.0	129				
		- dark grey to blue/black, massive to locally polysutured ultramafic flow			46476	1280.0	1285.0	5.0	90				
		- 10% to 30% calcite and calcite-talc veinlets			46477	1305.0	1310.0	5.0	8				
		- talc occurs along polysuture fractures			46478	1350.0	1355.0	5.0	7				
		- massive to locally strongly banded and foliated in veined zones			46479	1385.0	1390.0	5.0	5				

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		1242.0 to 1280.0 - RQD 10% to 30%, foliated at 50° to C.A.											
		1259.0 to 1262.0 - schistose											
		1262.0 - 4" gouge											
		1280.0 to 1381.0 - RQD 30 to 50%, talc along polysutures											
		1295.0 - local schist											
		1328.0 to 1400.0 - <5% calcite veins, polysutured											
		1381.0 to 1400.0 - RQD <10%, talcose bands spaced <½", gouge along bands throughout											
		1394.0 to 1398.0 - gouge core crumbles under finger pressure											
		1400.0' - rods stuck 3' off bottom - hole abandoned											
		C-25-3A											
	1240.0	- steel plug?											
1240.0	1248.0	- steel bypass wedge											
1248.0	1304.3	**ULTRAMAFIC FLOW, TALCOSE, LOCAL SCHIST**			46480	1295.0	1300.0	5.0	14				
		- blue/black to dark grey, locally brown			46481	1300.0	1304.3	4.3	<5				
		- massive and polysutured ultramafic flows											
		- 5% to 15% calcite veinlets, define foliation at 65° to C.A.											
		1261.0 to 1263.0 - 1" fault gouge in schist zone from 1259.0' to 1263.0'											
		- RQD <10%, overall RQD 50% to 70%											
		- contact at 60° to C.A., sheared with ¼" gouge											
1304.3	1327.3	**ULTRAMAFIC FLOW - CHLORITE/TALC, CALCITE VEINS**			46482	1304.3	1309.0	4.7	20				
		- blue/black to dark medium green and brown			46483	1309.0	1313.1	4.1	7				
		- local zones of intense calcite veining produce green chloritic, brown (biotitic?) alteration			46484	1313.1	1318.0	4.9	13				
		- overprinting background blue/black talcose flow as above			46485	1318.0	1323.0	5.0	<5				
		- green chlorite occurs adjacent to vein margins			46486	1323.0	1327.3	4.3	13				
		- brown alteration occurs in less altered wallrock away from the veins											
		- veins form stockworks and also occur parallel to C.A.											
		- RQD >70%, contact at 60° to C.A.											
1327.3	1524.5	**ULTRAMAFIC FLOW, TALCOSE**			46487	1327.3	1332.0	4.7	5				

