# DIAMOND DRILL REPORT
# ON THE
# TEXADA ISLAND PROJECT
# YEW GRID

RECEIVED
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Gold Commissioner's Office
VANCOUVER, B.C.

**49°50'N, 124°34'W**

**N.T.S. 092F/15E & 10E**
**Nanaimo Mining District**
**British Columbia, Canada**

for

**555 Corporate Ventures Inc.**

P.O. Box 2078

Vancouver, B.C.

Canada

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT
27,613

by

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V6C 2B3

September, 2004

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# 1. SUMMARY

A diamond drill program totalling 1541.4 meters in twenty five drill holes was carried out on the Yew Mining Lease 345340 (Yew 7) from July 5 to August 23, 2004.

555 Corporate Ventures Inc. holds title to the Yew Mining Lease as well as numerous single unit claims, crown grants, mining leases, and modified grid claims referred to collectively as the Texada Island Project. The company effectively controls the mineral rights to a large portion of northern Texada Island, British Columbia.

Texada Island is located approximately 120 kilometres northwest of Vancouver, BC, and is readily accessible by air and ferry. The island benefits from a well-developed infrastructure of services, tidewater access, and transportation methods. In addition, the company owns a small mill, which is currently operational on a intermittent basis.

The mining history of Texada Island dates back to the late 1800's when gold was discovered in volcanic hosted quartz veins in the Surprise Mountain area. This led to further discoveries of gold, copper, and iron, and the establishment of several small mines at the turn of the century. The two most significant producers were the Texada Iron Mines (approximately 10 million tons of iron ore concentrate and 1,897 ounces of gold to 1977, when production ceased) and the Marble Bay Mine, which produced 50,001 ounces of gold from 314,000 tons in the years from 1899 to 1929. Overall historic production is estimated at over 105,000 ounces of gold. In addition, a number of limestone quarries are in operation and produce 3-5 million tonnes of limestone for export per year.

Texada Island is underlain by two Triassic Formations – the volcanic Texada Formation and the limestone Marble Bay Formation, which have been equated to the Karmutsen and Quatsino Formations respectively, of the Vancouver Group on Vancouver Island. Rocks of the Mid to Upper Jurassic Island Plutonic Suite (formerly known as the Island Intrusives) intrude this sequence, as does a later, possible Tertiary event in the form of east-west trending dikes, which cut all units.

Mineralization on the island occurs in two main forms – skarn assemblages and quartz-carbonate veins. While the latter first attracted attention, the former has been the source of most of the mineral production on Texada. Skarn mineralogy is varied and complex, and generally not mappable on a property scale, hence the use of geophysics.

The mineralization can, however, be divided into two basic types: iron-rich (magnetite) and copper-gold rich skarns. Mineralization can include pyrite, chalcopyrite, bornite, sphalerite, and molybdenite.

The tenure holdings encompass both forms of mineralization and have been subjected to numerous early stage exploration programs in the past, which have resulted in favourable values in copper, gold, and associated minerals. Gold has been produced by the Bolivar Mill, located roughly in the centre of the claim group.

Two targets identified by previous operators, the Loyal and Yew Pit have been subjected to 3 Dimensional Induced Polarization survey, which shows an anomalous feature on the Loyal Grid extending through the central portion of the grid, and most pronounced on Lines 2000, 5000, 6000 and 7000 North. The depth to the top of this feature is in the order of 70 to 100 metres. In the resistivity response, this anomaly swings to surface on the eastern edge of the grid, in the area of the mafic intrusion outcroppings.

The skarn zone at the Loyal has been intermittently exposed along strike by shafts and trenches for 91 metres and is intersected by underground workings at 91 metres depth. In 1917 and 1918, a total of 342 grams of gold, 4821 grams of silver, and 4668 kilograms of copper were produced from a total of 54 tonnes mined (Mineral Policy data).

Five bulk samples taken in 1963 yielded an average content of 13.1 per cent copper, 3.56 grams per tonne gold, 521.05 grams per tonne silver and 1.1 per cent lead (Assessment Report 2918).

In the area of the Yew Pit, the Chargeability Inversion Models delineate an extensive anomalous feature extending through the entire grid from north to south. Depth to the top of this anomaly is in the range of 50 metres and it exhibits a shallow dip to the east. There is a moderate correlation between regions of lower resistivity and this chargeable zone. A potential interpretation of this anomaly is a mineralised limestone interbed within the volcanics flanked to the east and at depth by a diorite intrusion.

Massive pyrite, magnetite, pyrrhotite, minor chalcopyrite and trace bornite replaces limestone at the lower contact of the limestone bed. The mineralized zone is flat-lying, close to surface, thin and tabular, and ranges in thickness from 0.4 to 1.8 metres.

Representative samples of the sulphide layer from a pit assayed up to 61.29 grams per tonne gold and up to 56.90 grams per tonne silver (Vancouver Stockwatch, January 19, 1988). A second zone comprising garnet-epidote skarn within basalt occurs below the massive mineralization and contains visible native gold. A drill hole intersection over 30 centimetres assayed 128.92 grams per tonne gold (Assessment Report 14861).

## 2. INTRODUCTION

This report describes a diamond drill exploration program carried out on Mineral Lease 345340 (Yew 7) in July and August of 2004. It is also intended to be submitted as an assessment report to the British Columbia government as supporting evidence of work completed on the properties.

## 3. TENURE

The following is a list of tenures owned by 555 Corporate Ventures Inc.:

| Tenure Number | Claim Name | Owner Number | | Map Number | Work Recorded To | Mining Division | Area |
|---|---|---|---|---|---|---|---|
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| 229612 | GOLDEN ROD | 134703 | 100% | 092F10E | 2005.03.05 | 11 NANAIMO | 1 un |
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| 229748 | ADA | 134703 | 100% | 092F10E | 2005.07.26 | 11 NANAIMO | 12 un |
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| 230404 | RICHARD #2 | 134703 | 100% | 092F15E | 2004.12.31 | 11 NANAIMO | 1 un |
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| 230428 | YEW #10 | 134703 | 100% | 092F10E | 2005.02.15 | 11 NANAIMO | 1 un |
| 230429 | JON #2 | 134703 | 100% | 092F15E | 2004.12.07 | 11 NANAIMO | 1 un |
| 232480 | CORTEZ | 134703 | 100% | 092F15E | 2005.06.25 | 11 NANAIMO | 1 un |
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| 232490 | CORTEZ #11 | 134703 | 100% | 092F15E | 2005.06.25 | 11 | NANAIMO | 1 un |
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| 314316 | MINER #6 | 134703 | 100% | 092F15E | 2004.11.15 | 11 | NANAIMO | 1 un |
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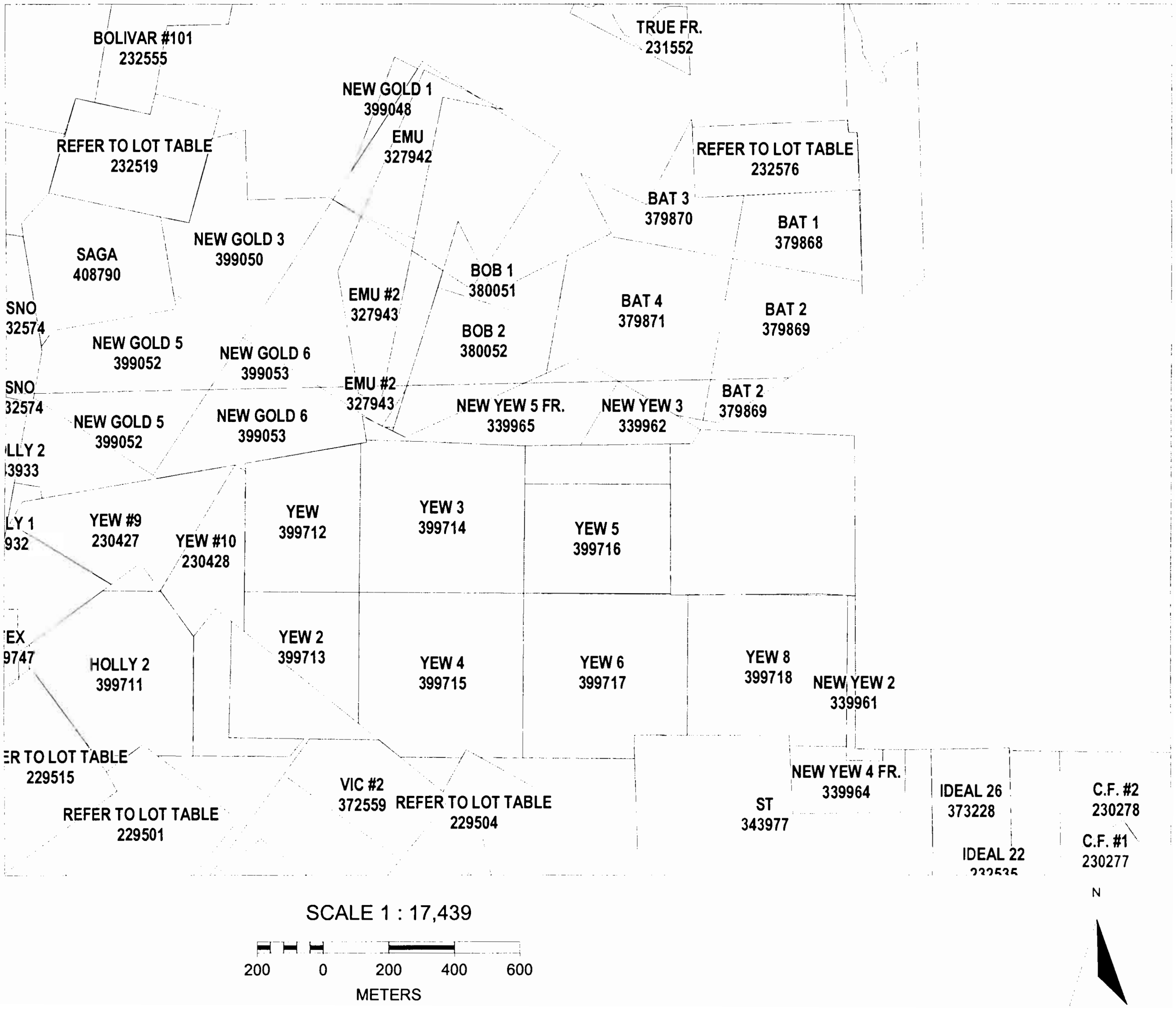
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YEW #10
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## 4. LOCATION AND ACCESS

The claim group encompasses the northern portion of Texada Island, BC., one of a group of islands known collectively as the Gulf Islands, in the Strait of Georgia, between the mainland and Vancouver Island (figure 1). Located within the Nanaimo Mining District, the property's geographical coordinates are:

North Latitude: 49° 50' West Longitude: 124° 34'

NTS map sheets: 92F 10E and 92F/15E. The area is located approximately 120 kilometers northwest of Vancouver.

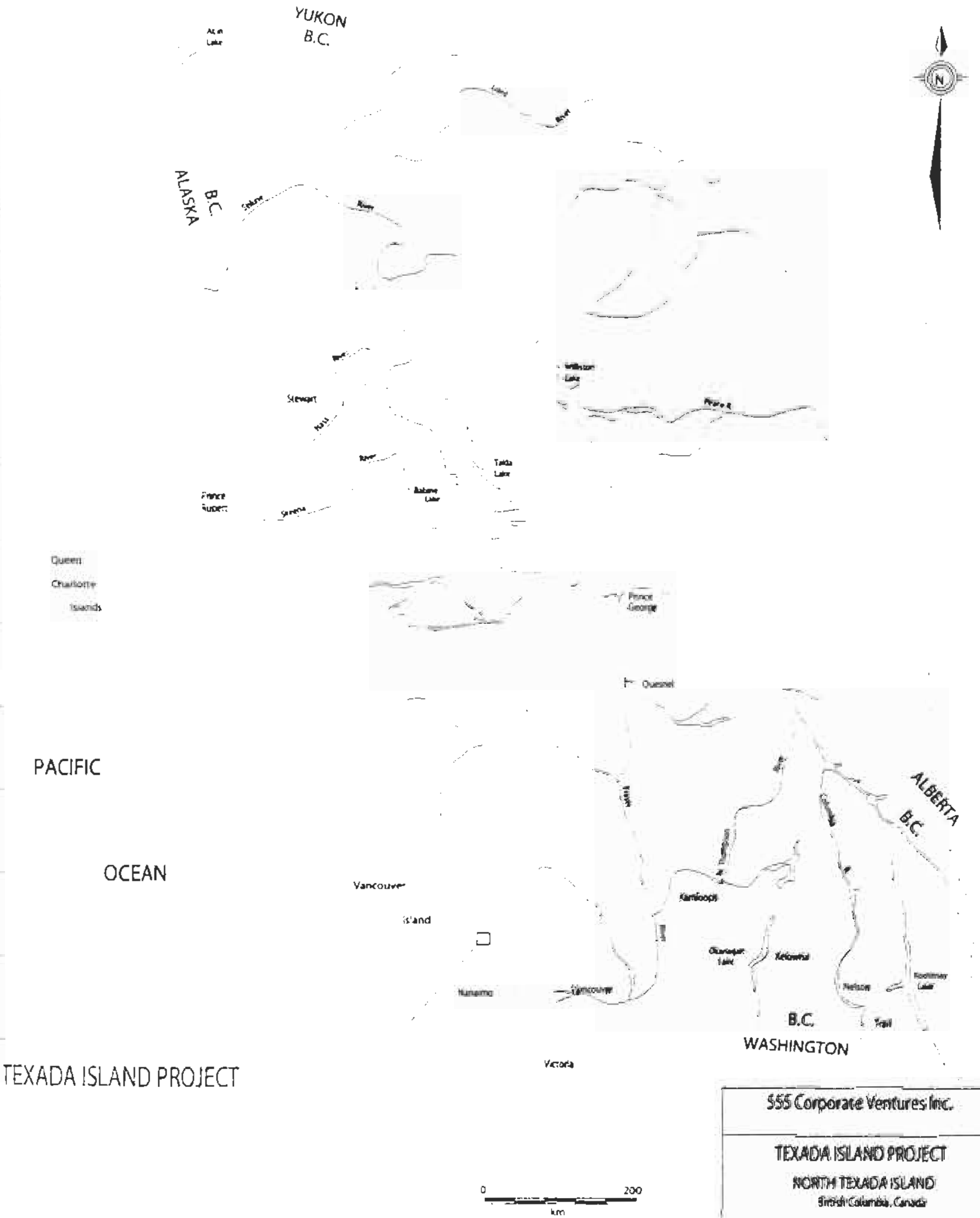
Access to the island can be gained by regularly scheduled air service from the South Terminal at Vancouver International Airport to an airstrip located at Gillis Bay or to Powell River ( a 45 minute flight), or by road (highway 101) and ferry via Horseshoe Bay and the Sunshine Coast to Powell River then on to the north end of Texada Island. A good network of roads services the island.

## 5. PHYSIOGRAPHY AND CLIMATE

The island is characterized by low relief with poor to moderate outcrop exposure due to variable thicknesses of glacial till. Small diameter spruce and fir with relatively little undergrowth constitute the dominant vegetation. Climate is generally mild and average annual precipitation is in the order of 70 to 100cm, falling mostly in the late fall and winter months. Fieldwork is possible year round.

## 6. HISTORY AND PREVIOUS WORK

The mining history of Texada Island dates back to the 1800's when gold was discovered in volcanic hosted quartz veins in the Surprise Mountain area. This led to further discoveries of gold, copper, and iron, and the establishment of several small mines at the turn of the century.



555 Corporate Ventures Inc.

TEXADA ISLAND PROJECT

NORTH TEXADA ISLAND

British Columbia, Canada

LOCATION MAP

Date: Sept. 04 | NTS: 092F/15 | Figure: 1

Rio Minerals Limited

The two most significant producers were the Texada Island Mines (approximately 10 million tons of iron ore concentrate and 1,897 ounces of gold 1977, when production ceased) and the Marble Bay Mine, which produced 50,001 ounces of fold from 314,200 tons of ore from 1899 to 1929. Overall historical island production is estimated at over 105, 000 ounces. In addition, a number of limestone quarries have operated over the years and continue to produce three to five million tonnes of limestone per year.

A number of companies have carried out exploration in the 1970's and 1980's, resulting in a variety of data, recorded to some extent as assessment reports, as well as private reports and sketches in company files. Rhyolite Resources Inc. began acquisition of an extensive package on contiguous mineral titles in the early eighties and carried out work on a number of fronts in subsequent years. The claim group was optioned to Echo bay Mines in 1988, who conducted detailed geological, geochemical, and geophysical surveys in 1988 and 1989. This work culminated in the drilling of nine holes. It is this claim group that 555 Corporate Ventures now owns.

The company also operates a small mill located on the Bolivar 24 claim. The company has at various times processed and stockpiled ore from the Yew Pit mining Lease, located 1km to the south. The material has produced gold, although at what grade is not known.

Exploration history specific to the target areas of interest to the company, which is limited to the northern part of the island, will be discussed as each is reviewed later in this report.

## 7. REGIONAL GEOLOGY

The following description is summarized from Webster and Ray (1990):

Texada Island is underlain by two Upper Triassic Formations – the volcanic Texada Formation and the limestone Marble Bay Formation – which have been equated to the Karmutsen and Quatsino Formations respectively of the Vancouver Group on Vancouver Island.

The Karmutsen rocks are a thick package of tholeitic basalts, unconformably overlying the Paleozoic Sicker Group of sediments exposed at the southern end of the island. The Quatsino limestone unit is a thick package of massive to well bedded platformal chemical sediments, disconformably overlying the volcanics.

555 Corporate Venutres Inc.

# TEXADA ISLAND PROJECT

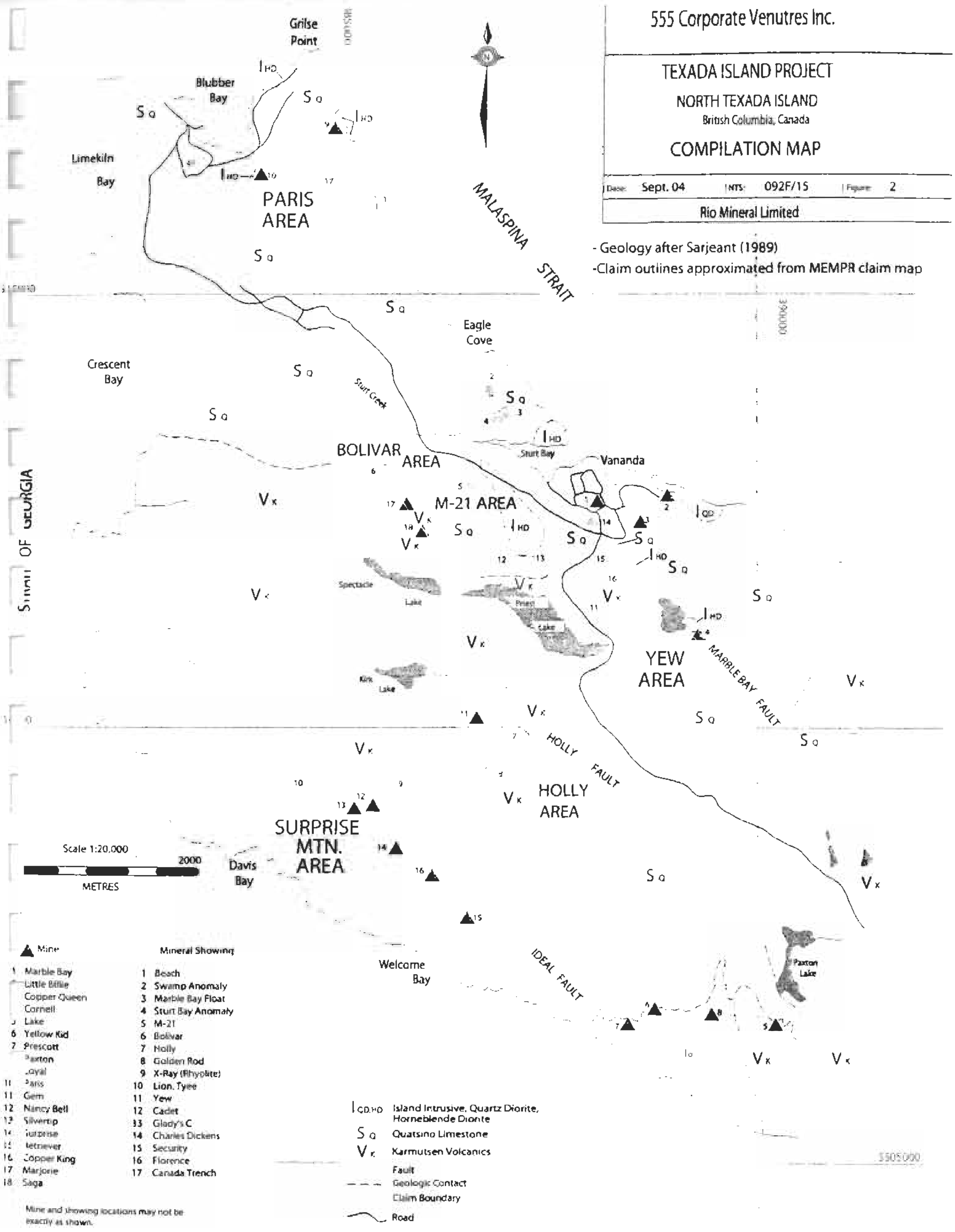
NORTH TEXADA ISLAND
British Columbia, Canada

## COMPILATION MAP

Date: Sept. 04 NTS: 092F/15 Figure: 2

Rio Mineral Limited

- Geology after Sarjeant (1989)
-Claim outlines approximated from MEMPR claim map



Rocks of the Mid tc Upper Jurassic Island Plutonic Suite (formerly know as the Island Intrusives) intrude this sequence, as does a later, possibly Tertiary, event in the form of east west trending dykes which cut all units.

Major structural features include folding and faulting prior to emplacement of the Island Plutonic Suite. The limestones and, to a lesser extent, the volcanics are deformed into a series of broad, northwest-trending open folds that plunge northward. Three northwest-striking lineaments, the Ideal, Holly and Marble Bay faults cut a set of northeasterly-trending faults. East-west structures are the youngest and control the emplacement of the Tertiary dikes.

It appears that the Marble Bay and, to a lesser extent, the Ideal faults controlled emplacement of some of the Jurassic intrusions and their associated skarn mineralization.

Mineralization on the island occurs in two main forms – skarn assemblages and quartz-carbonate veins. While the latter first attracted attention, the former has been the source of most of the mineral production on Texada.

Skarn mineralogy is extremely varied and complex, and generally not mappable on a property scale, however it can be divided into two basic types: iron-rich and copper-gold rich. Iron –rich skarns are concentrated along either the Marble Bay-Texada Formation contact, margins of the felsic Gillies Stock or some distance from the stock in either rock type, controlled by subvertical fractures (Prescott, Yellow Kid, Paxton and Lake deposits, operated by Texada Mines). Magnetite ore bodies adjacent to the stock, are generally associated with abundant garnet-pyroxene-amphibole skarn, while more distal deposits have less extensive skarn envelopes. Contacts between skarn and unaltered rock are generally sharp.

Zoning, where fully developed, consists of barren skarn close to the intrusion, grading outward to magnetite-rich skarn and then into marble. Locally, chalcopyrite and pyrite occur close to the outer margins of the skarn envelope, adjacent to limestone or marble.

Copper-gold skarns are more widely distributed and variable in mineralogy, occurring throughout the limestone unit and generally associated with more mafic dioritic intrusions. The most significant of these deposits are associated with the Marble Bay fault southeast of the town of Vananda and include the Marble Bay, Little Billy, Cornell and Copper Queen mines.

Main ore minerals are chalcopyrite and bornite with variable but minor amounts of molybdenite, pyrite, magnetite and sphalerite. Less developed occurrences include the Paris and Loyal mines, and the Canada Trench, near Blubber Bay, at the north end of the island.

Quartz and carbonate veins, carrying a varied suite of base and precious metals, are mostly located in or adjacent to north or northwest-trending faults or shear zones that cut the Karmutsen volcanics, underlying the Surprise Mountain area. Mineralization includes pyrite, chalcopyrite, galena, sphalerite and gold. More specific geological features will be detailed in the discussions on each of the target areas.

## 8. PROPERTY GEOLOGY

During the course of the recent diamond drill program on the Yew property the following rock units were observed:

### Basalt (Karmutsen Group)

Dark, fine grained, often with distinct white zeolite-fill amydules, pervasive weak to moderate epidote +/- chlorite patches, fracture fillings and amygdule replacements, minor sporadic fine zeolite fracture fillings, pervasive fine grained pyrite disseminations, veinlets and fracture fillings (1-3% pyrite), non to weakly magnetic. This is the upper flow layer (10-20 meters) of basaltic rocks found on the Yew property and hosts the limestone (skarn/sulphide) interbed, near the lower gradational contact of the basalt with underlying basaltic flow breccia.

### Basalt – flow breccia (Karmutsen Group)

Dark, fine grained, moderately magnetic, pervasive, distinctive dark magnetite-rich plagioclase phyric segregation patches, clots and bands. Trace disseminations or fracture fillings of fine grained pyrite with occasional localized increases as fracture fills or zeolite-associated open-space linings. Very minor traces of chalcopyrite are present, but nowhere of any economic significance. The distinction between the upper basalt layer and the lower basalt flow breccia unit is often difficult to make as magnetite segregation patches are locally present within the upper basalt unit and amygdaloidal zones are present within the lower basalt flow breccia unit. The basalt flow breccia unit extends to depth in the deepest drill holes and does not appear to be a favorable host to significant mineralization.

### Limestone (Karmutsen Group)

The main limestone unit occurs as a sedimentary interbed unit within the upper basalt unit on the Yew property. Where skarning and sulphide (mainly pyrite) and magnetite replacements have affected the limestones, are found the most significant gold (+/- silver, copper) values on the property. The flat-lying, massive bedded limestone is typically fine grained, light gray, exhibiting sharp contacts with overlying and underlying basalts.

Mineralization related to the limestone horizon may occur as isolated bands of massive pyrite or magnetite or as mixed pyrite > magnetite. Skarn alteration, where present is generally a mottled mixture of pale brown garnet, pale green diopside, epidote and minor carbonate with partial silica replacement. Variable concentrations of pyrite, magnetite, minor to trace chalcopyrite or bornite and occasional specs of visible gold can be found throughout the skarn alteration. Limestone/skarn mineralization is generally of one to two meter widths. Vertical drill hole Y04-22, intercepted a 3 meter interval of limestone.

## Feldspar Porphyry

A north-south trending feldspar porphyry dike is found throughout the central part of the mineral lease. It is believed that this dike unit, of possible Tertiary age, is directly related to the emplacement of skarn and sulphide mineralization present on the mineral property.

Examination of previous and present drill hole data suggests that the highest grades of gold mineralization are found within close proximity to the feldspar porphyry dike. The dike has likely provided the heat source producing the skarn alteration. The dike itself may be an important contributor of gold values to the skarn mineralization . The vertical drill hole Y04-04, contained a 1.85 m interval (35.35-37.2 m) returning 2264 ppb gold.

The porphyry unit has a general mottled texture with crowded indistinct medium grained plagioclase phenocrysts. The matrix is variably medium to dark grey, caused by the presence of weak to moderate fine grained magnetite concentrations. The porphyry unit contains extensive epidote alteration with numerous epidote-chlorite fracture fillings. Fractures have distinctive light grey siliceous to pale pink (potassic) alteration halos. Pervasive trace to 0.5% fine to medium grained disseminated pyrite is found throughout the porphyry.

## Hornblende Porphyry

Dark greenish-gray hornblende porphyry dykes/sills are found throughout several of the drill holes. Black euhedral hornblende phenocrysts (10-30%) are present through a fine grained greenish gray groundmass. The hornblende porphyry dikes are found mainly within the lower basalt flow breccia unit, are narrow in width and are volumetrically unimportant. The hornblende porphyry dikes are generally lacking in sulphide mineralization.

## Alteration

The basaltic rocks at the Yew prospect have undergone weak to moderate propylitic alteration with the production of epidote, chlorite and pyrite. This alteration effect is mainly present in the upper basalt unit at the Yew prospect. Carbonate and silica alteration is generally lacking within the basalts. Chlorite-epidote-pyrite alteration is also pervasive within the main north-south trending feldspar porphyry dike unit, which lies at the center of the surveyed grid/diamond drilling area. The presence of zeolite vugs/clots, amygdules and fracture fillings are considered to be related to primary rock composition. Pervasive fine grained disseminated magnetite is also considered to be a primary mineral component of the basalts.

The only area of significant alteration lies with the skarn-limestone horizon, occurring in relative proximity to the feldspar porphyry dike unit. Alteration within the skarned limestone consists of variable concentrations of diopside, epidote, garnet (grossularite) +/- quartz-carbonate, with associated pyrite and/ or magnetite and minor associated chalcopyrite, bornite and visible gold.

## 9. EXPLORATION TARGETS

Numerous showings and workings have been explored and developed over the years, with their history recorded or alluded to in widely varying detail with respect to changing property names and claim configurations. The following five areas, identified by their historical names, were specified as the company's priorities.

### 9.1. Yew and Holly

The following description is from British Columbia Ministry of Energy, Mines and Petroleum Resources Minfile data:

> "The area is dominated by Upper Triassic Karmutsen Formation (Vancouver Group) volcanic rocks consisting of typically fine-grained and/or feldspar phyric basalts and amygdaloidal basalts with minor intercalated limestone beds. At the Yew occurrence, stratigraphy is comprised of three rock units of the Karmutsen Formation. A lower, thick series of green-grey basalt flows that texturally change from amygdaloidal and non-amygdaloidal sequences, is overlain by a thin, white-grey fine-grained limestone that rapidly thins and thickens over short distances. Overlying the limestone is an amygdaloidal basalt breccia with fragments of amygdaloidal basalt up to 15 centimetres. White zeolites, epidote, pyrite, quartz and chlorite comprise vesicle fillings within the basalts. Two hundred metres north of the occurrence, two small diorite plugs intrude the basalts. Massive pyrite, magnetite, pyrrhotite, minor chalcopyrite and trace bornite replaces limestone at the lower contact of the limestone bed. The mineralized zone is flat-lying, close to surface, thin and tabular, and ranges in thickness from 0.4 to 1.8 metres."

High grade float was discovered on the Holly property in 1982, followed by discovery of a spectacular showing in 1984. Northair Mines Limited optioned a group of claims in 1985 that included the Yew and Holly properties.

Soil sampling, magnetic and self potential surveys were conducted, followed by the drilling of 465 meters on the Holly Crown Grant in 1985 and 270 meters on the Yew #7 in 1986 (Hicks, 1986).

Of thirteen holes drilled on the Yew #7, nine intersected massive sulphide mineralization averaging 0.376 oz/t gold over an average width of 0.4 m, occurring at a consistent depth of approximately 20 feet, at the contact between a lower volcanic member of the Karmutsen Formation and an overlying limestone interbed. A second zone below the main horizon was intersected in one hole, producing 3.761 oz/t gold over 1 foot (visible gold reported). The nature of this intercept has not been explored, although the possibility that it may be a feeder to the massive sulphide layer has been suggested.

In 1988, a review of tonnage potential of occurrences on a claim referred to as the Yew 7 claim was made by Kowalchuk. The area is presently covered by a mining lease. Kowalchuk based his calculations on SP (self potential) survey contours over known magnetite-pyrite-chalcopyrite-gold skarn horizons previously trenched and drilled.

Using an average thickness of 0.5 m, he arrived at figures of 34,810 tons "probable "at 0.5 oz/t gold and 78,810 tons "possible and probable" at 0.35 oz/t gold. (Note: these figures are quoted for historical reference only and do not meet current CIM standards for ore reserves. They are more correctly to be considered simply as an indication of the where the potential lies for resource definition using rigorous testing procedures such as closely spaced drilling). Kowalchuk also concluded that reconnaissance SP surveys on occurrences up to 1000 m away gave similar results to those used to calculate the "reserves" and that additional tonnage could be developed by further stripping, trenching and drilling.

Subsequent analysis of mining possibilities (Barker, 1988) envisioned open cut mining similar to coal strip mining but using a backhoe or excavator. Parameters used in this study are obviously well out of date and current mining economics, as well as metallurgical factors, would have to be reviewed.

Echo Bay mapped the Yew showing area in 1988 (Sarjeant, 1989). Reference is made to Rhyolite Resources' efforts to delineate reserves by trenching and air track drilling, which apparently did not succeed and indicated that the geology is complicated by faulting, however no records of this work have been reviewed.

## 9.2. Bolivar

The following description is from British Columbia Ministry of Energy, Mines and Petroleum Resources Minfile data:

> "The Bolivar occurrence area is underlain by Upper Triassic Quatsino Formation limestone in an interdigitating contact with Karmutsen Formation basalt, both formations of the Vancouver Group. An irregular wedge, thinning to the northwest, of siliceous skarnified rock follows a structure that roughly parallels the limestone/basalt contact. Some disseminated pyrite and minor chalcopyrite occurs within this unit and along the contact with the basalt and limestone. The basalts are thick bedded, amygdaloidal and massive flows which locally are epidotized and cut by quartz veins.
>
> The quartz veins range from a fraction of a centimetre to 50 centimetres or more in width and commonly contain pyrite and lesser amounts of pyrrhotite and chalcopyrite. Local intense zones of epidotization are accompanied by some silicification with associated pyrite, pyrrhotite and chalcopyrite. The limestone is mainly fine-grained and grey and cut by numerous basaltic dikes. Local zones within the limestone show varied intensity of recrystallization to marble. Black carbonaceous (graphitic) material occurs in pockets, along sinuous partings and along the outer margins of the recrystallized zones.
>
> Native gold occurs as streaks and disseminations along subparallel graphitic slips in a sheeted zone of variably recrystallized limestone. Pyrite is also present but is most abundant in the carbonaceous material. The gold-bearing zone is 41 metres long, 3 metres wide and extends to a depth of 15 metres. Diamond drilling has indicated north dipping stratigraphy and a mylonitic contact zone with footwall basaltic volcanics. A sludge sample of drill core assayed up to 1.9 grams per tonne gold with minor values in silver (Assessment Report 11826).
>
> Diamond drilling has also revealed that silver values are associated with stringer-type sphalerite veinlets, pyrrhotite and minor chalcopyrite in a graphitic shear zone in limestone elsewhere on the property. A 1734 tonne bulk sample from the Bolivar pit returned a total of 1031.14 grams of gold (Assessment Report 16702). Ore has subsequently been mined from the Bolivar pit where initial mill feed graded 5.14 grams per tonne gold (George Cross Newsletter #89, 1987). "

This area is very close to the mill owned by the company. It has been suggested that recovery of native gold in drill core may have been a problem. This factor, together with any other surface exploration data in the immediate vicinity, needs to be taken into consideration in further evaluation of the occurrence.

## 9.3. M-21

The following description is from British Columbia Ministry of Energy, Mines and Petroleum Resources Minfile data:

> "The Marjorie occurrence area is underlain by Upper Triassic Karmutsen Formation amygdaloidal basalt close to the contact with Quatsino Formation limestone, both of the Vancouver Group. The basalts are fractured and sheared and host a series of eight parallel gold-bearing, pyritic quartz-calcite veins and stringers with variable amounts of siderite and ankerite. The veins strike west-southwest, dip vertically and occur within 100 metres of one another. They vary from a few centimetres to 1.2 metres in width, and attain a maximum strike length of 44 metres. Wallrock contacts are well-defined.
>
> Mineralization in the veins also include minor amounts of native gold, pyrrhotite and occasional galena. A main shaft is developed on a vein (Main Shaft vein) on the Saga claim (Lot 216) where some historic production has taken place from drifting and stoping. At the face of the west drift a fault cuts off the vein. A grab sample of sorted ore from dump material from the west drift assayed 67.87 grams per tonne gold and 17.14 grams per tonne silver (Minister of Mines Annual Report 1922, page N237). Sixty-one metres south of the Main Shaft vein, an open cut exposes the Big vein which parallels the Main Shaft vein and dips 80 degrees north towards it. A chip sample taken across the Big vein assayed 10.96 grams per tonne gold (Minister of Mines Annual Report 1922, page N236). Five other veins occur between the Main Shaft vein and the Big vein. Forty-two metres north of the Main Shaft vein, an open cut exposes the No. 8 vein. A grab sample of sorted ore from dump material from an open cut on the No. 8 vein assayed 87.75 grams per tonne gold and 20.56 grams per tonne silver (Minister of Mines Annual Report 1925, page A287)."

The area was part of Echo Bay's exploration coverage, and geophysical surveys defined a number of targets that were not followed up due to higher priority placed on the Paris mine area. These geophysical features include five anomalous IP zones, with sources believed to be near surface metallic mineralization with a potential for associated gold. Among these targets is a showing historically known as the Gladys C.

The following description is from British Columbia Ministry of Energy, Mines and Petroleum Resources Minfile data:

> "The Gladys C-Cadet occurrence area is underlain by a complex northwest trending sequence of Upper Triassic Quatsino Formation recrystallized limestone and Karmutsen Formation amygdaloidal basalt, both of the Vancouver Group.

> Several small diorite bodies are evident with mafic diorite dykes and diorite dikes. A teardrop- shaped diorite intrusive occurs on the adjoining Volunteer claim (092F 268) to the northwest. The stratigraphy is strongly sheared in a north-northwest direction and is often faulted in the same direction. Intrusive bodies are commonly emplaced along these faults. A prominent fault on the Gladys C claim (Lot 135) forms a contact between basalt and limestone. Mineralization is localized in small patchy magnetite-garnet-pyroxene skarns developed in and near the fault. The magnetite skarns are variably mineralized with sphalerite, some chalcopyrite and to a lesser extent, galena and pyrite. A rock sample from a garnet-pyroxene skarn with chalcopyrite assayed 6.31 grams per tonne gold (Assessment Report 18672). Occasional chalcopyrite is also found in quartz stringers in basalt.
>
> Three hundred and fifty metres west of the Gladys C claim, on the Cadet claim (Lot 138), garnet-pyroxene skarn encloses a magnetite-garnet core developed near a diorite intrusive. Rock samples of a magnetite-garnet skarn assayed 1.58 grams per tonne gold and samples from a garnet-pyroxene skarn with chalcopyrite assayed 8.64 grams per tonne gold (Assessment Report 18672)."

An adjacent grid area known as the Eagle Cove grid also produced geophysical targets that were not followed up.

## 9.4. Surprise Mountain (Nancy Bell and Silver Tip)

The following description is from British Columbia Ministry of Energy, Mines and Petroleum Resources Minfile data:

> "The Surprise Mountain area is underlain by rhythmically layered amygdaloidal, feldspar porphyritic and spherulitic basalt flows of the Upper Triassic Karmutsen Formation (Vancouver Group). Mineralized quartz and quartz-carbonate veins with variable sulphide content are associated with narrow, steeply dipping shear zones.
>
> The Nancy Bell occurrence is underlain by Karmutsen Formation amygdaloidal basalt and a thin interbed of limestone. The rocks are cut by a shear structure striking 145 degrees and dipping 65 degrees southwest. The shear zone is locally silicified, strongly chloritic and 2 to 3 metres wide in places. The zone hosts quartz and quartz- calcite veining. En echelon bodies of silicified and mineralized volcanics indicate a component of right lateral shearing. Mineralization consisting of pyrite, sphalerite, chalcopyrite and galena occurs on the footwall side of the veins. A composite grab sample of sulphide-rich material assayed 16.48 grams per tonne gold, 197.8 grams per tonne silver, 9.62 per cent copper, 2.9 per cent zinc and 0.09 per cent lead (Assessment Report 18672).

> Past work includes a shaft developed on the shear zone, 240 metres northeast of the Silver Tip workings (092F 261)."
>
> "The Silver Tip occurrence is underlain by amygdaloidal basalt of the Karmutsen Formation cut by a shear structure striking 315 degrees and dipping 75 to 80 degrees northeast. It can be traced for 250 metres along strike but appears to be cut off to the northwest by faulting. The shear zone is typically less than 1 metre in width and hosts quartz and quartz-carbonate veins. Mineralization in the veins consists of massive pyrite, chalcopyrite with lesser sphalerite and galena. Locally, the quartz veins exhibit a drusy texture. A 0.6 metre chip sample across the shear assayed 12.21 grams per tonne gold, 22.9 grams per tonne silver and 1.24 per cent copper (Assessment Report 18672).
>
> A sample of carbonate vein and altered volcanic from dump material assayed 13.99 grams per tonne gold, 8.5 grams per tonne silver, 0.07 per cent copper, 1.8 percent zinc and 0.37 per cent lead. Although this material is common in the dump, recent mapping has not revealed any exposures (Assessment Report 18672). Work done includes two shafts 70 meters apart developed along the shear zone. Some drifting has also taken place."

Also evaluated by Echo Bay, this area produced both induced polarization and self potential anomalies that were recommended as drill targets. The Nancy Bell and Silver Tip occurrences are situated on separate splays of a northwest trending structure.

The depth potential is unknown, as is that of their intersection at depth. Intersections along strike are also potential exploration targets.

## 9.5. Paris - Loyal

The following description is from British Columbia Ministry of Energy, Mines and Petroleum Resources Minfile data:

> "The area is predominantly underlain by massive limestone of the Upper Triassic Quatsino Formation (Vancouver Group) cut by a suite of elongate hornblende-rich dioritic intrusions that commonly contain mafic xenoliths and occupy major fractures. Mafic diorite dikes exhibit varying degrees of endoskarn alteration but exoskarn halos are generally less than 1 metre thick and, in many places, are totally lacking. Gangue mineralogy consists of garnet, pyroxene, amphibole, epidote and locally minor wollastonite. The Paris occurrence area is underlain by Quatsino Formation limestone intruded by two small diorite bodies and diorite dikes.

> A distinct east trending quartz porphyry dike transects the Paris prospect and is thought to be of Cretaceous age. Skarn zones comprised in part of garnet, pyroxene and actinolite are developed at the limestone/diorite contacts. The skarns contain massive magnetite with disseminations and stringers of chalcopyrite, pyrrhotite, pyrite and sphalerite. A few shallow shafts have been sunk on some of the magnetite lenses. A rock sample of magnetite- garnet skarn with chalcopyrite assayed 12.86 grams per tonne gold and 22.8 grams per tonne silver (Assessment Report 18672). Crystalline native arsenic has recently been identified by x-ray diffraction in marbles adjacent to the outer margins of the skarn (Fieldwork 1989, page 262)."
>
> Subsequent to its 1988 field program, which included airborne geophysics, Echo Bay Mines identified seventeen targets for ground follow-up in 1989 with induced polarization, magnetic and geochemical surveys. This work led to a focus on the Paris area, with two areas targeted for drilling. The primary area, proximal to the drill hole intrusive where anomalous surface sampling indicated a potential for subsurface mineralization, was drilled with three holes totaling 827 metres. Significant results were not obtained.

An additional six holes totaling 2044 meters intersected a number of gold bearing intervals, with grades and intervals ranging from 0.109 oz/t over 0.8 meter to 0.831 oz/t over 1.55 meter (true widths likely to be shorter). These intercepts are all at significant depth, most approaching 200 meters and one in excess of 300 meters and may be related to the chargeability anomalies shown by the I.P. Survey.