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		- similar to 1248.0' to 1304.3', blue/black talcose ultramafic flows			46488	1390.0	1395.0	5.0	5				
		- local polysutures, <5% calcite - talc veinlets			46489	1395.0	1400.0	5.0	42				
		1327.3 to 1381.0 - RQD 60% to 70%, massive with irregular fractures along polysutures/veins			46490	1475.0	1480.0	5.0	5				
		1381.0 to 1429.0 - RQD 10%, locally 0% talc-schist, local fault zones with gouge at 1386.0' to 1387.0'											
		1393.0, 1394.0 to 1397.5, 1428.0 - polysutures and vein margins throughout are coated with talc, spacing generally <1%, foliation and faults at 45° to 65° to C.A.											
		1429.0 to 1450.0 - RQD 60% to 70%											
		1450.0 to 1457.0 - RQD <10%, no major fault zones											
		1485.0 - foliation at 52° to C.A.											
		1482.0 to 1502.0 - weakly talcose, more massive											
		1502.0 to 1510.0 - local intense calcitic alteration and veining, bleached grey colour											
		1457.0 to 1524.5 - RQD 60% to 80%, gradational contact											
1524.5	1565.1	**ALTERED ULTRAMAFIC FLOW (GREY CARBONATE) - CALCITE, LOC CHLORITE**			46491	1524.5	1529.5	5.0	7				
		- medium grey to locally green/grey alteration overprints blue/black talcose assemblage (some patches remain)			46492	1535.0	1540.0	5.0	<5				
		- local brown alteration at 1537.0'			46493	1540.0	1545.0	5.0	14				
		- green colour is pale, not fuchsitic - chlorite ± talc			46494	1555.0	1560.0	5.0	<5				
		- moderately to strongly calcitic throughout (ground mass) and carbonate veinlets 10% to 20% veinlets											
		- weakly to strongly foliated at 55° to 65° to C.A.											
		- contact at 58° to C.A.											
1565.1	1573.0	**ULTRAMAFIC AGGLOMERATE**											
		- blue/black massive talcose ultramafic flow											
		- as above forms matrix with 10% to 30% angular fragments up to several inches of pale grey fg sediments or bleached mafic volcanic											
		- matrix-supported, moderately foliated at 50° to C.A.											
		- gradational contact											
1573.0	1579.3	**ULTRAMAFIC FLOW, TALCOSE**											
		- dark grey, massive ultramafic flow, talcose, 10% calcite ± talc veinlets subparallel to foliation											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- moderately to strongly foliated at 65°											
		- contact at 65°											
1579.3	1589.0	**GRAPHITIC ARGILLITE, (GREY WACKE) - SILTSTONE, ULTRAMAFIC FLOW**			46495	1581.4	1586.0	4.6	<5				
		- thinly bedded weakly to moderately graphitic argillite and fg grey-wacke or siltstone; these are thickly bedded with pulses of ultramafic flow from 1579.3' to 1585.0'			46496	1586.0	1589.0	3.0	17				
		- fold closures??? are preserved between subparallel limbs (defined by bedding and foliation) at 70°											
		- 1585.0', indicate transposition/isoclinal folding, axial planes subparallel bedding/foliation											
		- calcite veinlets ptygmatically folded, axial plans parallel bedding/foliation											
		- trace to 1% py in argillites											
		- RQD 10% to 30%, local broken core											
		- contact at 45°											
1589.0	1607.7	**MAFIC VOLCANIC - TUFF, AGGLOMERATE WITH ARGILLACEOUS MATRIX**			46497	1592.0	1597.0	5.0	28				
		- medium green/grey, fg, non-bedded mafic volcanic (tuff?) with abundant laminae of locally graphitic argillite, grading to local sections of "agglomerate"			46498	1603.0	1607.7	4.7	177				
		- the agglomerate consists of fragments of the same mafic volcanic in a matrix of graphitic argillite and is generally fragment-supported											
		- fragments are up to several inches in size, lensord??? u shape due to flattening and stretching within the foliation plane											
		- generally angular, less commonly, poorly subrounded											
		- moderately calcitic 1% to 3% calcite veinlets, <1% qtz veins											
		- bedding/foliation at 65° to 70° to C.A.											
		- local trace py RQD >70%											
		- contact at 70°, marked by ½" argillite											
1607.7	1669.1	**ULTRAMAFIC FLOW, CHLORITE/LOCAL TALC**			46499	1620.5	1625.5	5.0	<5				
		- pale to medium green/grey, massive, fg ultramafic flow, locally dark grey where talcose, otherwise, chloritic			46500	1630.0	1635.0	5.0	<5				
		- 10% to 20% deformed calcite veinlets			46501	1656.7	1661.7	5.0	<5				
		- 1% to 2% qtz-cal veins, foliated at 65° to 75° to C.A.											
		1624.5 to 1629.0 - RQD 1% to 20%, local 1/8" zones of gouge around veins at 1624.5' to 1625.5'											
		- local trace - 1% fg-mg dissem pyrrhotite											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- contact at 82° to C.A.											
1669.1	1687.0	**BASALTIC KOMATIITE FLOW, 30% QTZ VEIN**			46502	1669.1	1972.5	3.4	20				
		- medium grey to grey/green, massive fg volcanic flow, fairly soft except where altered to green colour			46503	1672.5	1674.7	2.2	13				
		- lacks intense carbonate veining typical of ultramafics			46504	1674.7	1678.2	3.5	<5				
		- probably a basaltic komatiite/high mg tholeiite, weakly to non-foliated			46505	1678.2	1683.0	4.8	<5				
		- altered to weak green colour (epidote?) around qtz-cal veins			46506	1683.0	1687.0	4.0	<5				
		- veins are 1" to 4" in width from 1676.0' to 1678.2', also from stockworks (1680.0' to 1684.0') occasional trace pyrite associated with vein margins											
		- veins have irregular margins, included wallrock fragments											
		- calcitic throughout, RQD >70%											
		- gradational lower contact, general increase in calcite veining and softness											
1687.0	1735.5	**ULTRAMAFIC MINOR MAFIC VOLCANIC FLOWS**			46507	1710.0	1715.0	5.0	23				
		- predominantly grey to green/grey chloritic to weakly talcose ultramafic flows with local sections of darker green mafic flow											
		- some transitional Mg tholeiitic/basaltic komatiitic flow characterized by pale green colour											
		1687.0 to 1706.9 - ultramafic, grading downhole to brecciated flow top - tops to south											
		1706.9 to 1724.0 - pale to medium green bas. komatiite, <2% calcite vein, rare qtz vein, tr po											
		1724.0 to 1735.5 - grey, more ultramafic, 10% to 25% calcite veining											
		- foliated at 5° to 70° to C.A. RQD >70%											
1735.5	1792.9	**MAFIC VOLCANIC TUFF, LOCAL AGGLOMERATE & ULTRAMAFIC FLOW, ARGILLITE**			46508	1735.5	1740.5	5.0	12				
		- mixed sequence of medium dark green fg mafic tuff, local mafic agglomerate with matrix of dark argillaceous material and minor weakly talcose, intensely calcite-veined ultramafic flow			46509	1790.0	1792.9	2.9	34				
		- calcite throughout, ultramafics more strongly altered											
		- weakly to strongly foliated in the ultramafics, foliation at 60° to 70° to C.A.											
		1735.5 to 1735.8 - mafic fragments in argillaceous, matrix, grading downhole to massive mafic volc. 5% pyrrhotite, tr chalcopyrite tops uphole? 1" band (fragment) of leucoxenitic basalt within the mafic volc at 1735.9'											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		- RQD 60% to 80%, local broken core											
		1778.5 to 1779.0 - graded bedding in tuff/wacke - siltstone argillite fines downhole - tops to the south, good indicator											
		1790.0 to 1792.9 - interbedded volcanic and argillite, local graded bedding indicates tops downhole. 1% to 5% pyrrhotite in argillite beds											
		- contact at 55° to C.A.											
1792.9	1816.0	**MAFIC AGGLOMERATE WITH ARGILLACEOUS MATRIX**			46510	1792.9	1798.0	5.1	<5				
		- typical agglomerate with angular to subrounded fragments, up to several inches in size, of grey, locally leucoxenitic mafic volcanic in a matrix of dark grey to black, locally graphitic argillite, fragment-supported											
		- locally appears like in-situ brecciation											
		- fragments deformed to define foliation at 70° to C.A.											
		- trace py po, local 1% at base (1792.9')											
		- both matrix and fragments are silicified to 1795.0', fragments have a weak purplish hue											
		- veins rare, <2% cal ± qtz veins overall											
		- contact at 70° to C.A. RQD >70%											
1816.0	1844.2	**STRONGLY CALCITIC MAFIC/ULTRAMAFIC AGGLOMERATE**			46511	1825.0	1830.0	5.0	6				
		- fragments of grey mafic and lesser dark grey talcose ultramafic in a matrix of argillaceous sediment, grading downhole to volcanic matrix at 1828.0'											
		- unit is characterized by intense calcite veining and alteration, grades between fragment and matrix-supported strongly foliated at 65° to 75° to C.A., locally from 1841.0' to 1844.0' to 10° to 50°											
		- no significant qtz veining											
		- local trace po and py, RQD 60% to 70%											
		- gradational contact											
1844.2	1845.4	**ARGILLITE**			46512	1844.2	1845.4	1.2	10				
		- dark grey to black, weakly graphitic argillite											
		- poorly bedded (60°) trace po and py											
		- contact broken											
1845.4	1849.5	**MAFIC VOLCANIC FLOW**											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- medium grey massive fg mafic flow											
		- 2% to 3% calcite veinlets, weakly calcitic											
		- weekly to non-foliated, contact marked by calc. vein at 68° to C.A.											
1849.5	1891.7	**ULTRAMAFIC FLOW, TALCOSE**			46513	1886.7	1891.7	5.0		0.015			
		- medium to dark grey talcose ultramafic flow, massive v.f.g - characterized by stringers and coarse disseminated carbonate - - calcite grading to calcite											
		- ankerite below 1885.0', no qtz veins, RQD >70%											
		- contact is gradational											
1891.7	1938.1	**SILICIFIED MINERALIZED MAFIC VOLCANIC FLOW**	tr py		46514	1891.7	1894.1	2.4	10				
		- medium to dark grey, bleached to a pale beige/grey around veinlets	tr-2%, po+py		46515	1894.1	1899.1	5.0	186				
		- massive aphanitic to locally mg mafic volcanic flow	tr-1%, po+py loc 1% aspy		46516	1899.1	1904.1	5.0	153				
		- non foliated	1-2% po+py loc aspy		46517	1904.1	1909.1	5.0	99				
		- cut by 1% to 3% hairline dark grey (qtz?) veinlets, generally two sets at 30° to 50° and 120° to 150° to C.A.	2-4% po+py tr aspy		46518	1909.1	1910.6	1.5	188				
		- these veinlets have bleached, locally purplish silicification haloes (½" to 1") which produce a pervasive alteration throughout most of the unit	tr 1% po+py		46519	1910.6	1915.0	4.4	480				
		- local patches of the dark grey flow are preserved and also are strongly silicified	1% po+py tr aspy		46520	1915.0	1920.0	5.0		0.016			
		- 1% to 2% qtz ± cal veins at 10° to 30° to C.A. are also present (up to ¾") and part of the same vein system - locally have chloritic haloes	1-2% po+py tr aspy		46521	1920.0	1925.0	5.0	12				
		- mineralization is disseminated pyrite, pyrrhotite and local arsenopyrite and occurs both in dark grey and bleached sections, grains fg-mg	1-2% po+py		46522	1925.0	1930.0	5.0	9				
		- silicification begins at 1892.2', increases in intensity downhole, weakly ankeritic	tr -1% po+py		46523	1930.0	1935.0	5.0	8				
		- core broken along hairline veinlets, RQD >70%	tr - 1% po+py		46524	1935.0	1938.1	3.1	9				
		- lower contact marked by abrupt change to non-silicified ultramafic											
		- not a sharp lithological contact											
1938.1	1946.4	**ULTRAMAFIC FLOW, TALCOSE**			46525	1938.1	1943.0	4.9	<5				
		- dark grey to black talcose ultramafic flow											
		- generally massive, cut by 5% calcite veinlets											
		- grades to flow top breccia from 1946.0' to 1946.4'											

CYPRUS GOLD (Canada) Ltd.