As is quite common on many showings throughout the island, grab samples from surface showings at the Paris produced significant gold values (12.85 g/tonne, 13.96 g/tonne, with resamples grading 2.47 g/tonne and 5.11 g/tonne). Channel samples, however, are generally poor (<100 ppb) with the exception of one sample at 6.08 g/tonne over 2.0 metres (Sarjeant and Nighswander, 1990).

## 10. GEOPHYSICAL SURVEYS (2003)

In June of 2003 SJ Geophysics conducted a 3D Induced Polarization Survey on behalf of 555 Corporate Ventures Inc. Resistivity and IP measurements were taken on approximately 6.9 kms on the Yew grid. The purpose of this survey was to carry out exploration of known and possibly undiscovered mineral concentrations over the mineral license area.

The Yew mineral occurrence consists of a near surface, narrow (0.5 to 2 m) zone of flat-lying skarn-altered and pyrite-magnetite replacements of a limestone bed.

The geophysical surveys were carried out to delineate the aerial extent of this known mineral zone and to locate other related mineral zones at depth.

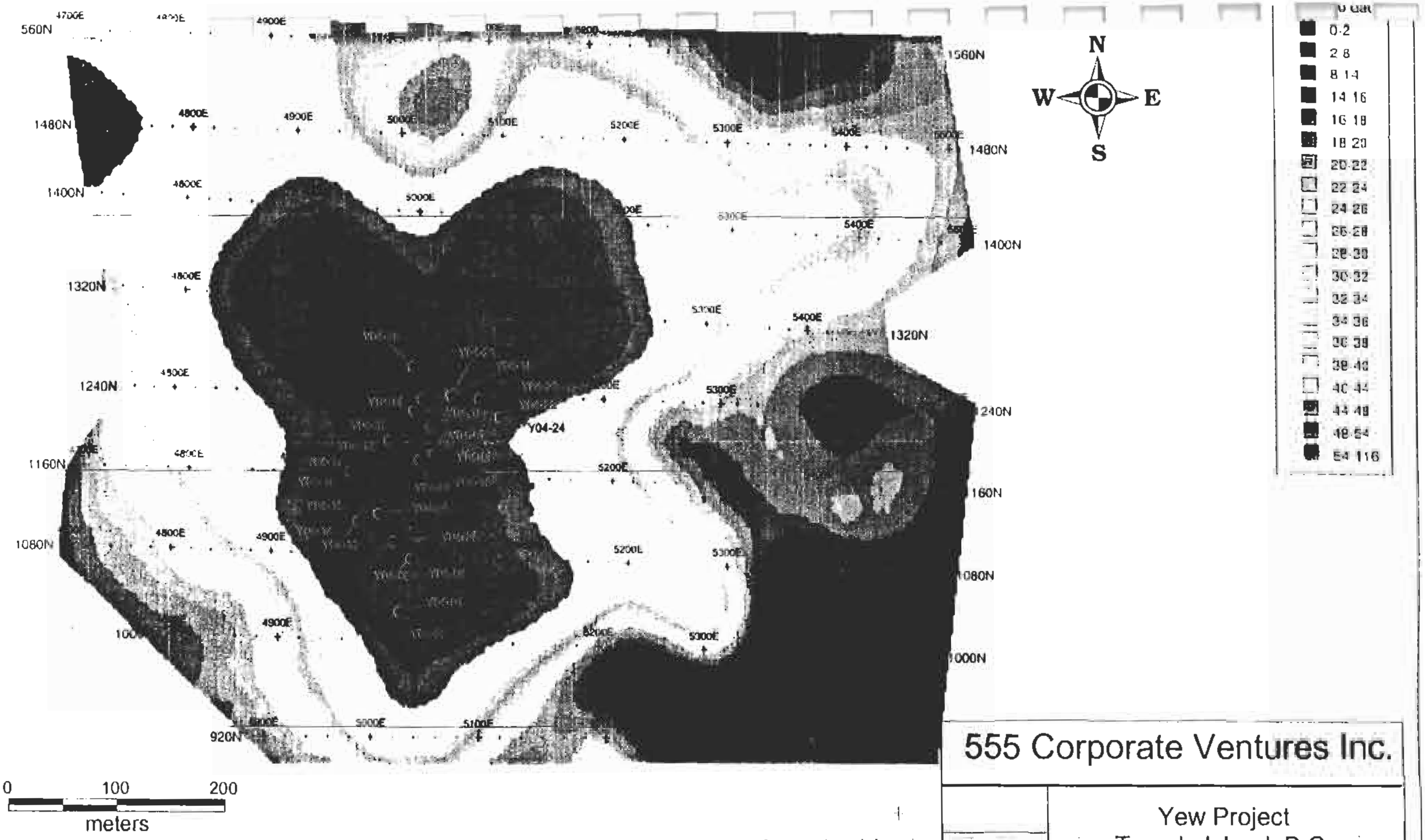
The Yew grid Inversion Models indicate a wide range in resistivity values, from 100 to 20,000 Ohm-m. A resistive feature in the eastern portion of the survey extends to depth in the north-central area of the grid. Diorite plugs lying north of the Yew occurrence may be the source of this resistive feature. During the course of the current diamond drill program, a north-south trending feldspar porphyry dike was encountered throughout the central part of the grid area. This dike may also be a major cause of the resistive feature.

The Chargeability Inversion Models delineate an extensive anomalous feature extending through the entire grid, from north to south. Depth to the top of this anomaly is in the range of 50 meters and exhibits a shallow westerly dip. There is moderate correlation between regions of lower resistivity and the chargeable zone.

A potential interpretation of this anomaly is a mineralized skarn zone, with higher mineral concentrations occurring in proximity to the feldspar porphyry dike. It is speculated that the near surface gold-enriched, flat-lying skarn/ massive pyrite-magnetite zones have been formed within a persistent limestone bed, with the highest mineral concentrations found within 40 to 50 meters east and west of the feldspar porphyry unit.

The current diamond drill program was carried out in part to test various aspects of the 2003 Induced Polarization surveys over the Yew mineral prospect. In particular, the diamond drill program attempted to locate additional, potentially economic mineral zones lying below the currently known near-surface skarn zone.

The current diamond drill program did not substantiate the cause of the widespread, consistent chargeability anomaly that trends north-south through the grid area. It is proposed that higher than background concentrations of disseminated and fracture fill pyrite with pervasive magnetite may be the cause of the anomalous feature. This enhancement may be caused to a large part by the mineralizing effect of the north-south trending feldspar porphyry dike that has contributed high sulphide gold and magnetite concentrations within the main limestone horizon at the Yew prospect.



# 555 Corporate Ventures Inc.

Yew Project
Texada Island, B.C.

IP Chargeability Anomaly

Date: Sept. 2004
Author:
NTS: 92F/15
Figure: 3
Scale: 1:5000
Projection: NAD83, Zone 10

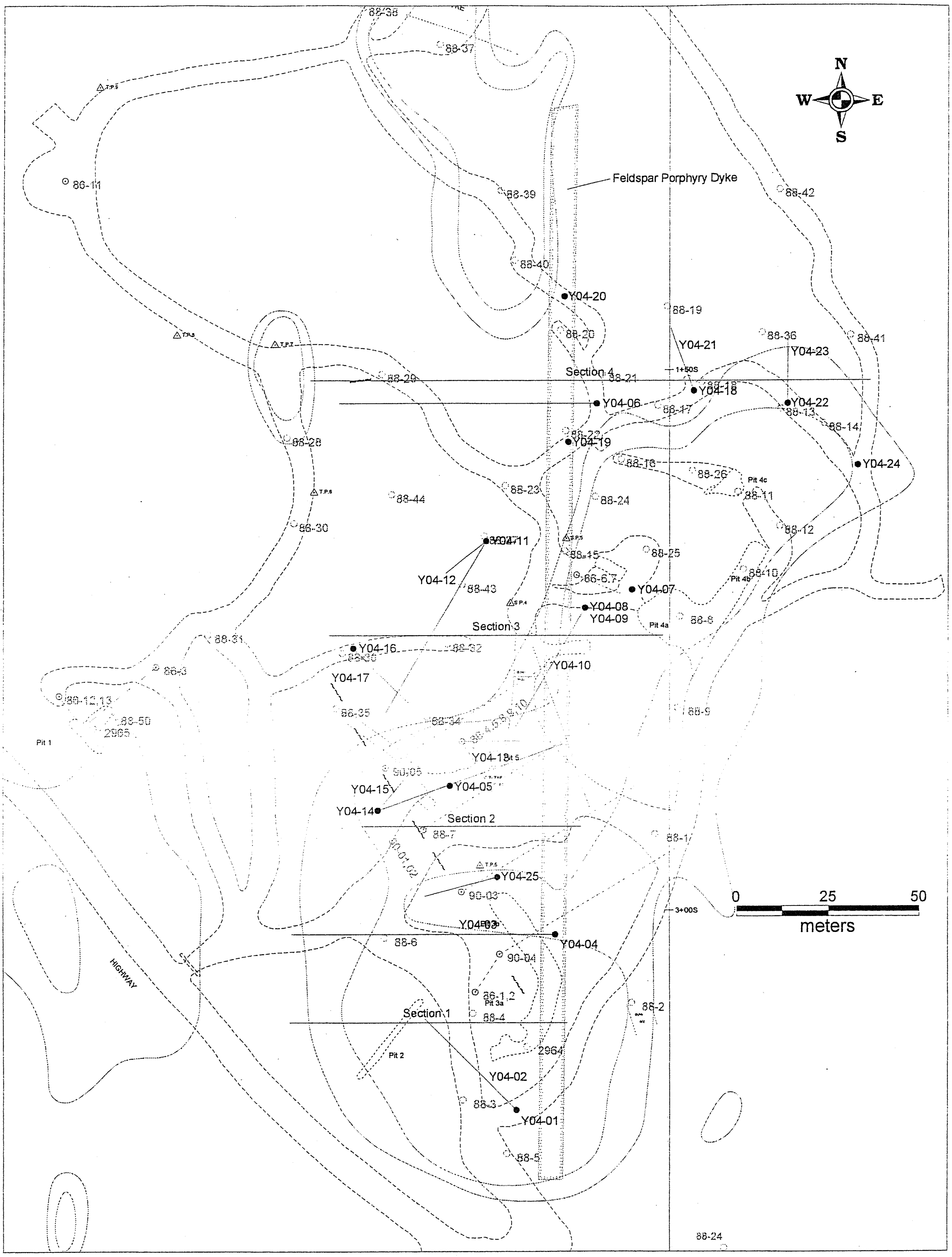
Rio Minerals Limited

## 11. 2004 DIAMOND DRILL PROGRAM

The diamond drill contract for the Yew drilling program was awarded to Neill's Mining Co. of Victoria, B.C. The drill contractor provided a Hydracore 28 diamond drill and drilling was carried out with production of BTW (48mm) drill core. The drill program was carried out on the Yew Mining Lease 345340 (Yew 7) from July 5 to August 23, 2004.

A total of 25 drill holes totaling 1541.4 meters were drilled over the July –August period and are summarized in the following table:

| Hole ID | From | To | Length | Azimuth | Dip | Area | Description |
|---|---|---|---|---|---|---|---|
| Y04-1 | 0 | 91.44 | 91.44 | 0 | -90 | pit area | no skarn (footwall) |
| Y04-2 | 0 | 50.29 | 50.29 | 315 | -45 | pit area | no skarn (footwall) |
| Y04-3 | 0 | 102.41 | 102.41 | 270 | -45 | pit area | no skarn (footwall) |
| Y04-4 | 0 | 152.4 | 152.4 | 0 | -90 | pit area | no skarn (footwall) – feldspar porphyry dike |
| Y04-5 | 0 | 105.76 | 105.76 | 0 | -90 | pit area | no skarn (footwall) |
| Y04-6 | 0 | 141.42 | 141.42 | 270 | -60 | Road | no skarn (feldspar porphyry dike displacement) |
| Y04-7 | 0 | 60.35 | 60.35 | 0 | -90 | Cave | no recovery (skarn mined out) |
| Y04-8 | 0 | 31.7 | 31.7 | 0 | -90 | Cave | good skarn/mineralization |
| Y04-9 | 0 | 169.16 | 169.16 | 0 | -90 | Cave | good skarn/mineralization |
| Y04-10 | 0 | 54.86 | 54.86 | 210 | -45 | Cave | good skarn/mineralization |
| Y04-11 | 0 | 67.06 | 67.06 | 0 | -90 | Cave | good skarn/mineralization |
| Y04-12 | 0 | 80.62 | 80.62 | 210 | -47 | Cave | good skarn/mineralization |
| Y04-13 | 0 | 76.2 | 76.2 | 70 | -45 | pit area | weak skarn alteration |
| Y04-14 | 0 | 21.03 | 21.03 | 40 | -52 | pit area | weak skarn alteration |
| Y04-15 | 0 | 18.44 | 18.44 | 40 | -45 | pit area | weak skarn alteration |
| Y04-16 | 0 | 57.91 | 57.91 | 0 | -90 | pit area | minor limestone, no skarn |
| Y04-17 | 0 | 32 | 32 | 135 | -48 | pit area | no skarn |
| Y04-18 | 0 | 15.24 | 15.24 | 0 | -90 | Road | 0.75 m limestone with 3 cm massive pyrite |
| Y04-19 | 0 | 54.56 | 54.56 | 0 | -90 | Road | feldspar porphyry dike |
| Y04-20 | 0 | 20.73 | 20.73 | 0 | -90 | Road | feldspar porphyry dike |
| Y04-21 | 0 | 28.96 | 28.96 | 340 | -50 | Road | good skarn/mineralization |
| Y04-22 | 0 | 30.48 | 30.48 | 0 | -90 | Road | 3m limestone, minor mineralization |
| Y04-23 | 0 | 25 | 25 | 360 | -45 | Road | 1.2 m limestone |
| Y04-24 | 0 | 22.86 | 22.86 | 0 | -90 | Road | no skarn, (footwall) |
| Y04-25 | 0 | 30.48 | 30.48 | 255 | -47 | pit area | weak skarn alt |
|  |  | **TOTAL** | **1541.4 m** |  |  |  |  |



## LEGEND

| | |
|---|---|
| 88-24 ○ | Percussion drill hole location |
| ⊙ 86-11 | Diamond drill hole location |
| △ T.P.6 | Survey point |
| ........ | 100 mV Self Potential contour |
| ........ | 75 mV Self Potential contour |
| ~~~ | Shear |

555 Corporate Ventures Inc.

| | |
|---|---|
| | Yew Project<br>Texada Island, B.C. |
| Date: Sept. 2004 | |
| Author: | Drill Hole Compilation Map |
| NTS: 92F/15 | |
| Figure: 4 | |
| Scale 1:1000 | Projection: NAD83, Zone 10 |

Rio Minerals Limited

Drill hole sites were accessed using existing roads, within proximity of the main Yew pit. Three days of excavator work were required to rehabilitate some of the overgrown roads and to prepare several drill sites. All the diamond drilling was located within 150 meters of the main Yew pit (Pit 5). Drill holes were located using a hand-held GPS unit.

Drill hole locations were established both in proximity to the Yew pit and in areas without previous diamond drill coverage. A priority of the current drill program was to locate new areas of mineralization beyond the known area of flat-lying skarn mineralization.

A percussion drill program consisting of 50 short drill holes was carried out over several areas of the Mining Lease area in 1988. These holes provided limited information, with several of the holes lost to caving or water problems. The majority of the percussion holes were drilled to only 15 meter depths. Ten of these holes were drilled to less than 15 meters and 3 holes were drilled from 18 to 21 meters depth.

The current diamond drill program was carried out in several areas of the 1988 percussion drill program. The diamond drill program provided the advantage of consistent, measurable core intervals, which are not accurately available with a percussion drill program. The current drill program also tested for additional mineralized zones at far greater depths than was achieved by the 1988 percussion drill program.

All drill core was transported to the Bolivar mill site for logging and diamond saw sampling of prospective intervals. The drill core is stored at this location.

Drill core samples were personally delivered by the author and/or his assistant to Acme Analytical Laboratories Ltd. in Vancouver, B.C. All drill core samples were subjected to 30 element ICP analysis using aqua regia digestion. Fire geochemical methods were carried out for gold analysis on all samples.

## 12. 2004 DRILL PROGRAM – DISCUSSION OF RESULTS

The primary exploration target on the Yew prospect remains the near-surface skarn or pyrite-magnetite replacement limestone horizon. Based on the recent diamond drill program, no justification can be made for deeper examination or testing of lower horizons below the main skarn/limestone horizon.

It is suggested that the most prospective areas of future exploration on the Yew Mineral Zone lie on both the west and east sides of the north-south trending mottled feldspar porphyry dike. Drill exploration should be carried out to the north of the main Yew pit, on the west side of the porphyry dike. to the northern boundary of the mineral license. Exploration on the east side of the porphyry dike should be carried out northward from the area of drill holes Y04-07, Y04-08, Y04-09 and Y04-10 (area of previous underground cave excavation). Based on existing drill data, it is recommended that exploration not be carried out beyond 50 meters, both west and east of the margins of the controlling feldspar porphyry dike unit. It is apparent that skarn and/or mineralizing processes are very weak or erratic beyond the 50 meter influence of the feldspar porphyry dike.

The 25 drill holes of the recent drill program can be grouped based on various geological similarities or patterns. The following brief discussions will discuss these geological parameters.

### A. Drill holes Y04-01, Y04-02, Y04-03, Y04-04, Y04-05, and Y04-24

Drill holes Y04-01, Y04-02, Y04-03, and Y04-04 were drilled south of the main Yew pit area. All these holes were drilled in footwall basaltic rocks below the level of the main mineralized skarn horizon. Drill hole Y04-04 was drilled along the western margin of the north-south feldspar porphyry dike unit.

Drill hole Y04-05 was drilled at the northern end of the main pit area and was drilled in an area that had seen previous stripping of the main flat-lying mineralized skarn horizon and was thus also drilled in footwall basalts.

Drill hole Y04-24 at the northeast area of drilling was also drilled in footwall basalts below the mineralized skarn horizon.

### B. Drill holes Y04-13, Y04-14, Y04-15, and Y04-25

Drill holes Y04-13,14, and 15 were drilled from a common drill site intended to cross the central (Y04-13) and northern (Y04-14, Y04-15) portions of the main pit area. Weak skarn mineralization was encountered in all three of these drill holes and did not contain any values of significance.

Drill hole Y04-25, drilled approximately 40 meters southeast of drill holes Y04-13, Y04-14, and Y04-15 contained similar style weak skarn alteration.

All four of these drill holes are considered to be drilled below or within the footwall of the main flat-lying mineral skarn horizon.

Fine grained disseminated pyrite, associated with the weak skarn alteration, does not appear to carry significant gold values. The area in which this drilling took place appears to lie too far west of the mineralizing influence of the main feldspar porphyry dike.

### C. Drill holes Y04-16 and Y04-17

These two drill holes, located immediately north of the main Yew pit, contained no noticeable skarn alteration. This area may have been partially mined in the past and may have had mineralization removed, thus negating the possibility of mineralization in these drill holes. A more likely scenario would suggest that these two drill holes lie too far west of the mineralizing influence of the feldspar porphyry dike.

### D. Drill holes Y04-06, Y04-19, and Y04-20

Drill holes Y04-19 and Y04-20 were drilled entirely within the north-south trending feldspar porphyry dike unit.

Drill hole Y04-06 was drilled between drill hole Y04-19 and Y04-20. Drill hole Y04-06 was drilled at –60 degrees dip, on a west azimuth. At the depth at which the mineralized skarn horizon should have been intercepted, the drill hole encountered the feldspar porphyry dike, thus negating the possibility of intersecting the skarn horizon in this drill hole.

### E. Drill holes Y04-07, Y04-08, Y04- 09, Y04-10, Y04-11, Y04-12, Y04-18, Y04-21, Y04-22, and Y04-23

The drill holes listed above contained distinct limestone and /or skarn-related mineral zones related to alteration or mineral replacements of the limestone horizon.

Drill hole Y04-07 was drilled above a cave-like excavation, where previous mineral extraction had taken place. This hole intersected the underground workings, resulting in a missing core section of the pre-existing mineral horizon. At the entrance to the cave excavation, a surface sample of massive magnetite was taken by D. Blann. Sample Y04-DB-1 returned 1154 ppb gold, 0.9 ppm silver and 911 ppm copper. Sample Y04-DB-2 was taken from a pit, located approximately 40 meters north of sample location Y04-DB-1. Sample Y04-DB-2 returned 486 ppb gold, 1.3 ppm silver and 1020 ppm copper.

Drill holes Y04-08, Y04-09, Y04-10, Y04-11, Y04-12, and Y04-21 all intersected significant skarn/massive pyrite-magnetite mineralization. All of these holes lie within close proximity of the north-south trending feldspar porphyry dike unit. Drill holes Y04-11 and Y04-12 contained disrupted zones of sulphide/skarn alteration at considerably greater depth than adjoining drill holes. The mineral zones located in drill holes Y04-11 and Y04-12 likely represent down-faulted, attenuated mineral sections. Pressure effects due to the intrusion of the feldspar porphyry dike, are the likely cause of faulting and rock breakage, in the area of these two drill holes.

Drill holes Y04-18, Y04-22, and Y04-23 contained well defined limestone beds, but contained minor or lacking mineralization. Drill holes Y04-22 and Y04-23, which were drilled from the same location, are considered to lie at too great a distance from the mineralizing influence of the feldspar porphyry dike.

All diamond drill holes have been projected on to four different section lines and are presented in Appendix IV, at the back of this report.. The section lines are displayed on Figure 4 ( Drill Hole Compilation Map). Drill holes display general lithologic units and accompanying color-coded geochemical values for gold, copper and silver.

The following table provides assay data related to significant mineral intervals within these drill holes.

| Hole No. | Interval | Width | Description | Gold (ppb) | Silver (ppm) | Copper (ppm) |
|---|---|---|---|---|---|---|
| Y04-08 | 6.63-7.4 | 0.77 m | Semimsv py,mag + 20% diops., garnet, qtz | 314 | - | 775 |
| | 7.4-7.67 | 0.27 m | Semimsv magnetite + pyrite, 20% skarn | 2304 | 1.0 | 2304 |
| | 7.67-8.9 | 1.23 m | Pyritic basalt | 4823 | 0.6 | 4823 |
| Y04-09 | 7.01-7.84 | 0.83 m | Massive f.g. magnetite, 20% skarn | 512 | 0.3 | 1433 |
| Y04-10 | 9.75-10.55 | 0.80 m | Massive pyrite w. 10-20% magnetite, quartz | 4679 | 5.0 | 7366 |
| Y04-11 | 18.92-20.42 | 1.50 m | Basalt w. 10 cm semimsv py @ 19.8 m | 9405 | 0.5 | 242 |
| | 26.17-27.85 | 1.68 m | Massive coarse grained replacement pyrite | 338 (296) | - | 199 |
| Y04-12 | 21.96-22.56 | 0.60 m | Massive pyrite, 20-30% magnetite, quartz (broken) | 18563 | 2.6 | 2490 |
| Y04-18 | 8.90-9.65 | 0.75m | Massive limestone w. 2.5 cm msv f.g py | 37 | - | 103 |
| Y04-21 | 13.83-17.07 | 3.24 m | Skarn alt'n | 86 | - | 202 |
| | 17.07-18.22 | 1.15 m | Skarn alt'n (msv py > magnetite (17.5-17.8) | 325 | 0.8 | 2416 |
| | 18.22-18.92 | 0.70 m | Skarn alt'n | 97 | 0.4 | 330 |
| | 18.92-20.0 | 1.08 m | Skarn alt'n (msv py>magnetite (19.1-19.3) | 215 | - | 867 |
| Y04-22 | 6.22-9.14 | 2.92 m | Massive limestone | | | |
| | 6.1-6.4 | 0.30 m | Msv f.g magnetite | 205 | - | 809 |
| | 10.1-10.3 | 0.20 m | Msv f.g py> magnetite | 688 | 1.7 | 8315 |
| Y04-23 | 11.45-12.7 | 1.25 | Massive limestone | | | |

## Discussion of Significant Mineralization

During the recent drill program consistently high gold values were returned from drill holes Y04-Y04-08, Y04-09, Y04-10, Y04-11 and Y04-12. Drill holes Y04-08, Y04-09 and Y04-10 were drilled from a common location, in the area of the cave excavation and lie on the east side of the feldspar porphyry dike. Drill holes Y04-11 and Y04-12 were drilled from a common location on the west side of the porphyry dike.

The following discussion of each of these five drill holes will indicate the economic significance of mineralization, in this area of the Yew prospect.

### Y04-08

Drill hole Y04-08 was a vertical drill hole, drilled to 31.7 meters depth. Massive limestone was intersected at 6.27 to 6.63 meters. The limestone was followed by 1.04 meters of skarn mineralization from 6.63 to 7.67 meters.

From 6.63 to 7.4 meters, the skarn consisted of massive intermixed patchy fine grained pyrite and magnetite with approximately 20 % garnet, diopside and quartz. This section assayed **314 ppb gold** and **775 ppm copper.** The interval from 7.4 to 7.67 meters, consisted of massive fine grained magnetite with approximately 10% mixed garnet, diopside. This section assayed **2304 ppb gold** and **2496 ppm copper**.

The pyritic basalt following the skarn mineralization (7.67-8.9 m) returned **4823 ppb gold** and **758 ppm copper**.

### Y04-09

Drill hole Y04-09 was a second vertical hole drilled from the same set-up as drill hole Y04-08.

Drill hole Y04-09 was drilled to 169.2 meters depth and contained similar style of skarn mineralization as that seen in adjacent drill hole Y04-08.

Massive limestone was intersected from 6.27 to 7.01 meters. Skarn mineralization occurred from 7.01 to 7.84 (0.83 m) meters. The mineralization consisted mainly of massive fine-grained replacement magnetite with approximately 20% scattered patches of pale brown garnet and pale green diopside. Pyrite was lacking within this skarn, which returned **512 ppb gold** and **1433 ppm copper**.

### Y04-10

Drill hole Y04-10 was drilled at 210 degree azimuth and 45 degree dip, from the same location as drill holes Y04-08 and Y04-09

A mineralized skarn interval was encountered in this drill hole from 8.0 to 10.55 (2.55) meters. The true thickness of this interval is 2.0 meters.

From 8.0 to 9.75 meters skarn alteration consisted of equally mixed magnetite and garnet . The sampled interval returned **785 ppb gold** and **1377 ppm copper**. The interval from 9.75 to 10.55 meters consisted of massive pyrite + chalcopyrite with 10-20 % mixed magnetite and interstitial quartz. This section ran **4679 ppb gold** and **7366 ppm copper**.

A 3.11 meter (10.55-13.66 m) interval in the basalts, immediately following the skarn zone, returned **616 ppb gold** and **2075 ppm copper.**

The strong skarn mineralization in drill holes Y04-08, Y04-09 and Y04-10 is directly related to the proximal location of the north-south trending feldspar porphyry dike. The porphyry dike unit was present in all three of these drill holes, at relatively shallow depths, below the skarn layer. The porphyry intersections likely occur as flat-lying sill apophyses, branching from the main vertical dike unit.

## Y04-11

Drill holes Y04-11 and Y04-12 were drilled from a common location, approximately 35 meters northwest of drill holes Y04-08, Y04-09 and Y04-10. Drill hole Y04-11 was drilled vertically to 67.1 meters and drill hole Y04-12 was drilled to 80.6 meters, on an azimuth of 210 degrees at a 47 degree dip.

Massive, broken medium to coarse pyrite was intersected in Y04-11 at 26.17 to 27.85 (1.68) meters. This interval returned a relatively low value of **338 ppb gold** (296 ppb gold – rechecked).

An interval within the upper basalt unit of this hole at 18.92 to 20.42 (1.5) meters returned a high gold value of **9405 ppb gold**. It is believed that this high value was attributed to a 0.1 meter band of contained gold-bearing massive pyrite.

## Y04-12

Drill hole Y04-12 contained strongly anomalous gold values to approximately 40 meters depth.

The most significant zone of mineralization was intersected at 21.96 to 22.56 (0.6) meters. This mineralization consisted of massive medium grained pyrite with approximately 20-30% interstitial magnetite and quartz. This interval contained the highest gold value of the drill program at **18,563 ppb gold** and **2490 ppm copper**.

Other significant intervals within this drill hole included **1367 ppb gold** at 8.23-9.75 meters and **1237 ppb gold** at 37.57 to 39.85 meters. These values are attributed to localized increased pyrite concentrations within basalts.

Significant areas of fracturing and breakage were noted in both drill holes Y0-11 and Y04-12. This disruption has likely been caused by pressure effects caused by the presence of the adjacent feldspar porphyry dike, which is the assumed cause of skarn mineralization of the main limestone bed at the Yew property.

The mineralized intervals in both drill holes Y04-11 and Y04-12 appear to have been down-dropped through faulting. The faulting process has likely attenuated or shortened the original mineralized horizon. If this is the case, thicker mineralized skarn areas may be present immediately beyond this zone of intense breakage.

As noted in the discussion of drill hole Y04-08, Y04-09, Y04-10, Y04-11 and Y04-12, the strongest gold values occur in a combination of skarn alteration with associated pyrite and magnetite. The highest gold values appear to be directly proportional to the pyrite component. However, massive pyrite without accompanying skarn alteration, as seen in drill hole Y04-11, does not carry appreciable gold. Massive magnetite with or without accompanying skarn alteration and/or pyrite is also generally lacking in appreciable associated gold.

## 13. CONCLUSIONS AND RECOMMENDATIONS

The Yew prospect is only one several mineral zones contained within the extensive claim areas held by 555 Corporate Ventures Inc. The most promising areas of known mineralization include the Yew, Holly, Bolivar, M-21, Surprise Mountain, and Paris-Loyal. It is recommended that a review of existing data and field evaluations be made of all the known mineral occurrences within the claim holdings. Some targets recommended by previous operators such as Echo Bay Mines, but never pursued, could possibly be brought to the drilling stage, without the necessity of extensive work programs.

The potential of the company's holdings is enhanced in that they occur within a historic mining area, and a well established infrastructure with respect to services, year round accessibility, tidewater facilities, an existing mill and proximity to a major centre. In addition, the property benefits from having extensive data available and the inclusion a number of exploration focal points.

The recent diamond drilling program on the Yew Mining License 345340 was successful in further delineating the extent of the flat-lying gold (+ copper/silver) skarn zone, present on the property. The diamond drill program, which totaled 1541.4 meters was carried in 25 drill holes.

Nine of these drill holes contained variable thicknesses of skarn-associated mineralization, containing appreciable gold with accessory silver and copper values. This near surface mineral zone continues to be the most prospective zone of potential exploitation on the property.

The highest mineral grades within the skarn zone occur within close proximity to a persistent north south trending mottled feldspar porphyry dike.

All of the historical exploration work at the Yew property has been carried out within an approximate 150 meter radius of the Yew pit. This area represents only a small portion of a mineral zone of high economic potential. Based on past and current drill data, it highly recommended that further diamond drill exploration be carried out throughout the northern unexplored portion of the mineral lease

Further definition drilling is recommended to further delineate the main mineral layer. Using the north-south trending porphyry dike as a baseline, drilling should be carried out at least 50 meters west and 50 meters east of the margins of the porphyry. Drilling should be carried out northward from the main Yew pit and should be extended northward as far as appreciable mineralization is encountered, possibly as far as the north boundary of the mineral lease.

Diamond drilling should be carried out in a regular grid pattern, with east-west drill lines spaced 40 meters apart along the north-south baseline. Drill hole spacings are recommended at 15 meter, 30 meter, and 45-meter distances from both the western and eastern margins of the porphyry dike unit. Drilling should be carried out using a relatively small, easily moved diamond drill. The Hydracore 28 drill used in the recent drill program, is suitable for any future diamond drill program. Vertical drill holes are recommended and would require drilling to no greater than 50 meters depth.

A future program of close-spaced drilling would require additional roadwork to provide new drillsite access. Government permits should be secured to allow for a minimal amount of tree cutting that would be required in building the road access.

Prior to further drilling at the Yew property, it is also recommended that a comprehensive ground survey be carried out. The survey should accurately locate and tie-in all known drill collars and surface workings. Elevations of all drill collars should be determined during the survey.

In the short term, the potential exists for definition of a reserve of gold bearing skarn/massive sulphides at the Yew occurrence. A production decision could be made, contingent upon a further diamond drill program, as recommended in this report. Metallurgical bench tests should also be carried out to determine gold recoveries and if a sellable concentrate can be produced at the existing mill.

## 14. REFERENCES

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MINFILE
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Geology and Mineral Deposits of Northern Texada Island, *in* Geological Fieldwork 1989, Paper 1990-1, British Columbia Ministry of Energy, Mines and Petroleum Resources

# 15. YEW PROPERTY – COST STATEMENT

| | | |
|---|---|---|
| 1. Diamond drilling: 5075 feet @$20.00/ft | | $101,500.00 |
| 2. Drill demobilization | | $2,000.00 |
| 3. Professional Engineer: 7 days @ $571.25/day | | $3,998.75 |
| 4. Professional Geologist: 37 days @ 385.87/day | | $14,277.19 |
| 5. Excavator: 14.0 hours@ $90.00/hr. | | $1,260.00 |
| 6. Assays | | $8.307.31 |
| 7. Expenses | | $3,768.23 |
| 8. Report | | $5.254.00 |
| 9. Management Fee | | <u>$15,506.47</u> |
| | **TOTAL:** | **$155,871.95** |

# APPENDIX I

# STATEMENT OF QUALIFICATIONS

# STATEMENT OF QUALIFICATIONS

**I: Gregory R. Thomson, of Langley, B.C., do hereby certify:**

1. That I am a consulting geologist residing at 3779 – 202 Street, Langley, BC.
2. That I am a graduate Geologist from the University of British Columbia (1970) and have over 25 years of mineral exploration experience in the province of British Columbia.
3. That I am a Profession Geoscientist registered in good standing in the Province of British Columbia
4. That the information contained in this report was based upon a review of previous reports and geological studies related to the property area.
5. I consent to the use of this report by International Metals Research Management Ltd. for it corporate purposes.
6. I do not own, either directly or indirectly, any interest in International Metals Research Management Ltd., 555 Corporate Ventures Inc, or any of their subsidiaries, or in the Texada Island Project described herein, nor do I expect to receive any.

Dated at Vancouver, B.C., September, 2004

Gregory R. Thomson, P.Geo.

G. R. THOMSON

# APPENDIX II

# DRILL LOGS

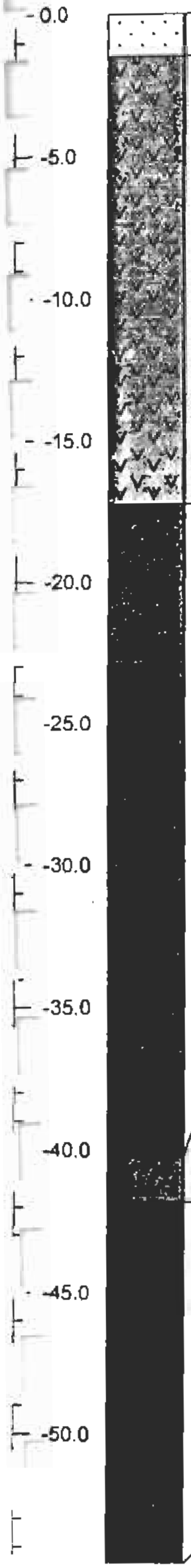
Property: Yew
Location: Texada Island, BC
Drillhole #: Y04-01
Drilled by: Neills Mining Ltd.
Logged by: D. Blann

Total depth: 91.44 m
Dip Angle: -90
Azimuth: 0
Start date: 07/05/04
Completion date:07/06/04

# Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/2



| Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions |
|---|---|---|---|---|---|
| OVERBURDEN | | | | | |
| BASALT: Black-Grey-green, fine grained spherulitic/amygdaloidal basalt flow, quartz-feldspar phync 1-3mm, ep-py vns 1-6mm. Local pyrite-rich matrix(non-magnetic) | | | | | |
| BASALT (FLOW BRECCIA): Black-Grey-green, fine grained basalt flow breccia, minor ep-py vns 1-3mm. Local pyrite-rich matrix(non-magnetic) | | | | | |
| BASALT: Black-Grey very Fine grained basalt flow, uniform matrix, weakly bleached, pale diopside. Upper-lower contact ca=10 degrees | | | | | |
| BASALT (FLOW BRECCIA): Black-Grey-green(diopside/amphibole), fine grained basalt flow breccia, minor ep-py vns 1-3mm. Local pyrite-rich matrix(non-magnetic),white qtz? needles in veins and vugs with py-mag+/-cp 20mm@ ca45degrees@36.57m,ca15degrees@49.8m | | | | | |

| Sample No. | Assays<br>Au ppb | <br>Ag ppm | <br>Cu ppm |
|---|---|---|---|
| 165001 | 23 | 0.3 | 189 |
| 165002 | 116 | | 280 |
| 165003 | 142 | 0.5 | 115 |
| 165004 | 73 | 0.5 | 64 |
| 165005 | 46 | 0.3 | 184 |
| 165006 | 71 | 0.7 | 277 |
| 165007 | 38 | 0.4 | 251 |
| 165008 | 21 | 0.3 | 310 |

-55.0

0.0

-65.0

-70.0

- 5.0

-80.0

-85.0

- 0

FAULT: Grey-green(chlorite), fine grained basalt flow breccia, subparallel shear zone, weak-magnetic),white calcite fracture fill veins and vugs with trace py- 10mm@ ca10degrees

BASALT (FLOW BRECCIA): Grey-green(chlorite/pyroxine), fine grained, coarse heterolithic basalt flow breccia, local ep-pyrx py+/- tr cp fracture fill veins and vugs 1-10mm@ ca10-45degrees,

| | | | |
|---|---|---|---|
| 165009 | 37 | 0.8 | 309 |
| 165010 | 12 | 0.3 | 217 |
| 165011 | 7 | | 182 |

Property: Yew
Location: Texada Island, BC
Drillhole #: Y04-02
Drilled by: Neills Mining Ltd.
Logged by: D. Blann

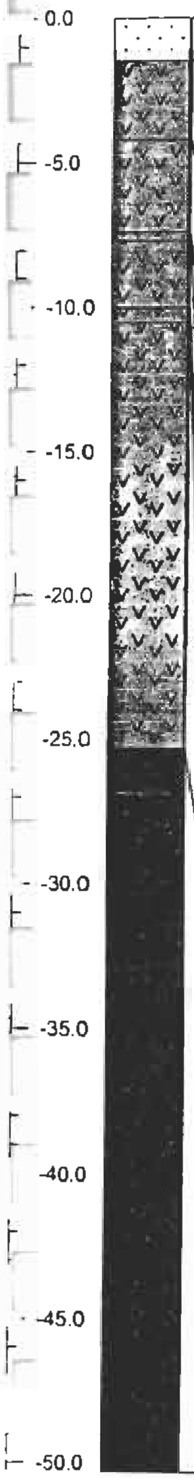
Total depth: 50.29 m
Dip angle: -45
Azimuth: 315
Start date: 07/06/04
Completion date: 07/07/04

# Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

lp/1

Depth (m) | Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays



OVERBURDEN

BASALT: Black-grey-green, fine grained,spherulitic/amygdaloidal basalt flows, broken along py-ep filled fractures 1-5mm, 10-30/m with quartz-epidote-pyroxine, amphibole selvages, rusty-FeOx.

BASALT: Black-grey-green, fine grained,spherulitic/amygdaloidal basalt flows, broken along py-ep filled fractures 1-5mm, 5-10/m with quartz-epidote-pyroxine, amphibole selvages, rusty-FeOx.

BASALT: Pale-green, fine grained,spherulitic/amygdaloidal basalt flows,pervasive Qtz-ep-py+/-tr cp with quartz-epidote- amphibole matrix, qtz veins.

BASALT: Black-grey-green, fine grained,spherulitic/amygdaloidal basalt flows, broken along py-ep+/cp filled fractures 1-5mm, 5-10/m with quartz-epidote-pyroxine, amphibole selvages, rusty-FeOx.

BASALT: Pale-green, fine grained,spherulitic/amygdaloidal basalt flows,pervasive Qtz-ep-py+/- tr cp with quartz-epidote amphibole matrix, qtz veins.

BASALT: Black-grey-green, fine grained,spherulitic/amygdaloidal basalt flows, minor Bx, broken along py-Qtz-ep+/cp filled fractures 1-20mm, 10-15/m with quartz-epidote-pyroxine, amphibole selvages, Local Qtz-ep-py-cp stringers @12.2mCA=45degrees 3cm, @13.4m CA=5degrees 1 cm, @14.93-15.3 pervasive ep-amph, tr pycp CA 45degrees.

BASALT (FLOW BRECCIA): Black-Grey-green(diopside/amphibole), fine grained basalt flow breccia, minor ep-py vns 1-3mm. Local pyrite-rich matrix(non-magnetic),local white qtz? needles (woll?)in veins and vugs with py-mag+/-cp

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165012 | 91 | 0.3 | 223 |
| 165013 | 64 | 0.5 | 219 |
| 165014 | 50 | 0.3 | 174 |
| 165015 | 59 | 0.3 | 177 |
| 165016 | 168 | 0.6 | 667 |
| 165017 | 28 | 0.5 | 264 |
| 165018 | 32 | 0.7 | 384 |
| 165019 | 48 | 0.4 | 275 |
| 165020 | 46 | 0.5 | 198 |

Property: Yew
Location: Texada Island, BC
Drillhole #: Y04-03
Drilled by: Neills Mining Ltd.
Logged by: D. Blann

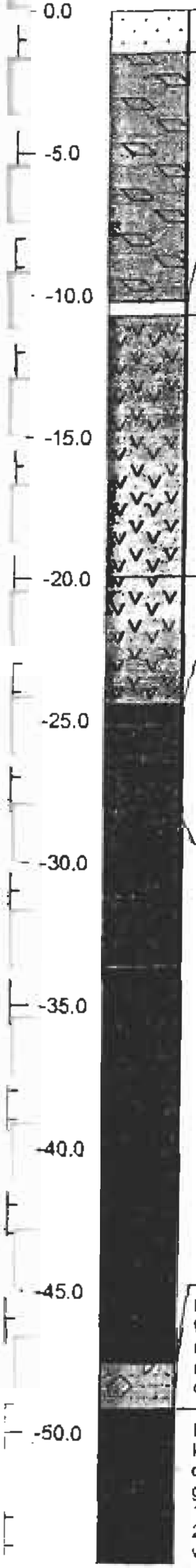
Total depth: 102.41 m
Dip angle: -45
Azimuth: 270
Start date: 07/07/04
Completion date: 07/08/04

# Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/2

Depth (m) | Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays: Au ppb, Ag ppm, Cu ppm



OVERBURDEN

FELDSPAR PORPHYRY: Grey-cream, fg, feldspar porphyry diorite dike, tr py replacing epidote and chlorite spots along thin fractures, weakly FeOx. Tr cp contact broken, possible CA=30 degrees.

White-pale cream, coarse grained calcite vein, minor wallrock frags/breccia, trace pyrite, cp

BASALT: Black-grey, fg uniform texture basalt flows, local minor quartz phyric zones, @11.3m 2cm polyphase, vuggy qtz vein with fg py, tr cp CA 30 degrees and wk qtz-py strgs 1-3mm to 13.0m;@17.3 2cm gypsum?-ca py vein bx CA 30 degrees:@18.2m 1-5mm qtz-py vn CA 10 degrees.