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- moderately foliated at 70° to C.A.											
		- contact broken											
1946.4	1949.1	**MAFIC VOLCANIC FLOW, LOCALLY VARIOLITIC**			46526	1946.4	1949.1	2.7	9				
		- very dark grey to black, non-talcose flow with varioles at 1948.0' to 1948.5', coalesced to form a pseudo-pillow structure otherwise, massive flow											
		- 1% to 2% calcite veinlets											
		- tr to 1% py + po, disseminated and in stringers											
		- contact broken											
1949.1	1972.4	**ULTRAMAFIC CONGLOMERATE**			46527	1963.0	1968.0	5.0	16				
		- distinctive unit characterized by subrounded to subangular fragments of reddish brown to green fg mafic volcanic (10% to 30%), black ultramafic (<5%) and grey chert (<1%) in a chloritic to weakly talcose ultramafic matrix											
		- generally matrix-supported, clasts are up to several inches											
		- red colour is variably developed, some clasts grade from green to red (hematite?)											
		- moderately foliated at 70° to C.A., RQD 50% to 70%											
		1949.1 to 1952.8 - ultramafic conglomerate/flow with fragments of dark ultramafic											
		- clasts are commonly enveloped by a pale green chloritic alteration											
		- 1% to 5% calcite veins, trace local py											
		1971.9 to 1972.4 - sharp contact to fine grained conglomerate											
1972.4	2066.0	**ULTRAMAFIC FLOW, TALCOSE, LOC. CHLORITIC**			46528	1985.0	1990.0	5.0	8				
		- dark to medium grey to blue/black, talcose to locally chloritic, massive ultramafic flow, moderately strong foliation at 70° to 75° to C.A.			46529	2005.0	2010.0	5.0	<5				
		1972.4 to 1982.0 - <5% calcite veinlets			46530	2025.0	2030.0	5.0	<5				
		1982.0 to 2022.0 - 10% to 20% calcite veinlets			46531	2040.0	2045.0	5.0	<5				
		2022.0 to 2037.0 - 15% to 30% calcite veinlets, chloritized along vein margins			46532	2045.0	2050.0	5.0	24				
		2037.0 to 2040.3 - talcose, 10% to 20% cal veinlets											
		2040.3 to 2045.0 - local intense calcitic alteration - grey carbonate, local trace amorphous py											
		2045.0 to 2051.0 - chloritized, medium green, strongly calcitic											
		2051.0 to 2066.0 - talc/weak chlorite, <5% cal veinlets											

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PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		- gradational contact, RQD 50% to 60%											
2066.0	2068.6	**MAFIC VOLCANIC FLOW**			46533	2066.0	2068.6	2.6	21				
		- very dark green, massive, strongly chloritized mafic flow											
		- local fragments of grey qtz and cal veinlets											
		- trace to 1% dissem vfg po and py throughout											
		- contact at 85° to C.A., RQD >80%											
2068.6	2073.3	**ULTRAMAFIC FLOW**											
		- same as 2040.3' to 2045.0' chloritic, grey, strongly calcitic											
		- gradational contact RQD >70%											
2073.3	2074.7	**MAFIC VOLCANIC FLOW**											
		- same as 2066.0' to 2068.6', RQD >80%											
		- gradational contact											
2074.7	2090.6	**INTENSELY CALCITIC ULTRAMAFIC FLOW**			46534	2081.0	2086.0	5.0	<5				
		- similar to 2040.3' to 2045.0', grey, strongly calcitic, local patches of dark green chloritized ultramafic			46535	2086.0	2090.6	4.6	<5				
		- contact at 90° to C.A., strongly sheared and veined											
		- RQD >70%											
2090.6	2125.4	**MAFIC VOLCANIC FLOWS, FLOW BRECCIA, LOC. VARIOLITIC**			46536	2090.6	2095.0	4.4	70				
		- heterogenous sequence of dark green to black mafic flows (iron tholeiites), locally bleached to grey or purplish grey in variolite sections			46537	2100.0	2105.0	5.0					
		- flow breccia (dark fragments in green chloritic mafic volcanic matrix) and hyaloclastite are common			46538	2120.0	2123.0	3.0	62				
		- weakly to moderately foliated at 70° to 85° to C.A.											
		- white qtz ± cal veins at 2113.0' to 2113.3', 2120.0' to 2120.5', 2122.4' to 2122.8', with no significant alteration haloes											
		- subparallel to foliation											
		2090.6 to 2094.0 - dark green chloritic flow similar to 2066.0' to 2068.6', softer than downhole mafics, gradational contact.											
		2101.0 to 2103.0 - local coalesced purplish varioles, similar to those in 17 orebody											
		- calcite throughout											
		- local trace pyrite disseminated											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- contact at 75° to C.A., RQD >80%											
2125.4	2199.0	**MAFIC VOLCANICS - FLOWS, AGGLOMERATE, LOC TUFF**			46539	2145.0	2150.0	5.0	28				
		- mixed sequence of green/grey to grey massive fg mafic flow, mafic agglomerate with angular grey mafic volcanic fragments in a paler grey volcanic matrix			46540	2165.0	2170.0	5.0	29				
		- local lapilli tuff at 2125.4' to 2126.4'											
		- massive flows locally have hyaloclastic flow tops											
		- moderately foliated at 70° to 80° to C.A.											
		- weakly to moderately calcitic throughout											
		- local trace py po											
		- <1% overall qtz veins, generally ½" to 2" oblique to the foliation											
		2164.0 to 2164.5 - grades from massive flow to agglomeratic flow top, sharp contact to downhole massive flow, tops to south											
		2195.5 to 2199.0 - mixed flow and flow top breccia											
		- gradational contact, RQD >80%											
2199.0	2247.5	**INTENSELY CALCITIC ULTRAMAFIC FLOW (GREY CARBONATE)**			46541	2199.0	2204.0	5.0	8				
		- medium to pale grey, intensely calcitic ultramafic flow with bands and isolated lenses of green talcose/chloritic flow separated by 60 to 90% grey calcite bands and veinlets			46542	2204.0	2209.0	5.0	90				
		- moderately foliated at 75° to 85° to C.A.			46543	2215.0	2220.0	5.0	10				
		- core calcite - qtz veinlets, fragments, local tr to ½% py			46544	2230.0	2235.0	5.0	5				
		2027.0 to 2047.5 - calcite less intense, 30% to 70%											
		- gradational contact, RQD 60%											
2247.5	2297.2	**ULTRAMAFIC FLOW, CHLORITE - TALC**			46545	2253.4	2258.4	5.0	21				
		- dark grey to greenish/grey, locally green (chloritic)			46546	2280.0	2285.0	5.0	38				
		- massive ultramafic flow, 10% to 20% calcite veinlets - foliation at 70° to 85° to C.A., loc. wk. talcose			46547	2285.0	2290.0	5.0	5				
		2253.4 to 2254.0 - qtz-cal vein subparallel to foliation											
		2280.0 to 2290.0 - strongly calcitic, locally pervasive altered to pale grey colour, local trace disseminated mg py											
		- contact masked by calcite veinlets											
2297.2	2316.6	**ULTRAMAFIC & LESSER MAFIC FLOWS**			46548	2297.2	2300.0	2.8	16				

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- mixed sequence, predominantly ultramafic flows as above (chloritic/talcose) intercalated with grey to green/grey mafic flows, foliated at 85°			46549	2300.0	2304.6	4.6	<5				
		2297.2 to 2300.0 - medium grey massive mafic flow/tuff with local ¼ to ½" bands of talcose ultramafic, local tr - ½% mg disseminated py			46550	2307.5	2310.6	3.1	8				
		2300.0 to 2304.6 - green grey to brownish grey, soft ultramafic flow, generally chloritic. 20% to 40% calcite veining and pervasive alteration, local trace mg py			46551	2310.6	2312.6	2.0	5				
		2304.6 to 2307.5 - blue/black talcose ultramafic flow, locally altered to dark brownish grey, gradational contact											
		2307.5 to 2310.6 - intensely calcitic, locally chloritic ultramafic flow, green/brown - grey, ribboned texture due to banding of calcite/flow, contact at 85° to C.A.											
		2310.6 to 2312.6 - drab green/grey to dark brownish grey, weakly ankeritic ultramafic to mafic flow, possibly a basaltic komatiite. 5% grey calcite veins parallel to foliation, ½% to 1% disseminated fg-mg py, commonly in aggregate											
		- gradational contact RQD - 60% to 70%											
2316.6	2337.3	ULTRAMAFIC FLOW, TALCOSE, LOCAL TALC SCHIST - ANKERITIZED			46552	2320.0	2325.0	5.0	5				
		- blue black to dark grey, ultramafic flow, loc. tr py											
		- moderate to strongly talcose, RQD 30% to 50%											
		- characterized by disseminated clots and crystals of ankerite/iron calcite, 5% to 10% calcite/ankerite veinlets											
		2333.3 to 2334.5 - talc schist, local gouge around 1" grey calcite vein at 2333.4'											
		- contact parallel to foliation at 85° to C.A.											
2337.3	2342.9	MAFIC/ULTRAMAFIC FLOW (BASALTIC KOMATIITE), ANKERITIZED			46553	2337.3	2343.9	5.6	23				
		- grades between typical mottled ultramafic texture, soft and dark grey, and medium grey with patches of pale green/grey calcite alteration											
		- probably a basaltic Komatiite, ankeritized as in above unit from 2337.3' to 2341.5'											
		- calcitic from 2341.5' to 2342.9'											
		- overall <5% calcite/ankerite veinlets											
		- contact at 85° to C.A., RQD >70%											
2342.9	2391.6	ULTRAMAFIC FLOW, TALC, ANKERITE			46554	2346.7	2351.0	4.3	6				

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		- dark grey to blue/black, similar to 2316.3' to 2337.3'			46555	2355.0	2360.0	5.0	85				
		- RQD 40% to 60%, local broken core, local qtz-ank veins at 2346.8', 2356.0', subparallel to foliation at 80° to 85° to C.A.			46556	2380.0	2385.0	5.0	480				
		- contact at 77° to C.A.											
2391.6	2401.0	**MAFIC/ULTRAMAFIC FLOW (BASALTIC KOMATIITE) ANKERITIZED**			46557	2391.6	2396.0	4.4	84				
		- medium grey to locally grey/green, similar to 2337.3' to 2342.9'			46558	2396.0	2401.0	5.0	26				
		- grades between mafic and ultramafic appearance, hardness, green (more chloritized) for 2" to 4" adjacent to margins, non-talcose											
		- 3% to 5% ankerite ± qtz veinlets subparallel to C.A., ankeritized with fine/mg disseminated ankerite throughout											
		- local trace py											
		- gradational contact											
2401.0	2420.0	**SOUTH ZONE - ULTRAMAFIC FLOW PATCHY GREY & BROWN CARBONATE ALTERATION**			46559	2401.0	2405.0	4.0	10				
		- massive ultramafic flow, characterized by a dark green/black colour alternating with a brownish grey to pale grey colour, 10% to 30% mg to cg disseminated ankerite (% increases downhole) and ankerite clots			46560	2405.0	2410.0	5.0	8				
		- these grade into distinct veins and network veins of ankerite			46561	2410.0	2415.0	5.0	24				
		- no significant qtz veining, weakly foliated at 75° to 85°			46562	2415.0	2420.0	5.0	10				
		- nil pyrite, RQD >70%											
		- gradational contact											
2420.0	2433.8	**SOUTH ZONE - ULTRAMAFIC FLOW, GREY & BROWN CARBONATE ALTERATION**			46563	2420.0	2425.0	5.0	35				
		- medium grey to locally brown			46564	2425.0	2430.0	5.0	19				
		- intensely ankeritized, semi-pervasive grey ankeritized flow with patches of brown, ankeritized flow			46565	2430.0	2433.8	3.8	16				
		- coarse clots and grains of ankerite form 80% to 90% of the rock											
		- lacks the disseminated/clotty texture of previous unit											
		- 5% to 10% dark grey 1/16" to ¼" ankerite ± qtz veinlets with coarse ankerite crystals											
		- weakly foliated (70° to 85°) to non-foliated											
		- RQD >70%											
		- trace to nil disseminated fg-mg pyrite											
		- 2433.8' broken, rubbly core											
		- gradational contact											
2433.8	2446.7	**SOUTH ZONE - ULTRAMAFIC FLOW, GREY/BROWN CARBONATE, WEAKLY FUCHSITIC**			46566	2433.8	2437.0	3.2	9				

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		- as from 2420.0′ to 2433.8′, but with 2% to 3% patchy fuchsite, developed in both grey and brown carbonate alteration, generally, the brown carbonate forms distinct zones, isolated by narrow (up to ½") bands/veinlets of grey to white ankerite, commonly coarse-grained			46567	2437.0	2442.0	5.0	48				
		- weakly to non-foliated, 75° to 85°, RQD >70%			46568	2442.0	2446.7	4.7	14				
		- local trace disseminated fg-mg pyrite											
		- grey/white qtz vein, ¼" to ½" @ 20° to C.A. @ 2443.5′, no alterations or mineralizations halo, gradational contact											
2446.7	2456.3	SOUTH ZONE, ULTRAMAFIC FLOW, FUCHSITIC GREEN CARBONATE ALTERATION			46569	2446.7	2450.0	3.3	9				
		- as above but with weakly to strongly developed fuchsitic alteration			46570	2450.0	2453.7	3.7	14				
		- generally a dark to medium green colour, not quite strong enough except locally to be classed as emerald green			46571	2453.7	2456.3	2.5	16				
		- background is grey carbonate as above											
		- fuchsitic alteration is most intense adjacent to low-angle grey/white qtz-ankerite veins with typical zonation of coarse ankerite along vein walls and grey qtz in centre											
		- veins at 0°to 20° to C.A.form 10% to 20% of rock except from 2448.0′ to 2450.0′ (<2%)											
		- trace disseminated fg-mg pyrite, local cp in qv											
		- gradational contact											
2456.3	2487.0	**SOUTH ZONE - ULTRAMAFIC FLOW, GREY/BROWN CARBONATE**			46572	2456.3	2460.0	3.7	9				
		- same as 2420.0′ to 2433.8′, also weakly fuchsitic from 2456.3′ to 2458.0′			46573	2460.0	2465.0	5.0	6				
		- no qtz veining, weakly foliated at 75° to 85°			46574	2465.0	2470.0	5.0	16				
		- 5% to 10% grey ankerite veinlets			46575	2470.0	2475.0	5.0	15				
		- trace fg-mg disseminated pyrite			46576	2475.0	2480.0	5.0	9				
		- predominantly grey carb to 2474.0′			46577	2480.0	2484.0	4.0	16				
		- predominantly brown carb from 2474.0′ to 2487.0′			46578	2484.0	2487.0	3.0	90				
		- gradational contact, RQD >70%											
2487.0	2493.0	**SOUTH ZONE - ULTRAMAFIC FLOW, WEAKLY FUCHSITIC, 3" QTZ VEIN**			46579	2487.0	2490.0	3.0	10				
		- weak green carbonate, fuchsitic alteration roughly centred upon 3" grey qtz vein at 2488.4′, at 35° to C.A.			46580	2490.0	2493.0	3.0	15				
		- also associated are 2% to 3% low angle qtz-ankerite veinlets (<¼")											
		- at 0° to 20° to C.A., qtz vein has trace fg-mg pyrite ???											
		- trace to locally ½% fg dissem py, locally associated with the qtz veining, eg. 2491.5′ to 2493.0′											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-3,3A