BASALT: Black- grey fg qtz phyric, weak basalt breccia;py disseminated in matrix. Weakly fractured, minor veins 1-2mm contain py;

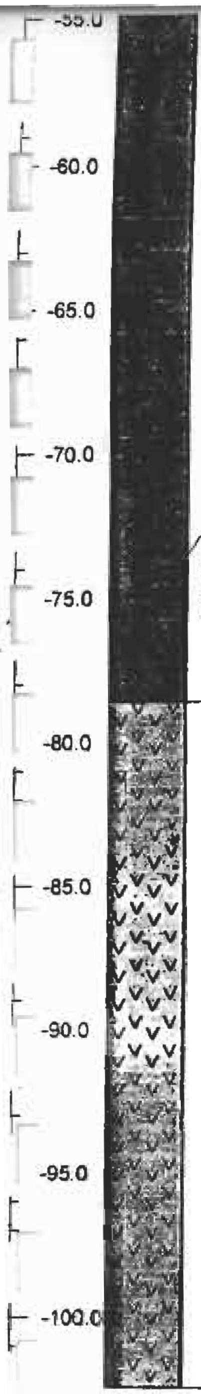
BASALT (FLOW BRECCIA): Black- grey-pale green, fg qtz phyric, heterolithic basalt breccia with zones of mottled, ductile green ep-diopside-chl-qtz-gyp/zeol?-py rich matrix. Mod fractured, veins 1-5 mm contain qtz-chl-gyp/zeol?+1-5% py;@24.4-24.6 qtz-ep/diop chl-pybx, 25.1-25.7 re-bx qtz vn bx in chl-ep/diop-matrix- vfg py CA 10 degrees; 27.7-28.4 as previous less qtz

BASALT (FLOW BRECCIA): Black- grey fg locally minor qtz phyric, basalt/weak breccia;py disseminated in matrix. Weakly fractured, minor gyps/zeol veins 1-2mm contain py;

HORNBLENDE PORPHYRY: Grey-pale green, fg, hbl porphyritic diorite; weak pervasive epidote matrix, CA =10 degrees/broken; @47.8 20cm massive ep vn with moderate cp clots CA 20 degrees.

BASALT (FLOW BRECCIA): Black- grey fg locally minor qtz phyric. basalt/weak breccia;py disseminated in matrix. Weakly fractured, minor gyps/zeol veins 1-2mm contain py; @59.7-61m 10cm vuggy qtz-gyp/zeol vn bx with py, cp, CA 25 degrees;@ 63.4m 3cm qtz-ep-py-cp "clast" very irregular contacts

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165021 | 2 |  | 18 |
| 165022 | 6 |  | 17 |
| 165023 | 11 | 1.0 | 60 |
| 165024 | 27 | 0.7 | 228 |
| 165025 | 702 | 1.4 | 1415 |
| 165026 | 95 | 0.8 | 416 |
| 165027 | 108 | 1.0 | 891 |
| 165028 | 104 | 0.9 | 540 |
| 165029 | 138 | 0.7 | 519 |
| 165030 | 94 | 0.3 | 266 |
| 165031 | 19 | 0.5 | 235 |
| 165032 | 17 | 0.3 | 78 |



**BASALT (FLOW BRECCIA)**: Black- grey fg locally minor qtz phyric, basalt/weak breccia;py disseminated in matrix. Moderately broken core, weakly fractured, minor gyps/zeol veins 1-2mm contain py; 73.5-74.0m pale green ep-diop matrix+/- calc-sil py vns2-3mm; @ 78m pale brown garnet with ep.

BASALT: Black- grey fg locally minor qtz phyric, basalt/weak breccia;py disseminated in matrix. Weakly fractured, minor gyps/zeol veins 1-2mm contain py; @59.7-61m 10cm vuggy qtz-gyp/zeol vn bx with py, cp, CA 25 degrees;@ 63.4 3cm qtz-ep-py-cp "clast" very irregular contacts

| | | | |
|---|---|---|---|
| 165033 | 69 | | 218 |
| 165034 | 34 | 0.3 | 640 |
| 165035 | 257 | 1.5 | 468 |
| 165036 | 17 | 0.3 | 248 |
| 165037 | 96 | 1.0 | 523 |
| 165038 | 32 | | 348 |
| 165039 | 17 | | 325 |
| 165040 | 15 | | 96 |
| 165041 | 15 | | 202 |

Property: Yew
Location: Texada island, BC
Drillhole #: Y04-04
Drilled by: Neills Mining Ltd.
Logged by: G. Thomson

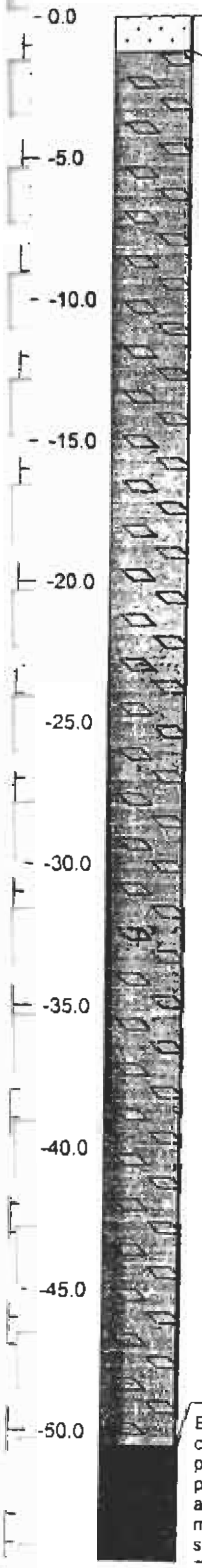
Total depth: 152.4 m
Dip Angle: -90
Azimuth: 0
Start date: 07/08/04
Completion date: 07/10/04

**Rio Minerals Limited**

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/3

Depth (m) | Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays



OVERBURDEN

FELDSPAR PORPHYRY: dark gray,crowded equigranular subhedral plag phenos, 2-4mm, perv wk epidote alt'n of plag phenos, hard, competent w. wk fracturing, ~ 10% pervasive hairline to sporadic 1 cm mixed epidote-chlorite +/- zeol. fracture fills w. variable width pale pink potassic alteration halos w. trc assoc. diss py, trc-3% hairline to 2 mm zeolite vnlts/fract. fills , pervasive weak-mod. magnetic.

1.25-~ 8.0m: mod-strongly brkn

22.0- 25.7m: moderately broken w. mod. increase in zeol. fract fills

~ 22.5-23.2m: mottled brkn, basalt inclusion, wk-mod magnetic, 5-10% f.g py

~ 45.4-48.5 m: strongly brkn w. 5-10% chalky zeolite fract. fills

sharp irreg. lower contact @ 50.5 m

BASALT (FLOW BRECCIA): med-dk green, competent, wk-mod fract'd, fine grained, pervasive fine chlor-diops-plag groundmass, pervasive 5-10% irreg patchy subrounded to local angular, dark green plag phync chloritic to dark magnetite segregations, 1- 3cm, pervasive mod-strongly magnetic,

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165042 | 14 | | 64 |
| 165043 | 17 | | 28 |
| 165069 | 3 | 0.3 | 16 |
| 165044 | 9 | | 21 |
| 165045 | 86 | | 36 |
| 165196 | 3 | | 11 |
| 165046 | 2264 | | 198 |
| 165197 | 80 | | 52 |
| 165047 | 12 | | 7 |
| 165048 | 22 | | 31 |

1-4 mm w. trc assoc. f.g py-po , trc zeol. fract. fills

pervasive trc- 1% diss f.g py/fract fills, local 1-2 cm py clots/fract. fills

-60.0

BASALT (FLOW BRECCIA): continuation of above with increased distinct dk magnetite segregations/flow breccia texture, approx equally mixed irreg f.g. magnetite segregations w. intervening pale green f.g plag-chlor-augite groundmass, mod-strong pervasive magnetic, magnetite segregations typically have fine-med gr. crowded subhedral plag lath porph texture, trc fine zeolite fracture fills

-65.0

trc-2% pervasive diss/fracture fills py-po, very minor sporadic f.g. cpy mostly po associated in qtz phyric sections from ~ 86.0 -129.9m

-70.0

-75.0

@68.3m - 5 cm open cavity w. fine crystalline zeolite + pyrite

-80.0

70.3-70.8:
mod perv. epid-silica alteration w. 3-5% f.g diss py

74.75-77.2
wk-mod perv epidote alteration w. 1-2 % sporadic clots/fract. fills py + po

-85.0

78.9-80.1
10-15% qtz phyric, 2-4 mm, mottled grayish green w. minor sporadic epidote-chlor clots w. assoc clots py-po with trc cpy, sulphides mainly as inclusions in qtz phenos

-90.0

80.1-90.9
< 5% qtz phyric texture, perv. trc-0.5 % py-po, localized minor patches chlor-epidote w. assoc coarse py-po, trc cpy

-95.0

90.9-97.5
weakly developed magnetite segregation texture, trc f.g diss py-po, minor py-po fract. fills

-100.0

97.5-129.9

strongly developed patchy magnetite segregation texture, subrounded to angular, 2-5 cm, med green mottled diops-chlor-plag f.g. groundmass, pervasive sporadic zones qtz-phyric texture (5-10%), pervasive sporadic epidote-chlor clots w.assoc py-po +/- trc cpy, cpy mainly assoc. w. f.g po (py) in qtz phenos
~114.0-115.83
mod. brkn w. increased zeolite fract. fills

-105.0

-110.0

@ 122.55: 1-2 cm skarn band w. mixed brown garnet-calcite-magnetite and numerous cpy blebs

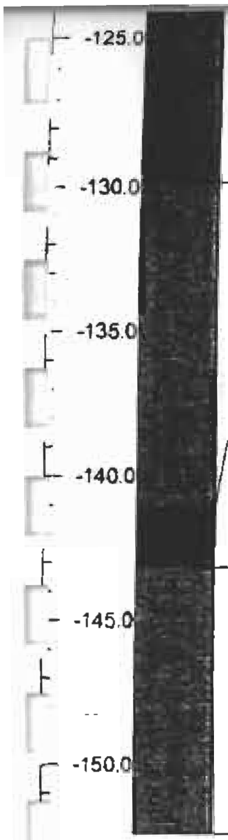
-115.0

~ 124.7-129.9
qtz phyric texture becomes coarser, less distinct w. epidote inclusions, local coarse clots py-po, 0.5-3.0 cm

Sharp lower contact at 40 deg. to core axis @ 129.9m

-120.0

| | | | |
|---|---|---|---|
| 165050 | 58 | | 136 |
| 165051 | 13 | | 194 |
| 165052 | 17 | | 206 |
| 165053 | 26 | | 317 |
| 165054 | 21 | | 71 |
| 165055 | 23 | | 191 |
| 165056 | 24 | | 213 |
| 165057 | 35 | | 280 |
| 165058 | 35 | 0.3 | 200 |
| 165072 | 18 | 0.4 | 168 |
| 165059 | 28 | 0.4 | 239 |
| 165060 | 78 | | 350 |
| 165061 | 246 | 0.4 | 691 |
| 165062 | 38 | 0.5 | 406 |
| 165063 | 167 | 0.7 | 366 |
| 165064 | 123 | 0.3 | 321 |



FELDSPAR PORPHYRY: light-med gray, crowded, equigranular, subhedral-euhedral plag phenos, 2-3 mm, wk perv. epidote alteration of plag phenos, 10-15% f.g. augite through groundmass, non magnetic to ~ 140.0 m, wk-mod. magnetic @140.0-141.05

BASALT (FLOW BRECCIA): qtz phyric mottled basalt, brkn upper contact, broken lower contact with sharp contact along core axis from 142.95-143.2m, 17 cm feldspar porphyry inclusion @ 142.2 m, ~ 0.5 % diss/clots py, strongly magnetic

FELDSPAR PORPHYRY: felspar porphyry, as above , contains zone of mixed fpd (feldspar porphyry diorite) with mottled flow breccia basalt @ ~ 144.0-144.8m, contains strong irreg. skarn patch @ 144.4-144.55 w. mixed epidote-carbonate-magnetite w.locally coarse py clots, mod magnetic to 143.2-146.3

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 165065 | 66 | 0.4 | 388 | |
| | | | | | | |
| | | 165066 | 20 | 0.9 | 238 | |
| | | | | | | |
| | | 165070 | 6 | 0.4 | 130 | |
| | | 165067 | 58 | 0.3 | 281 | |
| | | | | | | |
| | | 165068 | 307 | 1.1 | 530 | |
| | | 165071 | 5 | | 90 | |
| | | | | | | |

Property: Yew
Location: Texada Island, BC
Drillhole #: Y04-05
Drilled by: Neill's Mining Ltd.
Logged by: G. Thomson

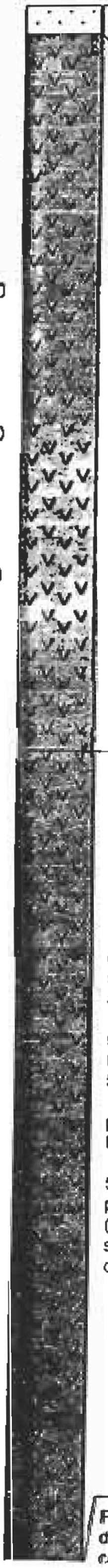
Total depth: 105.77 m
Dip Angle: -90
Azimuth: 0
Start date: 07/11/04
Completion date: 07/12/04

# Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

Ip/2

Depth (m) | Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays: Au ppb, Ag ppm, Cu ppm



OVERBURDEN

BASALT: dark to med. greenish gray, intermixed dark magnetite rich zones/bands w. interstitial fine grained pale to med green diopside-chlorite-plagioclase groundmass, pervasive strongly magnetic, 1-2% pervasive, sporadic fine epidote/zeolite fracture fills(locally to 1.0 cm), mod brkn from 1-~ 16.0 m (5-20 cm pieces), minor localized distinct magnetite segregation clasts (round-subangular, 0.5-3.0 cm), pervasive trace 0.5% diss f.g py, locally as fracture fills, v. minor trc. f.g cpy, minor (<5%), scattered wht rounded qtz phenos, 2-4 mm

1.74-7.0 m
quartz phyric texture with irreg. roundish qtz phenos, 3-10 mm, approx 10-15% through section

BASALT: continuation of above:

weakly developed dark magnetite segregations (~10% vol) w. pale green fine grained diopside-chlor-plag. groundmass, pervasive moderate to strongly magnetic, generally hard competent with local zones of increased fracturing w. local concentrations of zeolite fracture fills, trc fine epidote +/- zeolite fracture fills, weakly developed scattered quartz phenos, minor sporadic epidote alteration patches often w. associated pyrite and minor trc cpy

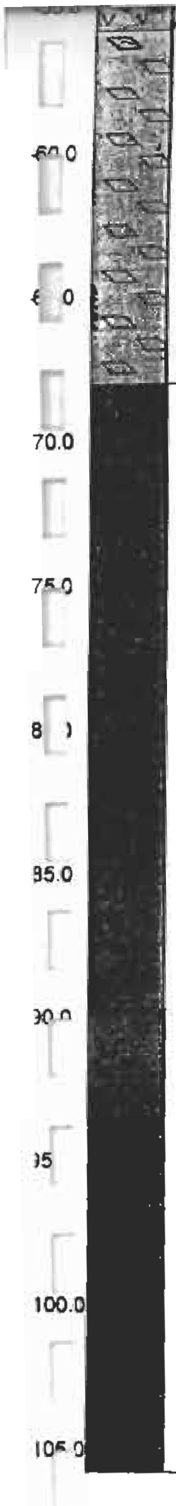
strongly fractured basalt w. 2-5% zeolite fracture fills @ 39.6-41.5, 45.72-46.25, 52.25-53.04, 55.0-56.1

pervasive trc-0.5% diss py, minor local py fracture fills/patches

55.3-55.8
pervasive weak to moderate epidote alteration (contact alteration) w. increased zeolite veining, strongly brkn, broken contact w. felspar porphyry diorite at 55.8-56.0m @ 10 deg. to core axis

FELDSPAR PORPHYRY: feldspar porphyry diorite:
competent, weakly fract'd, pale yellowish gray

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165073 | 188 | 0.3 | 857 |
| 165074 | 19 | | 116 |
| 165075 | 28 | | 333 |
| 165076 | 27 | | 157 |
| 165077 | 13 | | 199 |
| 165078 | 17 | | 303 |
| 165079 | 18 | | 257 |
| 165080 | 20 | | 216 |



green, [illegible], equigranular porphyritic texture, med. grain, subhedral plag phenos w. wk perv. epidote alteration, medium gray fine groundmass, ~ 20% fine grained pyroxene phenos, 0.5-1.0 mm, non magnetic except as noted, trc hairline epidote/zeolite fract. fills,

sharp upper contact at 10 deg. to core axis

56 0-57.5
very broken w. dark gray matrix, some shear surfaces, 3-5% wht zeolite +/- epidote fract fills, 3-5 mm, wk-mod. magnetic

66.0-68.0
dark gray matrix, wk-mod. magnetic

sharp lower contact @ 10 deg. to core axis

BASALT (FLOW BRECCIA): mottled, equally mixed irreg 20-30% drk f.g. magnetite segregations w. pale-med green fine grained diopside-chlor-plag groundmass, trc. pervasive f.g dissem. py, perv. mod-strongly magnetic

73.35-76.4
gray,m siliceous w. mod perv. epidote, trc-0.5% diss. f.g py w. local increased py fract. fills, bands/clots, 2 cm msv py band @ 74.7 m @ 30 deg. to c.a.

79.75: 5-10 cm open cavity w. 50 % wht med. gr.crystalline zeolite + 50% med. gr. pyrite selvages

90.3: 10 cm open cavity w. fine-coarse wht/clear crystalline zeolite w. coarse pyrite selvages

| | | | | | |
|---|---|---|---|---|---|
| | | 165081 | 17 | | 150 |
| | | 165082 | 2 | | 87 |
| | | | | | |
| | | 165083 | 9 | | 106 |
| | | 165084 | 44 | 0.5 | 332 |
| | | 165085 | 50 | 0.4 | 247 |
| | | | | | |
| | | 165086 | 233 | 0.3 | 707 |
| | | | | | |
| | | 165087 | 156 | | 30 |
| | | | | | |
| | | 165088 | 12 | | 203 |
| | | | | | |
| | | 165089 | 19 | | 113 |

Property: Yew
cation: Texada island, BC
rillhole #: Y04-06
Drilled by: Neill's Mining Ltd.
gged by: G. Thomson

Total depth: 141.43 m
Dip Angle: -60
Azimuth: 270
Start date: 07/15/04
Completion date: 07/15/04

**Rio Minerals Limited**

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/3

ithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays: Au ppb, Ag ppm, Cu ppm

OVERBURDEN

BASALT: fine grained massive basalt, dark greenish gray, plag phyric/amygdaloidal w. partial epidote replacements, round-subangular, 2-5 mm, perv. local patchy epidote alt'n/fracture fills, wk - mod magnetic, wk-mod. brkn, perv. 0.5-1% f. g. diss/fract. fill pyrite

@ 5.67m: 10 cm band msv. coarse grain py w. mod. epid. alt'n @ 5.4-5.67 m

FELDSPAR PORPHYRY: mottled, med. grained crowded pale green equigranular plag. phenos, pale green siliceous-chlor groundmass w. dark (magnetite?) streaks, ~ 2-5% hornblende laths, 2-3 mm, strong pervasive epidote replacement spots, 2-5 mm (5-10%), perv. sporadic epidote + chlorite fract. fills w. wht felspathic alteration halos, locally w. pale pink K-spar, trc-0.5% diss py mainly associated w. epid-diop fracture alteration

BASALT: msv fine grained dark gray basalt, wk-mod. magnetic, wht zeolite amygdules, 2-5 mm to 1-2 cm roundish ireg. patches, 15-25% amygdules epidote replaced @ 25.3-26.0 m, < 5% amygdules 27.85- ~33.2 m, 1-2 % perv. epidote +/- zeolite fract. fills, hairline-3 mm, local epidote patches/bands, trc f.g. diss py

BASALT (FLOW BRECCIA): same as for 24.7-51.0 m

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165108 | 27 | | 167 |
| 165109 | 47 | | 126 |
| 165110 | 7 | | 21 |
| 165111 | 68 | | 88 |
| 165112 | 2 | | 6 |
| 165113 | 10 | | 43 |
| 165114 | 39 | | 250 |
| 165115 | 20 | | 194 |

70.0

100.0

HORNBLENDE PORPHYRY: med gray, w. 15% hb laths, 1-10mm, 5% epid. patches, 2-5% diss py, indistinct contacts ~ 70 deg. to c.a.

BASALT (FLOW BRECCIA): gradational from ~50%dark magnetite rich segregations - plag phyric round-angular patches/bands w. f.g med green plag-chlor (epid) diopside groundmass, trc. sporadic zeolite/gypsum fract. fills, mod-strongly magnetic, trc diss/fract. fill pyrite +/- cpy

75.34-75.54: strongly broken-fractured

@53.8: 10 cm drk green clay gouge, within strong fractures @ 53.34-53.8

strongly broken and fractured @ ~74.3-75.54, increased pyrite +/- magnetite, w.local massive-semimassive py concentrations, mineralization locally occurs in repetitive bands within chlor-diops-silicifiedbgroundmass @ 20-30 deg. to c.axis or as sporadic fract. fills,

67.67-67.77
med gray, fine grained limestone band, bedding @ 30 deg. to c.a

HORNBLENDE PORPHYRY: pale-med gray, 10-20%, 2-5% euhedral hb laths, 2-5 mm, trc f.g cpy in hairline fracts near contacts, contacts vague/gradational

BASALT (FLOW BRECCIA):

88.05-88.15
f.g limestone band, pale yellow, bedding @ 30 deg. to c.a

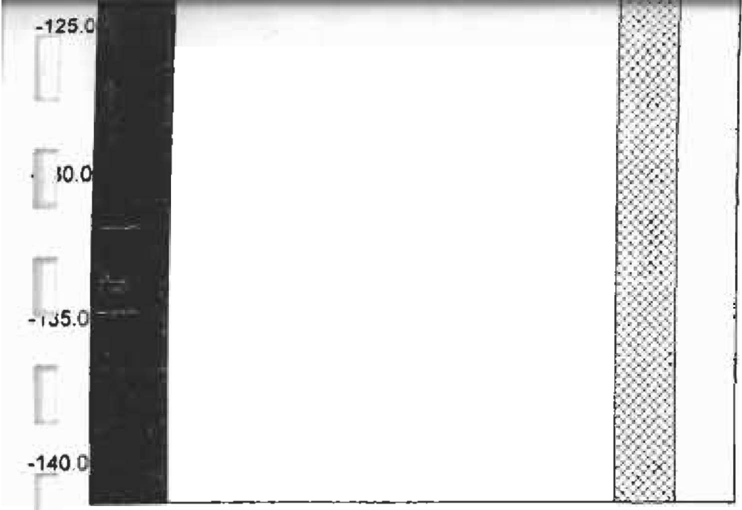
95.8-95.9
f.g.gray limestone band, 2 x 4 cm patch f.g. diss cpy

HORNBLENDE PORPHYRY: dark gray-pale greenish gray, ~ 20% euhedral dk hornblende phenos, 0.5-3mm, locally to 1.0 cm, f.g plag phenos through groundmass, 0.5-2mm, perv. patchy epidote w. minor local epid. fract. fills, mod-strongly magnetic, minor angular magnetite clots, trc-0.5% diss py, sharp contacts @ 70 deg to c.axis

BASALT (FLOW BRECCIA):

dark, strongly magnetic, mod brkn @ ~ 124-131 m

| | | | | | |
|---|---|---|---|---|---|
| | | 165116 | 10 | | 203 |
| | | 165117 | 52 | 0.4 | 289 |
| | | 165118 | 102 | | 122 |
| | | 165119 | 28 | | 288 |
| | | 165120 | 36 | 0.3 | 321 |
| | sporadic msv-semimsv py @ 74.54-75.44 | 165121 | 582 | | 318 |
| | | 165122 | 62 | | 306 |
| | | 165142 | 73 | 0.3 | 520 |
| | | 165140 | 8 | | 36 |
| | | 165123 | 43 | | 231 |
| | | 165124 | 6 | | 203 |
| | | 165125 | 29 | | 292 |
| | | 165141 | 15 | | 49 |
| | | 165126 | 32 | | 234 |
| | | 165127 | 68 | | 264 |
| | | 165128 | 16 | | 149 |
| | | 165129 | 30 | | 336 |



| | | | | | |
|---|---|---|---|---|---|
| | | | | | |
| | | 165130 | 33 | | 275 |
| | | | | | |
| | | 165132 | 10 | | 52 |
| | 10-15% py in fracts @ 139.14-139.84 | 165131 | 38 | | 82 |

roperty: Yew
cation: Texada Island, BC
rillhole #: Y04-07
rilled by: Neill's Mining Ltd.
gged by: G. Thomson

Total depth: 60.35 m
Dip Angle: -90
Azimuth: 0
Start date: 07/14/04
Completion date: 07/15/04

## Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/2

ithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays: Au ppb, Ag ppm, Cu ppm

OVERBURDEN

BASALT: dark gray, 10-15% qtz/plag amygdaloidal, wk-mod magnetic, 2-10 mm, round to crystalline (plag),locally 30% perv. 2-3% epidote +/- chlor clots/ fine fracture fills w. minor assoc f.g. py., qtz phenos/amygdules locally chlor. replaced, ~ 1.0-2.0 % f.g diss py,

6.2-6.6 m
increased pervasive epidote-diopside alteration patches and fracture fills, w. 10-15% med. grained py+/- mag. fracture fills

LOST CORE: core lost through intersection with underground workings

MAGNETITE: mixed finely ground fine grained mixed magnetite + pyrite, remnants of previous underground mining, lower 6 cms contains massive coarse pyrite and massive f.g magnetite

BASALT: dark gray, quartz phyric basalt (as previous to sulphide layer), trc. to 0.5 % pyrite,

BASALT (FLOW BRECCIA): gradational from above, distinct irreg to roundish to angular f.g plag phyric magnetite segregation patches, pale green groundmass (chlor-plag-diopside), mod. brkn @ 23.9-24.5, 26.3-26.82, 29.9-32.5, perv. trc diss. f.g pyrite +/- cpy

25.2-25.43
semi-msv. coarse py in open cavities w. very f.g gray zeeolite crystal needle linings

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165090 | 6 | | 212 |
| 165091 | 13 | 0.4 | 170 |
| 165092 | 116 | | 312 |
| 165093 | 101 | 0.6 | 730 |
| 165094 | 71 | 0.3 | 433 |
| 165095 | 62 | | 41 |
| 165096 | 249 | | 91 |
| 165097 | 25 | | 150 |
| 165098 | 13 | | 122 |
| 165099 | 37 | | 344 |
| 165100 | 58 | 0.5 | 661 |
| 165101 | 35 | | 197 |
| 165102 | 87 | | 315 |
| 165103 | 9 | | 165 |
| 165104 | 39 | | 268 |
| 165105 | 40 | 0.3 | 286 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 165106 | 40 | 0.3 | 280 | |
| | | 165107 | 40 | | 252 | |

Property: Yew
cation: Texada Island, BC
illhole #: Y04-08
Drilled by: Neill's Mining Ltd.
gged by: G. Thomson

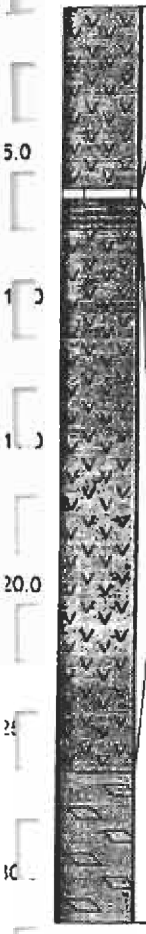
Total depth: 31.7 m
Dip Angle: -90
Azimuth: 0
Start date: 07/15/04
Completion date: 07/15/04

# Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/1

Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays: Au ppb, Ag ppm, Cu ppm



**BASALT**: fine grained, dark gray, 10-15% zeol amyg's, 2-4 mm, 1-2% perv. epid +/- chlor fract. fills/clots w. 1-2 % diss py,
1-2% diss/fract. fill pyrite overall, mod. brkn w. perv. limonite fract. coatings to ~ 4.8 m

**LIMESTONE**: pale yellowish gray, f.g. limestone, mod. epid alt'n @ 6.53-6.63, lower contact @ 70 deg. to core axis

**SKARN**: uintermixed patchy semimsv f.g-m.g magnetite-pyrite, ~ 20% intermixed pale green diopside, wht replacement qtz, sporadic coarse grain pale brown garnet, garnet msv @ ~ 7.06-7.4m, trc. cpy, several specs
visible gold

**SKARN**: massive fine grained magnetite w. ~ 10% garnet +/- diops. patches

**BASALT**: fine grained, dark gray, weakly fract'd, mod. magnetic, ~ 1-2% epid. fract. fills, 0.5-1% diss/fract. fill py, 10-15% zeol. amydules, 2-5 mm w. partial chlorite replacements. lower contact with feldspar porphyry @ 45 deg. to core axis

**FELOSPAR PORPHYRY**: light gray, mottled, siliceous, 2-5% epid. fract. fills (hairline-5mm)w. chlor cores, +/- py , fract's have variable width pale gray alteration halos, indistinct plag. phenos w. dk greenish gray (qtz-chlor) groundmass, perv. trc-1% diss. pyrite, locally to 2%, non-magnetic

~27.5-28.7
strongly brkn, wht bleached w. perv. fine chlor-epid fract fills and chlor-epid alt'd plag. phenos, 1-2% diss py

| Mineralization | Descriptions | Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|---|---|
| | | | | | |
| | | 165133 | 49 | | 286 |
| | | 165134 | 2 | | 28 |
| | | 165135 | 314 | | 775 |
| | | 165136 | 2304 | 1.0 | 2496 |
| | | 165137 | 4823 | 0.6 | 758 |
| | | 165148 | 20 | | 99 |
| | | 165149 | 15 | | 80 |
| | | 165143 | 38 | | 229 |
| | | 165144 | 35 | 0.4 | 240 |
| | | 165145 | 67 | 0.3 | 190 |
| | | 165146 | 23 | | 21 |
| | | 165138 | 43 | | 31 |
| | | 165139 | 101 | | 10 |
| | | | | | |

Property: Yew
Location: Texada Island, BC
Drillhole #: Y04-09
Drilled by: Neill's Mining Ltd.
Logged by: G. Thomson

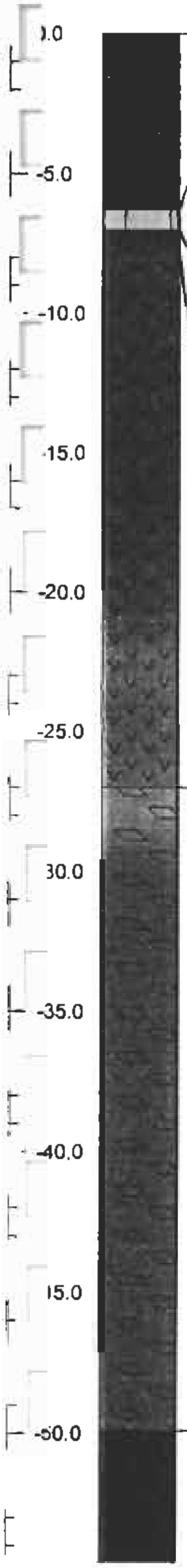
Total depth: 169.2 m
Dip angle: -90
Azimuth: 0
Start date: 07/16/04
Completion date: 07/19/04

**Rio Minerals Limited**

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/3

(m) Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays: Au ppb, Ag ppm, Cu ppm



BASALT: med-dk gray, fine grained, mod. magnetic, perv. 1-3% as fracture fills/wk patches, 2-3% zeol. amygdules 2-4 mm w. partial epid. replacements, mod brkn, perv. clots/patches fine grained pyrite, broken contact w. underlying marble, increased epidote alt'n @ 6.17-6.27

LIMESTONE: pale gray, fine grained, contains interbedded msv mixed pyrite-magnetite @ 6.6-6.8

SKARN: replacement skarn- primarily massive fine grained magnetite w. ~ 20% patchy pale brown msv garnet +pale green diopside

BASALT: med. greenish gray, fine grained w. perv. hairline epidote+/- chlor fract. fills, mod. magnetic, wk-mod. brkn, 2-3% f.g pyrite

13.5-16.25
10-20% roundish plag/zeol. amygdules, 2-10 mm w. localized py/epid replacements

FELDSPAR PORPHYRY: mottled, med-dk gray siliceous-chlor f.g groundmass, crowded, medium grained equigranular plag. phenos, pervasive epidote +/- chlor +/- py fract. fills, hairline -3mm w.pale gray (qtz) to pale pink (K-spar) alteration halos, trc. diss f.gr -med gr py, locally as fract fills, weakly magnetic @ 47.24-49.9

27.0-29.26
strongly brkn, w. bleached pale gray-wht, 2-3% f.g chlor. alt'd f.g (1-3 mm) alt'd mafic phenos, 1-2% epid replaced plag phenos/fracture fill epid, 2-3% diss/fract fill py.

BASALT (FLOW BRECCIA): ~ equally mixed irreg f.g. dark plag phync magnetite segregation pathes, 2-5 cm w. pale green f.g. diopside-chlor-plag groundmass, wk- locally brkn/fract'd, trc diss py w. minor sporadic 1-2 cm py clots

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165151 | 31 | | 115 |
| 165152 | 29 | 0.4 | 185 |
| 165153 | 35 | | 233 |
| 165154 | 257 | 0.5 | 286 |
| 165155 | 512 | 0.3 | 1433 |
| 165156 | 279 | 0.9 | 1243 |
| 165157 | 15 | | 32 |
| 165158 | 26 | 0.4 | 58 |
| 165159 | 24 | | 18 |
| 165160 | 111 | | 67 |
| 165161 | 26 | | 24 |
| 165162 | 8 | | 48 |

-60.0
-65.0
-70.0
-75.0
-80.0
85.0
-90.0
95.0
100.0
-105.0
110.0
115.0
-120.0

FELDSPAR PORPHYRY: med green intermediate plag porphyry, fine gr. crowded plag phenos 1-2 mm, mod. magnetic, dissem. f.g-m.g pyrite, 1-3 mm blebs (10%) @ 75.25-75.5, sharp contacts (u.cont @ 60 deg, l. cont @ 40 deg.)

BASALT (FLOW BRECCIA): basalt flow breccia, as above, minor sporadic zeolite vnlts to 0.5 cm

103.62-104.94
patchy irreg alteration w. partial horblende porphyry inclusions

~ 91.0-93.35
mod-strongly brkn

HORNBLENDE PORPHYRY: medium grained, gray green, perv. wk-mod epidote, ~15% anhedral hornblede phenos, 2-4 mm, chlotized w. py replacements, 5-8% diss pyrite, non magnetic, sharp irreg. contacts

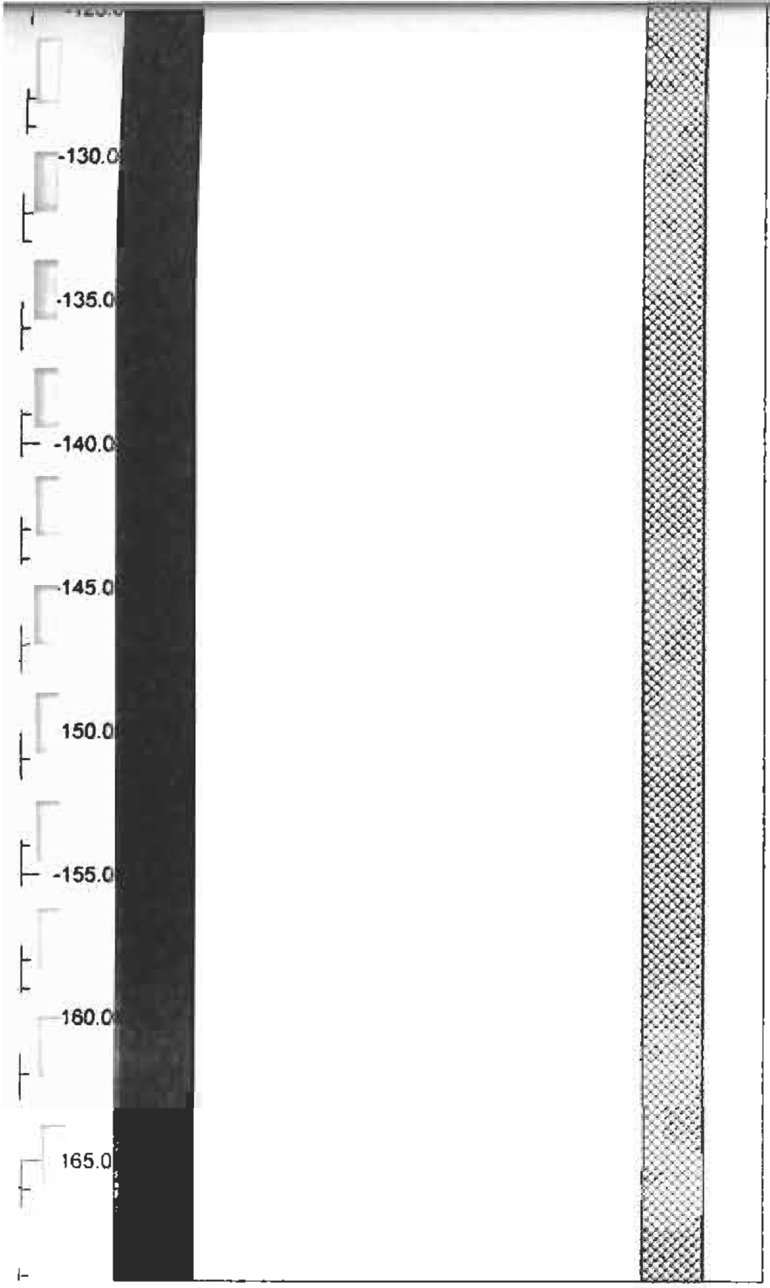
BASALT (FLOW BRECCIA): basalt flow breccia, as above

~ 114.0-167.17
marked increase in wht qtz phyric/amygdule texture, qtz occurs as interstitial irregular roundish clots/small patches/ isolated bodies, 1-2 cm, often w. assoc. f.g. py. clots +/- epid +/- f.g. trc. py + minor trc. cpy, qtz comprises ~ 10-20% of rock volume

117.4-117.7
~ 20% pyrite bands, subparallel to c. axis

149.86-150.07
vuggy zeolite veining w. fine zeol. vug linings w. f.g-m.g, 20-30% assoc. py

| | | | |
|---|---|---|---|
| 165163 | 20 | | 316 |
| 165164 | 36 | 0.3 | 286 |
| 165165 | 17 | 0.5 | 202 |
| 165166 | 6 | | 16 |
| 165176 | 28 | | 324 |
| 165183 | 20 | 0.3 | 214 |
| 165167 | 91 | | 327 |
| 165168 | 98 | | 328 |



| | | | | | | |
|---|---|---|---|---|---|---|
| | | 165169 | 31 | 0.3 | 291 | |
| | | | | | | |
| | | 165170 | 53 | | 250 | |
| | | | | | | |
| | | 165171 | 31 | | 210 | |
| | | | | | | |
| | | 165172 | 52 | | 263 | |
| | | | | | | |
| | | 165173 | 31 | | 189 | |
| | | | | | | |
| | | 165174 | 54 | 0.4 | 280 | |
| | | 165175 | 27 | | 162 | |
| | | 165177 | 102 | 0.7 | 500 | |
| | | | | | | |
| | | 165178 | 33 | | 221 | |
| | | 165179 | 20 | | 167 | |
| | | 165180 | 45 | | 232 | |
| | | 165181 | 37 | | 286 | |
| | | 165182 | 71 | | 249 | |

Property: Yew
Location: Texada Island, BC
Drillhole #: Y04-10
Drilled by: Neill's Mining Ltd.
Logged by: G. Thomson

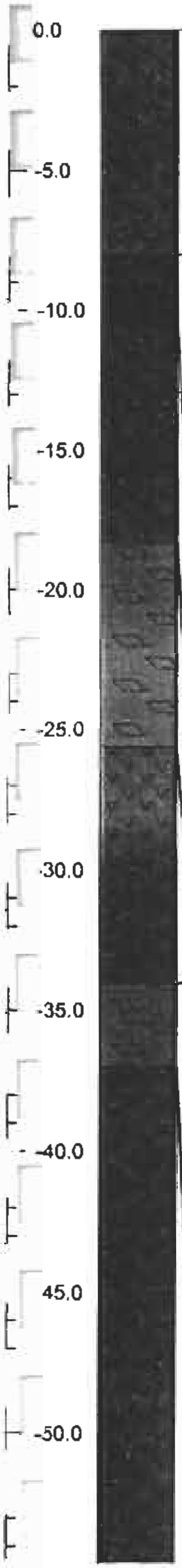
Total depth: 54.86 m
Dip Angle: -45
Azimuth: 210
Start date: 07/19/04
Completion date: 07/20/04

**Rio Minerals Limited**

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/1

Depth (m) | Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays: Au ppb, Ag ppm, Cu ppm



BASALT: fine gr, med-dk greenish gray, mod. fract'd, 5-10% wht zeol./plag amygdules, round-subangular/jagged, 2-4 mm, weakly magnetic, perv. 3-8% pyrite as 1-2 cm patches/fract. fills, minor sporadic epidote patches, often w. assoc py patches

~6.71-8.0
strongly brkn, w. increased epid. alt'n w. 5-10% py

SKARN: strongly brkn, mainly equally mixed patchy coarse gr. pale brown garnet w. dk f.g magnetite, ~10% pyrite patches/clots within garnet, 5-10% fine pale patchy pale green diopside

9.75-10.55
mod. brkn, mainly massive med-coarse gr, pyrite w. 10-20% mixed gray qtz? and magnetite through groundmass

lower contact @ 70 deg. to c. axis

BASALT: basalt, as above

strongly brkn @ 10.55-11.28

@13.7 m
strong vuggy epidote (5 cm)

14.3-18.0
10-20% perv. wht zeol. amygdules, irreg roundish, 0.5-2.0 cm

FELDSPAR PORPHYRY: dark gray mottled groundmass, crowded plag. phenos, 2-3 mm w. partial-complete epid. replacements, vague plag. phenos., pervasive sporadic epidote +/- chlor. fract. fills, 1-3 mm, weakly magnetic, mod. brkn, trc. diss py

BASALT: dark greenish gray, f. g., weakly magnetic, irreg. patchy zeolite amyg's w. partial-complete epid/chrlor/py replacements, 1-2 % diss py, sharp l. cont @ 60 deg.