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		- gradational contact, RQD >70%			46581	2493.0	2497.0	3.0	8				
2493.0	2497.0	**SOUTH ZONE - ULTRAMAFIC FLOW, GREY CARBONATE**											
		- as above, no significant qtz veining											
		- 1% mg disseminated pyrite from 2496.3' to 2497.0'											
		- commonly flattened along foliation at 75° to C.A.											
		- contact at 75°											
2497.0	2511.1	**SOUTH ZONE - MINERALIZED, SILICIFIED MAFIC VOLCANIC FLOW & TUFF, MINOR GRAPHITIC ARGILLITE**			46582	2497.0	2499.1	2.1		0.091			
		2497.0 to 2501.1 - interbedded medium grey mafic volcanic, fg ash tuff grading to fg-mg lapilli tuff (2499.7' to 2500.5') and graphitic argillite			46583	2499.1	2501.0	1.9	135	0.004			
		- the finer tuffs are thinly interbedded with argillite from 2497.0' to 2499.1' and are probably reworked			46584	2501.0	2503.0	2.0	365	0.011			
		- coarser lapilli tuff grades downhole into a fine ash tuff, topped by 2" of graphitic pyritic argillite at 2501.0, tops to the south			46585	2503.0	2506.0	3.0	295	0.009			
		- grading in the thinly bedded sequence also indicates tops to south			46586	2506.0	2511.1	5.1		0.026			
		- bedding parallel to foliation at 70° to 85° to C.A.											
		- weakly to moderately silicified, ankeritic											
		2497.0 to 2499.1 - 1% to 3% amorphous and aggregate stringer/bedded pyrite - 3% to 5% bedding - parallel 1/8" to ½" qtz veins - 1% to 3% buckled ank-qtz veins oblique to foliation bedding which is axial planer???											
		2499.1 to 2501.0 - trace pyrite, weakly silicified											
		2501.0 to 2510.6 - medium grey to purplish grey, aph to vfg mafic volcanic, possibly a flow.											
		- no bedding or grading to indicate tuffaceous origin											
		- silification and purplish alteration are associated with pyrite mineralization in broad haloes around qtz veins and stockworks											
		- dominant vein orientation is 10° to 30° to C.A.											
		- veins are generally <½" but one 2" vein occurs at 2508.0'											
		- veins composed of smoky grey qtz, locally with ankeritic walls											
		- pyrite and trace chalcopyrite rim the margins											
		- the host volcanic is weakly to non-foliated											
		- local brecciated textures at 2504.0' to 2505.0' are due to close spacing of lighter grey ankerite ± qtz stockwork veinlets (<1/8")											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE | HOLE NO. C-25-3,3A |

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		2501.0 to 2503.0 - 2% to 4% disseminated fg-mg py, local trace chalcopyrite, 2% to 3% qtz vein, moderately silicified, purplish											
		2503.0 to 2506.0 - tr to 1% disseminated fg py, 1% to 2% qtz vein, weakly silicified											
		2506.0 to 2511.1 - 1% to 3% disseminated fg-mg py, trace chalcopyrite, 2% to 5% qtz vein, moderately silicified and purplish											
		2510.0 to 2511.1 - grades to weakly graphitic argillite, trace py											
		- contact broken, RQD >70%											
2511.1	2526.0	**SOUTH ZONE - ULTRAMAFIC FLOW, GREY CARBONATE**			46587	2511.1	2516.1	5.0	65				
		- as from 2493.0' to 2498.0', semi-massive grey ankeritized ultramafic flow			46588	2516.1	2521.0	4.9	15				
		- no qtz veining			46589	2521.0	2526.0	5.0	8				
		- trace disseminated fg-mg pyrite											
		- gradational contact, RQD >70%											
2526.0	2531.0	**ULTRAMAFIC FLOW, PATCHY GREY CARBONATE**			46590	2526.0	2531.0	5.0	26				
		- as above but with patchy grey carbonated ultramafic alternating with dark grey weakly talcose ultramafic flow, 5% to 15% coarse ankerite, trace to my pyrite											
		- gradational contact, RQD >70%											
2531.0	2548.0	**ULTRAMAFIC FLOW, TALCOSE, ANKERITIZED**			46591	2531.0	2535.0	4.0	18				
		- dark grey to blue/black, talcose ultramafic flow			46592	2535.0	2540.0	5.0	15				
		- 10 to 20% disseminated and clotted ankerite and ankerite veinlets											
		2531.0 to 2535.0 - brownish, 5% fg disseminated ankerite, groundness vfg and soft, non talcose gradational contact											
		2548.0 - gradational contact - marked by change to calcite alteration											
2548.0	2566.0	**ULTRAMAFIC FLOW, INTENSELY CALCITIC**			46593	2550.0	2555.0	5.0	13				
		- banded appearance, alternating pale grey/dirty white calcite with darker calcitic ultramafic											
		- banding defines a strong foliation at 80° to C.A.											
		- local brownish grey colour in ultramafics											
		- grades downhole below 2563.0' into dark grey weakly talcose ultramafic with calcite bands											

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PROPERTY KERR MINE　　HOLE NO. C-25-3,3A　　

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- local trace pyrite, no qtz veins, RQD >70%											
		- gradational contact											
2566.0	2585.3	**ULTRAMAFIC FLOW, TALCOSE, ANKERITIC**			46594	2570.0	2575.0	5.0	10				
		- as from 2535.0' to 2548.0' with disseminated clots and coarse grains of ankerite in a blue/black ultramafic			46595	2580.3	2585.3	5.0	24				
		- local calcitic/ankeritic bands/veins parallel foliation at 75° to 85° to C.A.											
		- talc content increases downhole, changes to olive green colour											
		2579.0 to 2585.3 - RQD 30% to 40%, no gouge											
		- no significant qtz veining											
		- contact broken											
2585.3	2639.9	**GREYWACKE/REWORKED MAFIC TUFF, ARGILLITE**			46596	3585.3	2590.4	5.1	40				
		- sequenced, thick, medium grey, locally graded greywacke/volcanic sediment beds generally <2' thick, interbedded with argillite			46597	2590.4	2595.0	4.6	53				
		2583.3 to 2590.4 - silicified, fg greywacke/reworked tuff, 1% disseminated mg pyrite, silicification intensity decreases downhole, 1% to 3% calcite veinlets			46598	2620.0	2625.0	5.0	14				
		2590.4 to 2638.1 - interbedded wacke/argillite			46599	2633.1	2638.1	5.0	80				
		- graded bedding at 2590.8', 2612.0' fines uphole			46600	2638.1	2639.9	1.8	74				
		- tops to north, possibly indicative or origin unrelated to that of the Mine Sequence?											
		- bedding at 65% to 75% to C.A.											
		- trace disseminated mg pyrite											
		- RQD 60%, local broken and blocky ground											
		2638.1 to 2639.9 - interbedded graphitic argillite and green/grey to purple altered vfg pyritic mafic volcanic (probably tuff)											
		- bedding/main foliation at 70° to C.A., deformed by spaced shear bands (½" space) - at 40° to C.A., best developed in the argillite											
		- pyritic mineralization in the adjacent mafic occurs along veinlets subparallel to the shear bands, oblique to the foliation											
		- 1% to 4% fg-mg py, trace po											
		- contact at 70° to C.A.											
2639.9	2664.4	**MAFIC VOLCANIC TUFFS LOCALLY SILICIFIED**			46601	2639.9	2644.0	4.1	78				

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PROPERTY KERR MINE HOLE NO. C-5-3A

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		- medium green to grey fg ash tuff to lapilli tuff, 5% to 10% scattered 1" to 2" bands of purplish silicified tuff			46602	2644.0	2649.0	5.0	5				
		- fragment size grades between fine and coarse			46603	2649.0	2654.0	5.0	33				
		- calcitic, moderately foliated at 70° to 75° to C.A.			46604	2654.0	2659.0	5.0	6				
		2639.9 to 2640.6 - 1% to 2% fg-mg py, tr po			46605	2659.0	2664.4	5.4	<5				
		2641.0 to 2648.0 - 2% to 3% grey qtz veins, ¼" to 1" and qtz vein borders, no significant alteration/sulphides											
		2648.0 to 2664.4 - local trace py											
		2664.0 to 2664.4 - 3% mg cg py											
		- contact broken											
2664.4	2736.0	**GRAPHITIC ARGILLITE, GREYWACKE, LOCAL MAFIC TUFF**			46606	2664.4	2668.5	4.1	54				
		- thinly bedded graphitic argillite and greywacke, with scattered thicker (up to 2') beds of greywacke, local volcanic fragments (up to 1")			46607	2668.5	2669.7	1.2	37				
		2668.5 to 2669.7 - green lapilli tuff as above, with 1% to 2% cg py			46608	2669.7	2674.7	5.0	22				
		- bedding constant at 75° to 85° to C.A., parallel to foliation			46609	2705.0	2710.0	5.0	14				
		- isoclinal folding in sediments, eg. at 2674.0' to 2675.0', 2778.5' bedding appears transposed throughout											
		- trace to 2% disseminated and bedded amorphous and mg-cg py, local po											
	2736.0	**END OF HOLE**											

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PROPERTY Kerr Mine	GRID COORDINATE 5016.9E, 4405.3N (not surveyed)	STARTED November 28, 1992	
HOLE NO. C-25-4	ELEVATION -2500	FINISHED November 30, 1992	
BEARING 180°	SECTION	LENGTH 624'	
DIP COLLAR -55°	STORAGE	LOGGED BY D. Broughton	

DIP AND BEARING TEST											
FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING	FOOTAGE	DIP	BEARING
50.0	-51.5	176	600.0	-44	174						
101.0	-51.5	176									
300.0	-48	177									
400.0	-47	176									

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
		SUMMARY											
0	2.0	CASING											
2.0	71.7	MAFIC VOLCANICS - *FLOW*											
71.7	100.5	MAFIC VOLCANICS - *FLOW* BX, *FLOW*, AGGLOMERATE											
100.5	146.9	MAFIC VOLCANICS - *FLOW*											
146.9	150.4	ULTRAMAFIC FLOW - BASALTIC KOMATIITE											
150.4	238.5	MAFIC VOLCANICS - *FLOW*											
238.5	243.5	MAFIC VOLCANICS - FLOW; GRAPHITE SHEAR											
243.5	316.4	MAFIC AND ULTRAMAFIC VOLCANIC *FLOWS* - CALCITIC											
316.4	321.6	ULTRAMAFIC *FLOW* - BIOTITE?											
321.6	337.6	ULTRAMAFIC FLOW - CALCITE, CHLORITE											
337.6	344.7	G ZONE - MAFIC VOLCANIC FLOW											
344.7	346.6	GRAPHITIC ARGILLITE											
346.6	448.0	MAFIC VOLCANICS - FLOW, FLOW BX, LOCALLY MINERALIZED											
448.0	484.6	MILL ZONE 1 - ANKERITIZED PYRITIZED, LOCALLY SILICIFIED MAFIC *FLOW*											
484.6	532.0	ULTRAMAFIC FLOW - CHLORITE, ANKERITE (GREY CARBONATE)											
532.0	541.1	MILL ZONE 2 - ULTRAMAFIC *FLOW* - LOCALLY SILICIFIED & PYRITIZED											
541.1	587.9	MILE ZONE 2 - ULTRAMAFIC *FLOW* - WEAK GREEN CARBONATE											
587.9	590.8	ULTRAMAFIC AND MAFIC FLOW - QTZ VEINS, PYRITIZED, ANKERITIZED											
590.8	607.3	ULTRAMAFIC FLOW - ANKERITIZED, CHLORITE (GREY CARBONATE)											
607.3	624.0	ULTRAMAFIC FLOW - BROWN CARBONATE											
	624.0	END OF HOLE											

CYPRUS GOLD (Canada) Ltd.

PROPERTY KERR MINE HOLE NO. C-25-4

FOOTAGE		DESCRIPTION	%	%	SAMPLE	FOOTAGE			ASSAYS				
FROM	TO		MINERALIZ.	CORE	NO.	FROM	TO	LENGTH	Au (ppb)	Au (opt)	Au (ppb) check		
0	2.0	**CASING**											
2.0	71.7	**MAFIC VOLCANICS - FLOW**											
		- monotonous sequence of medium grey fg mafic volcanics, massive to brecciated texture with no obvious flow tops or tuffaceous bedding, 3% to 5% py, brownish leucoxene			46610	31.0	36.0	5.0	5				
		- brecciated texture from irregular seams, veinlets and bands of dark grey argillaceous/chloritic material, forms <1% to locally 10 to 20% of the rock. These volcanics therefore grade between relatively unveined flow and more densely veined "agglomerate". No grain size or compositional difference between the two.			46611	66.7	71.7	5.0	46				
		- overall, 1% to 2% calcite veinlets			46612	71.7	76.7	5.0	49				
		- moderately foliated at 45° to 55° to C.A.			46613	86.0	91.0	5.0	15				
		69.4 to 71.7 - flow contact, mixed agglomerate and lapilli tuff, quenched white flow breccia fragments, tops underlain, gradational contact.			46614	91.0	96.0	5.0	6				
71.7	100.5	**MAFIC VOLCANICS - *FLOW BRECCIAS, FLOW & AGGLOMERATE***			46615	96.0	100.5	4.5	8				
		- heterogeneous sequence of dark green chlorite mafic flow breccia and hyaloclastite, grey massive flow and "agglomerate" as above, and true agglomerate - subrounded to subangular fragments of grey mafic in argillaceous matrix. gradational contacts throughout. Calcitic, moderately foliated at 50° to 55°.											
		- local trace to 5% pyrrhotite, in stringers and fine wisps in flow breccia, also trace local mg pyrite, gradational contact											
100.5	146.9	**MAFIC VOLCANICS - *FLOW***			46616	100.5	105.5	5.0	7				
		- monotonous med grey-pale grey massive flow, with local brecciated texture from grey argillaceous (chloritic?) veinlets, similar to 2.0' to 71.7' but much less brecciation. Calcitic <1% veining to 141.0'. barren, weakly foliated.			46617	121.0	126.0	5.0	<5				
		141.5 to 146.9 - 2% to 3% qtz veins, ½" to 2", at various angles to foliation, no alteration/mineralization haloes, sharp contact at 45°, oblique to foliation.			46618	141.5	141.9	5.4	5				
146.9	150.4	**ULTRAMAFIC *FLOW* - BASALTIC KOMATIITE**											
		- grey, spotted texture due to ¼" lenticular (deformed) clots of pale grey calcite, separated by green-gray groundmass, more strongly foliated than adjacent flows, at 50° to C.A.			46619	146.9	150.4	3.5	<5				
		- <1% calcite veins, barren, contact masked by ½" calcite veinlet											
150.4	238.5	**MAFIC VOLCANICS - *FLOWS***											
		- similar to 100.5' to 146.9', slightly darker (chloritic) green colour, moderately foliated at 45° to 55° to C.A., 1% to 2% calcite veinlets - calcitic			46620	150.4	155.4	5.0	6				
		172.6 to 174.2 - grey qtz/calcite veins at 10° to C.A., local trace py, cp within vein			46621	172.6	174.2	1.6	<5				