FELDSPAR PORPHYRY: dk-med greenish gray, mottled w. vague foliated texture 40 deg. c.axis, vague indistinct, elongate plag phenos, 2-4 mm, locally epid +/- chlor. replaced, strong pervasive epidote+chlor core fract fills, fracture areas have irreg wht -pale pink (qtz, K-spar) alteration halos, 10-20% epid+chlor, sporadic wht qtz bands (5-10%) w.assoc. clots/fract. fills med-coarse gr. pyrite-generally associated w. epid-chlor fracture alteration, trc-0.5 %
pyrite overall, minor local py. fract. fills

@ ~ 35.2 m: 2-3 cm band of pale brown garnet w. ~30 % wht qtz selvages, minor assoc. py

BASALT: dark gray, fine grained, mod. magnetic, 1-2 % weak scattered zeol. amygdules, 1-4 mm, trc chlor-epid +/- zeol. fine fract. fills, trc. diss py, basalt flow breccia texturte @ 46.4-48.77m

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165184 | 36 | 0.3 | 123 |
| 165185 | 54 | 0.3 | 251 |
| 165186 | 68 | 0.4 | 259 |
| 165187 | 785 |  | 1377 |
| 165188 | 4679 | 5.0 | 7366 |
| 165189 | 616 | 1.4 | 2075 |
| 165190 | 83 |  | 375 |
| 165191 | 169 | 0.4 | 345 |
| 165195 | 80 |  | 258 |
| 165192 | 5 |  | 33 |
| 165193 | 30 |  | 118 |
| 165194 | 15 |  | 439 |

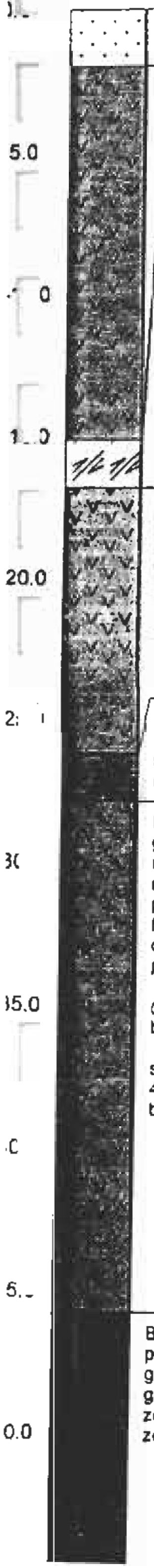
Property: Yew
cation: Texada Island, BC
Drillhole #: Y04-11
Drilled by: Neill's Mining Ltd.
gged by: G. Thomson

Total depth: 67.05 m
Dip Angle: -90
Azimuth: 0
Start date: 07/20/04
Completion date: 07/21/04

## Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3
1p/2

Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No.



OVERBURDEN

BASALT: f.g. med-dk greenish gray, amydaloida basalt, pervasive (10-20%) irreg. wht zeolite amydules, 1-7 mm, mod. magnetic, minor sporadic zeol. +/- epid. bands/patches +/- py clots, trc. epid/zeol hairline fract. fills, trc. dissem. py., 20-30% dk plag phyric magnetite segregation bands/patches

FAULT: 15.09-15.55: v. brkn basalt w. partial-complete epid. amyg. replacements, mod. magnetic, local clots 1-3 cm f.g py, mod fract. fill epid/chlor
15.55-16.6: very brkn basalt w. local py clots, mod-strong perv. +/- fract. fill epid., intense finely broken/gouge @ ~ 16.2-16.36 w. 2-4% f.g py, ~ 10 cm f.g brkn, alt'd plag. porph @ ~ 16.26-16.46m
16.6-16.78: 10-15 cms, msv. f.g ,py w. fine interbands of 10-15% f.g magnetite

BASALT: fine grained, amygdaloidal, med-dk greenish gray, fine plag phyric texture, wk-mod magnetic, 1-2% sporadic 1-2 mm py+/- magnetite fract fills, locally as irreg. patches, non-amydaloidal after 19.8 m, mod. brkn

~10 cm semimassive py @ ~ 19.8 m

SKARN: massive coarse gr. pyrite (no magnetite) , minor strongly epid.altered basalt inclusions , strong-intensely brkn chlor-epid. alt'd basalt (fault) @ 26.67-26.85m

BASALT: basalt, fine grained, med-dk greenish gray, wk-mod brkn, mod. magnetic, trc. wht 1-2 mm zeol fract fills, perv. f.g pyrite as dissem. 1-2 mm blebs (diopside associated)/local 1-2 cm patches/fract. fills, 3-7% py., pyrite pervasive from 26.17-~ 41.0 m, sporadic zeol +/- chlor +/- qtz patches @ 38.1-38.35, minor sporadic plag phyric magnetite segregation patches

@ ~ 42.67-42.8
broken strong veined zeolite band

strong zeol. amygdaloidal texture @ 42.67- ~ 45.72, marks gradat. transition from basalt to basalt flowbreccia, trc. - 0.5 % diss/fract. fill py.

BASALT (FLOW BRECCIA): mixed patchy dk plag phyric magnetite segregation patches w. fine grained pale green diops-chlor-plag, groundmass, mod-strongly magnetic, strong zeol. amygdule texture @ 51.82-53.4 , trc. fine zeol. fract fills, trc-0.5% diss/fract fill py

| | Assays | | |
|---|---|---|---|
| Sample No. | Au ppb | Ag ppm | Cu ppm |
| 165201 | 140 | | 304 |
| 165202 | 133 | 0.3 | 391 |
| 165203 | 1705 | 1.3 | 3211 |
| 165204 | 162 | 0.5 | 557 |
| 165205 | 9405 | 0.5 | 242 |
| 165206 | 450 | 0.4 | 285 |
| 165207 | 106 | | 145 |
| 165208 | 83 | 0.4 | 294 |
| 165209 | 43 | | 116 |
| 165210 | 338 | | 199 |
| 165211 | 136 | | 96 |
| 165212 | 439 | 0.6 | 1092 |
| 165213 | 104 | | 307 |
| 165214 | 91 | | 232 |
| 165215 | 805 | | 464 |
| 165216 | 75 | | 319 |
| 165217 | 28 | | 160 |
| 165234 | 64 | | 266 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 165218 | 13 | | 214 | |

Property: Yew
Location: Texada Island, BC
Drillhole #: Y04-12
Drilled by: Neill's Mining Ltd.
Logged by: G. Thomson

Total depth: 80.62 m
Dip angle: -47
Azimuth: 210
Start date: 07/21/04
Completion date:07/22/04

**Rio Minerals Limited**

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/2

Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays

OVERBURDEN: broken amydaloidal basalt rubble to ~ 3.5 m

BASALT: strongly altered basalt, mottled w. perv. qtz-chlor-epid alt,n med-yellowish green, vague med. gr. plag. porph texture, 3-6%, locally 10% perv. diss/clots f.g. py, trc cpy. py blebs often have fine magnetite rims/inclusions perv. sporadic pitted texture w. qtz/zeol. fillings, rock is generally wk-non-magnetic, but locally strong in darker gray areas w. increased py

BASALT:
8.63-12.5
dk gray f.g, mod. magnetic, 30-40% dark (diopside alt'd plag phyric) magnetite segregation patches, wk-mod alt'd amygdules, @9.85-10.95: mod-strongly brkn w. chloritic sheared surfaces, 1-2% scattered py. blebs, 1-3 mm

12.5-14.0: altered basalt w. strong patchy pitted epidote alt'n w. 8-15% assoc. diss/clots f.g py, trc cpy

14.0-20.5: med-dk greenish gray f.g. basalt w. 20-30% dk magnetite segregation patches (diopside alt'd-plag phyric), 2-5 % epid. patches/alt'd amyg's, 0.5-1.0 cm, assoc py, 2-3%, locally 5-10%

20.5-21.96
strongly brkn w.perv mod-strong patchy/pitted epid +/- zeol zones, 2-5% alt'n assoc. f.g py

SKARN: brkn, massive med grained pyrite w. ~ 20-30% intermixed msv. f.g magnetite + qtz

BASALT: brkn, f.g dk gray basalt

HORNBLENDE PORPHYRY: pale-med grayish green, mod-strongly brkn, 15-25% euhedral hornblende laths, 2 mm-1.0 cm

BASALT: mod. brkn, dark gray, f.g., wk amyg. texture, 2-3% fine epid+/- chlor fract. fills, sharp lower cont @60 deg. to c.axis

HORNBLENDE PORPHYRY: med grayish green, ~20% f.g (1mm) to 1.0 cm euhedral hornblende phenos/laths, sporadic patchy epid +/- chlor., sharp lower contact @60 deg. to c. axis

BASALT: f.g, med gray, wk-mod. magnetic, 1-2%, 1-2 mm epid fract fills, local epid+/- zeol. alt'n patches w. increased py, generally trc py throughout, locally 0.5-1%

@ 32.6m: 15 cms semimsv banded fine-coarse gr. py

39.2-39.4: 2 cm fract fills of mixed vuggy zeolite w. f.g py, locally strong intermixed/selvage cpy

BASALT (FLOW BRECCIA): trc. sporad. py fract. fills

HORNBLENDE PORPHYRY: med greenish gray, vague indistinct contacts, 1-2% f.g plag phenos, 1-2 mm, 10-20% euhedral hb laths, 2-10 mm, 1-2 % perv py clots, trc diss cpy (epid. assoc'd), perv. patchy/fract. fill epidote, vague-non porphyritic texture (chill margin) @ contacts @ 49.76-50.1, 51.25-51.57 w. 10% diss/fract. fill f.g py

| Sample No. | Assays | | |
|---|---|---|---|
| | Au ppb | Ag ppm | Cu ppm |
| 165219 | 562 | 1.1 | 1852 |
| 165220 | 410 | 0.8 | 1315 |
| 165221 | 1367 | 0.6 | 837 |
| 165222 | 79 | | 282 |
| 165223 | 84 | | 218 |
| 165224 | 168 | 0.4 | 610 |
| 165225 | 248 | 0.8 | 1260 |
| 165226 | 376 | 1.3 | 1889 |
| 165227 | 18563 | 2.6 | 2490 |
| 165228 | 200 | 0.3 | 430 |
| 165229 | 141 | 0.4 | 504 |
| 165230 | 141 | | 63 |
| 165231 | 1237 | 0.9 | 1069 |
| 165147 | 15 | | 66 |

.0

BASALT (FLOW BRECCIA): weakly brkn, mod-strongly magnetic, ~40% dk plag. phyric magnetite segregation patches/angular mag. frags, trc. sporadic pyrite dissemination/fract. fills

1-2% py fract. fills @ 62.48-65.15

.0

0

.0

0

0

| | | | | | |
|---|---|---|---|---|---|
| | | 165232 | 62 | | 210 |
| | | 165233 | 33 | 0.3 | 332 |

perty: Yew
ation: Texada Island, BC
rillhole #: Y04-13
rilled by: Neill's Mining Ltd.
Logged by: G. Thomson

Total depth: 76.2 m
Dip angle: -45
Azimuth: 70
Start date: 07/22/04
Completion date: 08/11/04

## Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/2

thology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays

OVERBURDEN

BASALT: fine grained, light - med green, perv. wk-mod wht amygdules, 10-15%, 2-4 mm, wk perv. epidote patches,
1-2 % isolated clots, dissem's, fract. fills, trc. hairline-2 mm zeol. fract. fills, mod. brkn, non-magnetic w. minor localized plag-phyric magnetite segregation patches

SKARN: f.g, pale green, mottled limestone, perv. wk epid. alt'n @ 8.27-8.9. 5-10% diss. f.g py, sporad. wht zeol. fract. fills, 3-5%

BASALT: f.g, pale-med. greenish gray, non-wkly magnetic, 15-20%, 1-2 mm wht zeol. amyg's @ 13.7-15.7 m, moderate - locally strongly brkn, sporadic 1-2 mm zeol /- epid. fract. fills, ~ 10-15% plag phyric magnetite segregation patches, perv. trc., locally 1-2% pyrite as dissem/fract. fills, minor carb/zeol +/- epid. +/- py patches, pyrite and epidote generally trc after ~ 26.0 m

18.43-18.55
6-7 cm gray qtz band w. 10-20% diss f.g-m.g py followed by 6 cm msv. coarse grain pyrite, vein and contact @40-60 deg to core axis

23.96-24.06
two 3 cm limestone bands @ 40 deg. to core axis

BASALT: continuation from above, w localized moderate increase in plag phyric magnetite segregation patches, trc dissem py

@45.32
2 cm open-space w. wht med-coarse zeolite, strong pyrite-magnetite selvages

lower contact @ 40 deg. to core axis

FELDSPAR PORPHYRY: med-dk gray groundmass, crowded equigranular, sub-euhedral plag phenos, wkly brkn, wk. perv. epid. alt'n of plag phenos,

dk, non-epid alt'n, wkly magnetic @ 48.5-49.9, 53.15-53.88

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165235 | 64 | | 274 |
| 165236 | 72 | 0.50 | 285 |
| 165237 | 82 | 0.30 | 199 |
| 165238 | 97 | 0.40 | 130 |
| 165239 | 98 | 0.40 | 177 |
| 165240 | 44 | | 313 |
| 165241 | 24 | | 223 |
| 165242 | 65 | | 258 |
| 165243 | 161 | | 222 |
| 165198 | 198 | | 56 |
| 165199 | 77 | | 480 |
| 165244 | 32 | | 334 |
| 165245 | 34 | | 301 |
| 165246 | 36 | | 345 |
| 165247 | 37 | | 471 |
| 165248 | 42 | | 271 |
| 165249 | 116 | | 244 |
| 165250 | 44 | 0.30 | 276 |

sharp lower contact @ 40 degrees to core axis

BASALT: similar to 43.3-48.5 m

mod. increase in plag. phyric magnetite segregation patches (10-20%), mod. magnetic, mod-strong localized wht zeol. amygdule texture, trc. diss py

@58.05
carb-epid-py patches across 4 cm

FELDSPAR PORPHYRY: mottled, med-dk gray groundmass, perv. sporadic epidote + chlorite bands/fracture fills, 1-3 mm, locally to 1 cm, wider chlor-epidoite bands have light gray alteration halos, plag phenos (~40%), 2-3 mm, anhedral-subhedral, trc to locally 0.5% diss f.g-m.g pyrite

Property: Yew
cation: Texada Island, BC
illhole #: Y04-14
Drilled by: Neill's Mining Ltd.
gged by: G. Thomson

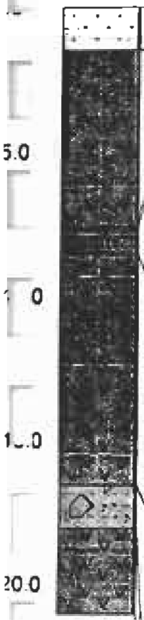
Total depth: 21.03 m
Dip Angle: -52
Azimuth: 40
Start date: 08/11/04
Completion date: 08/11/04

## Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/1

| Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. |
|---|---|---|---|---|---|---|---|



OVERBURDEN

BASALT: f.g. med-dk greenish gray, minor localized amygdule patches, mod-strongly brkn @ 1.5-~ 10.36m.
wk-mod. magnetic, trc-0.5% diss/fract. fill pyrite, trc zeol fract. fills, minor epid +/- chlor. fract. fills

SKARN: discontinuous (60%) wk skarn patches, irreg. mixed pale brown garnet (25%), carbonate (50%), epidote (25%)
minor asoc. py, mag. clots

BASALT: continuation from above,

10.6-12.0
wk. perv. epid alt'n, skarn patch @ 10.75-10.95 w. irreg. wht carbonate bands w. 5-10% localized py clots, increased epidote, 5% isolated garnet clots

15.25-16.55
perv. epidote replacements of amygdules

HORNBLENDE PORPHYRY dark greenish gray, 20-30% med-crs grained euhedral hornblende crystals, 1-3 mm, locally to 3 cm, perv. wk epid. alt'n, minor sporadic epid. fract fills, trc zeol fract fills

sharp upper contact @ 50 deg. to core axis
gradational, indistinct lower contact

BASALT: as above

approx 1 % diss/fract fill py.

20.58-20.87
10-30% diss/fract. fill py assoc. w. pale gray qtz? band @ 20.75 m

Assays

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165251 | 38 | | 233 |
| 165252 | 71 | | 154 |
| 165253 | 55 | | 196 |
| 165254 | 939 | | 169 |
| 165255 | 60 | | 235 |
| 165256 | 49 | | 267 |
| 165257 | 234 | | 50 |
| 165258 | 61 | | 222 |
| [illegible] | [illegible] | | [illegible] |
| 165260 | 110 | | 600 |

Property: Yew
cation: Texada Island, BC
Drillhole #: Y04-15
Drilled by: Neill's Mining Ltd.
ogged by: G. Thomson

Total depth: 18.44 m
Dip Angle: -45
Azimuth: 40
Start date: 08/12/04
Completion date: 08/12/04

## Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/1

Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays

5.0

0

1 0

OVERBURDEN

BASALT: dk gray, fine-grained, wkly mag., mod-brkn, trc-0.5% diss/fract fill py., wk amyg texture @ ~ 6.1-7.3 m
trc zeol/epid fract fills

SKARN: 30% mottled limestone patches/bands, wk chlor-epid, 5% garnet clots, 0.5-1% diss py, trc fine mgt blebs/clots

BASALT: as above, strongly brkn 8.5-12.2 m, wk-mod sporadic epid. alt'n of amydules @ 12.2-15.7 m

@10.75
5 cm carbonate-epidote band

HORNBLENDE PORPHYRY: dark greenish gray, 20-30% med-crs grained euhedral hornblende crystals, 1-3 mm, locally to 3 cm, perv. wk epid. alt'n, minor sporadic epid. fract fills, trc zeol fract fills

indistinct upper contact

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165261 | 22 | | 183 |
| 165262 | 44 | | 255 |
| 165263 | 108 | 0.3 | 404 |
| 165264 | 55 | | 449 |
| 165265 | 56 | | 178 |
| 165266 | 72 | | 198 |

roperty: Yew
cation: Texada Island, BC
illhole #: Y04-16
rilled by: Neill's Mining Ltd.
gged by: G. Thomson

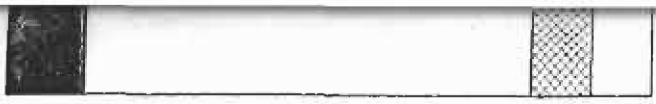
Total depth: 57.91 m
Dip angle: -90
Azimuth: 0
Start date: 08/19/04
Completion date: 08/19/04

## Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/2

| ithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays Au ppb | Assays Ag ppm | Assays Cu ppm |
|---|---|---|---|---|---|---|---|---|---|---|
| | OVERBURDEN | | | | | | | | | |
| | LIMESTONE: brkn, f.g, yellowish w. wk limonite, 0.5-1 % f.g. diss oxidized py pecs, minor pale green malachite on fract's | | | | | | 165267 | 8 | | 222 |
| | BASALT: zone of continuous med - dk gray basalt, local sporadic patches of plag. phyric magnetite, wk-mod brkn, wk localized patchy epidote alteration from 6.57- ~ 16.6 m, also wk zeol. amydule replacement by epidote, minor localized pyritic bands/clots assoc. w sporadic zeol. vugs/fract. fills/amygdules, trc. zeol. fract. fills to 3 mm,<br>trc wht zeol. amugdules +/- trc. py, moderate-strong (10-20%) amygdule texture @ ~ 10.8-14.7 m<br>7 cm semimsv vuggy py +zeol. @ 40.4 m<br>55.75-57.91<br>sporadic 0.5-2 cm py fract. fills | | | | | | | | | |
| | | | | | | | 165268 | 14 | | 197 |



| | | | | | | |
|---|---|---|---|---|---|---|
| | | 165269 | 57 | 0.3 | 270 | |

Property: Yew
cation: Texada Island, BC
Drillhole #: Y04-17
Drilled by: Neill's Mining Ltd.
gged by: G. Thomson

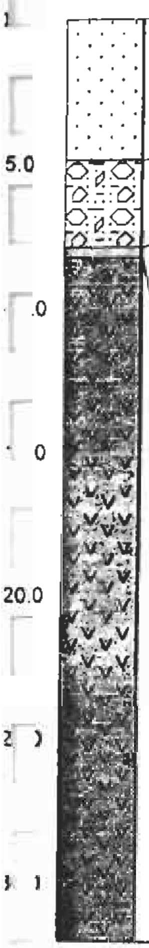
Total depth: 32.0 m
Dip Angle: -48
Azimuth: 135
Start date: 08/19/04
Completion date:08/20/04

**Rio Minerals Limited**

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/1

Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays Au ppb Ag ppm Cu ppm



OVERBURDEN

GRAVEL AND SAND: mixed cobbles of quartz diorite/granodiorite, basalt, sand-clay cemented basalt frags

HORNBLENDE PORPHYRY: brkn coarse grained, perv. wk epid

BASALT: zone of continuous med gray, f.g. basalt, wk-mod brkn, trc-1% diss/fract. fill py. @ 24.38-29.15
moderate-strong (10-20%) amygdule texture @ ~ 8.8-14.75 m, wk-mod magnetic

strongly broken, fractured @ 18.3-19.0 m

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165270 | 92 | | 386 |
| 165271 | 98 | | 421 |
| 165272 | 101 | 0.4 | 818 |
| 165273 | 70 | | 439 |
| 165274 | 167 | | 343 |

Property: Yew
L cation: Texada Island, BC
Drillhole #: Y04-18
Drilled by: Neill's Mining Ltd.
L gged by: G. Thomson

Total depth: 15.24 m
Dip angle: -90
Azimuth: 0
Start date: 08/20/04
Completion date: 08/20/04

## Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/1

ithology | Descriptions | % Recovery | Alteration | Descriptions

OVERBURDEN

BASALT: med-dk gray, f.g, non-magnetic, mod. fract'd, mod. pervasive sporadic patches of epid +/- zeol., chlor, py
corroded, limonitic @ 0.9- ~ 1.3 m, trc-0.5% py, wk-mod amygdules, 1-2% zeol +/- epid fract. fills,

3 x 6 cm py-mag. clot @ 3.35 m

7.8-9.75
mod-strong vuggy epid-+/- zeol., chlor alt'n w. 2-3% patchy/fracture fill py.

8.0-8.1
patchy pale brown garnet

LIMESTONE: light gray, f.g. massive limestone, wk py +/- chlor on fract's, 2.5 cm band of massive f.g replacement py
@ 9.6 m

BASALT. dark gray, f.g., mod. magnetic, perv. v.f.g. diss py w. 1-2 mm py fract. fills, (2-3% py overall), mod. fract'd

| Mineralization | Descriptions | Sample No. | Assays<br>Au<br>ppb | Ag<br>ppm | Cu<br>ppm |
|---|---|---|---|---|---|
| | | | | | |
| | | 165275 | 33 | | 33 |
| | | 165276 | 25 | | 62 |
| | | 165277 | 24 | | 59 |
| | | 165281 | 42 | | 64 |
| | | 165278 | 37 | | 103 |
| | | 165279 | 17 | | 95 |
| | | 165280 | 29 | | 127 |

Property: Yew
cation: Texada Island, BC
Drillhole #: Y04-19
Drilled by: Neill's Mining Ltd.
ogged by: G. Thomson

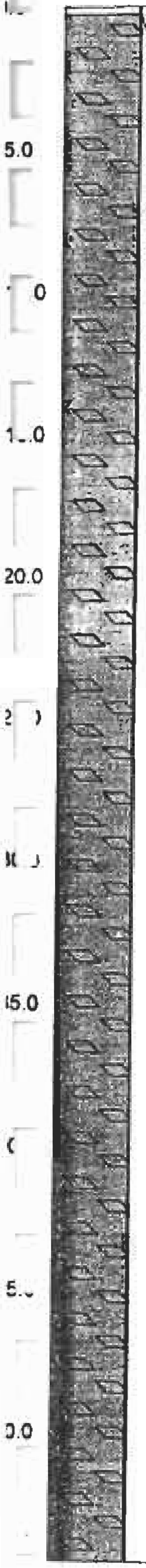
Total depth: 54.56 m
Dip Angle: -90
Azimuth: 0
Start date: 08/20/04
Completion date: 08/21/04

**Rio Minerals Limited**

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/1

Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays: Au ppb, Ag ppm, Cu ppm



OVERBURDEN

FELDSPAR PORPHYRY: mottled texture, light to dark gray, medium grained indistinct crowded plag. phenos, med to dark gray siliceous groundmass, pervasive abundant chlorite-epidote fracture fills (hairline to 4 mm), chlorite core w. epidote selvages, chlor-epid. fractures have vague light gray to locally pale pink (K-spar) alteration halos,
pervasive partial replacement of plag. phenos. by epidote, pervasive 1-2 mm chlor alt'd mafic phenos (2-5%),
1-2% hailine to 2 mm zeolite fract. fills, trc dissem py, minor local increased py. concentrations assoc. w. chlor-epid fract. fills

40.54-44.66
strongly broken

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165282 | 13 | | 10 |
| 165283 | 91 | 0.3 | 76 |
| 165284 | 4 | | 3 |
| 165285 | 12 | | 75 |
| 165286 | 211 | 0.5 | 201 |
| 165287 | 27 | | 51 |

operty: Yew
ication: Texada Island, BC
Drillhole #:Y04-20
Drilled by: Neill's Mining Ltd.
gged by:G. Thomson

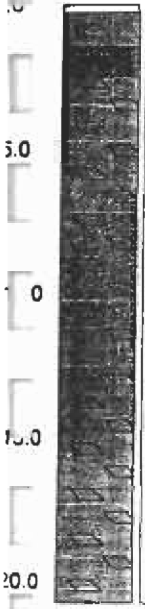
Total depth: 20.73 m
Dip Angle: -90
Azimuth: 0
Start date: 08/21/04
Completion date:08/21/04

# Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/1

Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No.



OVERBURDEN

FELDSPAR PORPHYRY: see below @ 2.5 to 209.73 m

BASALT: dark gray, amygdaloidal, sharp u. cont @ 20 deg. to c. axis

FELDSPAR PORPHYRY: mottled texture, light to dark gray, medium grained indistinct crowded plag. phenos, med to dark gray siliceous groundmass, pervasive abundant chlorite-epidote fracture fills (hairline to 4 mm), chlorite core w. epidote selvages, chlor-epid. fractures have sporadic vague pale pink (K-spar) alteration halos,
pervasive partial replacement of plag. phenos. by epidote, pervasive 1-2 mm chlor alt'd mafic phenos (2-5%),
1-2% hailine to 2 mm zeolite fract. fills, trc dissem py, minor local increased py. concentrations assoc. w. chlor-epid fract. fills

|  |  | Assays |  |  |
|---|---|---|---|---|
| Sample No. |  | Au ppb | Ag ppm | Cu ppm |
| 165288 |  | 19 |  | 53 |
| 165289 |  | 5 |  | 34 |
| 165290 |  | 11 |  | 14 |

Property: Yew
ocation: Texada Island, BC
Drillhole #: Y04-21
Drilled by: Neill's Mining Ltd.
ogged by: G. Thomson

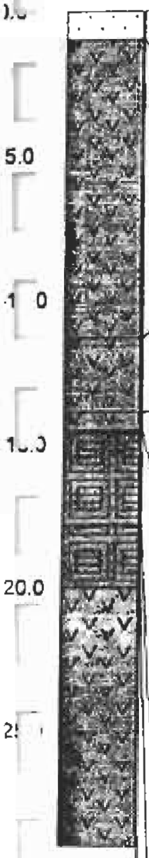
Total depth: 28.96 m
Dip Angle: -50
Azimuth: 340
Start date: 08/21/04
Completion date: 08/22/04

# Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/1

| Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays<br>Au ppb | <br>Ag ppm | <br>Cu ppm |
|---|---|---|---|---|---|---|---|---|---|---|



OVERBURDEN

BASALT: dark gray, fine grained, wk-mod. magnetic, perv. wk-mod amygd. texture, 2-10 mm (locally glomeroporphyntic) w.partial epid. replacements, 1-2 % epid +/- chlor fract. fills, 0.5-1% diss/fract fill f.g. pyrite,

BASALT: very broken, perv. mod-strong epid. alt'n, perv. limon. coatings, trc diss py, mod-strongly amygdaloidal basalt at 12.4-13.9 m

BASALT: strongly mottled w. perv. silica-epidote alt'n, mod-strongly brkn, 1-2 % diss f.g. py.

SKARN: epidote-quartz garnet skarn, strongly brkn-crumbly w.intense alteration, wk localized carb. alt'n, strong pervasive epidote w. equally dispersed white, frothy, vuggy, locally banded quartz, 10-20% brownish garnet patches (~ 10-20%), trc fig. diss py.

17.5-17.8
massive f.g. banded pyrite (80%) w. interstitial magnetite (20%), probable carbonate replacement

SKARN: epidote (garnet) skarn (altered basalt), perv. mod-strong epid. alt'n, brn garnet clots @ 19.3-19.45,

19.1-19.3
msv f.g banded pyrite (80%) w. interstitial qtz-magnetite (20%), strong carb.alt'n w. 5-10% f.g py @ 18.92-19.1, 19.3-19.45, 10-20 % py @ 19.6-20.0m

BASALT: dk gray, f.g., wk-mod. magnetic, minor sporadic wht zeol.amygd's, 3-5% sporadic epid. fract. fills/patches,
1-2 5 v.f.g. diss py, minor local epid +/- py. fract. fills/clots, mod. brkn

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165291 | 45 | 0.3 | 270 |
| 165292 | 39 | | 275 |
| 165293 | 15 | | 211 |
| 165294 | 15 | | 169 |
| 165295 | 33 | | 289 |
| 165296 | 30 | | 348 |
| 165297 | 86 | | 202 |
| 165298 | 325 | 0.8 | 2416 |
| 165299 | 97 | 0.4 | 330 |
| 165304 | 215 | | 867 |
| 165300 | 30 | 0.3 | 177 |
| 165301 | 31 | | 256 |
| 165302 | 79 | | 279 |
| 165303 | 25 | | 102 |

Property: Yew
Location: Texada Island, BC
Drillhole #: Y04-22
Drilled by: Neill's Mining Ltd.
Logged by: G. Thomson

Total depth: 30.48 m
Dip Angle: -90
Azimuth: 0
Start date: 08/22/04
Completion date: 08/22/04

# Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/1

Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays

**BASALT**: Amydaloidal basalt, fine grained dark gray, wk-mod magnetic

6.1-6.22
altered/skarned basalt, with strong chlor-epid-magnetite, pervasive 10-20% pyrite clots and fracture fills, massive across 1-2 cms @ 6.22 m

**LIMESTONE**: massive fine grained light gray limestone/marble, trc. v.f.g. py, weakly brkn

6.22-6.36
massive f.g. magnetite (carbonate replacement) w. 3-5% interstitial gray carbonate, 10-15% pyrite clots/bands, sharp lower contact with pale gray limestone @ 80 deg. to core axis

2-3 cm f.g. honey brown garnet patch w. strong py @ 9.14 m

sharp lower contact @ 70 deg. to c.a

**BASALT**: weakly amygdaloidal to 16.25 m, trc diss/fract fill py throughout

10.13-10.26
massive fine grained pyrite (80%) + magnetite (20%) -carbonate band (carbonate replacement)

12.82
2 cm carbonate band @ 80 deg. to c. axis, mod-strong epidote selvages (1-3 cms)

16.7- ~ 19.5
moderate epidote +/- zeolite fract fills @ 80 deg. to c. axis, 1-2 mm

20.65-21.1
wht carb/limestone band w. u. cont @ 20 deg. to c. axis, strongly broken, soft w. strong - carb-epidote-pyrite
at 20.85-21.1 (fault?)

1 cm carb. band @ 30 deg. at 28.53 m

29.18-29.28
carb. band @ 20 deg. to c. axis

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165305 | 57 | 0.30 | 478 |
| 165306 | 205 | | 809 |
| 165307 | | 0.40 | 30 |
| 165308 | 13 | | 260 |
| 165309 | 688 | 1.70 | 8315 |
| 165310 | 51 | 0.70 | 1599 |
| 165311 | 12 | 0.30 | 175 |

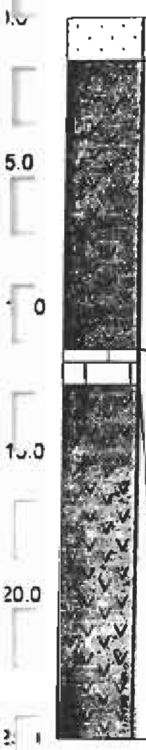
Property: Yew
ocation: Texada Island, BC
Drillhole #: Y04-23
Drilled by: Neill's Mining Ltd.
gged by: G. Thomson

Total depth: 25.0 m
Dip angle: -45
Azimuth: 360
Start date: 08/22/04
Completion date: 08/22/04

## Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/1



| Descriptions | % Recovery | Alteration |
|---|---|---|
| OVERBURDEN | | |
| BASALT: dark gray, fine grained, perv. amygdaloidal texture, perv. epid.replacement of amygdules, sporadic epid. fract. fills +/- f.g. py, trc py. disseminations/fracture fill/isolated clots<br>7.0-9.0<br>strong amyg. texture, perv. wk-mod. epidote, 0.5-1.0% py., wk-mod perv. epid. amyg replacements<br>10.75-11.45<br>zone of very brkn, strongly epid. alt'd basalt (epidote-silica-carb skarn), trc. diss f.g. py | | |
| LIMESTONE: light gray, massive, fine grain-micritic limestone /marble, trc. v.f.g. py, mod. brkn<br>12.5-12.7<br>patchy/layered chlor-garnet streaks w. 0.5-1% f.g diss py | | |
| BASALT: as above, perv. wk-mod sporadic epidote patches/fract. fills. wk epid amygdule replacements. trc f.g diss'fract. fill py., intermittent amygdule patches, 2-4 mm. trc hairline zeol. fract fills | | |

| Descriptions | Mineralization | Descriptions | Sample No. | Assays | | |
|---|---|---|---|---|---|---|
| | | | | Au<br>ppb | Ag<br>ppm | Cu<br>ppm |
| | | | 165332 | 38 | | 207 |
| | | | 165312 | 54 | | 298 |
| | | | 165313 | 41 | 0.3 | 304 |
| | | | 165314 | 72 | 0.4 | 127 |
| | | | 165315 | 13 | | 39 |
| | | | 165316 | 86 | | 365 |
| | | | 165317 | 247 | 0.3 | 882 |
| | | | 165318 | 11 | | 92 |
| | | | 165319 | 13 | | 183 |

roperty: Yew
cation: Texada Island, BC
rillhole #: Y04-24
rilled by: Neill's Mining Ltd.
gged by: G. Thomson

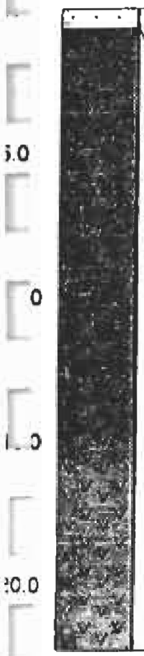
Total depth: 25.9 m
Dip angle: -90
Azimuth: 0
Start date: 08/22/04
Completion date: 08/23/04

## Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/1

| Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|---|---|---|---|---|---|---|
| | OVERBURDEN | | | | | | | | | |
| | BASALT: dark gray, f.g., locally amydaloidal to ~ 9.0 m, perv. wk. sporadic epid. fract. fills to ~ 14.0 m, trc. diss py, local py clots assoc. w. epid patches/fract. fills<br>16.06-17.3<br>strong fracturing subparallel to core axis, strong chlor-epid w, semimsv py @ 16.36-16.5 m | | ▨ | | | | 165320 | 36 | | 566 |
| | | | | | | | 165321 | 70 | | 103 |



Property: Yew
cation: Texada Island, BC
Drillhole #: Y04-25
Drilled by: Neill's Mining Ltd.
gged by: G. Thomson

Total depth: 30.48 m
Dip Angle: -47
Azimuth: 255
Start date: 08/23/04
Completion date: 08/23/04

# Rio Minerals Limited

910-475 Howe Street
Vancouver, BC, V6C 2B3

1p/1

Lithology | Descriptions | % Recovery | Alteration | Descriptions | Mineralization | Descriptions | Sample No. | Assays: Au ppb | Ag ppm | Cu ppm

**OVERBURDEN**

**BASALT**: dark gray, fine grained, conspic. wht zeol. amygdules, ~20%, 3-10 mm at 7.0-8.8 m, 1-2 % wht zeol. fract. fills, trc-1% diss/fract. fill py

15.3-19.1
2-5% py as sporad. 3-5 mm fract. fills

1-2 cm carb. band at 17.85 m, 10-20 deg to core axis

19.1-24.86
wk-mod skarn alt'd basalt, irreg. mottled texture . sporadic epidote patches, local vague brownish (garnet) patches, 2-3 % chalcedonic-chlor vnlts (local vein brecciation), mod perv. epidote throughout, trc-1% pyrite w. locally higher concentrations in areas of vein breccia, local wk carb. alt'n

3 x 4 cm pyrite clot @ 20.05 m

20.4-20.65
coarse crystalline calcite patches, 4 cm coarse calcite band @ 22.65 m

**SKARN**: mottled skarn altered carbonate, green to dk gray, mainly carbonate with pervasive chlorite, ~ 20% vague patchy brownish f.g. garnet patches, perv. slickensides on fract. sfcs.

25.74-25.83
epid-carb-chlor patch, 2-5% diss f.g py

**BASALT**: dark, fine grained basalt (as above), trc zeol/epid fract fills, 1-2 % diss py fine.gr -med gr., often cubic, 1-3 mm,
minor local epid patches/fract fills

| Sample No. | Au ppb | Ag ppm | Cu ppm |
|---|---|---|---|
| 165322 | 119 | 0.3 | 524 |
| 165323 | 550 | 1.6 | 1620 |
| 165324 | 128 | 0.5 | 476 |
| 165325 | 127 | 0.6 | 476 |
| 165326 | 80 |  | 249 |
| 165327 | 119 | 0.7 | 528 |
| 165328 | 85 |  | 64 |
| 165329 | 105 |  | 334 |
| 165330 | 97 | 0.4 | 556 |

# APPENDIX III

# ASSAY CERTIFICATES

# GEOCHEMICAL ANALYSIS CERTIFICATE

## Rio Minerals Inc. Canada File # A403643 Page 1

910 - 475 Howe St., Vancouver BC V6C 2B3

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au** ppb | TOTAL kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SI | <1 | <1 | <3 | 1 | <.3 | <1 | <1 | 2 | .05 | <2 | 13 | <2 | <2 | 2 | <.5 | <3 | <3 | <1 | .09 | <.001 | <1 | <1 | <.01 | 2 | <.01 | <3 | .01 | .47 | .01 | <2 | 3 | - |
| 165001 | 1 | 189 | <3 | 53 | .3 | 111 | 32 | 456 | 4.40 | 2 | <8 | <2 | <2 | 51 | <.5 | 3 | <3 | 137 | 1.60 | .076 | 1 | 143 | 1.89 | 34 | .29 | 4 | 2.78 | .30 | .43 | <2 | 23 | 3.67 |
| 165002 | 1 | 280 | <3 | 40 | <.3 | 111 | 38 | 383 | 5.14 | 5 | <8 | <2 | <2 | 37 | <.5 | <3 | <3 | 147 | 1.45 | .075 | 1 | 124 | 1.94 | 31 | .45 | <3 | 2.26 | .24 | .57 | <2 | 116 | 3.71 |
| 165003 | 2 | 115 | <3 | 52 | .5 | 87 | 83 | 465 | 7.57 | 7 | 9 | <2 | <2 | 18 | <.5 | <3 | <3 | 134 | 1.12 | .087 | 1 | 132 | 2.16 | 13 | .35 | 12 | 1.80 | .09 | .24 | <2 | 142 | 1.90 |
| 165004 | 2 | 64 | 7 | 38 | .5 | 147 | 148 | 383 | 10.45 | 7 | <8 | <2 | <2 | 31 | <.5 | 3 | <3 | 105 | 1.29 | .065 | 1 | 114 | 1.92 | 23 | .35 | 19 | 1.88 | .17 | .35 | <2 | 73 | 3.10 |
| 165005 | 1 | 184 | <3 | 40 | .3 | 103 | 53 | 387 | 5.34 | 7 | <8 | <2 | <2 | 42 | <.5 | <3 | <3 | 121 | 1.36 | .083 | 2 | 112 | 1.90 | 38 | .40 | 6 | 2.02 | .21 | .63 | <2 | 46 | 3.94 |
| 165006 | 1 | 277 | <3 | 37 | .7 | 102 | 45 | 396 | 6.27 | 5 | <8 | <2 | <2 | 40 | <.5 | 5 | <3 | 121 | 1.48 | .078 | 1 | 104 | 1.89 | 40 | .37 | 17 | 2.36 | .22 | .74 | <2 | 71 | .80 |
| 165007 | 1 | 251 | 4 | 51 | .4 | 100 | 53 | 498 | 6.47 | 15 | <8 | <2 | <2 | 63 | <.5 | <3 | <3 | 145 | 1.44 | .077 | 1 | 117 | 2.43 | 23 | .37 | <3 | 2.61 | .22 | .20 | <2 | 38 | 2.93 |
| 165008 | 2 | 310 | <3 | 43 | .3 | 88 | 48 | 484 | 6.17 | 8 | <8 | <2 | <2 | 81 | <.5 | 3 | <3 | 160 | 1.93 | .076 | 2 | 124 | 1.61 | 13 | .45 | 6 | 2.59 | .40 | .09 | <2 | 21 | 1.51 |
| 165009 | <1 | 309 | 6 | 78 | .8 | 117 | 33 | 881 | 6.42 | 40 | <8 | <2 | <2 | 109 | <.5 | 5 | <3 | 186 | 4.38 | .073 | 1 | 157 | 3.27 | 15 | .46 | <3 | 4.12 | .13 | .18 | <2 | 37 | 3.04 |
| 165010 | 1 | 217 | <3 | 85 | .3 | 113 | 46 | 749 | 6.39 | 5 | <8 | <2 | <2 | 100 | <.5 | <3 | <3 | 182 | 1.18 | .071 | 1 | 136 | 3.04 | 59 | .51 | <3 | 2.66 | .12 | .31 | <2 | 12 | 2.87 |
| 165011 | 1 | 182 | 4 | 81 | <.3 | 114 | 33 | 655 | 5.87 | <2 | <8 | <2 | <2 | 47 | <.5 | <3 | <3 | 169 | 1.41 | .073 | 1 | 141 | 2.78 | 33 | .49 | <3 | 2.75 | .18 | .25 | <2 | 7 | 3.67 |
| 165012 | <1 | 223 | <3 | 54 | .3 | 114 | 40 | 500 | 5.49 | 6 | <8 | <2 | <2 | 27 | <.5 | <3 | <3 | 135 | 1.23 | .083 | 1 | 143 | 2.36 | 30 | .41 | <3 | 2.14 | .14 | .46 | <2 | 91 | 4.92 |
| 165013 | 1 | 219 | <3 | 63 | .5 | 127 | 36 | 562 | 5.32 | 7 | <8 | <2 | <2 | 31 | <.5 | 3 | <3 | 155 | 1.25 | .081 | 1 | 176 | 2.65 | 31 | .40 | 7 | 2.40 | .11 | .49 | <2 | 64 | 4.51 |
| 165014 | 1 | 174 | <3 | 46 | .3 | 113 | 37 | 470 | 5.05 | 8 | <8 | <2 | <2 | 39 | <.5 | 5 | <3 | 143 | 1.35 | .081 | 1 | 152 | 2.17 | 21 | .44 | 6 | 2.11 | .13 | .41 | <2 | 50 | 5.58 |
| 165015 | 1 | 177 | 3 | 35 | .3 | 79 | 32 | 346 | 4.70 | 9 | 8 | <2 | <2 | 66 | <.5 | 4 | <3 | 133 | 1.55 | .080 | 1 | 113 | 1.58 | 17 | .47 | 10 | 1.57 | .11 | .27 | <2 | 59 | 3.29 |
| RE 165015 | 1 | 176 | <3 | 35 | .5 | 80 | 33 | 352 | 4.77 | 8 | <8 | <2 | <2 | 67 | <.5 | 3 | <3 | 134 | 1.56 | .081 | 2 | 118 | 1.60 | 17 | .47 | 14 | 1.59 | .11 | .27 | <2 | 64 | - |
| RRE 165015 | 1 | 181 | 5 | 37 | .4 | 77 | 32 | 346 | 4.62 | 9 | <8 | <2 | <2 | 66 | <.5 | 6 | <3 | 130 | 1.55 | .079 | 2 | 109 | 1.56 | 17 | .47 | 14 | 1.57 | .11 | .26 | <2 | 45 | - |
| 165016 | 2 | 667 | 6 | 60 | .6 | 104 | 45 | 517 | 4.94 | 6 | <8 | <2 | <2 | 41 | <.5 | 4 | <3 | 141 | 1.62 | .083 | 1 | 133 | 2.27 | 11 | .36 | <3 | 2.20 | .15 | .12 | <2 | 168 | 5.17 |
| 165017 | 1 | 264 | <3 | 50 | .5 | 95 | 31 | 519 | 5.69 | 3 | <8 | <2 | <2 | 56 | <.5 | 5 | <3 | 153 | 1.61 | .074 | 1 | 137 | 2.80 | 15 | .41 | 9 | 2.71 | .16 | .19 | <2 | 28 | 1.91 |
| 165018 | <1 | 384 | 3 | 50 | .7 | 106 | 33 | 466 | 5.59 | 7 | <8 | <2 | <2 | 61 | <.5 | 5 | <3 | 154 | 1.56 | .076 | 1 | 137 | 2.28 | 9 | .37 | 13 | 2.31 | .19 | .08 | <2 | 32 | 5.30 |
| 165019 | 1 | 275 | 5 | 43 | .4 | 116 | 53 | 529 | 6.62 | 4 | <8 | <2 | <2 | 65 | <.5 | 4 | <3 | 163 | 1.54 | .070 | 1 | 133 | 2.61 | 23 | .43 | 4 | 2.69 | .19 | .25 | <2 | 48 | 5.16 |
| 165020 | 1 | 198 | <3 | 47 | .5 | 105 | 34 | 563 | 5.39 | 6 | <8 | <2 | <2 | 76 | <.5 | 6 | <3 | 137 | 2.07 | .071 | 1 | 114 | 2.70 | 23 | .37 | 6 | 2.98 | .22 | .23 | <2 | 46 | 2.49 |
| 165021 | 1 | 18 | <3 | 39 | <.3 | 5 | 6 | 365 | 2.01 | 2 | <8 | <2 | 5 | 125 | <.5 | 3 | <3 | 43 | 1.54 | .069 | 7 | 2 | .74 | 49 | .09 | 6 | 2.42 | .35 | .31 | <2 | 2 | 5.08 |
| 165022 | 2 | 17 | <3 | 23 | <.3 | 4 | 5 | 276 | 1.97 | <2 | <8 | <2 | 3 | 151 | <.5 | 3 | <3 | 36 | 1.23 | .066 | 6 | 4 | .53 | 53 | .09 | 9 | 1.65 | .27 | .13 | <2 | 6 | 1.82 |
| 165023 | <1 | 60 | <3 | 22 | 1.0 | 47 | 19 | 334 | 3.13 | 6 | <8 | <2 | <2 | 113 | <.5 | 6 | <3 | 85 | 12.01 | .047 | 1 | 61 | 1.07 | 39 | .20 | 4 | 3.07 | .25 | .27 | <2 | 11 | .92 |
| 165024 | 1 | 228 | <3 | 46 | .7 | 111 | 40 | 483 | 5.50 | 7 | <8 | <2 | <2 | 175 | <.5 | 10 | <3 | 145 | 1.97 | .071 | 2 | 141 | 2.14 | 61 | .31 | 12 | 2.72 | .26 | .20 | <2 | 27 | 2.70 |
| 165025 | <1 | 1415 | 5 | 57 | 1.4 | 112 | 35 | 453 | 5.74 | 13 | <8 | <2 | <2 | 91 | <.5 | 5 | <3 | 150 | 1.38 | .078 | 1 | 123 | 2.33 | 36 | .37 | 7 | 2.37 | .16 | .12 | <2 | 702 | 3.14 |
| 165026 | 1 | 416 | <3 | 59 | .8 | 113 | 43 | 499 | 6.04 | 6 | <8 | <2 | <2 | 45 | <.5 | 4 | <3 | 160 | 1.61 | .081 | 1 | 130 | 2.56 | 29 | .40 | 10 | 2.43 | .15 | .21 | 2 | 95 | 2.10 |
| 165027 | 1 | 891 | <3 | 51 | 1.0 | 113 | 37 | 492 | 5.81 | 5 | <8 | <2 | <2 | 102 | <.5 | 5 | <3 | 159 | 1.49 | .076 | 1 | 123 | 2.40 | 46 | .38 | 13 | 2.57 | .22 | .27 | <2 | 108 | 3.78 |
| 165028 | 1 | 540 | 3 | 61 | .9 | 127 | 73 | 798 | 5.80 | 19 | <8 | <2 | <2 | 262 | <.5 | 4 | <3 | 140 | 5.33 | .081 | 1 | 138 | 2.57 | 97 | .31 | <3 | 3.52 | .26 | .59 | <2 | 104 | 3.60 |
| 165029 | 1 | 519 | <3 | 57 | .7 | 112 | 55 | 611 | 4.22 | 11 | <8 | <2 | <2 | 222 | <.5 | 4 | <3 | 121 | 3.51 | .073 | <1 | 117 | 2.28 | 74 | .36 | <3 | 3.48 | .30 | .59 | <2 | 138 | 6.03 |
| 165030 | <1 | 266 | 4 | 56 | .3 | 128 | 44 | 477 | 4.88 | 16 | <8 | <2 | <2 | 173 | <.5 | 6 | <3 | 151 | 2.49 | .071 | 1 | 128 | 2.63 | 76 | .36 | 5 | 3.71 | .30 | .70 | <2 | 94 | 4.91 |
| 165031 | 2 | 235 | <3 | 54 | .5 | 110 | 30 | 648 | 5.65 | 4 | 11 | <2 | <2 | 35 | <.5 | 6 | <3 | 162 | 1.23 | .071 | 1 | 143 | 3.33 | 39 | .35 | 3 | 3.26 | .15 | .54 | <2 | 19 | 1.87 |
| 165032 | 1 | 78 | <3 | 72 | .3 | 95 | 44 | 717 | 5.78 | 17 | <8 | <2 | <2 | 44 | <.5 | 4 | <3 | 164 | 1.70 | .121 | 2 | 122 | 3.05 | 129 | .38 | <3 | 3.06 | .15 | .81 | <2 | 17 | .94 |
| STANDARD DS5#AUR | 13 | 147 | 24 | 137 | .3 | 26 | 12 | 750 | 3.03 | 18 | <8 | <2 | 2 | 46 | 5.6 | 4 | 3 | 60 | .77 | .094 | 11 | 188 | .70 | 136 | .10 | 16 | 2.05 | .04 | .15 | 6 | 488 | - |

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU** GROUP 3B - 30.00 GM SAMPLE ANALYSIS BY FA/ICP.
<u>Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.</u>

**Data** ____ **FA** ____ **DATE RECEIVED:** JUL 19 2004 **DATE REPORT MAILED:** July 29/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

| SAMPLE# | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Au** | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppb | kg |
| 165033 | 2 | 218 | 5 | 50 | <.3 | 106 | 80 | 683 | 5.98 | 28 | <8 | <2 | <2 | 102 | <.5 | <3 | <3 | 139 | 3.57 | .068 | 1 | 121 | 2.71 | 14 | .40 | 7 | 3.53 | .21 | .14 | <2 | 69 | .63 |
| 165034 | <1 | 640 | 10 | 49 | .3 | 97 | 25 | 594 | 5.52 | 9 | <8 | <2 | <2 | 78 | <.5 | <3 | <3 | 163 | 1.59 | .075 | 1 | 137 | 2.51 | 16 | .40 | 10 | 2.54 | .19 | .13 | <2 | 34 | .71 |
| 165035 | 1 | 468 | 14 | 142 | 1.5 | 127 | 50 | 768 | 6.87 | 44 | <8 | <2 | <2 | 44 | .8 | <3 | <3 | 141 | 2.32 | .073 | 1 | 133 | 2.78 | 32 | .41 | <3 | 2.48 | .14 | .27 | 2 | 257 | .59 |
| 165036 | 1 | 248 | 3 | 76 | .3 | 121 | 33 | 799 | 6.42 | 8 | 11 | <2 | <2 | 21 | <.5 | 4 | <3 | 203 | 1.04 | .080 | 1 | 164 | 3.48 | 28 | .51 | 4 | 2.63 | .08 | .25 | <2 | 17 | 2.86 |
| 165037 | 2 | 523 | 7 | 94 | 1.0 | 123 | 66 | 679 | 5.72 | 11 | <8 | <2 | <2 | 71 | <.5 | 3 | <3 | 174 | 1.18 | .076 | 1 | 146 | 2.94 | 65 | .48 | 7 | 2.35 | .11 | .45 | <2 | 96 | 3.10 |
| 165038 | 1 | 348 | 11 | 77 | <.3 | 112 | 40 | 821 | 5.42 | 10 | <8 | <2 | <2 | 37 | <.5 | <3 | <3 | 162 | 1.62 | .076 | 1 | 137 | 2.95 | 25 | .47 | <3 | 2.50 | .12 | .15 | 2 | 32 | 1.94 |
| 165039 | 1 | 325 | 5 | 63 | <.3 | 112 | 41 | 748 | 6.08 | 8 | <8 | <2 | <2 | 35 | <.5 | <3 | <3 | 169 | 1.48 | .078 | 1 | 143 | 3.03 | 43 | .46 | 3 | 2.78 | .17 | .42 | <2 | 17 | 5.85 |
| 165040 | 2 | 96 | 4 | 51 | <.3 | 33 | 18 | 485 | 4.17 | 4 | <8 | <2 | <2 | 71 | <.5 | <3 | <3 | 109 | 1.34 | .140 | 5 | 45 | 1.45 | 37 | .28 | 5 | 1.57 | .13 | .30 | <2 | 15 | 5.67 |
| 165041 | 1 | 202 | <3 | 73 | <.3 | 114 | 34 | 801 | 5.74 | 3 | <8 | <2 | <2 | 30 | <.5 | <3 | <3 | 169 | 1.15 | .074 | 1 | 138 | 3.05 | 87 | .47 | <3 | 2.80 | .15 | .87 | <2 | 15 | 4.12 |
| 165042 | 2 | 64 | 3 | 29 | <.3 | 9 | 8 | 264 | 2.06 | <2 | <8 | <2 | 5 | 120 | <.5 | <3 | <3 | 44 | 1.25 | .075 | 7 | 15 | .64 | 51 | .12 | 3 | 1.77 | .26 | .19 | <2 | 14 | 2.98 |
| 165043 | 3 | 28 | 5 | 40 | <.3 | 3 | 6 | 423 | 2.04 | 3 | <8 | <2 | 5 | 113 | <.5 | <3 | <3 | 30 | 1.61 | .069 | 7 | 9 | .93 | 64 | .09 | 4 | 1.72 | .17 | .25 | <2 | 17 | 3.50 |
| 165044 | 3 | 21 | <3 | 36 | <.3 | 2 | 5 | 351 | 2.00 | <2 | <8 | <2 | 4 | 95 | <.5 | <3 | <3 | 32 | 1.68 | .070 | 8 | 3 | .75 | 60 | .08 | <3 | 1.59 | .14 | .20 | 4 | 9 | 5.09 |
| 165045 | 3 | 36 | 5 | 43 | <.3 | 2 | 6 | 422 | 2.20 | <2 | <8 | <2 | 5 | 98 | <.5 | 3 | <3 | 32 | 1.61 | .071 | 8 | 1 | .80 | 45 | .09 | 9 | 1.80 | .19 | .25 | <2 | 86 | 4.17 |
| 165046 | 2 | 198 | <3 | 41 | <.3 | 3 | 10 | 522 | 2.50 | 6 | <8 | 2 | 5 | 114 | <.5 | 3 | <3 | 26 | 2.37 | .063 | 6 | 6 | .76 | 60 | .07 | 6 | 1.64 | .13 | .30 | <2 | 2264 | 3.02 |
| 165047 | 4 | 7 | <3 | 31 | <.3 | 2 | 4 | 397 | 1.95 | 3 | <8 | <2 | 4 | 96 | <.5 | <3 | <3 | 34 | 1.62 | .067 | 9 | 7 | .60 | 41 | .09 | 6 | 1.77 | .21 | .19 | <2 | 12 | 1.64 |
| 165048 | 2 | 31 | 4 | 35 | <.3 | 2 | 6 | 372 | 1.79 | 2 | <8 | <2 | 4 | 43 | <.5 | <3 | <3 | 31 | 1.87 | .064 | 7 | 4 | .65 | 29 | .09 | 5 | 1.82 | .10 | .21 | <2 | 22 | 2.00 |
| 165049 | 1 | 379 | <3 | 45 | <.3 | 121 | 38 | 454 | 5.51 | 12 | <8 | <2 | <2 | 109 | <.5 | <3 | <3 | 171 | 1.98 | .073 | 2 | 129 | 3.25 | 63 | .43 | 13 | 4.08 | .30 | .44 | <2 | 28 | 2.16 |
| 165050 | 2 | 136 | 7 | 60 | <.3 | 81 | 155 | 674 | 5.91 | 57 | <8 | <2 | <2 | 39 | <.5 | <3 | <3 | 82 | 1.96 | .046 | 1 | 78 | 2.30 | 8 | .35 | 9 | 2.10 | .11 | .04 | 2 | 58 | .61 |
| 165051 | 1 | 194 | 4 | 53 | <.3 | 119 | 42 | 665 | 6.34 | 16 | <8 | <2 | <2 | 99 | <.5 | <3 | <3 | 184 | 1.52 | .074 | 1 | 151 | 3.49 | 34 | .43 | 10 | 3.50 | .21 | .14 | <2 | 13 | 2.74 |
| RE 165051 | 1 | 191 | <3 | 51 | <.3 | 116 | 41 | 649 | 6.21 | 14 | 9 | <2 | 2 | 97 | <.5 | <3 | <3 | 179 | 1.48 | .073 | 1 | 143 | 3.42 | 33 | .41 | 9 | 3.44 | .20 | .14 | 2 | 14 | - |
| RRE 165051 | <1 | 187 | <3 | 54 | .4 | 119 | 43 | 670 | 6.34 | 16 | <8 | <2 | 2 | 97 | <.5 | 3 | <3 | 184 | 1.54 | .074 | 2 | 149 | 3.49 | 33 | .42 | 13 | 3.57 | .21 | .14 | 2 | 13 | - |
| 165052 | 1 | 206 | <3 | 49 | <.3 | 137 | 46 | 678 | 7.32 | 12 | <8 | <2 | <2 | 67 | <.5 | <3 | <3 | 201 | 1.69 | .074 | 1 | 169 | 3.96 | 49 | .45 | 7 | 4.19 | .25 | .34 | <2 | 17 | 3.06 |
| 165053 | 2 | 317 | <3 | 40 | <.3 | 95 | 47 | 577 | 5.94 | 9 | <8 | <2 | <2 | 77 | <.5 | <3 | <3 | 163 | 2.00 | .073 | 1 | 124 | 2.61 | 42 | .49 | 7 | 3.22 | .29 | .24 | <2 | 26 | 4.37 |
| 165054 | 3 | 71 | <3 | 37 | <.3 | 9 | 17 | 395 | 3.61 | 6 | 10 | <2 | <2 | 125 | <.5 | 4 | <3 | 82 | 2.02 | .157 | 6 | 9 | 1.09 | 15 | .19 | 18 | 1.36 | .11 | .07 | <2 | 21 | 2.51 |
| 165055 | 1 | 191 | 3 | 51 | <.3 | 92 | 41 | 556 | 5.15 | 22 | <8 | <2 | <2 | 59 | <.5 | <3 | <3 | 153 | 1.45 | .080 | 1 | 133 | 2.22 | 26 | .56 | 5 | 1.95 | .18 | .09 | <2 | 23 | 4.28 |
| 165056 | 1 | 213 | 7 | 58 | <.3 | 89 | 50 | 562 | 5.93 | 29 | <8 | <2 | <2 | 100 | <.5 | <3 | <3 | 163 | 1.76 | .091 | 2 | 123 | 2.06 | 28 | .46 | 11 | 2.29 | .30 | .13 | <2 | 24 | 1.78 |
| 165057 | 2 | 280 | <3 | 52 | <.3 | 96 | 32 | 554 | 5.82 | 5 | <8 | <2 | <2 | 181 | <.5 | 3 | <3 | 177 | 1.50 | .070 | 2 | 137 | 2.60 | 57 | .54 | 14 | 2.69 | .32 | .20 | 2 | 35 | 2.63 |
| 165058 | <1 | 200 | <3 | 68 | .3 | 103 | 31 | 596 | 5.69 | 3 | <8 | <2 | <2 | 84 | <.5 | 3 | <3 | 176 | 1.69 | .078 | <1 | 145 | 2.23 | 30 | .43 | 9 | 2.21 | .20 | .12 | <2 | 35 | 2.58 |
| 165059 | 2 | 239 | <3 | 78 | <.3 | 122 | 36 | 636 | 5.39 | 7 | <8 | <2 | <2 | 91 | <.5 | <3 | <3 | 171 | 1.73 | .079 | 1 | 147 | 2.42 | 30 | .50 | 7 | 2.47 | .27 | .15 | <2 | 28 | 2.61 |
| 165060 | 2 | 350 | <3 | 72 | .4 | 113 | 56 | 646 | 6.03 | 9 | <8 | <2 | <2 | 101 | <.5 | <3 | 4 | 174 | 2.05 | .083 | 1 | 149 | 2.05 | 11 | .49 | 12 | 2.40 | .31 | .05 | <2 | 78 | 3.97 |
| 165061 | 1 | 691 | <3 | 91 | .5 | 139 | 64 | 720 | 5.60 | 19 | <8 | <2 | <2 | 64 | <.5 | <3 | <3 | 197 | 1.27 | .091 | <1 | 172 | 2.88 | 32 | .41 | <3 | 2.76 | .17 | .12 | 2 | 246 | 5.79 |
| 165062 | 2 | 406 | 3 | 33 | .7 | 67 | 25 | 494 | 5.35 | 13 | <8 | <2 | <2 | 259 | <.5 | 4 | <3 | 136 | 3.22 | .075 | 1 | 101 | 1.06 | 39 | .49 | 16 | 2.44 | .53 | .07 | <2 | 38 | 1.09 |
| 165063 | 2 | 366 | <3 | 68 | .3 | 126 | 81 | 630 | 5.21 | 28 | <8 | <2 | <2 | 106 | <.5 | 3 | <3 | 180 | 1.87 | .089 | 1 | 155 | 2.23 | 9 | .51 | 9 | 2.49 | .39 | .04 | 2 | 167 | 1.88 |
| 165064 | 1 | 321 | <3 | 55 | .4 | 115 | 45 | 643 | 5.63 | 30 | 11 | <2 | <2 | 86 | <.5 | <3 | <3 | 171 | 2.22 | .079 | 1 | 142 | 2.08 | 15 | .43 | 10 | 2.17 | .26 | .07 | <2 | 123 | 3.37 |
| STANDARD DS5#AUR | 13 | 146 | 25 | 139 | <.3 | 25 | 12 | 757 | 3.02 | 19 | <8 | <2 | 3 | 47 | 5.7 | 5 | 3 | 60 | .76 | .097 | 12 | 194 | .70 | 135 | .11 | 16 | 2.03 | .04 | .14 | 6 | 493 | - |

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au** ppb | Sample kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 165065 | 1 | 388 | 5 | 44 | .9 | 93 | 34 | 440 | 5.41 | 10 | <8 | <2 | 2 | 57 | <.5 | 5 | 6 | 139 | 1.41 | .085 | 2 | 123 | 1.75 | 10 | .41 | 14 | 1.76 | .20 | .04 | <2 | 66 | 3.57 |
| 165066 | <1 | 238 | 6 | 43 | .7 | 96 | 41 | 496 | 4.98 | 21 | <8 | <2 | 2 | 54 | <.5 | 6 | 4 | 141 | 1.62 | .082 | 1 | 127 | 1.81 | 10 | .44 | 13 | 1.81 | .18 | .03 | <2 | 20 | 2.79 |
| 165067 | <1 | 281 | 4 | 45 | .3 | 101 | 38 | 460 | 4.47 | 28 | <8 | <2 | <2 | 35 | .5 | 4 | 4 | 110 | 1.45 | .076 | 2 | 89 | 1.73 | 7 | .35 | 4 | 1.96 | .17 | .02 | <2 | 58 | 3.49 |
| 165068 | 1 | 530 | 8 | 48 | 1.1 | 66 | 37 | 559 | 4.46 | 28 | 9 | <2 | 2 | 50 | .6 | 5 | <3 | 110 | 1.72 | .069 | 3 | 66 | 1.72 | 9 | .27 | 10 | 2.09 | .15 | .02 | <2 | 307 | 3.83 |
| 165069 | 4 | 16 | <3 | 39 | .3 | 15 | 6 | 429 | 2.51 | 6 | <8 | <2 | 4 | 159 | <.5 | 3 | 5 | 56 | 1.71 | .068 | 7 | 21 | 1.09 | 103 | .12 | 5 | 1.91 | .18 | .30 | <2 | 3 | 4.12 |
| 165070 | 3 | 130 | 5 | 63 | .4 | 26 | 25 | 738 | 4.21 | 7 | <8 | <2 | <2 | 51 | <.5 | 4 | <3 | 125 | 2.03 | .071 | 5 | 27 | 2.11 | 14 | .24 | 4 | 2.43 | .13 | .04 | <2 | 6 | 2.17 |
| 165071 | 1 | 90 | <3 | 59 | <.3 | 15 | 18 | 682 | 3.69 | 2 | <8 | <2 | <2 | 53 | <.5 | 7 | <3 | 105 | 1.53 | .069 | 4 | 19 | 1.91 | 12 | .22 | 7 | 2.24 | .10 | .04 | <2 | 5 | 1.58 |
| 165072 | 1 | 168 | 3 | 68 | .4 | 104 | 32 | 599 | 6.00 | 7 | <8 | <2 | <2 | 74 | <.5 | 6 | 4 | 179 | 1.28 | .082 | 1 | 143 | 2.40 | 31 | .42 | 8 | 2.15 | .17 | .13 | 3 | 18 | 2.49 |
| 165090 | 3 | 212 | <3 | 29 | <.3 | 83 | 32 | 305 | 5.36 | 2 | <8 | <2 | <2 | 60 | <.5 | 4 | 6 | 154 | 1.60 | .073 | 1 | 116 | 2.16 | 22 | .26 | <3 | 2.95 | .26 | .31 | <2 | 6 | 5.56 |
| 165091 | 1 | 170 | 7 | 20 | .4 | 73 | 24 | 236 | 4.73 | 5 | <8 | <2 | <2 | 45 | <.5 | 6 | <3 | 134 | 1.17 | .109 | 2 | 112 | 1.21 | 18 | .33 | 9 | 1.55 | .16 | .15 | <2 | 13 | 2.60 |
| 165092 | 2 | 312 | <3 | 34 | <.3 | 88 | 39 | 337 | 4.60 | 16 | 10 | <2 | <2 | 77 | <.5 | 6 | <3 | 112 | 2.29 | .077 | 2 | 81 | 1.27 | 15 | .36 | 7 | 2.35 | .30 | .13 | <2 | 116 | 4.05 |
| 165093 | <1 | 730 | <3 | 61 | .6 | 118 | 113 | 589 | 9.90 | 69 | 8 | <2 | <2 | 43 | <.5 | <3 | 3 | 101 | 2.54 | .074 | 2 | 83 | 1.43 | 15 | .31 | 10 | 1.55 | .16 | .15 | <2 | 101 | 1.38 |
| RE 165093 | <1 | 708 | <3 | 59 | .5 | 115 | 110 | 573 | 9.66 | 68 | <8 | <2 | <2 | 42 | <.5 | <3 | 9 | 99 | 2.47 | .073 | 2 | 77 | 1.39 | 14 | .30 | 5 | 1.47 | .16 | .14 | <2 | 111 | - |
| RRE 165093 | <1 | 679 | 3 | 61 | .9 | 111 | 89 | 551 | 9.28 | 60 | 8 | <2 | 2 | 41 | <.5 | 5 | 4 | 96 | 2.35 | .074 | 2 | 76 | 1.36 | 14 | .29 | 12 | 1.45 | .15 | .14 | <2 | 115 | - |
| 165094 | 1 | 433 | 3 | 41 | .3 | 96 | 36 | 416 | 4.97 | 12 | <8 | <2 | <2 | 96 | <.5 | 5 | 4 | 142 | 1.83 | .084 | 2 | 118 | 1.59 | 27 | .34 | 7 | 2.16 | .26 | .27 | <2 | 71 | 1.82 |
| 165095 | 1 | 41 | 3 | 38 | <.3 | 84 | 11 | 423 | 5.15 | 3 | <8 | <2 | <2 | 64 | <.5 | 4 | <3 | 142 | 1.73 | .082 | 2 | 125 | 1.60 | 25 | .31 | <3 | 1.95 | .22 | .23 | <2 | 62 | 5.23 |
| STANDARD DS5/AU-R | 12 | 140 | 23 | 130 | .3 | 26 | 12 | 744 | 3.00 | 17 | <8 | <2 | 2 | 49 | 5.7 | 4 | 6 | 59 | .75 | .094 | 11 | 185 | .68 | 138 | .10 | 15 | 1.98 | .04 | .14 | 6 | 484 | - |

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

ME YTI LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

# GEOCHEMICAL ANALYSIS CERTIFICATE

## Rio Minerals Inc. Canada File # A403782 Page 1

910 - 475 Howe St., Vancouver BC V6C 2B3 Submitted by: Andrew Molnar

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au** ppb | Sample kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SI | <1 | 1 | 3 | 1 | <.3 | 1 | <1 | 2 | .07 | <2 | <8 | <2 | <2 | 3 | <.5 | <3 | <3 | <1 | .10 | <.001 | <1 | <1 | <.01 | 3 | <.01 | 3 | .02 | .47 | <.01 | <2 | <2 | - |
| 165073 | 2 | 857 | 7 | 34 | .3 | 102 | 27 | 435 | 5.16 | 4 | <8 | <2 | <2 | 69 | <.5 | <3 | <3 | 151 | 1.44 | .074 | 2 | 149 | 1.96 | 44 | .44 | 6 | 2.44 | .24 | .57 | <2 | 188 | 4.82 |
| 165074 | <1 | 116 | <3 | 31 | <.3 | 110 | 44 | 460 | 5.92 | 4 | <8 | <2 | <2 | 58 | <.5 | <3 | <3 | 167 | 1.36 | .076 | 2 | 152 | 2.29 | 40 | .50 | <3 | 2.40 | .20 | .67 | <2 | 19 | 5.66 |
| 165075 | 1 | 333 | <3 | 38 | <.3 | 87 | 20 | 600 | 5.11 | 5 | <8 | <2 | <2 | 29 | <.5 | 4 | <3 | 158 | 1.22 | .080 | 1 | 145 | 2.22 | 61 | .41 | 6 | 2.26 | .14 | .62 | 2 | 28 | 3.58 |
| 165076 | 3 | 157 | <3 | 25 | <.3 | 90 | 27 | 492 | 5.30 | 6 | <8 | <2 | <2 | 50 | <.5 | <3 | <3 | 160 | 1.78 | .079 | 1 | 134 | 2.10 | 18 | .46 | <3 | 2.50 | .30 | .26 | <2 | 27 | 4.12 |
| 165077 | <1 | 199 | 8 | 59 | <.3 | 104 | 38 | 708 | 7.12 | 6 | <8 | <2 | <2 | 47 | <.5 | <3 | <3 | 209 | 1.53 | .076 | 2 | 170 | 3.86 | 24 | .49 | 5 | 3.91 | .22 | .53 | <2 | 13 | 5.05 |
| 165078 | 1 | 303 | 3 | 43 | <.3 | 87 | 35 | 647 | 5.43 | 14 | <8 | <2 | <2 | 35 | <.5 | 3 | <3 | 177 | 1.77 | .076 | 1 | 140 | 2.86 | 11 | .48 | 4 | 2.68 | .11 | .13 | <2 | 17 | 2.71 |
| 165079 | 1 | 257 | <3 | 48 | <.3 | 103 | 47 | 675 | 6.48 | 4 | <8 | <2 | <2 | 104 | <.5 | <3 | <3 | 196 | 1.24 | .077 | 2 | 150 | 3.06 | 30 | .51 | 3 | 2.61 | .14 | .19 | 2 | 18 | 2.24 |
| 165080 | <1 | 216 | 3 | 36 | <.3 | 94 | 44 | 506 | 4.74 | 5 | <8 | <2 | <2 | 63 | <.5 | 3 | <3 | 120 | 1.89 | .063 | 1 | 111 | 2.72 | 10 | .46 | 4 | 3.11 | .16 | .07 | <2 | 20 | 3.52 |
| 165081 | 2 | 150 | 7 | 44 | <.3 | 27 | 16 | 639 | 3.60 | 11 | <8 | <2 | <2 | 66 | <.5 | 4 | <3 | 111 | 3.24 | .063 | 4 | 36 | 1.87 | 14 | .32 | <3 | 2.28 | .09 | .06 | <2 | 17 | 1.87 |
| 165082 | 2 | 87 | 3 | 66 | <.3 | 13 | 18 | 762 | 3.70 | 6 | <8 | <2 | <2 | 37 | <.5 | <3 | <3 | 106 | 1.71 | .066 | 4 | 20 | 2.03 | 9 | .26 | <3 | 2.18 | .05 | .06 | <2 | 2 | 2.00 |
| 165083 | 1 | 106 | <3 | 57 | <.3 | 18 | 18 | 823 | 4.65 | 7 | <8 | <2 | <2 | 61 | <.5 | <3 | <3 | 144 | 2.44 | .067 | 6 | 31 | 2.18 | 22 | .25 | <3 | 2.47 | .15 | .06 | <2 | 9 | 1.94 |
| 165084 | 2 | 332 | <3 | 57 | .5 | 105 | 36 | 559 | 4.95 | 46 | <8 | <2 | <2 | 71 | .5 | 3 | <3 | 138 | 1.48 | .080 | 2 | 127 | 2.55 | 48 | .42 | 4 | 2.76 | .26 | .29 | 2 | 44 | 4.74 |
| 165085 | 1 | 247 | 4 | 58 | .4 | 81 | 33 | 639 | 5.39 | 28 | <8 | <2 | <2 | 111 | <.5 | 5 | <3 | 138 | 1.78 | .117 | 2 | 97 | 2.62 | 71 | .39 | 3 | 3.14 | .33 | .36 | 2 | 50 | 3.83 |
| 165086 | 20 | 707 | 14 | 47 | .3 | 58 | 83 | 392 | 5.19 | 87 | <8 | <2 | <2 | 44 | <.5 | <3 | <3 | 75 | 1.56 | .151 | 4 | 14 | 1.32 | 22 | .18 | 3 | 1.41 | .13 | .15 | <2 | 233 | 4.74 |
| 165087 | 13 | 30 | <3 | 36 | <.3 | 102 | 82 | 417 | 6.09 | 13 | <8 | <2 | <2 | 40 | <.5 | 3 | <3 | 134 | 2.33 | .079 | 2 | 129 | 2.33 | 25 | .47 | 4 | 2.67 | .22 | .24 | <2 | 156 | 2.31 |
| 165088 | 1 | 203 | <3 | 48 | <.3 | 123 | 50 | 681 | 7.04 | 4 | <8 | <2 | <2 | 65 | <.5 | <3 | <3 | 174 | 1.70 | .076 | 2 | 157 | 3.32 | 59 | .51 | 5 | 3.66 | .24 | .45 | <2 | 12 | 3.34 |
| 165089 | <1 | 113 | 3 | 153 | <.3 | 151 | 35 | 1254 | 7.07 | 13 | <8 | <2 | <2 | 26 | <.5 | 3 | <3 | 249 | 1.85 | .087 | 1 | 226 | 5.08 | 83 | .62 | 7 | 4.57 | .07 | .71 | 3 | 19 | 2.27 |
| RE 165089 | 2 | 116 | <3 | 154 | <.3 | 152 | 36 | 1233 | 7.04 | 12 | <8 | <2 | <2 | 26 | <.5 | <3 | <3 | 250 | 1.84 | .085 | 1 | 222 | 5.08 | 83 | .62 | 4 | 4.57 | .07 | .71 | <2 | 16 | - |
| RRE 165089 | 1 | 92 | 6 | 156 | <.3 | 152 | 35 | 1287 | 7.26 | 10 | <8 | <2 | <2 | 26 | <.5 | <3 | <3 | 256 | 1.76 | .085 | <1 | 237 | 5.17 | 90 | .62 | <3 | 4.79 | .05 | .77 | 4 | 11 | - |
| 165096 | 2 | 91 | 7 | 46 | <.3 | 85 | 31 | 670 | 6.12 | 10 | <8 | <2 | <2 | 27 | <.5 | 4 | <3 | 185 | 3.02 | .084 | 3 | 146 | 2.23 | 11 | .51 | 3 | 1.88 | .10 | .10 | <2 | 249 | 2.45 |
| 165097 | <1 | 150 | <3 | 42 | <.3 | 95 | 20 | 486 | 5.42 | 6 | <8 | <2 | <2 | 46 | <.5 | 4 | <3 | 168 | 2.05 | .076 | 2 | 126 | 2.20 | 15 | .45 | 4 | 2.57 | .19 | .16 | <2 | 25 | 3.56 |
| 165098 | 2 | 122 | 6 | 35 | <.3 | 81 | 24 | 408 | 5.25 | 5 | <8 | <2 | <2 | 55 | <.5 | <3 | <3 | 162 | 1.60 | .079 | 2 | 109 | 1.99 | 22 | .43 | 3 | 2.41 | .30 | .24 | <2 | 13 | 2.27 |
| 165099 | 1 | 344 | <3 | 31 | <.3 | 128 | 65 | 404 | 6.10 | 8 | <8 | <2 | <2 | 66 | <.5 | <3 | <3 | 142 | 1.43 | .081 | 2 | 106 | 2.25 | 24 | .40 | 5 | 2.14 | .20 | .30 | <2 | 37 | 5.91 |
| 165100 | <1 | 661 | <3 | 30 | .5 | 111 | 49 | 374 | 5.93 | 6 | <8 | <2 | <2 | 36 | <.5 | 5 | <3 | 155 | 1.11 | .083 | 2 | 109 | 2.20 | 44 | .38 | 7 | 1.86 | .16 | .32 | <2 | 58 | 5.83 |
| 165101 | <1 | 197 | <3 | 55 | <.3 | 107 | 33 | 542 | 6.82 | 3 | <8 | <2 | <2 | 19 | <.5 | <3 | <3 | 200 | .92 | .064 | 1 | 162 | 3.68 | 51 | .46 | <3 | 2.93 | .09 | .57 | 2 | 35 | 1.82 |
| 165102 | <1 | 315 | 3 | 44 | <.3 | 100 | 71 | 428 | 8.58 | 9 | <8 | <2 | <2 | 29 | <.5 | <3 | <3 | 190 | 1.15 | .075 | 1 | 140 | 2.82 | 36 | .44 | 3 | 2.28 | .12 | .40 | <2 | 87 | 4.79 |
| 165103 | 1 | 165 | <3 | 48 | <.3 | 105 | 33 | 416 | 5.83 | 4 | <8 | <2 | <2 | 47 | .5 | 5 | <3 | 174 | 1.51 | .078 | 2 | 141 | 3.46 | 24 | .42 | <3 | 3.46 | .19 | .26 | 2 | 9 | 2.08 |
| 165104 | <1 | 268 | 3 | 44 | <.3 | 94 | 38 | 372 | 5.21 | 10 | <8 | <2 | <2 | 53 | <.5 | <3 | <3 | 144 | 1.69 | .067 | 2 | 132 | 2.10 | 9 | .41 | <3 | 2.52 | .20 | .06 | <2 | 39 | 3.55 |
| 165105 | 1 | 286 | <3 | 38 | .3 | 73 | 29 | 293 | 4.58 | 8 | <8 | <2 | <2 | 55 | <.5 | <3 | <3 | 141 | 1.87 | .070 | 2 | 111 | 1.57 | 14 | .39 | <3 | 2.65 | .30 | .08 | <2 | 40 | 3.86 |
| 165106 | 2 | 280 | 5 | 50 | .3 | 85 | 30 | 359 | 5.51 | 8 | <8 | <2 | <2 | 58 | <.5 | 3 | <3 | 161 | 1.81 | .070 | 2 | 140 | 2.01 | 13 | .43 | 4 | 2.78 | .28 | .09 | 3 | 40 | 3.57 |
| 165107 | 1 | 252 | <3 | 29 | <.3 | 66 | 30 | 276 | 4.93 | 4 | <8 | <2 | <2 | 55 | <.5 | 3 | <3 | 145 | 1.89 | .069 | 2 | 125 | 1.28 | 10 | .42 | 3 | 2.28 | .29 | .05 | <2 | 40 | 5.99 |
| 165108 | 2 | 167 | 7 | 52 | <.3 | 96 | 44 | 387 | 6.52 | 5 | <8 | <2 | <2 | 105 | <.5 | 3 | <3 | 220 | 1.48 | .047 | 1 | 172 | 3.16 | 99 | .39 | <3 | 3.51 | .23 | .93 | 2 | 27 | 2.55 |
| 165109 | 1 | 126 | 7 | 72 | <.3 | 77 | 35 | 451 | 8.20 | 14 | 8 | <2 | <2 | 97 | <.5 | <3 | <3 | 129 | 1.67 | .049 | 2 | 125 | 2.26 | 43 | .34 | 4 | 2.41 | .25 | .33 | <2 | 47 | 6.17 |
| 165110 | 2 | 21 | <3 | 27 | <.3 | 13 | 6 | 237 | 1.70 | 2 | <8 | <2 | 3 | 115 | <.5 | <3 | <3 | 45 | 1.12 | .066 | 6 | 21 | .72 | 38 | .14 | <3 | 1.53 | .20 | .17 | <2 | 7 | 2.23 |
| STANDARD DS5/AU-R | 12 | 139 | 26 | 131 | .3 | 25 | 12 | 746 | 2.96 | 17 | <8 | <2 | 3 | 46 | 5.5 | 4 | 6 | 60 | .74 | .091 | 12 | 190 | .68 | 137 | .11 | 15 | 1.97 | .04 | .13 | 6 | 478 | - |

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU** GROUP 3B - 30.00 GM SAMPLE ANALYSIS BY FA/ICP.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