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PROPERTY KERR MINE HOLE NO. C-25-4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		200.0 to 200.7 - grey qtz-cal vein subparallel to C.A.			46622	199.0	201.0	2.0	<5				
		226.0 to 238.5 - 1% to 2% qtz-calcite veins, local trace pyrite, contact broken			46623	226.0	231.0	5.0	30				
					46624	231.0	236.0	5.0	6				
					46625	236.0	238.5	2.5	20				
238.5	243.5	**MAFIC VOLCANIC FLOW, GRAPHITE SHEAR**											
		238.5 to 238.8 - graphite shear, ½" qtz vein			46626	238.5	243.5	5.0	11				
		238.8 to 243.5 - dark green chloritic massive vfg mafic flow - iron tholeiite											
		- 2% to 3% grey qtz-cal veinlets trace amorphous pyrite											
		- grades to banded light/dark below 243.0', contact sharp but folded											
243.5	316.4	**MAFIC AND ULTRAMAFIC VOLCANIC FLOWS**											
		- sequence of dark green mafic and grey to brownish grey, strongly calcitic and foliated ultramafic flows, predominantly mafic											
		- local development of coarse disseminated calcite in ultramafics, also characterized by 10% to 30% grey calcite veins and calcitic bands			46627	243.5	248.5	5.0	7				
		- local grey qtz-cal veins @ 254.0', 276.5', 287.0' to 289.0', generally at low angles to C.A.			46628	253.0	255.0	2.0	6				
		- foliation @ 50° to 55° to C.A.			46629	276.0	281.0	5.0	11				
		243.5 to 244.5 - 1% to 2% py, banded along foliation, gradational contact			46630	281.0	286.0	5.0	<5				
					46631	286.0	291.0	5.0	<5				
					46632	311.4	316.4	5.0	7				
316.4	321.6	**ULTRAMAFIC FLOW, BIOTITIC?**											
		- dark brown, grading downhole to dark grey, moderately to strongly calcitic, strongly foliated			46633	316.4	321.6	5.2	7				
		- dark brown colour possibly due to fine biotite											
		- trace to 2% vfg disseminated sulphide - non-magnetic, probably pyrite, sharp contact parallel to foliation @ 48° to C.A.											
321.6	337.6	**ULTRAMAFIC FLOW - CALCITE- CHLORITE**			46634	321.6	326.6	5.0	11				
		- grey to green-grey , chloritic ultramafic flows cut by 10% to 30% calcite ± talc ± chlorite veinlets subparallel to foliation @ 45° to 55° to C.A.											
		- local disseminated mg ankerite - barren to local trace py											
		- gradational contact, gradually darker green colour below 336.0'											

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PROPERTY KERR MINE | HOLE NO. C-25-4 |

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
337.6	344.7	**G-ZONE - MAFIC VOLCANIC FLOW**			46635	340.0	344.7	4.7	5				
		- grey to green-grey to dark green, vfg mafic flow											
		- patchy pale grey calcite alteration progressively developed downhole from 340.0', associated increase in pyrite from trace to 1% to 2%, with 1% po, adjacent to lower contact											
		- foliated @ 45° to C.A., 1% to 2% deformed calcite veins											
		- contact @ 50° to C.A., interdigitated											
344.7	346.6	**GRAPHITIC ARGILLITE**			46636	344.7	346.6	1.9	55				
		- black graphitic argillite with 3% to 4% stringers and beds of pyrrhotite, 1% pyrite, lower contact @ 45° to C.A.											
346.6	448.0	**MAFIC VOLCANICS - FLOWS, FLOW BRECCIA, LOCALLY MINERALIZED**			46637	346.6	348.0	1.4	18				
		- grey to green, to purplish where bleached and mineralized around qtz-cal veinlets			46638	348.0	353.0	5.0	6				
		- predominantly massive mafic flows with scattered sections of flow top breccia and hyaloclastite, local grey-white subs ¼" avoid fragments may be varioles (367'), tops uncertain, flow breccia and hyaloclastite commonly darker green, chloritized, massive flow green-grey to pole grey, with minor amounts of dark argillaceous/chloritic network veinlets, calcitic throughout			46708	353.0	358.0	5.0	5				
		- locally developed purplish alteration (silicification, more intense calcitization) and sulphide mineralization associated with oblique calcite-qtz veinlets (<½"), generally @ 120° to 140° to C.A. (foliation @ 45° to 55°), orientation of core with steeply N-dipping foliation indicates a northwest strike for the veins			46639	358.0	363.0	5.0	9				
		- haloes generally ½" to 1" symmetrical			46640	363.0	368.0	5.0	6				
		- veins occur in clusters, and are spaced @ ½" to 4" clusters @ 386.5' to 387.7', 392.3' to 393.5', 399.1' to 400.9', 422.0' to 422.7', 427.0' to 429.0'			46641	368.0	373.0	5.0	9				
		- contain 3% to 6% fg disseminated aspy and py			46642	373.0	378.0	5.0	9				
		- other mineralization includes up to 5% local stringer and wispy vfg pyrrhotite in flow breccia (346.6' to 348.0', 360.0') and trace disseminated pyrite throughout			46643	378.0	383.0	5.0	6				
		- arsenopyrite commonly more abundant than pyrite, 415.0' to 432.0', ¼" to 1" chloritized dark green bands of hyaloclastite, separate sections of pale brownish grey flow, possibly pillow selvages, the brown alteration is overprinted by the purplish vein-associated silicification and sulphidation, gradational lower contact			46644	383.0	386.5	3.5	14				
					46645	386.5	387.7	1.2	755				
					46646	387.7	392.3	4.6	16				
					46647	392.3	393.5	1.2	674				
					46648	393.5	399.1	5.6	583				