**Data** l **FA** ____ **DATE RECEIVED:** JUL 23 2004 **DATE REPORT MAILED:** Aug. 6/04

Clarence Leong

ACME ANALYTICAL

**Rio Minerals Inc. Canada FILE # A403782**

ACME ANALYTICAL

| SAMPLE# | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Au** | Sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppb | kg |
| 165111 | <1 | 88 | <3 | 28 | <.3 | 3 | 4 | 222 | 1.68 | <2 | <8 | <2 | 4 | 112 | <.5 | <3 | <3 | 29 | .81 | .063 | 7 | 4 | .54 | 24 | .09 | <3 | 1.24 | .16 | .08 | <2 | 68 | 4.69 |
| 165112 | 3 | 6 | <3 | 21 | <.3 | 2 | 4 | 227 | 1.23 | 3 | <8 | <2 | 3 | 353 | <.5 | <3 | <3 | 24 | 1.51 | .060 | 6 | <1 | .54 | 35 | .08 | <3 | 2.00 | .25 | .24 | <2 | 2 | 4.38 |
| 165113 | 5 | 43 | <3 | 30 | <.3 | 24 | 19 | 329 | 2.77 | 2 | <8 | <2 | 3 | 201 | <.5 | <3 | <3 | 77 | 1.58 | .069 | 5 | 55 | .97 | 66 | .23 | <3 | 2.42 | .35 | .62 | 2 | 10 | 2.15 |
| 165114 | 1 | 250 | <3 | 36 | <.3 | 93 | 26 | 289 | 4.68 | 5 | <8 | <2 | <2 | 43 | <.5 | <3 | <3 | 140 | 1.12 | .068 | 2 | 151 | 2.22 | 13 | .33 | 4 | 2.22 | .15 | .11 | 2 | 39 | 4.89 |
| 165115 | <1 | 194 | <3 | 40 | <.3 | 103 | 33 | 322 | 5.47 | 2 | <8 | <2 | <2 | 81 | <.5 | <3 | <3 | 170 | 1.46 | .072 | 2 | 159 | 2.46 | 54 | .39 | <3 | 2.68 | .23 | .25 | <2 | 20 | 3.18 |
| 165116 | <1 | 203 | <3 | 49 | <.3 | 104 | 33 | 308 | 5.31 | 5 | <8 | <2 | <2 | 179 | <.5 | <3 | <3 | 177 | 1.49 | .072 | 2 | 156 | 2.79 | 119 | .39 | 3 | 2.75 | .33 | .22 | <2 | 10 | 2.80 |
| 165117 | <1 | 289 | <3 | 66 | .4 | 124 | 44 | 625 | 5.87 | 30 | <8 | <2 | <2 | 35 | <.5 | <3 | <3 | 142 | 1.21 | .072 | 1 | 171 | 3.18 | 8 | .33 | 4 | 3.02 | .22 | .04 | 2 | 52 | 1.54 |
| 165118 | <1 | 122 | 3 | 79 | <.3 | 100 | 34 | 843 | 9.93 | 269 | <8 | <2 | <2 | 33 | <.5 | <3 | <3 | 195 | 1.64 | .071 | 1 | 184 | 3.83 | 76 | .35 | <3 | 3.58 | .12 | .70 | 4 | 102 | 1.27 |
| 165119 | <1 | 288 | <3 | 46 | <.3 | 95 | 34 | 434 | 5.50 | 13 | <8 | <2 | <2 | 68 | <.5 | <3 | <3 | 177 | 1.71 | .072 | 2 | 170 | 2.35 | 58 | .42 | <3 | 2.97 | .31 | .52 | <2 | 28 | 5.32 |
| 165120 | <1 | 321 | <3 | 46 | .3 | 95 | 37 | 460 | 5.18 | 11 | <8 | <2 | <2 | 74 | .5 | <3 | <3 | 164 | 1.61 | .075 | 2 | 161 | 2.38 | 72 | .40 | <3 | 2.92 | .27 | .64 | <2 | 36 | 2.48 |
| 165121 | <1 | 318 | <3 | 65 | <.3 | 88 | 32 | 819 | 18.75 | 981 | <8 | <2 | <2 | 28 | <.5 | <3 | 6 | 160 | .95 | .066 | 1 | 135 | 2.88 | 30 | .16 | <3 | 2.60 | .06 | .14 | 5 | 582 | 1.87 |
| 165122 | <1 | 306 | <3 | 37 | <.3 | 98 | 39 | 359 | 4.97 | 25 | <8 | <2 | <2 | 68 | .5 | <3 | <3 | 159 | 1.33 | .071 | 2 | 153 | 2.34 | 79 | .35 | <3 | 2.75 | .23 | .60 | <2 | 62 | 3.49 |
| 165123 | <1 | 231 | 3 | 51 | .3 | 97 | 34 | 493 | 5.20 | 22 | <8 | <2 | <2 | 127 | <.5 | 3 | <3 | 161 | 1.24 | .077 | 2 | 168 | 2.27 | 34 | .42 | 3 | 2.03 | .16 | .23 | <2 | 43 | 1.75 |
| 165124 | <1 | 203 | <3 | 63 | <.3 | 126 | 35 | 401 | 6.12 | <2 | <8 | <2 | <2 | 32 | <.5 | <3 | <3 | 210 | .88 | .071 | 2 | 189 | 3.33 | 86 | .44 | <3 | 2.88 | .11 | 1.15 | <2 | 6 | 1.90 |
| 165125 | <1 | 292 | 4 | 54 | <.3 | 112 | 45 | 376 | 5.63 | 7 | <8 | <2 | <2 | 40 | <.5 | <3 | <3 | 191 | 1.04 | .076 | 2 | 165 | 2.75 | 59 | .36 | <3 | 2.48 | .17 | .66 | <2 | 29 | 2.22 |
| 165126 | 1 | 234 | 6 | 43 | <.3 | 106 | 39 | 350 | 5.56 | 2 | <8 | <2 | <2 | 52 | <.5 | 4 | <3 | 164 | 1.60 | .070 | 2 | 155 | 2.67 | 48 | .32 | 6 | 3.28 | .27 | .56 | 2 | 32 | 3.47 |
| 165127 | <1 | 264 | 8 | 36 | <.3 | 98 | 44 | 296 | 5.34 | 7 | <8 | <2 | <2 | 61 | <.5 | <3 | <3 | 164 | 1.54 | .073 | 1 | 136 | 2.28 | 39 | .34 | <3 | 2.84 | .25 | .44 | <2 | 68 | 2.75 |
| 165128 | <1 | 149 | <3 | 49 | <.3 | 114 | 36 | 364 | 5.92 | <2 | <8 | <2 | <2 | 51 | <.5 | <3 | <3 | 199 | 1.32 | .070 | 2 | 173 | 3.24 | 76 | .37 | <3 | 3.42 | .21 | 1.02 | <2 | 16 | 3.01 |
| 165129 | 2 | 336 | <3 | 42 | .3 | 117 | 44 | 333 | 5.04 | 5 | <8 | <2 | <2 | 21 | <.5 | <3 | <3 | 166 | .98 | .073 | 2 | 152 | 2.55 | 67 | .40 | <3 | 2.26 | .13 | .58 | <2 | 30 | 4.87 |
| 165130 | <1 | 275 | 3 | 34 | <.3 | 95 | 41 | 268 | 4.83 | 4 | <8 | <2 | <2 | 54 | <.5 | 3 | <3 | 152 | 1.41 | .070 | 2 | 133 | 2.06 | 27 | .30 | 3 | 2.64 | .23 | .22 | <2 | 33 | 2.18 |
| RE 165130 | <1 | 278 | 4 | 35 | <.3 | 97 | 41 | 273 | 4.92 | 4 | <8 | <2 | <2 | 55 | <.5 | <3 | <3 | 155 | 1.44 | .072 | 2 | 136 | 2.10 | 27 | .31 | <3 | 2.67 | .24 | .22 | <2 | 28 | - |
| RRE 165130 | 1 | 286 | <3 | 39 | <.3 | 96 | 41 | 284 | 4.98 | 3 | <8 | <2 | <2 | 57 | <.5 | <3 | <3 | 160 | 1.53 | .072 | 2 | 139 | 2.08 | 27 | .33 | <3 | 2.77 | .26 | .21 | 2 | 31 | - |
| 165131 | <1 | 82 | 3 | 47 | <.3 | 119 | 37 | 492 | 7.06 | 30 | <8 | <2 | <2 | 48 | <.5 | 3 | <3 | 185 | 1.12 | .074 | 2 | 182 | 3.14 | 83 | .46 | <3 | 2.87 | .16 | 1.18 | <2 | 38 | 3.35 |
| 165132 | <1 | 52 | 3 | 55 | <.3 | 120 | 42 | 610 | 5.99 | 6 | <8 | <2 | <2 | 67 | <.5 | <3 | <3 | 178 | 1.51 | .074 | 2 | 158 | 3.23 | 125 | .52 | 3 | 3.30 | .21 | 1.04 | <2 | 10 | 2.94 |
| 165133 | 1 | 286 | <3 | 19 | <.3 | 69 | 38 | 228 | 4.32 | 9 | <8 | <2 | <2 | 55 | <.5 | <3 | <3 | 99 | 1.32 | .066 | 1 | 89 | 1.16 | 20 | .35 | <3 | 1.68 | .25 | .15 | <2 | 49 | 2.62 |
| 165134 | 1 | 28 | 6 | 15 | <.3 | 3 | 4 | 1064 | .68 | 12 | <8 | <2 | <2 | 324 | .6 | <3 | <3 | 2 | 34.09 | .011 | <1 | 10 | .06 | 1 | .01 | <3 | .02 | <.01 | <.01 | <2 | 2 | .75 |
| 165135 | 2 | 775 | <3 | 43 | <.3 | 15 | 66 | 1055 | 26.33 | 172 | <8 | <2 | <2 | 8 | <.5 | <3 | <3 | 12 | 9.30 | .020 | 2 | 4 | .11 | 3 | .01 | <3 | .07 | .01 | .01 | <2 | 314 | 1.18 |
| 165136 | <1 | 2496 | <3 | 131 | 1.0 | 36 | 12 | 780 | 31.92 | 103 | <8 | <2 | <2 | 11 | .8 | <3 | 3 | 10 | 3.68 | .006 | 2 | 8 | .08 | 4 | .02 | <3 | .07 | .01 | .01 | 2 | 2304 | .55 |
| 165137 | 4 | 758 | <3 | 55 | .6 | 103 | 36 | 506 | 7.45 | 9 | <8 | <2 | <2 | 96 | <.5 | 3 | <3 | 101 | 1.65 | .066 | 3 | 112 | 1.97 | 43 | .37 | 3 | 2.16 | .29 | .36 | <2 | 4823 | 2.79 |
| 165138 | 4 | 31 | 4 | 24 | <.3 | 35 | 31 | 267 | 2.82 | 10 | <8 | <2 | 2 | 52 | <.5 | <3 | <3 | 69 | 1.41 | .076 | 4 | 43 | .84 | 38 | .25 | <3 | 1.35 | .22 | .22 | <2 | 43 | 6.63 |
| 165139 | 4 | 10 | <3 | 23 | <.3 | 5 | 9 | 222 | 2.26 | 4 | <8 | <2 | 4 | 37 | <.5 | <3 | <3 | 37 | 1.05 | .072 | 7 | 2 | .58 | 37 | .09 | <3 | 1.05 | .15 | .14 | <2 | 101 | 1.78 |
| 165140 | <1 | 36 | <3 | 23 | <.3 | 5 | 14 | 265 | 4.15 | 23 | <8 | <2 | <2 | 112 | <.5 | 3 | <3 | 102 | 1.55 | .200 | 4 | 9 | .70 | 24 | .15 | <3 | 1.50 | .33 | .10 | <2 | 8 | 2.87 |
| 165141 | 1 | 49 | 3 | 19 | <.3 | 11 | 17 | 225 | 4.18 | 9 | <8 | <2 | <2 | 103 | <.5 | <3 | <3 | 103 | 1.47 | .153 | 6 | 22 | .71 | 47 | .19 | <3 | 1.36 | .19 | .19 | <2 | 15 | 2.73 |
| 165142 | <1 | 520 | 8 | 46 | .3 | 39 | 24 | 435 | 6.09 | 16 | <8 | <2 | <2 | 97 | <.5 | 3 | <3 | 181 | 1.83 | .147 | 4 | 53 | 2.10 | 91 | .29 | <3 | 2.31 | .19 | .56 | <2 | 73 | 2.56 |
| STANDARD DS5/AU-R | 12 | 140 | 26 | 131 | <.3 | 25 | 12 | 738 | 3.02 | 19 | <8 | <2 | 3 | 46 | 5.4 | 6 | 6 | 59 | .74 | .089 | 12 | 188 | .67 | 135 | .10 | 15 | 2.00 | .04 | .14 | 6 | 488 | - |

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data___ FA ___

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au** ppb | Sample kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 165151 | 2 | 115 | <3 | 28 | <.3 | 75 | 38 | 292 | 4.87 | 13 | <8 | <2 | <2 | 56 | <.5 | <3 | <3 | 121 | .88 | .080 | 1 | 109 | 1.75 | 22 | .31 | 5 | 1.86 | .13 | .13 | <2 | 31 | 3.22 |
| 165152 | 1 | 185 | <3 | 36 | .4 | 75 | 32 | 405 | 5.49 | 12 | <8 | <2 | <2 | 44 | <.5 | <3 | <3 | 162 | 1.12 | .055 | 1 | 143 | 2.61 | 34 | .29 | 7 | 2.79 | .18 | .29 | <2 | 29 | 4.67 |
| 165153 | 3 | 233 | <3 | 37 | <.3 | 86 | 28 | 350 | 4.71 | 16 | <8 | <2 | <2 | 47 | <.5 | <3 | 4 | 133 | 1.47 | .052 | 1 | 123 | 2.11 | 49 | .37 | 7 | 2.65 | .24 | .40 | <2 | 35 | 3.71 |
| 165154 | 3 | 286 | <3 | 17 | .5 | 15 | 32 | 793 | 10.54 | 76 | <8 | <2 | <2 | 183 | .6 | <3 | <3 | 16 | 19.74 | .020 | 1 | 18 | .18 | 2 | .08 | 11 | .17 | .01 | .01 | <2 | 257 | 1.70 |
| 165155 | <1 | 1433 | <3 | 86 | .3 | 31 | 22 | 683 | 34.99 | 60 | <8 | <2 | <2 | 7 | <.5 | <3 | <3 | 13 | 2.47 | .009 | 1 | 9 | .06 | 4 | .01 | 34 | .07 | .01 | .01 | <2 | 512 | 2.08 |
| 165156 | <1 | 1243 | <3 | 47 | .9 | 99 | 59 | 414 | 9.02 | 26 | <8 | <2 | <2 | 66 | .5 | <3 | <3 | 114 | 1.82 | .062 | 2 | 106 | 1.49 | 27 | .34 | 10 | 1.84 | .26 | .22 | <2 | 279 | 4.27 |
| 165157 | 1 | 32 | <3 | 35 | <.3 | 100 | 34 | 390 | 4.50 | 11 | <8 | <2 | <2 | 65 | <.5 | <3 | <3 | 129 | 1.70 | .068 | 1 | 131 | 1.77 | 64 | .33 | 4 | 2.67 | .31 | .51 | <2 | 15 | 3.89 |
| 165158 | <1 | 58 | <3 | 41 | .4 | 106 | 28 | 364 | 4.74 | 14 | <8 | <2 | <2 | 67 | <.5 | <3 | <3 | 129 | 1.77 | .070 | 1 | 131 | 1.53 | 66 | .40 | 7 | 2.13 | .26 | .46 | <2 | 26 | 4.19 |
| 165159 | 4 | 18 | 3 | 29 | <.3 | 6 | 12 | 293 | 2.33 | 6 | <8 | <2 | 5 | 18 | <.5 | <3 | <3 | 47 | 1.34 | .082 | 8 | 12 | .78 | 28 | .11 | 3 | .94 | .08 | .14 | <2 | 24 | 2.75 |
| 165160 | 6 | 67 | <3 | 23 | <.3 | 9 | 17 | 225 | 2.64 | 5 | <8 | <2 | 5 | 20 | <.5 | <3 | <3 | 40 | 1.36 | .080 | 7 | 6 | .55 | 17 | .10 | 5 | .71 | .09 | .10 | <2 | 111 | 2.56 |
| 165161 | 3 | 24 | <3 | 36 | <.3 | 4 | 7 | 301 | 2.34 | 4 | <8 | <2 | 4 | 46 | <.5 | <3 | <3 | 46 | 1.08 | .069 | 6 | 9 | .79 | 116 | .10 | <3 | 1.35 | .14 | .36 | <2 | 26 | 2.42 |
| 165162 | 2 | 48 | <3 | 33 | <.3 | 7 | 7 | 299 | 2.26 | 4 | <8 | <2 | 4 | 107 | <.5 | <3 | <3 | 47 | 1.14 | .066 | 7 | 16 | .66 | 82 | .12 | <3 | 1.73 | .26 | .32 | 2 | 8 | 2.83 |
| 165163 | <1 | 316 | <3 | 56 | <.3 | 100 | 42 | 406 | 5.09 | 15 | <8 | <2 | <2 | 39 | <.5 | <3 | <3 | 139 | 1.18 | .063 | 1 | 119 | 2.94 | 37 | .29 | 8 | 3.04 | .17 | .27 | <2 | 20 | 2.06 |
| 165164 | 1 | 286 | 3 | 29 | .3 | 66 | 29 | 273 | 4.61 | 14 | <8 | <2 | <2 | 55 | <.5 | <3 | <3 | 122 | 1.60 | .108 | 4 | 67 | .96 | 13 | .37 | 8 | 1.50 | .20 | .05 | <2 | 36 | 1.86 |
| 165165 | <1 | 202 | <3 | 76 | .5 | 106 | 38 | 657 | 6.14 | 14 | <8 | <2 | <2 | 50 | <.5 | <3 | <3 | 193 | 1.42 | .080 | 1 | 172 | 3.21 | 83 | .47 | 5 | 3.38 | .17 | .35 | <2 | 17 | 3.75 |
| 165166 | 3 | 16 | <3 | 20 | <.3 | 6 | 14 | 239 | 4.16 | 7 | <8 | <2 | <2 | 154 | <.5 | <3 | <3 | 118 | 1.85 | .154 | 6 | 14 | .63 | 46 | .18 | 7 | 1.82 | .25 | .12 | <2 | 6 | 4.08 |
| 165167 | 1 | 327 | <3 | 34 | <.3 | 105 | 53 | 355 | 5.40 | 26 | <8 | <2 | <2 | 50 | <.5 | <3 | <3 | 139 | 1.32 | .074 | 1 | 123 | 1.91 | 30 | .38 | 4 | 2.17 | .20 | .24 | <2 | 91 | 6.76 |
| 165168 | 1 | 328 | 4 | 43 | <.3 | 117 | 39 | 436 | 5.99 | 51 | <8 | <2 | <2 | 51 | <.5 | 3 | <3 | 158 | 1.35 | .077 | 1 | 143 | 2.40 | 27 | .42 | 7 | 2.48 | .18 | .22 | <2 | 98 | 2.17 |
| RE 165168 | <1 | 325 | <3 | 41 | .4 | 121 | 40 | 437 | 6.03 | 53 | <8 | <2 | <2 | 51 | <.5 | 3 | <3 | 158 | 1.35 | .078 | 2 | 138 | 2.42 | 27 | .41 | 9 | 2.46 | .18 | .23 | <2 | 85 | - |
| RRE 165168 | <1 | 334 | <3 | 41 | <.3 | 116 | 39 | 422 | 6.03 | 51 | <8 | <2 | <2 | 52 | .5 | <3 | <3 | 153 | 1.30 | .078 | 1 | 139 | 2.37 | 26 | .39 | 7 | 2.41 | .17 | .22 | <2 | 94 | - |
| 165169 | 1 | 291 | <3 | 44 | .3 | 102 | 40 | 430 | 5.23 | 14 | <8 | <2 | <2 | 37 | <.5 | <3 | <3 | 148 | 1.30 | .074 | 2 | 128 | 2.32 | 69 | .41 | 5 | 2.26 | .17 | .50 | <2 | 31 | 2.29 |
| 165170 | 3 | 250 | <3 | 47 | <.3 | 117 | 46 | 412 | 5.69 | 18 | <8 | <2 | <2 | 67 | <.5 | <3 | <3 | 152 | 1.53 | .076 | 1 | 138 | 2.25 | 99 | .42 | 10 | 2.62 | .27 | .72 | <2 | 53 | 3.86 |
| 165171 | 1 | 210 | <3 | 58 | <.3 | 118 | 37 | 505 | 4.90 | 16 | <8 | <2 | <2 | 60 | <.5 | <3 | <3 | 158 | 1.80 | .077 | 1 | 141 | 2.21 | 71 | .40 | 6 | 2.32 | .19 | .50 | <2 | 31 | 4.07 |
| 165172 | <1 | 263 | 5 | 52 | <.3 | 108 | 45 | 419 | 5.62 | 13 | <8 | <2 | <2 | 69 | <.5 | <3 | <3 | 144 | 1.43 | .071 | 2 | 128 | 2.49 | 76 | .42 | 8 | 2.54 | .19 | .58 | <2 | 52 | 2.53 |
| 165173 | <1 | 189 | <3 | 50 | <.3 | 97 | 39 | 447 | 4.67 | 9 | <8 | <2 | <2 | 59 | <.5 | <3 | <3 | 149 | 1.56 | .076 | 2 | 137 | 2.04 | 116 | .35 | 3 | 2.25 | .23 | .73 | <2 | 31 | 7.83 |
| 165174 | <1 | 280 | <3 | 38 | .4 | 101 | 60 | 381 | 5.59 | 30 | <8 | <2 | <2 | 83 | <.5 | <3 | <3 | 120 | 2.23 | .072 | 2 | 102 | 1.38 | 34 | .37 | 10 | 2.12 | .33 | .21 | <2 | 54 | 2.78 |
| 165175 | 1 | 162 | <3 | 44 | <.3 | 85 | 22 | 424 | 4.18 | 10 | <8 | <2 | <2 | 44 | <.5 | <3 | <3 | 135 | 1.69 | .076 | 1 | 119 | 1.69 | 54 | .34 | 3 | 2.03 | .23 | .33 | <2 | 27 | 3.89 |
| 165176 | <1 | 324 | 3 | 37 | <.3 | 100 | 35 | 401 | 5.34 | 9 | <8 | <2 | <2 | 74 | <.5 | <3 | <3 | 146 | 1.35 | .074 | 1 | 122 | 1.90 | 32 | .43 | 7 | 2.02 | .21 | .17 | <2 | 28 | 2.63 |
| 165177 | <1 | 500 | <3 | 51 | .7 | 106 | 74 | 372 | 4.95 | 18 | <8 | <2 | <2 | 41 | <.5 | <3 | 3 | 130 | 1.49 | .071 | 2 | 113 | 1.59 | 61 | .39 | 7 | 1.81 | .18 | .43 | <2 | 102 | 7.06 |
| 165178 | 3 | 221 | <3 | 44 | <.3 | 95 | 56 | 338 | 5.87 | 17 | <8 | <2 | <2 | 60 | <.5 | <3 | 4 | 122 | 1.66 | .074 | 2 | 102 | 1.41 | 66 | .34 | 9 | 2.06 | .25 | .46 | <2 | 33 | 2.08 |
| 165179 | 1 | 167 | <3 | 42 | <.3 | 90 | 23 | 412 | 4.35 | 8 | <8 | <2 | <2 | 65 | <.5 | <3 | <3 | 141 | 1.78 | .076 | 2 | 122 | 1.77 | 103 | .38 | 5 | 2.46 | .28 | .63 | <2 | 20 | 4.75 |
| 165180 | <1 | 232 | <3 | 45 | <.3 | 83 | 29 | 377 | 4.15 | 9 | <8 | <2 | <2 | 57 | <.5 | <3 | <3 | 129 | 1.61 | .076 | 2 | 111 | 1.50 | 63 | .36 | <3 | 1.98 | .24 | .37 | <2 | 45 | 6.53 |
| 165181 | <1 | 286 | <3 | 40 | <.3 | 108 | 36 | 399 | 4.63 | 11 | <8 | <2 | <2 | 56 | <.5 | <3 | <3 | 129 | 1.58 | .075 | 2 | 121 | 1.90 | 75 | .38 | 6 | 2.21 | .25 | .41 | <2 | 37 | 5.31 |
| 165182 | <1 | 249 | <3 | 41 | <.3 | 111 | 57 | 376 | 5.59 | 15 | <8 | <2 | <2 | 63 | <.5 | <3 | <3 | 144 | 1.56 | .076 | 2 | 133 | 1.96 | 54 | .41 | 6 | 2.10 | .20 | .26 | <2 | 71 | 4.48 |
| STANDARD DS5/AU-R | 13 | 141 | 26 | 133 | .3 | 26 | 12 | 738 | 3.01 | 18 | <8 | <2 | 3 | 46 | 5.6 | 6 | 5 | 60 | .74 | .092 | 12 | 191 | .69 | 137 | .10 | 16 | 2.01 | .04 | .14 | 6 | 490 | - |

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

# OCI ICA NAI S TIF TE

## Rio Minerals Inc. Canada File # A404046 Page 1

910 - 475 Howe St., Vancouver BC V6C 2B3 Submitted by: Andrew Molnar

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au** ppb | Sample kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SI | <1 | <1 | <3 | 3 | <.3 | <1 | <1 | <2 | .04 | <2 | <8 | <2 | <2 | 2 | <.5 | <3 | <3 | <1 | .07 | <.001 | <1 | <1 | <.01 | 2 | <.01 | <3 | .01 | .33 | <.01 | <2 | <2 | - |
| 165143 | 2 | 229 | 3 | 37 | <.3 | 69 | 25 | 343 | 4.36 | 11 | <8 | <2 | <2 | 60 | <.5 | <3 | <3 | 137 | 1.54 | .081 | 1 | 95 | 1.37 | 35 | .27 | <3 | 2.04 | .25 | .26 | <2 | 38 | 6.71 |
| 165144 | 2 | 240 | 6 | 60 | .4 | 83 | 20 | 342 | 3.94 | 8 | <8 | <2 | <2 | 60 | <.5 | <3 | <3 | 135 | 1.44 | .084 | 1 | 118 | 1.50 | 39 | .24 | <3 | 2.24 | .23 | .25 | <2 | 35 | 6.48 |
| 165145 | 1 | 190 | 5 | 43 | .3 | 104 | 49 | 350 | 4.20 | 14 | <8 | <2 | <2 | 79 | <.5 | <3 | <3 | 113 | 1.56 | .078 | 1 | 113 | 1.52 | 78 | .28 | <3 | 2.27 | .26 | .51 | <2 | 67 | 6.13 |
| 165146 | 1 | 21 | <3 | 34 | <.3 | 83 | 35 | 286 | 2.73 | 11 | <8 | <2 | <2 | 66 | <.5 | <3 | <3 | 94 | 1.70 | .075 | 1 | 86 | 1.06 | 25 | .32 | <3 | 1.69 | .23 | .19 | <2 | 23 | 4.41 |
| 165147 | 1 | 66 | <3 | 34 | <.3 | 16 | 15 | 307 | 3.45 | 8 | <8 | <2 | <2 | 93 | <.5 | <3 | <3 | 116 | 1.73 | .152 | 3 | 24 | 1.20 | 33 | .23 | <3 | 1.53 | .13 | .17 | <2 | 15 | 4.94 |
| 165184 | 2 | 123 | 3 | 37 | .3 | 63 | 28 | 276 | 4.41 | 5 | <8 | <2 | <2 | 53 | <.5 | <3 | <3 | 123 | 1.33 | .060 | <1 | 95 | 1.47 | 41 | .29 | <3 | 2.13 | .22 | .40 | 2 | 36 | 4.30 |
| 165185 | 2 | 251 | 3 | 37 | .3 | 72 | 37 | 293 | 4.44 | 7 | <8 | <2 | <2 | 129 | <.5 | <3 | <3 | 101 | 1.74 | .075 | 1 | 85 | 1.37 | 36 | .32 | <3 | 2.45 | .38 | .31 | 2 | 54 | 3.29 |
| 165186 | 3 | 259 | 7 | 39 | .4 | 62 | 26 | 298 | 3.08 | 12 | <8 | <2 | <2 | 76 | <.5 | <3 | <3 | 90 | 2.11 | .126 | 3 | 75 | 1.27 | 41 | .32 | 4 | 2.47 | .38 | .29 | 2 | 68 | 2.22 |
| 165187 | 2 | 1377 | <3 | 109 | <.3 | 25 | 22 | 990 | 26.74 | 130 | <8 | <2 | <2 | 9 | 1.0 | <3 | <3 | 16 | 8.03 | .019 | 3 | <1 | .13 | 3 | .03 | <3 | .17 | .02 | .01 | 4 | 785 | 4.01 |
| 165188 | 4 | 7366 | <3 | 65 | 5.0 | 52 | 839 | 221 | 29.23 | 246 | <8 | 5 | <2 | 7 | <.5 | 5 | 10 | 13 | 1.79 | .006 | 2 | 2 | .10 | 2 | .03 | <3 | .12 | .01 | .01 | 4 | 4679 | 2.18 |
| 165189 | 2 | 2075 | 8 | 52 | 1.4 | 84 | 35 | 359 | 4.22 | 8 | <8 | <2 | <2 | 118 | .5 | <3 | <3 | 106 | 1.72 | .074 | 2 | 92 | 1.46 | 31 | .35 | <3 | 2.19 | .33 | .20 | 2 | 616 | 4.38 |
| 165190 | 1 | 375 | <3 | 49 | <.3 | 95 | 25 | 404 | 5.62 | 3 | <8 | <2 | <2 | 74 | <.5 | 4 | <3 | 156 | 1.24 | .075 | 2 | 126 | 2.04 | 47 | .42 | <3 | 2.02 | .18 | .29 | <2 | 83 | 5.18 |
| 165191 | 1 | 345 | <3 | 40 | .4 | 111 | 100 | 329 | 7.00 | 23 | <8 | <2 | <2 | 106 | <.5 | <3 | <3 | 109 | 1.73 | .073 | 1 | 83 | 1.09 | 22 | .33 | <3 | 1.50 | .15 | .11 | 2 | 169 | 2.55 |
| 165192 | 3 | 33 | 5 | 36 | <.3 | 7 | 7 | 315 | 2.11 | 3 | <8 | <2 | 4 | 167 | <.5 | <3 | <3 | 39 | 1.43 | .073 | 7 | 9 | .78 | 69 | .09 | <3 | 2.22 | .23 | .30 | 3 | 5 | 2.39 |
| 165193 | 4 | 118 | 6 | 37 | <.3 | 18 | 11 | 391 | 2.11 | 8 | <8 | <2 | 3 | 107 | <.5 | <3 | <3 | 50 | 1.82 | .073 | 5 | 28 | .84 | 73 | .17 | <3 | 1.58 | .18 | .39 | <2 | 30 | 5.30 |
| 165194 | 2 | 439 | <3 | 34 | <.3 | 60 | 19 | 374 | 5.05 | 3 | <8 | <2 | <2 | 64 | <.5 | <3 | <3 | 167 | 1.66 | .087 | 1 | 91 | 1.20 | 11 | .35 | <3 | 2.10 | .28 | .04 | <2 | 15 | 1.79 |
| 165195 | 2 | 258 | 4 | 63 | <.3 | 82 | 55 | 452 | 4.85 | 19 | <8 | <2 | <2 | 96 | <.5 | 3 | <3 | 166 | 1.56 | .091 | 1 | 118 | 1.83 | 79 | .38 | <3 | 2.08 | .19 | .49 | 2 | 80 | 3.52 |
| RE 165195 | 2 | 251 | 4 | 59 | <.3 | 78 | 52 | 439 | 4.70 | 15 | <8 | <2 | <2 | 95 | .5 | <3 | <3 | 161 | 1.52 | .088 | 1 | 113 | 1.76 | 77 | .38 | <3 | 2.02 | .18 | .48 | 2 | 78 | - |
| RRE 165195 | 2 | 255 | 5 | 61 | .3 | 80 | 57 | 445 | 4.78 | 17 | <8 | <2 | <2 | 87 | .5 | <3 | <3 | 160 | 1.43 | .090 | 1 | 115 | 1.82 | 79 | .37 | <3 | 2.00 | .16 | .49 | 2 | 92 | - |
| 165201 | 1 | 304 | <3 | 32 | <.3 | 60 | 28 | 351 | 4.98 | 3 | <8 | <2 | <2 | 52 | <.5 | <3 | <3 | 141 | 1.50 | .066 | 2 | 104 | 1.30 | 17 | .38 | <3 | 1.83 | .20 | .10 | <2 | 140 | 3.23 |
| 165202 | 4 | 391 | <3 | 25 | .3 | 55 | 35 | 276 | 3.72 | 9 | <8 | <2 | <2 | 49 | <.5 | <3 | <3 | 77 | 1.69 | .096 | 4 | 62 | 1.12 | 22 | .32 | <3 | 1.36 | .17 | .11 | 2 | 133 | 2.08 |
| 165203 | 5 | 3211 | 3 | 59 | 1.3 | 46 | 71 | 445 | 16.42 | 52 | 8 | <2 | <2 | 30 | 1.9 | <3 | <3 | 49 | 3.93 | .063 | 3 | 11 | .37 | 6 | .24 | <3 | .47 | .04 | .03 | 2 | 1705 | .93 |
| 165204 | 2 | 557 | 4 | 38 | .5 | 78 | 28 | 375 | 4.37 | 10 | <8 | <2 | <2 | 29 | <.5 | <3 | <3 | 126 | 1.65 | .094 | 3 | 90 | 1.33 | 19 | .38 | <3 | 1.37 | .19 | .13 | <2 | 162 | 4.61 |
| 165205 | 2 | 242 | <3 | 42 | .5 | 84 | 26 | 396 | 6.46 | 16 | <8 | 4 | <2 | 52 | <.5 | <3 | <3 | 134 | 1.74 | .086 | 2 | 95 | 1.38 | 13 | .34 | <3 | 1.78 | .22 | .10 | 2 | 9405 | 3.33 |
| 165206 | 1 | 285 | 5 | 49 | .4 | 88 | 15 | 414 | 4.34 | 8 | <8 | <2 | <2 | 59 | <.5 | <3 | <3 | 116 | 1.84 | .078 | 1 | 134 | 1.48 | 10 | .26 | <3 | 2.09 | .22 | .08 | 3 | 450 | 3.42 |
| 165207 | 2 | 145 | 4 | 31 | <.3 | 83 | 31 | 315 | 4.07 | 9 | <8 | <2 | <2 | 95 | <.5 | <3 | <3 | 117 | 1.87 | .084 | 2 | 118 | 1.10 | 8 | .29 | <3 | 2.07 | .29 | .06 | <2 | 106 | 3.13 |
| 165208 | 3 | 294 | 8 | 32 | .4 | 103 | 49 | 331 | 3.16 | 14 | <8 | <2 | <2 | 79 | <.5 | <3 | <3 | 86 | 1.48 | .075 | 1 | 118 | 1.17 | 7 | .26 | <3 | 1.79 | .23 | .06 | <2 | 83 | 3.18 |
| 165209 | 3 | 116 | <3 | 41 | <.3 | 102 | 28 | 415 | 3.55 | 10 | <8 | <2 | <2 | 31 | <.5 | <3 | <3 | 102 | 1.47 | .080 | 1 | 127 | 1.43 | 7 | .29 | <3 | 1.66 | .10 | .08 | <2 | 43 | 2.14 |
| 165210 | 2 | 199 | <3 | 35 | <.3 | 69 | 58 | 274 | 25.41 | 38 | <8 | <2 | <2 | 15 | <.5 | <3 | <3 | 51 | 1.77 | .034 | 2 | 64 | .95 | 3 | .20 | <3 | .82 | .03 | .03 | <2 | 338 | 4.63 |
| 165211 | 1 | 96 | 6 | 33 | <.3 | 72 | 19 | 332 | 3.47 | 5 | <8 | <2 | <2 | 63 | <.5 | <3 | <3 | 85 | 1.46 | .078 | 2 | 87 | 1.33 | 6 | .36 | <3 | 1.61 | .18 | .05 | <2 | 136 | 4.37 |
| 165212 | 1 | 1092 | 3 | 28 | .6 | 91 | 43 | 309 | 4.06 | 9 | <8 | <2 | <2 | 300 | <.5 | <3 | <3 | 98 | 1.71 | .090 | 2 | 84 | 1.32 | 16 | .38 | <3 | 2.21 | .41 | .13 | <2 | 439 | 3.17 |
| 165213 | 3 | 307 | 6 | 33 | <.3 | 106 | 50 | 420 | 4.75 | 11 | <8 | <2 | <2 | 55 | <.5 | 3 | <3 | 123 | 1.66 | .077 | 1 | 101 | 1.97 | 29 | .38 | <3 | 2.58 | .24 | .34 | 2 | 104 | 6.70 |
| 165214 | 2 | 232 | 6 | 33 | <.3 | 91 | 16 | 416 | 4.87 | 7 | <8 | <2 | <2 | 88 | <.5 | <3 | <3 | 147 | 2.06 | .079 | 1 | 112 | 1.50 | 21 | .38 | <3 | 2.58 | .35 | .27 | <2 | 91 | 3.49 |
| 165215 | 4 | 464 | 4 | 32 | <.3 | 114 | 52 | 401 | 4.42 | 9 | <8 | <2 | <2 | 91 | <.5 | <3 | <3 | 113 | 1.82 | .083 | 1 | 100 | 1.61 | 19 | .37 | <3 | 2.40 | .27 | .21 | <2 | 805 | 3.72 |
| STANDARD DS5/AU-R1 | 13 | 146 | 26 | 134 | .4 | 25 | 11 | 736 | 2.97 | 17 | 9 | <2 | 2 | 47 | 5.2 | 5 | 7 | 59 | .73 | .096 | 13 | 177 | .64 | 135 | .10 | 16 | 1.97 | .04 | .14 | 6 | 556 | - |

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU** GROUP 3B - 30.00 GM SAMPLE ANALYSIS BY FA/ICP.
<u>Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.</u>

**Data** ___ **FA** ___ **DATE RECEIVED:** AUG 3 2004 **DATE REPORT MAILED:** Aug 16/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au** ppb | Sample kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 165216 | <1 | 319 | <3 | 29 | <.3 | 97 | 42 | 323 | 5.07 | 7 | <8 | <2 | <2 | 52 | <.5 | <3 | <3 | 143 | 1.49 | .076 | 1 | 101 | 1.63 | 21 | .36 | <3 | 2.08 | .22 | .20 | <2 | 75 | 6.69 |
| 165217 | <1 | 160 | 7 | 65 | <.3 | 111 | 51 | 462 | 6.30 | 6 | <8 | <2 | <2 | 109 | <.5 | <3 | <3 | 162 | 1.34 | .083 | <1 | 111 | 3.00 | 27 | .37 | <3 | 2.97 | .22 | .37 | <2 | 28 | 3.40 |
| 165218 | <1 | 214 | <3 | 40 | <.3 | 109 | 35 | 465 | 5.01 | 13 | <8 | <2 | <2 | 54 | <.5 | 3 | <3 | 144 | 1.41 | .076 | 1 | 115 | 2.75 | 32 | .30 | <3 | 3.19 | .20 | .30 | <2 | 13 | 3.40 |
| 165219 | 1 | 1852 | 5 | 32 | 1.1 | 107 | 51 | 186 | 2.24 | 9 | <8 | <2 | <2 | 97 | .6 | <3 | <3 | 126 | 1.91 | .040 | 2 | 85 | .47 | 9 | .52 | 3 | 1.15 | .26 | .06 | <2 | 562 | 3.69 |
| 165220 | 47 | 1315 | <3 | 26 | .8 | 81 | 166 | 135 | 5.13 | 7 | <8 | <2 | <2 | 45 | <.5 | <3 | <3 | 96 | 1.00 | .071 | 1 | 70 | .40 | 10 | .37 | <3 | .76 | .11 | .06 | <2 | 410 | 5.42 |
| 165221 | 3 | 837 | <3 | 28 | .6 | 84 | 56 | 251 | 4.86 | 7 | <8 | <2 | <2 | 60 | <.5 | <3 | <3 | 122 | 1.52 | .114 | 2 | 87 | 1.07 | 17 | .36 | <3 | 1.52 | .22 | .10 | <2 | 1367 | 3.26 |
| 165222 | <1 | 282 | <3 | 43 | <.3 | 65 | 23 | 359 | 4.79 | 5 | <8 | <2 | <2 | 61 | <.5 | 3 | <3 | 150 | 1.55 | .041 | <1 | 115 | 2.00 | 36 | .35 | 3 | 2.52 | .23 | .34 | <2 | 79 | 4.22 |
| 165223 | 1 | 218 | <3 | 29 | <.3 | 77 | 45 | 298 | 5.99 | 6 | <8 | <2 | <2 | 71 | <.5 | <3 | <3 | 112 | 1.36 | .060 | 1 | 84 | 1.31 | 24 | .33 | <3 | 1.72 | .24 | .16 | <2 | 84 | 6.45 |
| 165224 | 1 | 610 | 4 | 27 | .4 | 63 | 46 | 226 | 4.23 | 5 | <8 | <2 | <2 | 61 | <.5 | <3 | <3 | 89 | 1.47 | .060 | 1 | 73 | .93 | 16 | .32 | <3 | 1.68 | .29 | .11 | <2 | 168 | 4.08 |
| 165225 | 1 | 1260 | <3 | 40 | .8 | 63 | 62 | 271 | 3.44 | 7 | <8 | <2 | <2 | 36 | <.5 | <3 | <3 | 86 | 1.51 | .066 | 1 | 80 | 1.13 | 19 | .33 | 3 | 1.58 | .21 | .14 | 2 | 248 | 6.34 |
| 165226 | 1 | 1889 | 5 | 50 | 1.3 | 56 | 48 | 257 | 2.68 | 12 | <8 | <2 | <2 | 39 | 1.2 | 4 | <3 | 81 | 2.21 | .070 | 1 | 58 | .65 | 16 | .39 | 4 | 1.34 | .21 | .10 | <2 | 376 | 4.33 |
| RE 165226 | 2 | 1944 | <3 | 52 | 1.2 | 57 | 49 | 264 | 2.74 | 11 | <8 | <2 | <2 | 40 | .9 | <3 | <3 | 82 | 2.26 | .071 | 1 | 63 | .67 | 17 | .39 | <3 | 1.39 | .22 | .11 | <2 | 398 | - |
| RRE 165226 | 1 | 1855 | 5 | 48 | .9 | 55 | 47 | 244 | 2.63 | 11 | <8 | <2 | <2 | 37 | .8 | <3 | <3 | 74 | 2.11 | .071 | 1 | 53 | .60 | 15 | .36 | <3 | 1.30 | .21 | .10 | <2 | 424 | - |
| 165227 | 3 | 2490 | <3 | 54 | 2.6 | 28 | 373 | 381 | 25.02 | 1272 | <8 | 14 | <2 | 5 | <.5 | <3 | <3 | 41 | .35 | .032 | 1 | 22 | .73 | 31 | .09 | <3 | .87 | .01 | .15 | <2 | 18563 | 1.37 |
| 165228 | 1 | 430 | 3 | 35 | .3 | 48 | 27 | 361 | 4.33 | 19 | <8 | <2 | <2 | 35 | <.5 | <3 | <3 | 106 | 1.51 | .115 | 2 | 57 | 1.13 | 47 | .30 | <3 | 1.46 | .15 | .17 | <2 | 200 | 6.44 |
| 165229 | 2 | 504 | 6 | 32 | .4 | 77 | 56 | 373 | 4.32 | 36 | <8 | <2 | <2 | 37 | <.5 | <3 | <3 | 78 | 1.96 | .097 | 2 | 55 | .99 | 17 | .28 | <3 | 1.23 | .18 | .08 | <2 | 141 | 2.53 |
| 165230 | <1 | 63 | <3 | 34 | <.3 | 92 | 55 | 377 | 6.29 | 67 | 8 | <2 | <2 | 66 | <.5 | <3 | <3 | 78 | 1.89 | .070 | <1 | 91 | 1.25 | 18 | .20 | <3 | 1.70 | .17 | .13 | <2 | 141 | 2.97 |
| 165231 | 4 | 1069 | 4 | 33 | .9 | 98 | 66 | 347 | 5.19 | 14 | <8 | <2 | <2 | 83 | <.5 | <3 | <3 | 98 | 1.44 | .078 | 2 | 89 | 1.35 | 17 | .35 | <3 | 1.65 | .20 | .12 | 2 | 1237 | 5.30 |
| 165232 | 2 | 210 | <3 | 27 | <.3 | 81 | 37 | 316 | 5.78 | 17 | <8 | <2 | <2 | 49 | <.5 | <3 | <3 | 105 | 1.47 | .094 | 2 | 78 | 1.28 | 18 | .31 | <3 | 1.65 | .16 | .13 | <2 | 62 | 5.47 |
| 165233 | 1 | 332 | <3 | 35 | .3 | 118 | 53 | 474 | 6.30 | 7 | <8 | <2 | <2 | 61 | <.5 | 3 | <3 | 169 | 1.46 | .079 | 1 | 124 | 1.94 | 22 | .41 | <3 | 2.35 | .21 | .18 | <2 | 33 | 2.18 |
| 165234 | <1 | 266 | <3 | 54 | <.3 | 120 | 69 | 525 | 6.78 | 6 | <8 | <2 | <2 | 39 | <.5 | <3 | <3 | 181 | 1.01 | .079 | <1 | 128 | 3.28 | 31 | .34 | <3 | 2.85 | .13 | .43 | <2 | 23 | 2.44 |
| 165235 | 2 | 274 | <3 | 64 | <.3 | 81 | 45 | 535 | 4.30 | 8 | <8 | <2 | <2 | 111 | <.5 | <3 | <3 | 141 | 1.86 | .072 | 1 | 110 | 1.83 | 46 | .39 | <3 | 2.30 | .28 | .37 | 2 | 64 | 3.54 |
| 165236 | 1 | 285 | <3 | 63 | .5 | 81 | 35 | 452 | 5.41 | 19 | <8 | <2 | <2 | 85 | <.5 | <3 | <3 | 163 | 1.21 | .066 | 1 | 128 | 2.24 | 37 | .33 | <3 | 2.48 | .21 | .36 | <2 | 72 | 5.25 |
| 165237 | <1 | 199 | <3 | 60 | .3 | 92 | 55 | 599 | 6.72 | 46 | <8 | <2 | <2 | 155 | <.5 | 3 | <3 | 135 | 1.93 | .048 | 1 | 106 | 2.43 | 62 | .29 | <3 | 3.70 | .26 | .81 | <2 | 82 | 2.52 |
| 165238 | 2 | 130 | 3 | 49 | .4 | 53 | 28 | 1930 | 6.41 | 76 | <8 | <2 | <2 | 257 | .6 | <3 | <3 | 73 | 12.71 | .052 | 2 | 44 | 2.06 | 20 | .14 | <3 | 1.87 | .03 | .18 | <2 | 97 | 2.80 |
| 165239 | <1 | 177 | <3 | 77 | .4 | 102 | 41 | 763 | 5.88 | 33 | <8 | <2 | <2 | 188 | <.5 | <3 | <3 | 187 | 2.31 | .083 | <1 | 124 | 2.61 | 59 | .35 | <3 | 3.00 | .29 | .49 | <2 | 98 | 2.63 |
| STANDARD DS5/AU-R1 | 12 | 144 | 25 | 135 | .3 | 24 | 12 | 742 | 2.91 | 18 | 9 | <2 | 3 | 45 | 5.2 | 4 | 6 | 58 | .72 | .092 | 12 | 179 | .63 | 135 | .10 | 17 | 1.96 | .04 | .14 | 6 | 571 | - |

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

(ISO 9002 Accredited Co.)

# GEOCHEMICAL ANALYSIS CERTIFICATE

**Rio Minerals Inc. Canada** File # A404047
910 - 475 Howe St., Vancouver BC V6C 2B3 Submitted by: Andrew Molnar

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au** ppb | Sample kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SI | <1 | 1 | <3 | 3 | <.3 | <1 | <1 | 4 | .05 | <2 | <8 | <2 | <2 | 3 | <.5 | <3 | <3 | 1 | .16 | <.001 | <1 | <1 | .02 | 4 | <.01 | <3 | .01 | .67 | .01 | <2 | <2 | - |
| Y04-DB-1 | <1 | 911 | <3 | 41 | .9 | 13 | 21 | 459 | 36.47 | 399 | 14 | <2 | <2 | 3 | .7 | <3 | 10 | 28 | .67 | .030 | 2 | 10 | .10 | 6 | .04 | <3 | .35 | .01 | .03 | <2 | 1154 | 1.08 |
| Y04-DB-2 | 6 | 1020 | <3 | 26 | 1.3 | 43 | 19 | 405 | 27.32 | 184 | 8 | <2 | <2 | 7 | .9 | <3 | <3 | 61 | 1.75 | .075 | 1 | 17 | .06 | 4 | .08 | <3 | .20 | .01 | .02 | <2 | 486 | 1.85 |
| STANDARD DS5/AU-R1 | 12 | 146 | 24 | 132 | <.3 | 25 | 11 | 741 | 3.01 | 17 | <8 | <2 | 3 | 47 | 5.3 | 3 | 5 | 59 | .75 | .094 | 13 | 184 | .64 | 137 | .10 | 16 | 1.99 | .04 | .15 | 6 | 571 | - |

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK R150 60C AU** GROUP 3B - 30.00 GM SAMPLE ANALYSIS BY FA/ICP.

**Data** ___ **FA** ____ **DATE RECEIVED:** AUG 3 2004 **DATE REPORT MAILED:** Aug 16/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

# GEOCHEMICAL ANALYSIS CERTIFICATE

**Rio Minerals Inc. Canada** File # A404624
910 - 475 Howe St., Vancouvèr BC V6C 2B3 Submitted by: Andrew Molnar

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au** ppb | Sample kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SI | <1 | <1 | <3 | 1 | <.3 | <1 | <1 | 2 | .04 | <2 | <8 | <2 | <2 | 3 | <.5 | <3 | 4 | <1 | .18 | <.001 | <1 | <1 | <.01 | 4 | <.01 | <3 | .01 | .77 | .01 | <2 | <2 | - |
| 165148 | 2 | 99 | <3 | 40 | <.3 | 100 | 26 | 432 | 4.75 | 7 | <8 | <2 | <2 | 58 | <.5 | <3 | <3 | 143 | 1.64 | .070 | 2 | 124 | 2.02 | 64 | .37 | 11 | 2.58 | .32 | .51 | <2 | 20 | 5.08 |
| 165149 | 1 | 80 | 4 | 38 | <.3 | 89 | 26 | 446 | 5.65 | 7 | <8 | <2 | <2 | 40 | <.5 | 6 | <3 | 170 | 1.31 | .076 | 3 | 110 | 1.98 | 53 | .45 | 11 | 1.90 | .24 | .37 | <2 | 15 | 5.22 |
| 165196 | 2 | 11 | <3 | 37 | <.3 | 3 | 5 | 426 | 2.16 | <2 | <8 | <2 | 5 | 134 | <.5 | <3 | <3 | 38 | 1.55 | .063 | 8 | 8 | .71 | 69 | .10 | <3 | 2.24 | .34 | .39 | <2 | 3 | 4.74 |
| 165197 | 2 | 52 | 3 | 37 | <.3 | 2 | 6 | 400 | 2.06 | 2 | <8 | <2 | 5 | 126 | <.5 | <3 | <3 | 31 | 1.51 | .061 | 8 | 8 | .64 | 75 | .08 | 5 | 1.89 | .24 | .37 | <2 | 80 | 5.19 |
| 165198 | 20 | 56 | <3 | 9 | <.3 | 41 | 2 | 173 | 19.14 | 29 | <8 | <2 | <2 | 7 | <.5 | 3 | 5 | 20 | 1.19 | .012 | 1 | 30 | .39 | 3 | .06 | <3 | .46 | .03 | .03 | <2 | 198 | .38 |
| 165199 | 2 | 480 | <3 | 38 | <.3 | 88 | 28 | 487 | 4.75 | 10 | 8 | <2 | <2 | 76 | <.5 | 4 | <3 | 148 | 1.95 | .072 | 2 | 136 | 1.70 | 24 | .39 | 8 | 2.78 | .36 | .27 | <2 | 77 | 4.20 |
| 165240 | 2 | 313 | <3 | 48 | <.3 | 84 | 35 | 478 | 5.07 | 8 | <8 | <2 | <2 | 65 | <.5 | 5 | <3 | 166 | 1.63 | .077 | 2 | 127 | 1.80 | 28 | .47 | 8 | 2.27 | .30 | .33 | 2 | 44 | 6.36 |
| 165241 | <1 | 223 | 4 | 43 | <.3 | 82 | 39 | 451 | 6.04 | 6 | <8 | <2 | <2 | 35 | .7 | 4 | <3 | 175 | 1.23 | .086 | 3 | 120 | 1.95 | 30 | .50 | 7 | 1.76 | .15 | .31 | <2 | 24 | 3.92 |
| 165242 | 1 | 259 | 3 | 40 | <.3 | 88 | 34 | 455 | 5.16 | 6 | <8 | <2 | <2 | 72 | <.5 | 4 | <3 | 154 | 1.59 | .079 | 2 | 127 | 1.75 | 25 | .47 | 9 | 2.09 | .24 | .23 | 2 | 59 | 3.07 |
| RE 165242 | 2 | 258 | 4 | 42 | <.3 | 89 | 35 | 459 | 5.16 | 7 | <8 | <2 | <2 | 72 | .5 | 4 | <3 | 155 | 1.61 | .079 | 2 | 119 | 1.76 | 25 | .48 | 6 | 2.11 | .24 | .23 | <2 | 72 | - |
| RRE 165242 | 1 | 249 | <3 | 42 | <.3 | 87 | 35 | 455 | 5.15 | 8 | <8 | <2 | <2 | 73 | .7 | 5 | <3 | 155 | 1.59 | .079 | 2 | 122 | 1.76 | 26 | .48 | 9 | 2.07 | .23 | .23 | <2 | 62 | - |
| 165243 | 1 | 222 | <3 | 47 | <.3 | 88 | 20 | 487 | 4.62 | 6 | <8 | <2 | <2 | 98 | .5 | <3 | <3 | 144 | 1.76 | .076 | 2 | 129 | 1.86 | 22 | .39 | 5 | 2.51 | .28 | .15 | <2 | 161 | 1.67 |
| 165244 | 1 | 334 | 5 | 41 | <.3 | 96 | 35 | 518 | 4.66 | 10 | <8 | <2 | <2 | 82 | .5 | <3 | <3 | 149 | 1.78 | .069 | 1 | 164 | 1.98 | 27 | .42 | 7 | 2.70 | .39 | .25 | <2 | 32 | 3.49 |
| STANDARD DS5/AU-R | 13 | 145 | 24 | 136 | .3 | 25 | 12 | 741 | 2.95 | 17 | <8 | <2 | 3 | 45 | 5.7 | 5 | 7 | 60 | .74 | .091 | 13 | 188 | .68 | 135 | .11 | 16 | 1.97 | .04 | .14 | 5 | 485 | - |

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
-- --
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU** GROUP 3B - 30.00 GM SAMPLE ANALYSIS BY FA/ICP.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

**Data**___ **FA** _____ **DATE RECEIVED:** AUG 16 2004 **DATE REPORT MAILED:** Aug 28/04

Clarence Leong

(ISO 9002 Accredited Co.)

OC ICA NAI IS TI TE

## Rio Minerals Inc. Canada File # A404955 Page 1

910 - 475 Howe St., Vancouver BC V6C 2B3 Submitted by: Andrew Molnar

| SAMPLE# | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Ni<br>ppm | Co<br>ppm | Mn<br>ppm | Fe<br>% | As<br>ppm | U<br>ppm | Au<br>ppm | Th<br>ppm | Sr<br>ppm | Cd<br>ppm | Sb<br>ppm | Bi<br>ppm | V<br>ppm | Ca<br>% | P<br>% | La<br>ppm | Cr<br>ppm | Mg<br>% | Ba<br>ppm | Ti<br>% | B<br>ppm | Al<br>% | Na<br>% | K<br>% | W<br>ppm | Au**<br>ppb | Sample<br>kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SI | <1 | 3 | <3 | <1 | <.3 | 1 | <1 | 16 | .16 | <2 | <8 | <2 | <2 | 7 | <.5 | <3 | <3 | 1 | .29 | .001 | <1 | <1 | .01 | 9 | <.01 | <3 | .02 | 1.14 | .01 | <2 | <2 | - |
| 165245 | <1 | 301 | <3 | 34 | <.3 | 103 | 35 | 562 | 4.93 | 6 | <8 | <2 | <2 | 44 | <.5 | 3 | <3 | 143 | 1.87 | .076 | 1 | 127 | 2.18 | 31 | .40 | 3 | 2.63 | .23 | .41 | <2 | 34 | 5.46 |
| 165246 | <1 | 345 | <3 | 36 | <.3 | 100 | 40 | 599 | 5.34 | 4 | 10 | <2 | <2 | 79 | <.5 | 4 | <3 | 152 | 1.55 | .078 | 1 | 118 | 2.64 | 29 | .42 | 3 | 2.85 | .22 | .30 | <2 | 36 | 5.90 |
| 165247 | <1 | 471 | <3 | 57 | <.3 | 94 | 32 | 659 | 5.72 | 4 | 12 | <2 | <2 | 35 | <.5 | 5 | <3 | 182 | 1.14 | .075 | 1 | 121 | 2.89 | 41 | .39 | 6 | 2.59 | .10 | .46 | <2 | 37 | 5.35 |
| 165248 | 1 | 271 | 6 | 35 | <.3 | 101 | 38 | 663 | 6.42 | 4 | <8 | <2 | <2 | 41 | <.5 | 3 | <3 | 199 | 1.38 | .085 | 1 | 131 | 2.86 | 17 | .44 | 4 | 2.93 | .19 | .15 | <2 | 42 | 6.41 |
| 165249 | 1 | 244 | 8 | 42 | <.3 | 100 | 37 | 552 | 5.72 | 6 | <8 | <2 | <2 | 92 | <.5 | <3 | <3 | 183 | 1.60 | .076 | 2 | 118 | 3.02 | 50 | .39 | <3 | 3.32 | .23 | .51 | <2 | 116 | 6.68 |
| 165250 | 1 | 276 | 7 | 52 | .3 | 123 | 53 | 635 | 6.57 | 9 | 9 | <2 | <2 | 89 | <.5 | 3 | <3 | 197 | 1.48 | .078 | 1 | 132 | 3.34 | 42 | .38 | 6 | 3.53 | .19 | .50 | 3 | 44 | 6.56 |
| 165251 | 2 | 233 | 9 | 56 | <.3 | 88 | 30 | 583 | 6.21 | 19 | <8 | <2 | <2 | 117 | <.5 | <3 | <3 | 222 | 2.40 | .092 | 2 | 123 | 2.61 | 67 | .47 | 4 | 3.62 | .28 | .54 | <2 | 38 | 3.13 |
| 165252 | <1 | 154 | 7 | 34 | <.3 | 63 | 26 | 1319 | 5.51 | 133 | <8 | <2 | <2 | 156 | <.5 | 4 | <3 | 105 | 6.37 | .052 | 1 | 74 | 1.43 | 46 | .22 | <3 | 2.18 | .12 | .26 | 2 | 71 | 1.94 |
| 165253 | <1 | 196 | 6 | 44 | <.3 | 71 | 45 | 480 | 6.13 | 9 | <8 | <2 | <2 | 84 | <.5 | 7 | <3 | 161 | 1.86 | .096 | 2 | 95 | 1.68 | 19 | .47 | <3 | 1.63 | .11 | .08 | 2 | 55 | 2.94 |
| 165254 | <1 | 169 | 8 | 57 | <.3 | 95 | 42 | 675 | 5.61 | 17 | 8 | <2 | <2 | 210 | <.5 | 6 | <3 | 149 | 3.10 | .085 | 2 | 101 | 2.07 | 40 | .45 | 3 | 2.84 | .19 | .14 | 2 | 939 | 5.20 |
| 165255 | <1 | 235 | 6 | 63 | <.3 | 114 | 41 | 602 | 5.70 | 16 | 13 | <2 | <2 | 172 | <.5 | 7 | <3 | 176 | 1.88 | .083 | 2 | 148 | 2.15 | 57 | .43 | 4 | 3.06 | .28 | .28 | 2 | 60 | 3.09 |
| 165256 | 2 | 267 | 6 | 58 | <.3 | 109 | 45 | 542 | 5.35 | 48 | <8 | <2 | <2 | 98 | <.5 | 5 | <3 | 148 | 1.61 | .085 | 2 | 146 | 2.05 | 60 | .34 | <3 | 2.71 | .25 | .39 | <2 | 49 | 2.58 |
| 165257 | <1 | 50 | 11 | 54 | <.3 | 11 | 27 | 636 | 4.00 | 26 | <8 | <2 | <2 | 51 | <.5 | 3 | <3 | 114 | 2.52 | .202 | 5 | 10 | 1.69 | 22 | .19 | <3 | 1.68 | .07 | .12 | <2 | 234 | 3.06 |
| 165258 | 2 | 222 | <3 | 57 | <.3 | 111 | 56 | 562 | 4.56 | 25 | 8 | <2 | <2 | 59 | <.5 | <3 | <3 | 126 | 1.72 | .090 | 2 | 116 | 2.13 | 44 | .37 | <3 | 2.52 | .26 | .44 | <2 | 61 | 5.59 |
| 165259 | 19 | 41 | 10 | 34 | <.3 | 115 | 23 | 452 | 11.57 | 12 | <8 | <2 | <2 | 25 | <.5 | 7 | <3 | 89 | 1.08 | .059 | 1 | 123 | 1.79 | 8 | .26 | 6 | 1.39 | .06 | .06 | <2 | 92 | .57 |
| 165260 | 1 | 600 | 5 | 58 | .7 | 123 | 36 | 590 | 4.56 | 7 | <8 | <2 | <2 | 50 | .5 | 6 | <3 | 141 | 1.71 | .070 | 2 | 111 | 2.28 | 53 | .45 | <3 | 3.19 | .27 | .72 | <2 | 110 | .51 |
| 165261 | <1 | 183 | 13 | 65 | <.3 | 147 | 49 | 765 | 6.08 | 18 | <8 | <2 | <2 | 120 | <.5 | 3 | <3 | 204 | 2.94 | .075 | 2 | 135 | 2.56 | 27 | .48 | <3 | 3.05 | .24 | .16 | <2 | 22 | 2.12 |
| 165262 | <1 | 255 | 13 | 61 | <.3 | 85 | 37 | 628 | 6.58 | 26 | 8 | <2 | <2 | 114 | <.5 | 8 | <3 | 227 | 2.41 | .096 | 3 | 138 | 2.87 | 59 | .49 | <3 | 3.72 | .25 | .46 | 2 | 44 | 3.49 |
| 165263 | <1 | 404 | 10 | 56 | .3 | 80 | 37 | 1366 | 5.87 | 63 | <8 | <2 | <2 | 223 | <.5 | 6 | <3 | 141 | 5.40 | .060 | 1 | 95 | 2.28 | 59 | .29 | <3 | 2.85 | .13 | .27 | 2 | 108 | 1.73 |
| 165264 | <1 | 449 | 5 | 37 | <.3 | 107 | 55 | 458 | 5.47 | 10 | 9 | <2 | <2 | 107 | <.5 | 4 | 4 | 143 | 2.00 | .081 | 2 | 109 | 1.47 | 26 | .47 | <3 | 1.68 | .20 | .11 | <2 | 55 | 1.83 |
| 165265 | <1 | 178 | 5 | 61 | <.3 | 86 | 36 | 593 | 6.43 | 13 | <8 | <2 | <2 | 156 | <.5 | 3 | <3 | 187 | 2.15 | .092 | 3 | 129 | 2.01 | 47 | .50 | <3 | 2.26 | .13 | .26 | <2 | 56 | 6.02 |
| 165266 | <1 | 198 | 8 | 53 | <.3 | 72 | 44 | 533 | 5.16 | 29 | <8 | <2 | <2 | 88 | <.5 | 5 | <3 | 145 | 1.87 | .111 | 3 | 99 | 1.74 | 34 | .39 | <3 | 1.99 | .17 | .17 | <2 | 72 | 6.85 |
| RE 165266 | 1 | 199 | <3 | 54 | <.3 | 73 | 45 | 539 | 5.21 | 32 | <8 | <2 | <2 | 89 | <.5 | 6 | <3 | 146 | 1.90 | .112 | 3 | 97 | 1.75 | 34 | .40 | <3 | 2.01 | .17 | .17 | <2 | 71 | - |
| RRE 165266 | 1 | 196 | 7 | 56 | <.3 | 76 | 46 | 563 | 5.45 | 33 | <8 | <2 | <2 | 93 | <.5 | 5 | <3 | 155 | 1.98 | .116 | 3 | 104 | 1.82 | 37 | .43 | <3 | 2.12 | .19 | .18 | <2 | 100 | - |
| 165267 | <1 | 222 | 6 | <1 | .3 | 4 | 3 | 1046 | .40 | 4 | <8 | <2 | <2 | 771 | 1.4 | <3 | <3 | 3 | 37.29 | .012 | <1 | 3 | .18 | 2 | .01 | <3 | .05 | <.01 | <.01 | <2 | 8 | 1.13 |
| 165268 | 3 | 197 | <3 | 35 | <.3 | 87 | 34 | 438 | 5.34 | 8 | <8 | <2 | <2 | 84 | <.5 | <3 | <3 | 142 | 1.72 | .075 | 2 | 107 | 2.05 | 12 | .38 | 4 | 2.65 | .27 | .14 | <2 | 14 | 4.03 |
| 165269 | 1 | 270 | <3 | 36 | .3 | 98 | 78 | 521 | 6.82 | 9 | <8 | <2 | <2 | 47 | <.5 | 3 | <3 | 147 | 2.36 | .075 | 2 | 102 | 1.82 | 13 | .43 | 6 | 2.34 | .20 | .14 | <2 | 57 | 4.83 |
| 165270 | 1 | 386 | 4 | 78 | <.3 | 129 | 30 | 1005 | 5.05 | 3 | <8 | <2 | <2 | 65 | <.5 | 4 | <3 | 167 | 3.57 | .082 | 2 | 160 | 2.74 | 10 | .37 | 3 | 2.54 | .12 | .10 | <2 | 92 | 1.62 |
| 165271 | 2 | 421 | <3 | 52 | <.3 | 97 | 80 | 627 | 6.56 | 13 | <8 | <2 | <2 | 90 | <.5 | 3 | <3 | 180 | 2.90 | .083 | 2 | 129 | 2.15 | 19 | .48 | 3 | 2.27 | .20 | .17 | 2 | 98 | 4.62 |
| 165272 | 3 | 818 | 5 | 61 | .4 | 125 | 117 | 522 | 6.22 | 13 | 8 | <2 | <2 | 63 | <.5 | 5 | <3 | 162 | 1.20 | .082 | 2 | 138 | 2.23 | 51 | .44 | <3 | 1.98 | .17 | .44 | <2 | 101 | 4.43 |
| 165273 | 1 | 439 | 9 | 45 | <.3 | 97 | 61 | 457 | 6.01 | 7 | 10 | <2 | <2 | 43 | <.5 | 5 | <3 | 181 | 1.25 | .095 | 3 | 127 | 1.79 | 22 | .43 | <3 | 1.64 | .13 | .17 | <2 | 70 | 3.26 |
| 165274 | <1 | 343 | 4 | 34 | <.3 | 92 | 53 | 395 | 5.66 | 14 | 8 | <2 | <2 | 61 | <.5 | 5 | <3 | 192 | 1.50 | .085 | 2 | 109 | 1.33 | 9 | .33 | 5 | 1.84 | .21 | .07 | <2 | 167 | 3.82 |
| 165275 | <1 | 33 | 4 | 39 | <.3 | 74 | 47 | 370 | 4.67 | 7 | <8 | <2 | <2 | 35 | <.5 | <3 | <3 | 97 | 1.39 | .055 | 2 | 89 | 1.53 | 37 | .38 | <3 | 1.67 | .09 | .40 | <2 | 33 | 4.26 |
| 165276 | <1 | 62 | <3 | 37 | <.3 | 70 | 37 | 351 | 3.69 | 7 | 8 | <2 | <2 | 39 | <.5 | 6 | <3 | 120 | 1.32 | .063 | 2 | 110 | 1.76 | 58 | .36 | <3 | 2.13 | .15 | .57 | <2 | 25 | 6.36 |
| STANDARD DS5/AU-R | 13 | 147 | 24 | 134 | .3 | 25 | 12 | 787 | 3.08 | 17 | <8 | <2 | 3 | 46 | 5.7 | 4 | 7 | 61 | .75 | .097 | 12 | 189 | .69 | 139 | .11 | 17 | 2.10 | .04 | .15 | 5 | 494 | - |

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU** GROUP 3B - 30.00 GM SAMPLE ANALYSIS BY FA/ICP.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data___ FA _____ DATE RECEIVED: AUG 26 2004 DATE REPORT MAILED: Sept. 8/04

Clarence Leong

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au** ppb | Sample kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 165277 | 1 | 59 | <3 | 71 | <.3 | 101 | 52 | 716 | 6.47 | 13 | <8 | <2 | <2 | 74 | <.5 | <3 | <3 | 182 | 1.53 | .069 | 2 | 154 | 3.29 | 96 | .37 | <3 | 3.72 | .22 | .74 | <2 | 24 | 3.85 |
| 165278 | 1 | 103 | <3 | 12 | <.3 | 4 | 35 | 756 | 3.10 | 76 | <8 | <2 | <2 | 637 | .7 | <3 | <3 | 3 | 34.03 | .008 | <1 | 2 | .13 | 4 | <.01 | <3 | .06 | <.01 | .01 | <2 | 37 | 1.56 |
| 165279 | 1 | 95 | <3 | 44 | <.3 | 99 | 31 | 374 | 4.62 | 8 | <8 | <2 | <2 | 44 | <.5 | 4 | <3 | 146 | 1.72 | .082 | 2 | 130 | 1.71 | 30 | .37 | <3 | 2.01 | .23 | .28 | <2 | 17 | 5.23 |
| 165280 | 2 | 127 | <3 | 27 | <.3 | 107 | 42 | 278 | 5.12 | 6 | <8 | <2 | <2 | 83 | <.5 | 3 | 3 | 156 | 1.81 | .078 | 2 | 155 | 1.41 | 23 | .31 | <3 | 2.35 | .36 | .16 | <2 | 29 | 6.79 |
| 165281 | 6 | 64 | <3 | 62 | <.3 | 58 | 28 | 1099 | 7.71 | 12 | <8 | <2 | <2 | 45 | <.5 | 3 | 4 | 124 | 2.41 | .083 | 3 | 94 | 2.66 | 49 | .28 | <3 | 2.45 | .05 | .34 | <2 | 42 | 2.80 |
| 165282 | 2 | 10 | <3 | 25 | <.3 | 3 | 9 | 267 | 3.71 | 8 | <8 | <2 | 4 | 195 | <.5 | <3 | <3 | 33 | 1.11 | .065 | 5 | 6 | .72 | 62 | .08 | <3 | 2.11 | .24 | .39 | <2 | 13 | 3.20 |
| 165283 | 2 | 76 | <3 | 27 | .3 | 3 | 6 | 338 | 2.56 | 3 | <8 | <2 | 4 | 72 | <.5 | <3 | 4 | 33 | 1.15 | .069 | 6 | 4 | .69 | 28 | .08 | <3 | 1.59 | .19 | .22 | <2 | 91 | 2.27 |
| 165284 | 5 | 3 | 3 | 29 | <.3 | 2 | 5 | 297 | 2.29 | 4 | <8 | <2 | 3 | 153 | <.5 | <3 | <3 | 35 | 1.68 | .068 | 5 | 4 | .70 | 42 | .07 | <3 | 2.67 | .37 | .28 | <2 | 4 | 1.94 |
| 165285 | 2 | 75 | <3 | 24 | <.3 | 2 | 3 | 277 | 2.11 | 3 | <8 | <2 | 3 | 78 | <.5 | <3 | <3 | 33 | 1.10 | .069 | 8 | 2 | .53 | 47 | .08 | <3 | 1.12 | .14 | .12 | <2 | 12 | 3.70 |
| 165286 | 4 | 201 | 3 | 37 | .5 | 2 | 10 | 300 | 2.67 | 14 | <8 | <2 | 4 | 38 | <.5 | 4 | <3 | 39 | 1.29 | .084 | 9 | 8 | .77 | 46 | .10 | <3 | 1.02 | .09 | .16 | 2 | 211 | 1.95 |
| 165287 | 2 | 51 | 3 | 25 | <.3 | 2 | 6 | 262 | 2.40 | 4 | <8 | <2 | 3 | 64 | <.5 | <3 | <3 | 32 | 1.33 | .072 | 8 | 4 | .62 | 30 | .08 | <3 | 1.29 | .16 | .13 | <2 | 27 | 1.58 |
| 165288 | 1 | 53 | <3 | 31 | <.3 | 4 | 13 | 240 | 2.26 | 4 | <8 | <2 | 4 | 90 | <.5 | <3 | <3 | 33 | 1.00 | .072 | 7 | 8 | .57 | 45 | .09 | <3 | 1.58 | .23 | .19 | <2 | 19 | 6.01 |
| 165289 | <1 | 34 | <3 | 30 | <.3 | 3 | 2 | 227 | 1.61 | <2 | <8 | <2 | 4 | 55 | <.5 | <3 | 3 | 26 | .66 | .070 | 8 | 3 | .56 | 18 | .08 | <3 | 1.06 | .11 | .07 | <2 | 5 | 2.14 |
| 165290 | 3 | 14 | <3 | 25 | <.3 | 2 | 14 | 255 | 2.11 | 3 | <8 | <2 | 3 | 101 | <.5 | <3 | 3 | 27 | 1.03 | .069 | 7 | 5 | .55 | 30 | .08 | <3 | 1.37 | .18 | .12 | <2 | 11 | 1.77 |
| RE 165290 | 2 | 14 | <3 | 24 | <.3 | 2 | 14 | 254 | 2.09 | 3 | <8 | <2 | 3 | 98 | <.5 | <3 | <3 | 26 | 1.00 | .066 | 7 | 4 | .53 | 29 | .08 | <3 | 1.33 | .18 | .11 | <2 | 4 | - |
| RRE 165290 | 2 | 13 | <3 | 25 | <.3 | 2 | 14 | 245 | 2.05 | 3 | <8 | <2 | 3 | 99 | <.5 | <3 | <3 | 27 | 1.00 | .066 | 7 | 6 | .53 | 30 | .08 | <3 | 1.34 | .18 | .12 | <2 | 3 | - |
| 165291 | 1 | 270 | <3 | 25 | .3 | 76 | 29 | 221 | 4.39 | <2 | <8 | <2 | <2 | 49 | <.5 | <3 | <3 | 134 | 1.39 | .086 | 2 | 103 | 1.38 | 35 | .28 | <3 | 2.32 | .27 | .38 | <2 | 45 | 2.58 |
| 165292 | 2 | 275 | <3 | 27 | <.3 | 80 | 33 | 247 | 4.83 | 3 | <8 | <2 | <2 | 54 | <.5 | 4 | <3 | 172 | 1.23 | .067 | 1 | 128 | 1.80 | 29 | .29 | <3 | 2.53 | .24 | .69 | <2 | 39 | 6.38 |
| 165293 | 1 | 211 | <3 | 30 | <.3 | 88 | 35 | 284 | 5.40 | 5 | <8 | <2 | <2 | 48 | <.5 | 5 | 3 | 181 | 1.16 | .064 | 2 | 141 | 2.09 | 26 | .29 | <3 | 2.55 | .20 | .30 | <2 | 15 | 6.91 |
| 165294 | <1 | 169 | <3 | 37 | <.3 | 84 | 30 | 352 | 4.46 | 5 | <8 | <2 | <2 | 41 | <.5 | 4 | <3 | 152 | 1.36 | .058 | 1 | 131 | 2.38 | 30 | .41 | <3 | 2.68 | .21 | .32 | <2 | 15 | 1.90 |
| 165295 | 2 | 289 | <3 | 15 | <.3 | 42 | 20 | 192 | 2.60 | 5 | <8 | <2 | <2 | 69 | <.5 | <3 | <3 | 62 | 1.84 | .080 | 3 | 42 | .69 | 5 | .32 | <3 | 1.46 | .17 | .06 | <2 | 33 | 3.89 |
| 165296 | 4 | 348 | <3 | 19 | <.3 | 57 | 22 | 225 | 2.05 | 7 | <8 | <2 | <2 | 75 | <.5 | <3 | <3 | 73 | 2.42 | .073 | 3 | 52 | .87 | 19 | .35 | <3 | 2.17 | .34 | .14 | <2 | 30 | 3.45 |
| 165297 | 5 | 202 | <3 | 44 | <.3 | 20 | 13 | 416 | 2.51 | 9 | <8 | <2 | <2 | 75 | .7 | <3 | <3 | 48 | 4.23 | .119 | 7 | 11 | .38 | 9 | .19 | <3 | 1.34 | .15 | .06 | <2 | 86 | 4.55 |
| 165298 | 11 | 2416 | 3 | 94 | .8 | 39 | 172 | 473 | 21.28 | 110 | <8 | <2 | <2 | 25 | 1.2 | <3 | <3 | 37 | 6.15 | .038 | 2 | 21 | .24 | 4 | .15 | <3 | .38 | .01 | .02 | <2 | 325 | 2.47 |
| 165299 | 5 | 330 | <3 | 59 | .4 | 101 | 31 | 627 | 4.59 | 11 | <8 | <2 | <2 | 57 | <.5 | 4 | 3 | 149 | 2.66 | .088 | 3 | 133 | 2.34 | 77 | .46 | <3 | 2.44 | .14 | .52 | <2 | 97 | 1.81 |
| 165300 | 7 | 177 | <3 | 34 | .3 | 67 | 35 | 369 | 3.95 | 12 | <8 | <2 | <2 | 54 | <.5 | 3 | <3 | 131 | 1.94 | .128 | 3 | 89 | 1.61 | 54 | .42 | <3 | 1.66 | .16 | .33 | <2 | 30 | 3.01 |
| 165301 | 2 | 256 | <3 | 35 | <.3 | 115 | 33 | 306 | 4.58 | 6 | <8 | <2 | <2 | 60 | <.5 | 3 | 3 | 129 | 1.68 | .076 | 2 | 131 | 1.69 | 58 | .33 | <3 | 2.28 | .24 | .40 | <2 | 31 | 5.00 |
| 165302 | 2 | 279 | <3 | 34 | <.3 | 125 | 44 | 301 | 5.06 | 7 | <8 | <2 | <2 | 60 | <.5 | 4 | <3 | 138 | 1.37 | .084 | 2 | 113 | 1.80 | 69 | .34 | <3 | 2.18 | .32 | .43 | <2 | 79 | 5.77 |
| 165303 | <1 | 102 | <3 | 27 | <.3 | 105 | 39 | 293 | 4.64 | 10 | <8 | <2 | <2 | 59 | <.5 | 3 | <3 | 138 | 1.60 | .096 | 3 | 120 | 1.45 | 86 | .30 | <3 | 2.23 | .29 | .49 | <2 | 25 | 6.59 |
| 165304 | 14 | 867 | <3 | 22 | <.3 | 54 | 97 | 576 | 14.93 | 80 | <8 | <2 | <2 | 66 | .9 | <3 | 5 | 44 | 6.54 | .038 | 2 | 26 | .75 | 8 | .17 | <3 | .60 | .02 | .04 | <2 | 215 | 2.74 |
| 165305 | 2 | 478 | <3 | 30 | .3 | 82 | 46 | 289 | 4.72 | 12 | <8 | <2 | <2 | 35 | <.5 | <3 | 4 | 94 | 1.43 | .064 | 2 | 69 | 1.27 | 30 | .30 | <3 | 1.75 | .20 | .22 | <2 | 57 | 1.83 |
| 165306 | <1 | 809 | <3 | 63 | <.3 | 29 | 107 | 673 | 26.12 | 63 | <8 | <2 | <2 | 47 | .5 | <3 | 4 | 43 | 6.74 | .027 | 2 | 32 | .77 | 4 | .09 | <3 | .54 | .01 | .02 | <2 | 205 | .88 |
| 165307 | 1 | 30 | <3 | 228 | .4 | 7 | 4 | 1204 | .65 | 8 | <8 | <2 | <2 | 395 | 1.7 | <3 | <3 | 3 | 36.60 | .010 | <1 | <1 | .07 | 6 | .01 | <3 | .03 | <.01 | <.01 | <2 | <2 | 5.77 |
| 165308 | 1 | 260 | <3 | 74 | <.3 | 87 | 33 | 504 | 3.95 | 5 | <8 | <2 | <2 | 20 | <.5 | <3 | <3 | 134 | 1.61 | .093 | 3 | 110 | 1.69 | 34 | .38 | <3 | 1.61 | .21 | .40 | <2 | 13 | 2.20 |
| STANDARD DS5/AU-R | 13 | 145 | 24 | 133 | .3 | 25 | 12 | 739 | 3.04 | 17 | 8 | <2 | 3 | 45 | 5.6 | 5 | 6 | 59 | .72 | .096 | 11 | 189 | .67 | 137 | .10 | 16 | 2.01 | .04 | .14 | 4 | 485 | - |

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au** ppb | Sample kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 165309 | 3 | 8315 | <3 | 68 | 1.7 | 124 | 127 | 412 | 17.90 | 21 | <8 | <2 | 2 | 23 | 1.8 | <3 | <3 | 56 | 4.44 | .040 | 2 | 31 | .69 | 16 | .21 | <3 | .58 | .06 | .09 | <2 | 688 | .58 |
| 165310 | 1 | 1599 | <3 | 60 | .7 | 90 | 31 | 395 | 4.19 | 5 | <8 | <2 | <2 | 30 | <.5 | 4 | <3 | 140 | 1.61 | .084 | 3 | 113 | 1.71 | 30 | .34 | <3 | 1.63 | .17 | .23 | <2 | 51 | 6.13 |
| 165311 | 1 | 175 | <3 | 17 | <.3 | 47 | 32 | 392 | 2.51 | 7 | <8 | <2 | <2 | 100 | <.5 | <3 | <3 | 47 | 16.40 | .033 | 1 | 23 | .67 | 4 | .16 | <3 | 1.00 | .04 | .09 | <2 | 12 | .85 |
| 165312 | 1 | 298 | <3 | 37 | <.3 | 78 | 37 | 353 | 3.47 | 8 | <8 | <2 | <2 | 40 | <.5 | <3 | <3 | 73 | 1.49 | .074 | 2 | 76 | 1.30 | 40 | .34 | <3 | 1.55 | .17 | .25 | <2 | 54 | 2.79 |
| 165313 | 2 | 304 | 7 | 118 | .3 | 20 | 20 | 555 | 2.36 | 9 | <8 | <2 | <2 | 55 | 1.1 | <3 | <3 | 44 | 9.56 | .097 | 5 | 12 | .73 | 6 | .11 | 5 | 1.42 | .05 | .14 | <2 | 41 | 1.06 |
| 165314 | <1 | 127 | 10 | 74 | .4 | 3 | 4 | 664 | .56 | 12 | <8 | <2 | <2 | 377 | 1.9 | <3 | 6 | 20 | 35.34 | .027 | 1 | 2 | .05 | 4 | <.01 | 3 | .07 | <.01 | .01 | <2 | 72 | 2.60 |
| 165315 | 2 | 39 | <3 | 60 | <.3 | 76 | 23 | 822 | 2.29 | 8 | 10 | <2 | <2 | 64 | <.5 | 4 | <3 | 61 | 9.45 | .078 | 2 | 80 | 1.66 | 5 | .31 | <3 | 1.65 | .03 | .08 | <2 | 13 | .96 |
| 165316 | 1 | 365 | <3 | 53 | <.3 | 81 | 35 | 489 | 3.79 | 3 | 9 | <2 | <2 | 21 | <.5 | <3 | <3 | 126 | 2.18 | .090 | 3 | 113 | 1.71 | 29 | .48 | <3 | 1.49 | .17 | .21 | <2 | 86 | 5.09 |
| 165317 | <1 | 882 | <3 | 41 | .4 | 82 | 35 | 299 | 3.58 | 2 | <8 | <2 | <2 | 26 | <.5 | <3 | <3 | 107 | 1.19 | .083 | 2 | 104 | 1.41 | 37 | .30 | <3 | 1.45 | .12 | .24 | <2 | 247 | 6.49 |
| 165318 | <1 | 92 | <3 | 40 | <.3 | 81 | 19 | 466 | 2.72 | 3 | <8 | <2 | <2 | 47 | <.5 | <3 | <3 | 87 | 3.78 | .068 | 2 | 107 | 1.59 | 9 | .31 | <3 | 2.37 | .09 | .20 | <2 | 11 | 1.33 |
| 165319 | 1 | 183 | <3 | 28 | <.3 | 91 | 27 | 233 | 3.63 | 2 | <8 | <2 | <2 | 34 | <.5 | <3 | <3 | 120 | 1.27 | .082 | 3 | 126 | 1.13 | 16 | .26 | <3 | 1.46 | .14 | .13 | <2 | 13 | 2.33 |
| 165320 | <1 | 566 | <3 | 66 | <.3 | 96 | 43 | 452 | 5.89 | 12 | <8 | <2 | <2 | 25 | <.5 | <3 | <3 | 165 | 2.17 | .089 | 4 | 107 | 1.81 | 11 | .46 | <3 | 1.93 | .18 | .13 | <2 | 36 | 1.05 |
| RE 165320 | 2 | 557 | <3 | 64 | <.3 | 95 | 42 | 447 | 5.83 | 13 | 8 | <2 | <2 | 25 | <.5 | <3 | <3 | 163 | 2.14 | .089 | 3 | 114 | 1.79 | 10 | .46 | <3 | 1.91 | .18 | .13 | <2 | 27 | - |
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| 165321 | <1 | 103 | <3 | 50 | <.3 | 89 | 55 | 433 | 7.82 | 78 | <8 | <2 | <2 | 45 | .5 | 4 | <3 | 155 | 2.25 | .080 | 2 | 124 | 2.08 | 11 | .40 | <3 | 2.99 | .33 | .13 | <2 | 70 | 2.70 |
| 165322 | 2 | 524 | <3 | 45 | .3 | 97 | 37 | 420 | 5.48 | 11 | 8 | <2 | <2 | 113 | <.5 | 6 | <3 | 165 | 1.53 | .083 | 2 | 135 | 1.93 | 46 | .36 | <3 | 2.44 | .21 | .29 | <2 | 119 | 6.18 |
| 165323 | <1 | 1620 | 3 | 58 | 1.6 | 109 | 56 | 472 | 4.87 | 14 | <8 | <2 | <2 | 86 | .5 | <3 | <3 | 133 | 1.62 | .085 | 1 | 104 | 1.78 | 19 | .44 | <3 | 2.16 | .25 | .07 | <2 | 550 | 2.78 |
| 165324 | 1 | 476 | <3 | 55 | .5 | 115 | 38 | 496 | 5.74 | 10 | <8 | <2 | <2 | 79 | <.5 | <3 | <3 | 168 | 1.48 | .081 | 1 | 122 | 2.20 | 28 | .36 | <3 | 2.71 | .23 | .13 | <2 | 128 | 5.48 |
| 165325 | <1 | 476 | <3 | 67 | .6 | 128 | 47 | 733 | 6.37 | 20 | <8 | <2 | <2 | 120 | <.5 | <3 | <3 | 177 | 2.28 | .070 | 1 | 128 | 3.06 | 33 | .44 | 4 | 3.20 | .13 | .11 | <2 | 127 | 4.58 |
| 165326 | 1 | 249 | <3 | 57 | <.3 | 103 | 46 | 908 | 6.64 | 31 | <8 | <2 | <2 | 136 | <.5 | <3 | <3 | 121 | 4.41 | .079 | 1 | 98 | 2.57 | 45 | .31 | <3 | 2.96 | .19 | .36 | <2 | 80 | 7.06 |
| 165327 | 2 | 528 | 5 | 83 | .7 | 122 | 57 | 1081 | 5.15 | 27 | 10 | <2 | <2 | 274 | .6 | <3 | <3 | 147 | 5.48 | .070 | <1 | 126 | 2.74 | 91 | .34 | <3 | 4.47 | .25 | 1.16 | <2 | 119 | 4.26 |
| 165328 | 2 | 64 | <3 | 48 | <.3 | 73 | 35 | 1801 | 5.57 | 50 | <8 | <2 | <2 | 480 | .9 | <3 | <3 | 94 | 19.61 | .044 | 2 | 76 | 2.85 | 48 | .16 | <3 | 2.11 | .04 | .40 | <2 | 85 | 2.58 |
| 165329 | 1 | 334 | <3 | 69 | .5 | 118 | 64 | 618 | 4.86 | 15 | <8 | <2 | <2 | 125 | <.5 | <3 | <3 | 130 | 1.73 | .084 | 1 | 114 | 2.37 | 46 | .35 | <3 | 2.84 | .21 | .51 | <2 | 105 | 2.94 |
| 165330 | <1 | 556 | 4 | 59 | .4 | 107 | 41 | 601 | 4.49 | 9 | <8 | <2 | <2 | 37 | <.5 | <3 | <3 | 122 | 1.29 | .072 | 1 | 120 | 2.63 | 19 | .37 | <3 | 2.56 | .11 | .28 | <2 | 97 | 3.96 |
| 165331 | 1 | 253 | <3 | 15 | <.3 | 71 | 78 | 163 | 30.21 | 43 | <8 | <2 | <2 | 12 | .7 | <3 | <3 | 33 | 1.25 | .023 | 1 | 45 | .58 | 3 | .13 | <3 | .49 | .02 | .01 | 2 | 296 | .74 |
| 165332 | 5 | 207 | <3 | 27 | <.3 | 65 | 31 | 335 | 3.17 | 6 | <8 | <2 | <2 | 39 | <.5 | <3 | <3 | 67 | 1.30 | .050 | 2 | 64 | 1.06 | 17 | .26 | <3 | 1.45 | .15 | .12 | <2 | 38 | 6.94 |
| STANDARD DS5/AU-R | 13 | 145 | 24 | 135 | .3 | 25 | 12 | 749 | 2.99 | 18 | <8 | <2 | 3 | 46 | 5.5 | 3 | 7 | 58 | .74 | .093 | 11 | 180 | .68 | 135 | .10 | 16 | 2.00 | .04 | .14 | 4 | 499 | - |

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

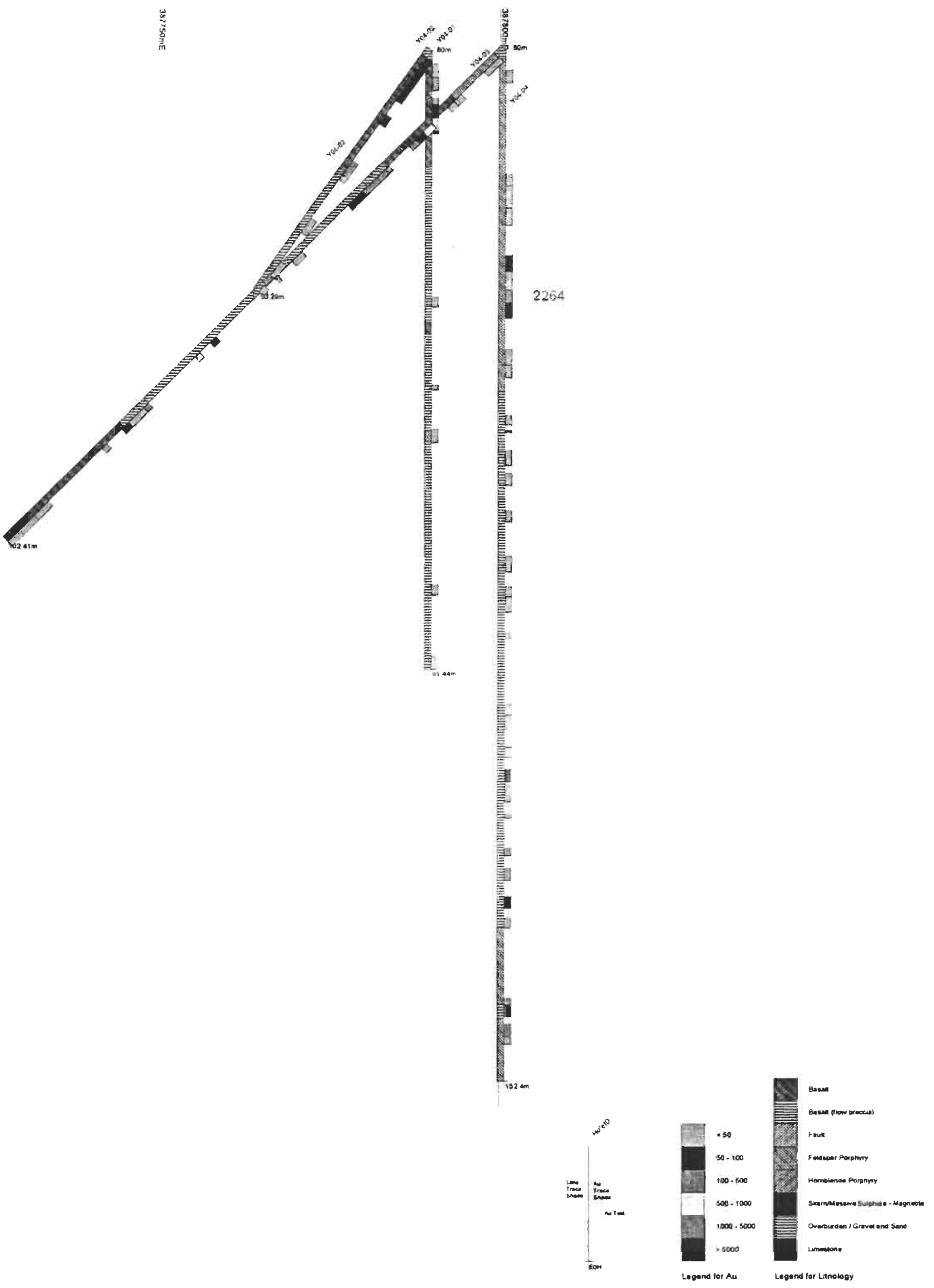
Data FA

# APPENDIX IV

# DRILL SECTIONS

# DRILL HOLE SECTIONS

## SECTION 1



. 555 Corporate Ventures Inc.