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
					46649	399.1	400.9	1.8		.040			
					46650	400.9	406.0	5.1	22				
					46651	406.0	411.0	5.0	64				
					46652	411.0	416.0	5.0	TBR				
					46653	416.0	419.0	3.0	60				
					46654	419.0	421.7	2.7	28				
					46655	421.7	422.7	1.0	651				
					46656	422.7	427.0	4.3	TBR				
					46657	427.0	429.0	2.0	128				
					46658	429.0	434.0	5.0	971				
					46659	434.0	439.0	5.0	10				
					46660	439.0	444.0	5.0	64				
					46661	444.0	448.0	4.0	357				
448.0	484.6	MILL ZONE 1 - ANKERITIZED, PYRITIZED, LOCALLY SILICIFIED MAFIC FLOW			46662	448.0	453.0	5.0		0.022			
		- medium grey-grey to grey massive mafic flow, vfg to fg, locally leucoxenitic, weakly to moderately foliated			46663	453.0	458.0	5.0		0.021			
		- calcitic to 450.0′, moderately to strongly ankeritized from 450.0′ to 484.6′			46664	458.0	460.2	2.2		0.116			
		- mineralization has associated grey alteration over printing the green, less-altered basalt, the alteration includes a weak to moderate silicification			46665	460.2	462.2	2.0		0.027			
		- mineralization characterized by disseminated fg-my aspy and py, locally associated with foliation subparallel grey ankeritized ± qtz veinlets (<¼") @ 45° to 55° to C.A., more rarely with oblique veinlets (120° to 150°) these occur in the hangingwall of the zone (448.0′ to 452.0′) where they are the only mineralizing structure, and they have aspy and py haloes			46666	462.2	463.7	1.5		0.068			
		- overall, <1% qtz vein, 479.7′ to 484.6′ weak-strongly silicified, last 2" section strongly silicified, and brecciated by chloritic veinlets, contact broken			46667	463.7	467.8	4.1		0.034			
					46668	467.8	468.9	1.1		0.005			
					46669	468.9	473.9	5.0	96	0.003			
					46670	473.9	476.8	2.9	472	0.014			
					46671	476.8	479.7	2.9		0.098			
					46672	479.7	483.2	3.5		0.056			

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
					46673	483.2	484.6	1.4		0.030			
484.6	532.0	**ULTRAMAFIC FLOW, CHLORITE-ANKERITE (GREY CARBONATE)**			46674	484.6	486.0	1.4		0.049			
		- banded grey-green ultramafic flow; grey ankeritic veinlets and bands alternate with rich green (chloritic, possibly very weak Cr) ultramafic.			46675	486.0	491.0	5.0	377				
		- banding defines a strong foliation @ 55° to 65° to C.A.			46676	491.0	496.0	5.0	99				
		- local mineralization (py) associated with oblique ank ± qtz veinlets			46677	496.0	501.0	5.0	47				
		- ankeritized throughout			46678	501.0	506.0	5.0	8				
		- possibly a basaltic komatiite, could be termed dull green carbonate/grey carbonate			46679	506.0	511.	5.0	<5				
		- local sections of non-banded dull olive brown ultramafic below 510'			46680	511.0	516.0	5.0	6				
		- gradational contact			46681	516.0	521.0	5.0	<5				
					46682	521.0	526.0	5.0	10				
					46683	526.0	530.0	4.0	7				
					46684	530.0	532.0	2.0	24				
532.0	541.1	**MILL ZONE 2 - ULTRAMAFIC FLOW, LOCALLY SILICIFIED & PYRITIZED**	1%py		46685	532.0	534.0	2.0	129	0.004			
		- dull green-grey to grey ankeritized, foliated ultramafic flow, locally banded as above but generally a weakly to moderately foliated texture with 5% to 10% grey ankeritic veinlets	tr py		46686	534.0	536.0	2.0	424	0.012			
		- locally silicified, dark grey and pyritized @ 533.0' to 533.6', 539.3' to 541.1' alteration appears to have overprinted an ultramafic protolith (ie not a narrow, mafic unit within the ultramafics) mineralization generally fg to mg pyrite	--- to tr py		46687	536.0	539.3	3.3	418	0.012			
		539.3 to 541.1 - silicification & pyrite associated with 20% ank-qtz vein network, contact broken	1-3% py		46688	539.3	541.1	1.8	338	0.010			
541.1	587.9	**MILL ZONE 2 - ULTRAMAFIC FLOW - WEAK GREEN CARBONATE**			46689	541.1	546.0	4.9	480	0.014			
		- weak green carbonate with minor brown-grey carbonate from 541.1 to 543.0', mod fol'd @ 45° to 50°			46690	546.0	551.0	5.0	26	0.001			
		- weak fuchsitic alteration occurs against a background grey carbonate alteration			46691	551.0	556.0	5.0	395	0.012			
		- ankeritization is fine-grained and pervasive, not the coarsely crystalline variety			46692	556.0	561.0	5.0	120	0.004			
		- 5 to 10% grey ank ± qtz veinlets			46693	561.0	566.0	5.0	235	0.007			
		- rare oblique qtz-ank veinlets with 1% to 2 py haloes			46694	566.0	571.0	5.0	96	0.003			
		- trace to locally 1% fg-mg disseminated py associated with veins			46695	571.0	576.0	5.0	96	0.001			
					46696	576.0	581.0	5.0	8	tr			

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PROPERTY KERR MINE HOLE NO. C-25-4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	% MINERALIZ.	% CORE	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAYS Au (ppb)	Au (opt)	Au (ppb) check		
		- gradational contact											
					46697	581.0	586.0	5.0	505	0.015			
					46698	586.0	587.9	1.9	38	0.001			
587.9	590.8	**ULTRAMAFIC AND MAFIC FLOW, QTZ VEINED & PYRITIZED**			46699	587.9	590.8	2.9		0.066			
		- grey ankeritized ultramafic flow to 588.8', silicified grey mafic? flow to 590.89' cut by 20% grey qtz veins with associated fg-mg disseminated pyrite & rare aspy											
		- broken core from 587.8' to 588.5'											
		- overall 2% to 5% pyrite											
		- gradational contact											
590.8	607.3	**ULTRAMAFIC FLOW, ANKERITIZED, CHLORITIC (GREY CARBONATE)**			466700	590.8	596.0	5.2	98				
		- drab grey to banded green (chloritic)-grey (ankeritic) ultramafic flow			466701	596.0	601.0	5.0		0.036			
		- 5% grey qtz-ank and ank-qtz veinlets generally ¼" to ½", oblique and subparallel to foliation @ 55° to 60 ° to C.A., with weakly pyritic (1% to 2% local fg-mg py) haloes			466702	601.0	604.0	3.0	97				
		- local grey silicification associated with qtz veins @ lower angles to C.A. e.g. @ 602'			466703	604.0	607.3	3.3	35				
		- overall trace to ½% py											
		- gradational contact											
607.3	624.0	**ULTRAMAFIC FLOW, BROWN CARBONATE**			466704	607.3	612.0	4.7	228				
		- drab grey-brown colour, brown tint caused by lamillae/foliation planes of dark brownish mica (biotite?), ankeritized throughout, ankerite is mg, gives a coarser texture than in the previous units, <1% qtz vein			466705	612.0	617.0	5.0	24				
		- trace to nil pyrite			466706	617.0	622.0	5.0	230				
		- foliation @ 60° to C.A.			466707	622.0	624.0	2.0	24				
	624.0	**END OF HOLE**											