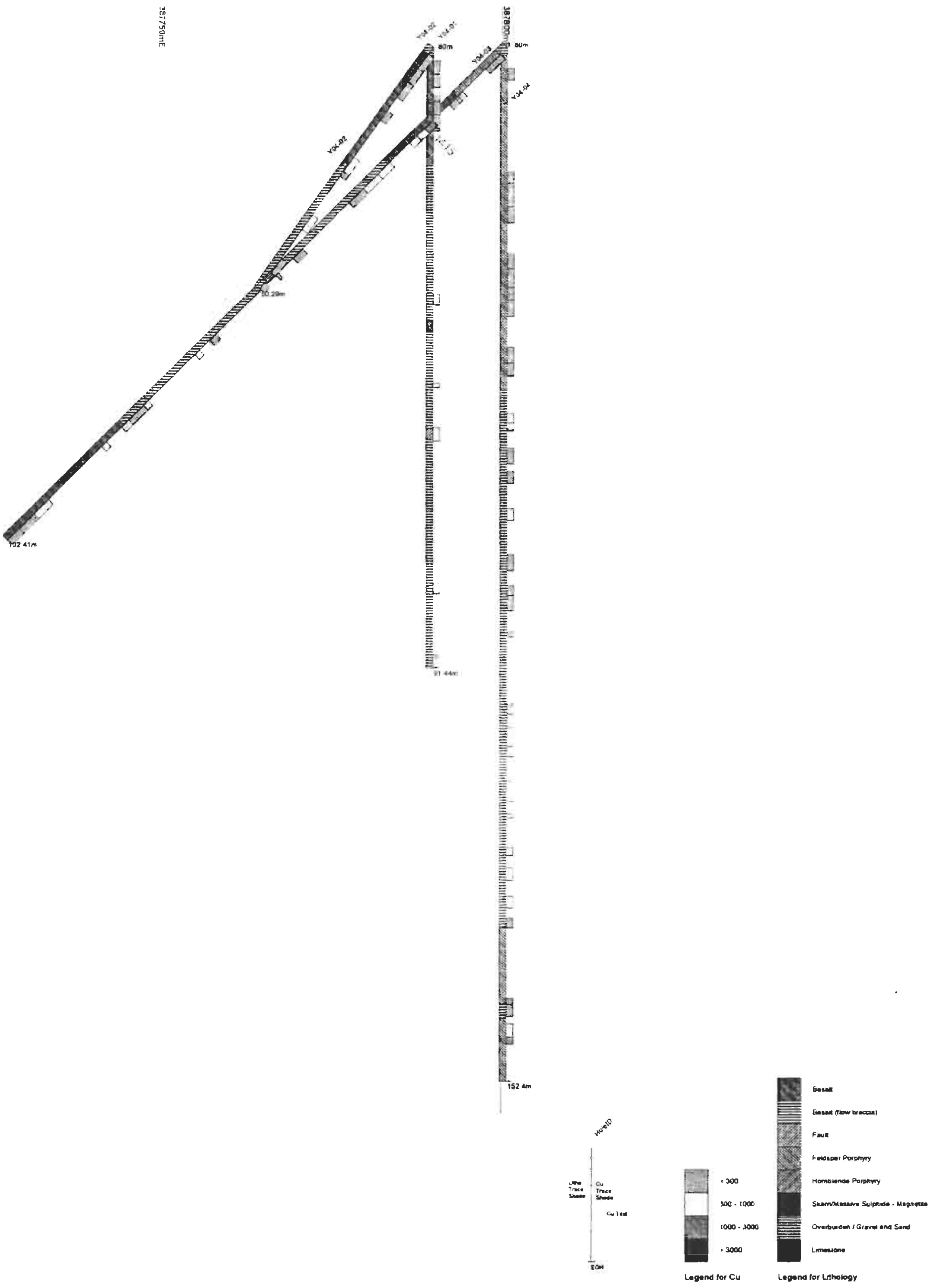
Yew Project
Texada Island, B.C.

**Section 1**

Date: Sept. 2004
Author.
NTS: 92F/15
Scale: 1:600

Projection: NAD83 Zone 10

Rio Minerals Limited



. 555 Corporate Ventures Inc.

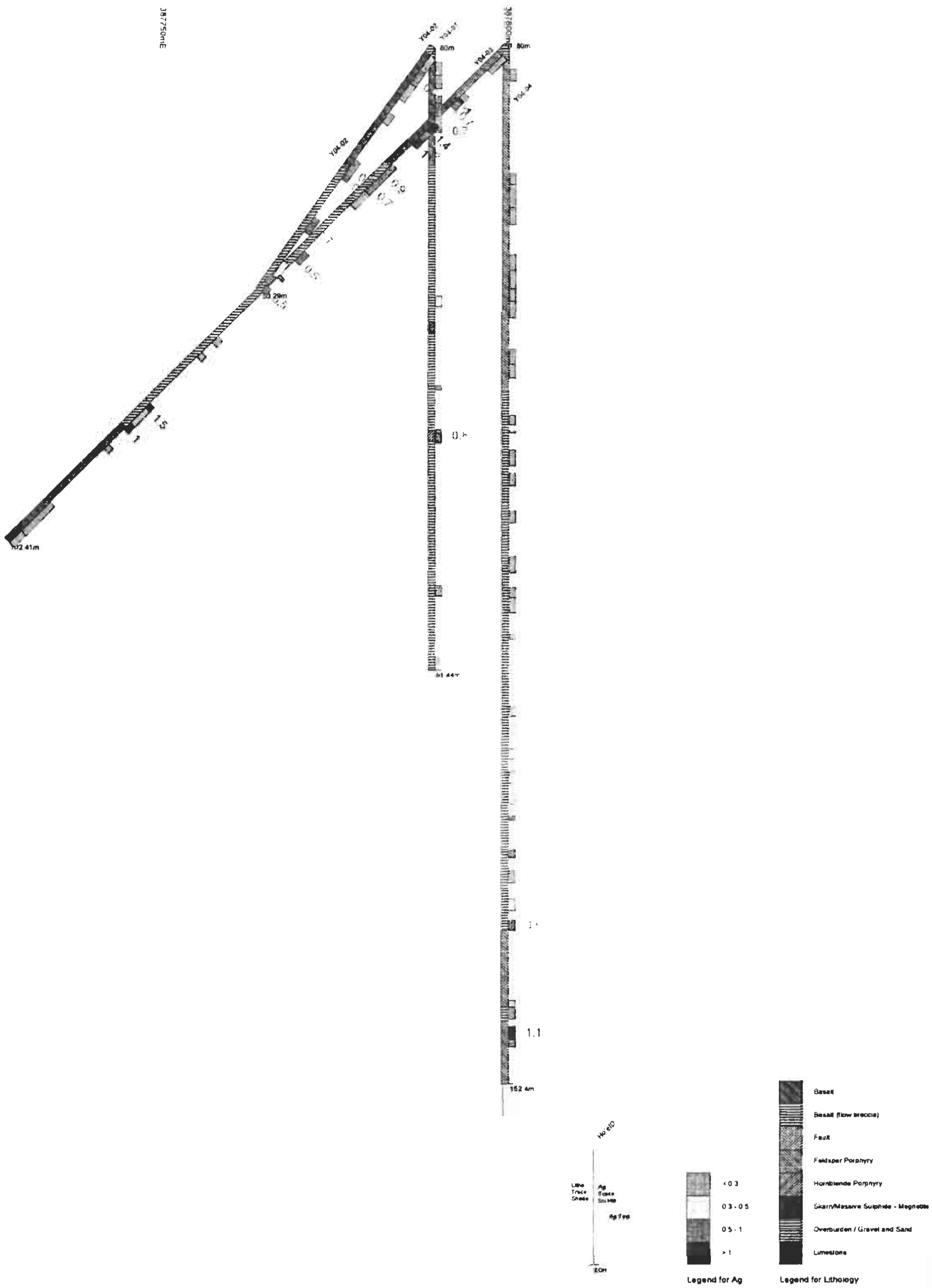
Yew Project
Texada Island, B.C.

**Section 1**

Date: Sept 2004
Author:
NTS: 92F/15
Scale: 1:600

Projection: NAD83 Zone 10

Rio Minerals Limited



. 555 Corporate Ventures Inc.

Yew Project
Texada Island, B.C.

**Section 1**

Date Sept. 2004
Author:
NTS: 92F/15
Scale: 1:600

Projection: NAD83, Zone 10

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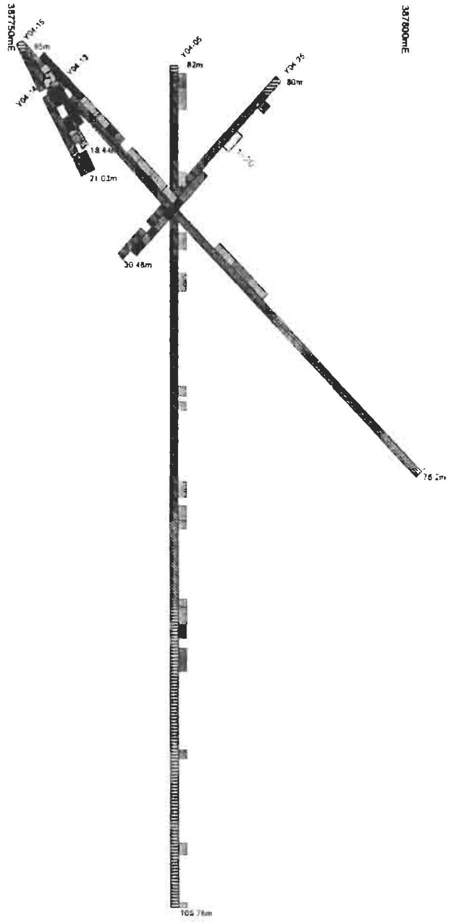
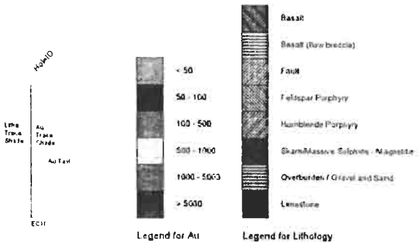
# DRILL HOLE SECTIONS

## SECTION 2

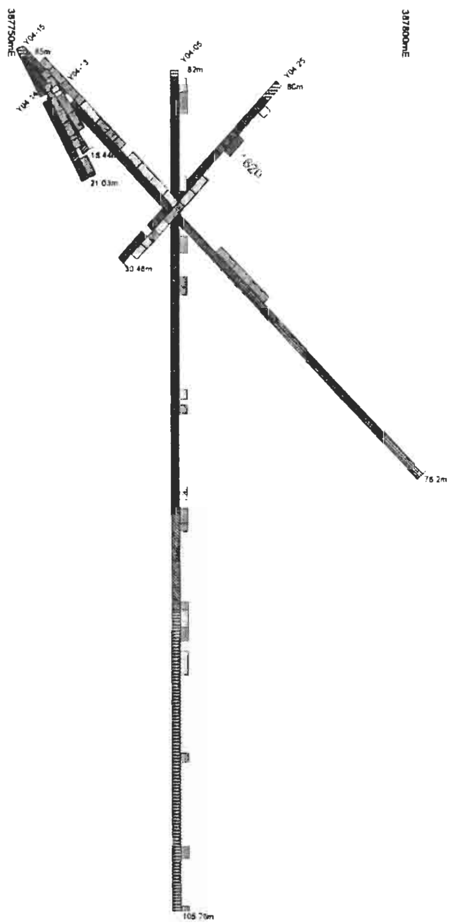


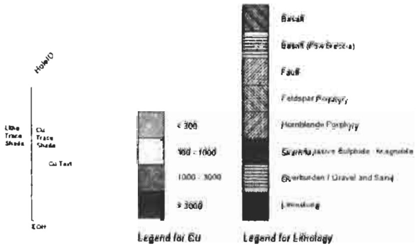


555 Corporate Ventures Inc.

| | |
|---|---|
| Date: Sept. 2004 | Yew Project<br>Texada Island, B.C.<br><br>**Section 2** |
| Author: | |
| NTS: 92F/15 | |
| Scale: 1:600 | |
| | Projection: NAD83, Zone 10 |

Rio Minerals Limited





555 Corporate Ventures Inc.

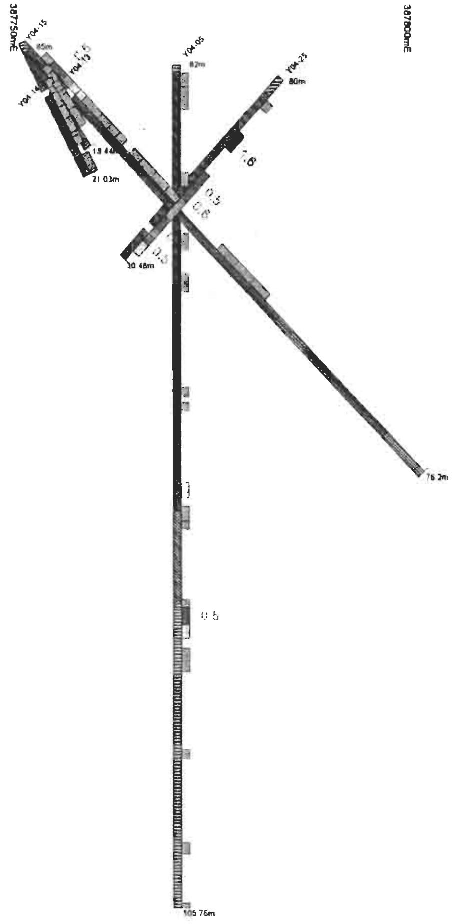
# Yew Project
# Texada Island, B.C.

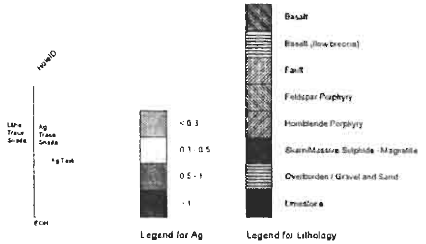
## Section 2

Date: Sept. 2004
Author:
NTS: 92F/15
Scale: 1:600

Projection: NAD83, Zone 10

Rio Minerals Limited





555 Corporate Ventures Inc.

Yew Project
Texada Island, B.C.

**Section 2**

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|---|---|
| **Date: Sept. 2004** | |
| **Author:** | |
| **NTS: 92F/15** | |
| **Scale: 1:600** | |

Projection: NAD83, Zone 10

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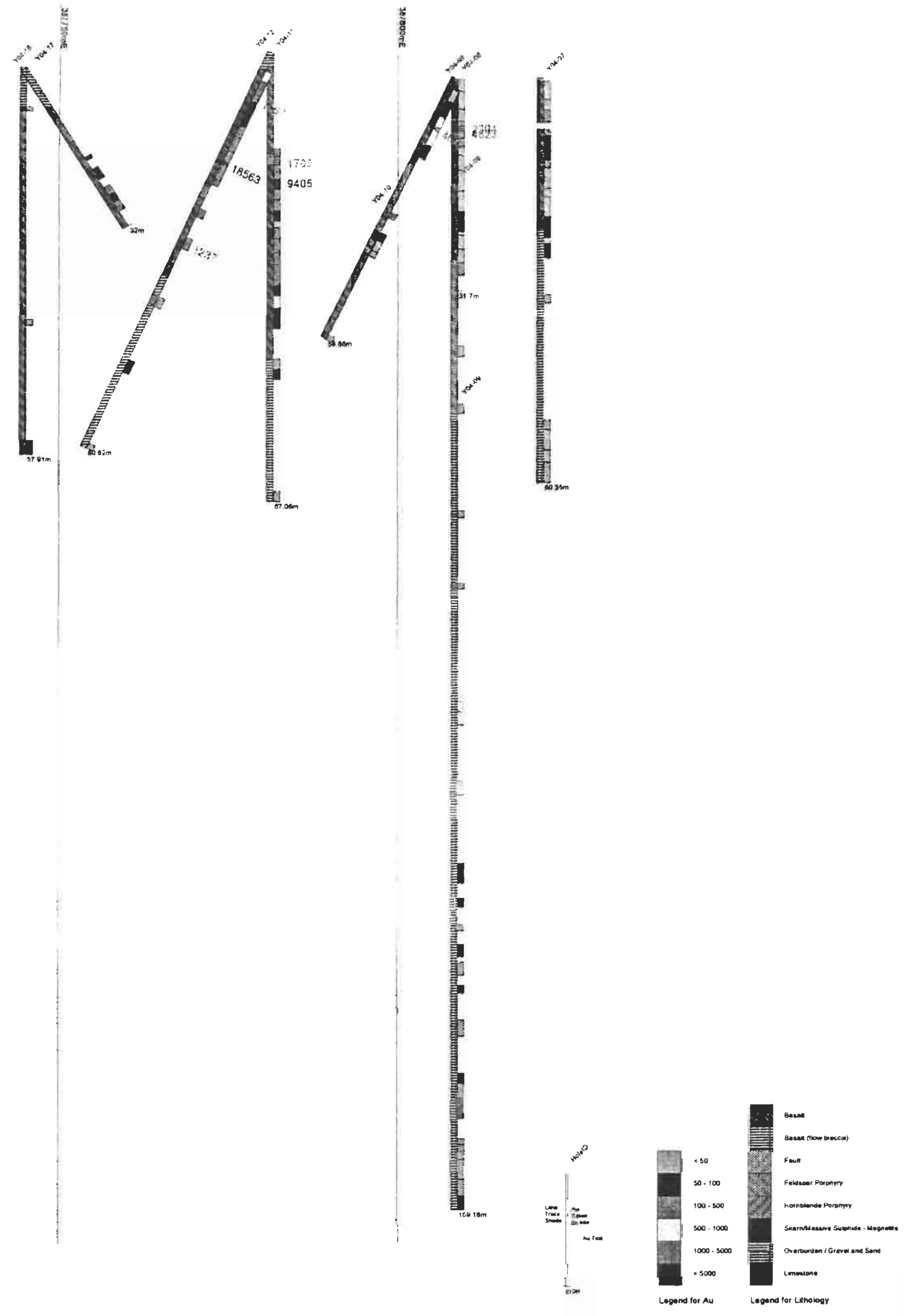
# DRILL HOLE SECTIONS

## SECTION 3



. 555 Corporate Ventures Inc.

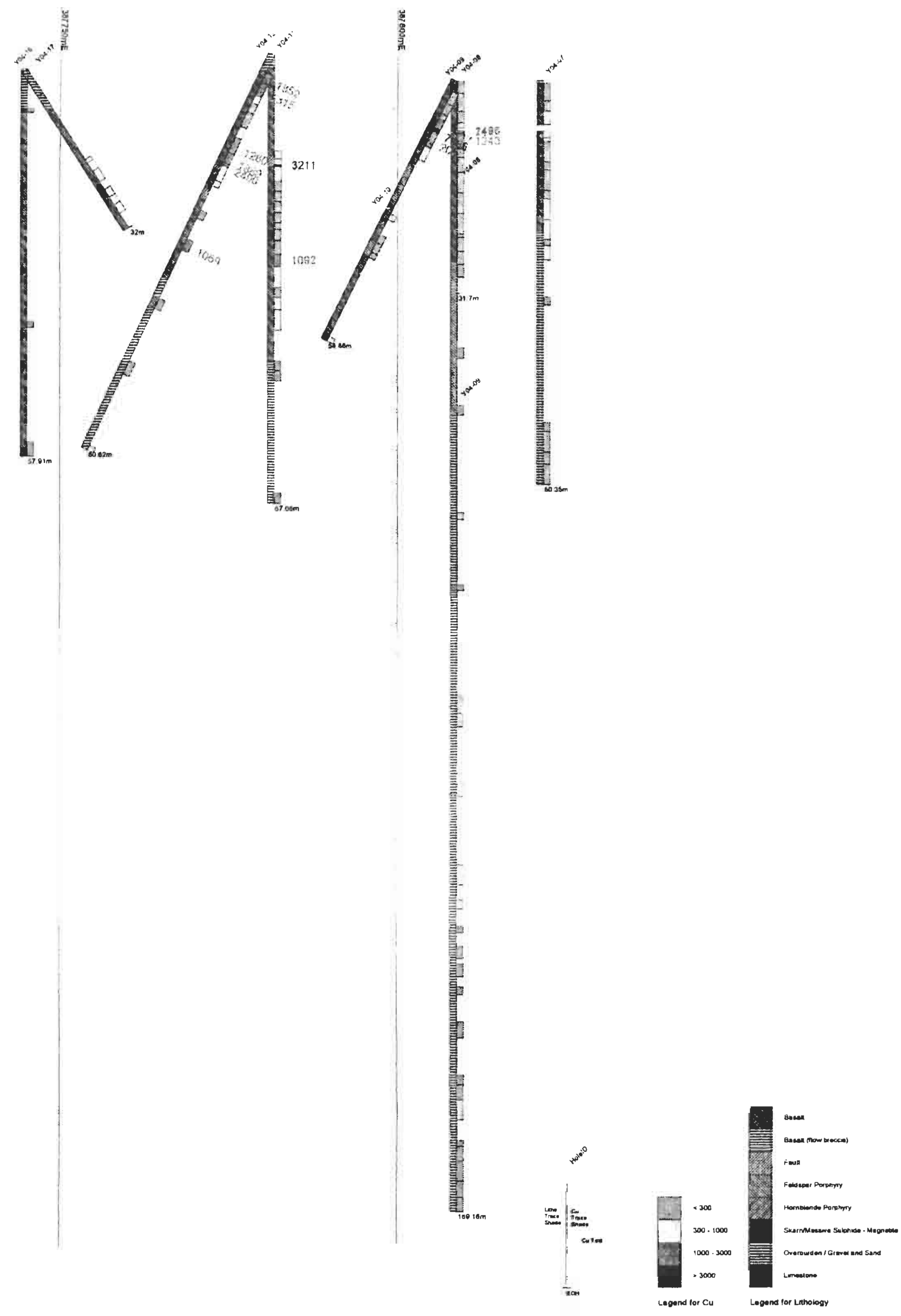
Yew Project
Texada Island, B.C.

**Section 3**

Date: Sept. 2004
Author
NTS 92F/15
Scale 1:600

Projection: NAD83, Zone 10

Rio Minerals Limited



555 Corporate Ventures Inc.

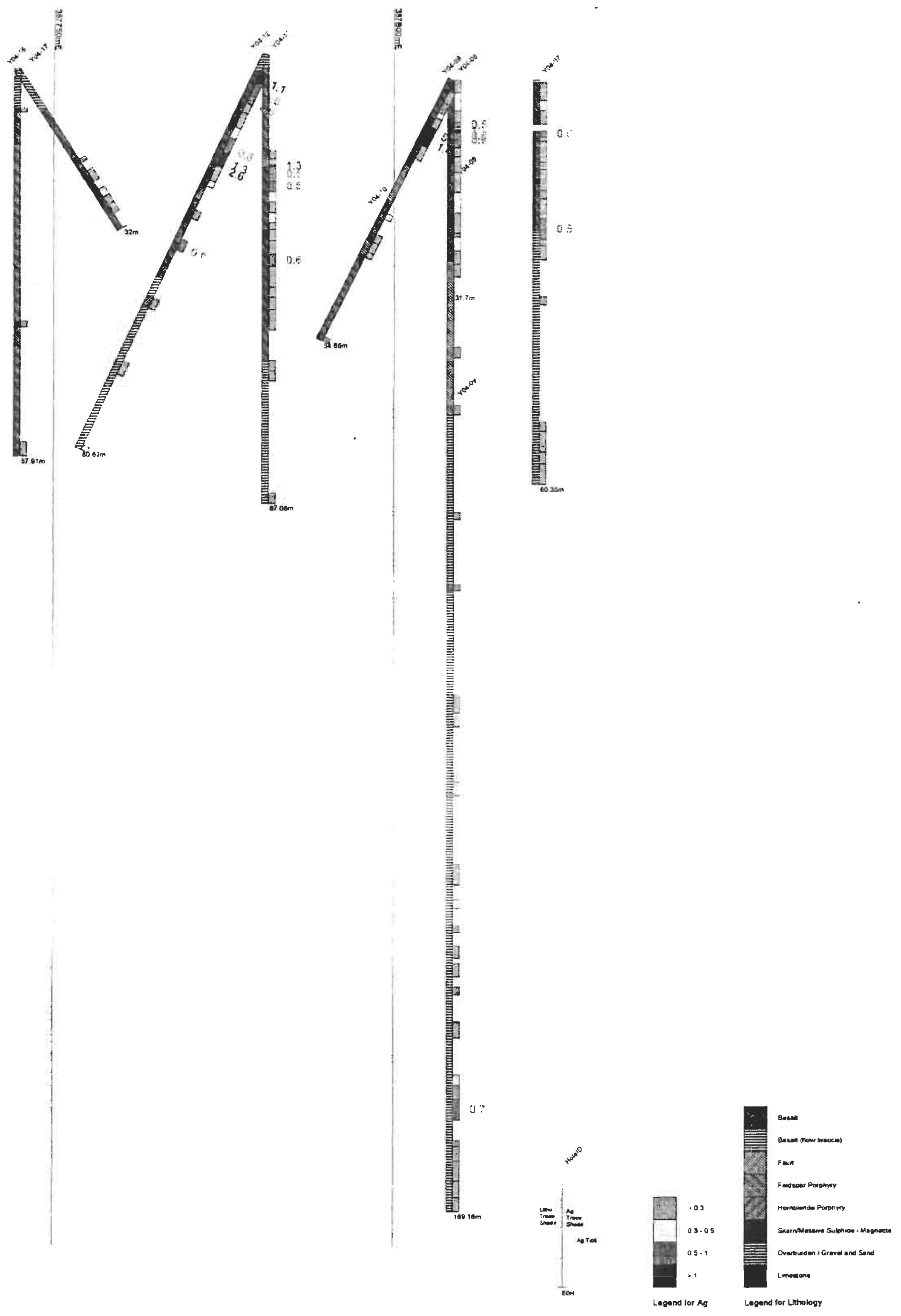
Yew Project
Texada Island, B.C.

**Section 3**

Date: Sept 2004
Author
NTS: 92F/15
Scale 1:600

Projection: NAD83, Zone 10

Rio Minerals Limited



555 Corporate Ventures Inc.

# Yew Project
# Texada Island, B.C.

## Section 3

Date: Sept. 2004
Author:
NTS: 92F/15
Scale: 1:600

Projection: NAD83, Zone 10

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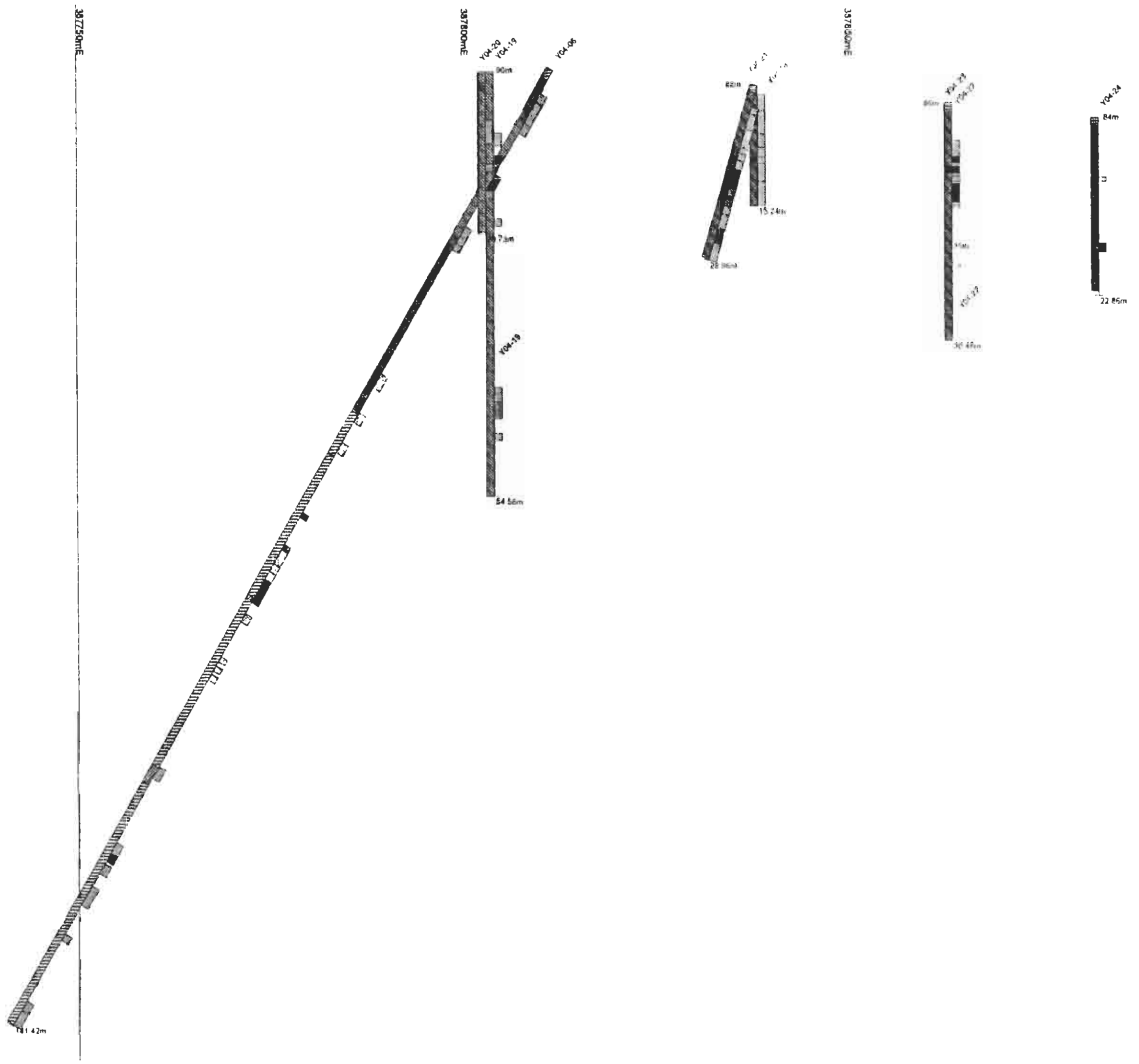
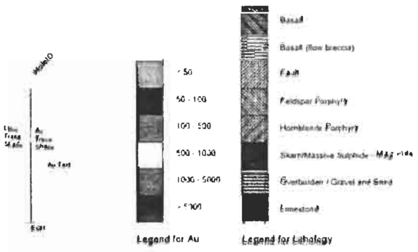
# DRILL HOLE SECTIONS

## SECTION 4





555 Corporate Ventures Inc.

Yew Project
Texada Island, B.C.

**Section 4**

Date: Sept 2004
Author:
NTS: 92F/15
Scale: 1:600

Projection: NAD83 Zone 10

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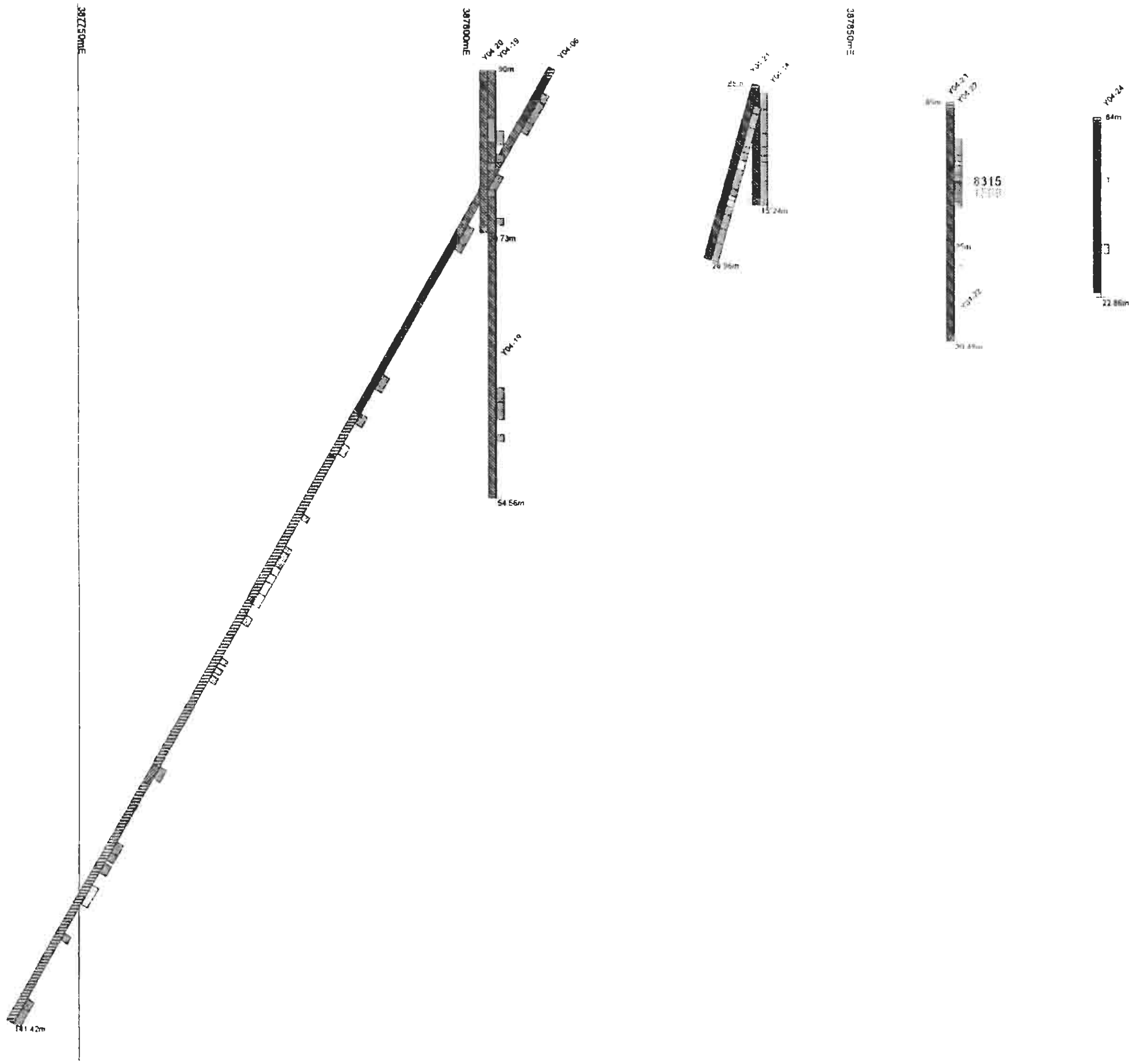

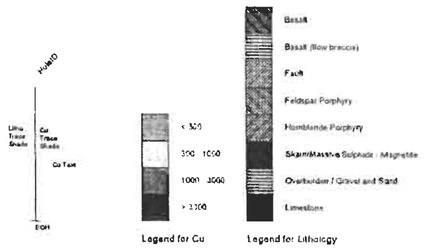

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## Texada Island, B.C.

## Section 4

Date: Sept. 2004
Author:
NTS: 92F/15
Scale: 1:600

Projection: NAD83, Zone 10

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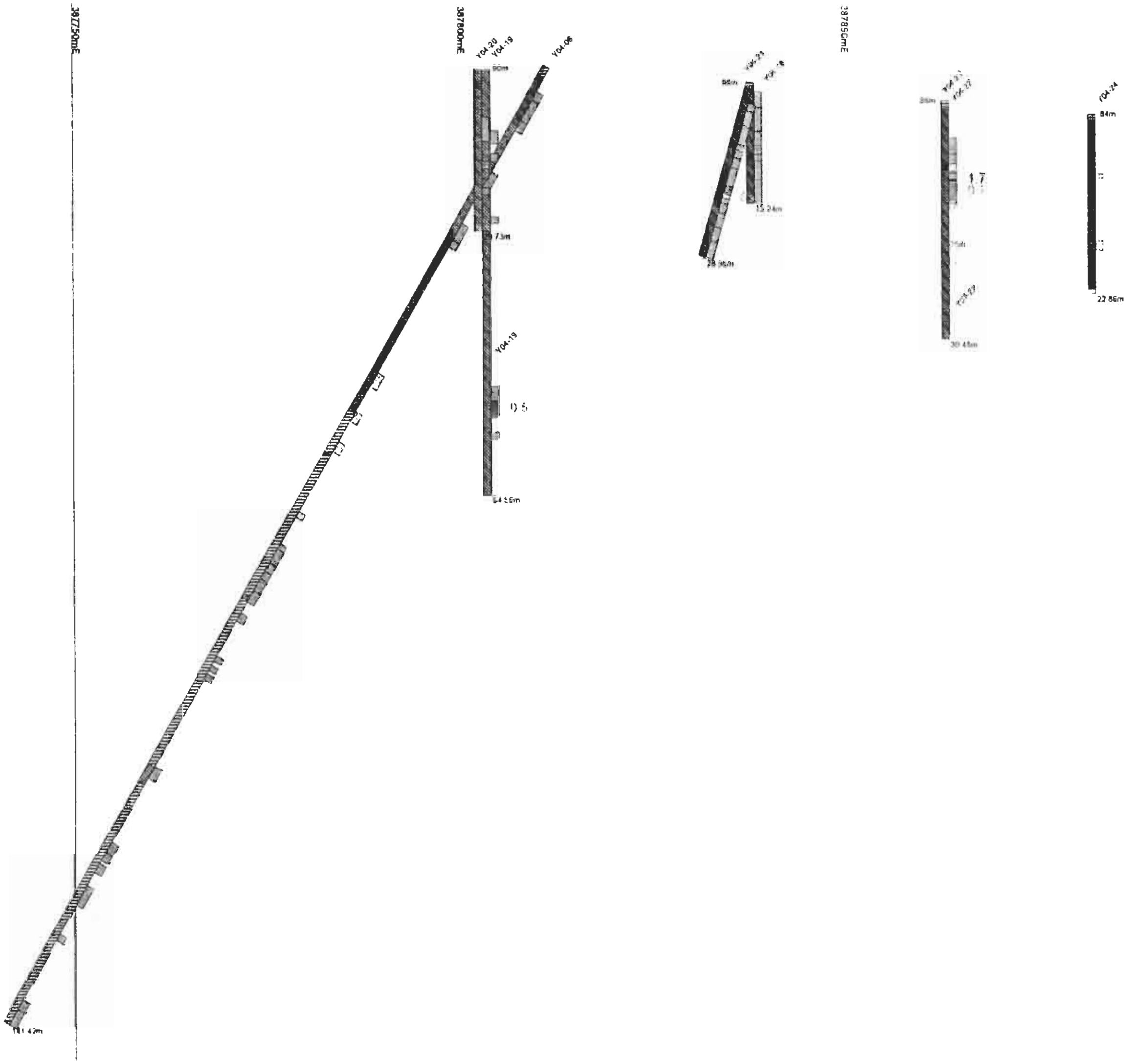

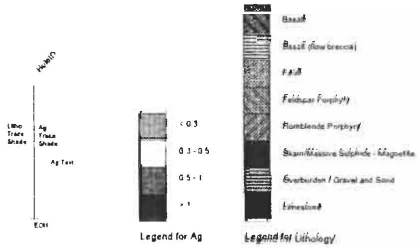

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**Section 4**

Date: Sept. 2004
Author:
NTS: 92F/15
Scale: 1:1000

Projection: NAD83, Zone 10

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